



# KNAUF INSULATION



January 2017

## Earthwool® Building Slab RS45

### For a wide range of applications

#### Description

Earthwool Building Slab RS45 is a semi-rigid, resilient, non-combustible rock mineral wool slab manufactured in a density of 45kg/m<sup>3</sup>.

#### Application

Earthwool Building Slab RS45 is a multi-application product for use in built-up metal roofs and walls, pitched roof constructions between rafters, intermediate floors, separating floors, internal stud partitions and light steel frame infill. Earthwool Building Slab RS45 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 RS45 is 0.035 W/mK

##### Fire

Earthwool Building Slab RS45 is classified as Euroclass A1 (non-combustible) to BS EN 13501-1

#### Benefits

- Friction fits between studs, joists, rafters and bracketry
- Non-combustible
- Excellent thermal and acoustic properties



Move Forward with Confidence

## Earthwool® Building Slab RS45

### Durability

Earthwool Building Slab RS45 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 RS45 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 RS45 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 RS45 offers negligible resistance to the passage of water vapour and have a water vapour resistivity of 5.00MN/g.m.

### Environmental

Earthwool Building Slab RS45 represents no known threat to the environment and has zero Ozone Depletion Potential and zero Global Warming Potential. Earthwool Building Slab RS45 has a generic BRE Green Guide rating of A+ and is covered by Environmental Product Declaration BREG EN EPD No. 000095, ECO EPD Ref. No.: 000324 in accordance with the requirements of EN 15804.

### Handling and storage

Earthwool Building Slab RS45 is easy to handle, install and cut to size, where necessary. Earthwool Building Slab RS45 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 RS45 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> )
RS45	150	0.035	4.25	1200	600	3	2.16
	100	0.035	2.85	1200	600	5	3.60
	75	0.035	2.10	1200	600	6	4.32
	60	0.035	1.70	1200	600	8	5.76
	50	0.035	1.40	1200	600	10	7.20
	40	0.035	1.10	1200	600	12	8.64
	30	0.035	0.85	1200	600	16	11.52
	25	0.035	0.70	1200	600	20	14.40

### Bespoke sizes

Earthwool Building Slab RS45 is available in bespoke dimensions to suit system specific requirements in thicknesses from 25 to 270mm.

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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