

Generic BRE
Green Guide Rating

B

EN 15804

Environmental Product
Declaration (EPD)

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KNAUF INSULATION



January 2017

Earthwool® Building Slab RS140

For a wide range of applications

Description

Earthwool Building Slab RS140 is a semi-rigid, resilient, non-combustible rock mineral wool slab manufactured in a density of 140kg/m³.

Application

Earthwool Building Slab RS140 is a multi-application product for use in built-up metal roofs and walls, intermediate and separating floors. Earthwool Building Slab RS140 is used extensively in OEM applications for fabrication of thermal, acoustic and fire products.

Standards

Earthwool Building Slabs are manufactured in accordance with BS EN 13162, ISO 50001 Energy Management Systems, OHSAS 18001 Occupational Health and Safety Management Systems, ISO 14001 Environmental Management Systems, and ISO 9001 Quality Management Systems, as certified by Bureau Veritas.

Performance

Thermal

The thermal conductivity of Earthwool Building Slab RS140 is 0.034 W/mK

Fire

Earthwool Building Slab RS140 is classified as Euroclass A1 (non-combustible) to BS EN 13501-1

Benefits

- Euroclass A1 Non Combustible
- Excellent thermal properties
- Excellent acoustic properties

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TECHNOLOGY



Move Forward with Confidence

Earthwool® Building Slab RS140

Durability

Earthwool Building Slab RS140 is odourless, rot proof, non-hygroscopic, do not sustain vermin and will not encourage the growth of fungi, mould or bacteria.

Fire performance

Earthwool Building Slab RS140 is classified as Euroclass A1 to BS EN 13501-1, non-combustible to BS 476:Part 4:1970 (1984) and, Class 1 Surface Spread of Flame to BS 476:Part 7:1997 and Class 'O' to the Building Regulations.

Moisture resistance

Earthwool Building Slab RS140 is non-wicking when tested to BS 2972:1989:Section 12. When exposed to 90% relative humidity at 20°C, Earthwool Building Slabs absorb less than 0.004% of moisture.

Vapour resistivity

Earthwool Building Slab RS140 offers negligible resistance to the passage of water vapour and have a water vapour resistivity of 5.00MN/g.m.

Environmental

Earthwool Building Slab RS140 represents no known threat to the environment and has zero Ozone Depletion Potential and zero Global Warming Potential. Earthwool Building Slab RS140 has a generic BRE Green Guide rating of B and is covered by Environmental Product Declaration BREG EN EPD No. 000097, ECO EPD Ref. No.: 000326 in accordance with the requirements of EN 15804.

Handling and storage

Earthwool Building Slab RS140 is easy to handle, install and cut to size, where necessary. Earthwool Building Slab RS140 is supplied in polythene packs which are designed for short term protection only. For longer term protection on site, the products should either be stored indoors, or under cover and off the ground. Earthwool Building Slab RS140 should not be left permanently exposed to the elements.

| | Thickness (mm) | Thermal conductivity (W/mK) | Thermal resistance (m ² K/W) | Length (mm) | Width (mm) | Slabs per pack | Area per pack (m ²) |
|--------|----------------|-----------------------------|---|-------------|------------|----------------|---------------------------------|
| RS 140 | 100 | 0.034 | 2.90 | 1200 | 600 | 2 | 1.44 |
| | 75 | 0.034 | 2.20 | 1200 | 600 | 3 | 2.16 |
| | 50 | 0.034 | 1.45 | 1200 | 600 | 4 | 2.88 |
| | 40 | 0.034 | 1.15 | 1200 | 600 | 5 | 3.60 |
| | 30 | 0.034 | 0.85 | 1200 | 600 | 7 | 5.04 |

Bespoke sizes

Earthwool Building Slab RS140 is available in bespoke dimensions to suit system specific requirements in thicknesses from 25 to 190mm.

Knauf Insulation mineral wool products made with ECOSE® Technology benefit from a no added formaldehyde binder, which is up to 70% less energy intensive than traditional binders and is mainly derived from rapidly renewable materials instead of petroleum-based chemicals. 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.

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