

EARTHWOOL BUILDING SLABS RS45

January 2018



APPLICATIONS



DESCRIPTION

Earthwool Building Slab RS45 is a semi-rigid, resilient, non-combustible rock mineral wool slab manufactured in a density of 45kg/m³.

PERFORMANCE

Thermal

R-value: 0.70 to 2.79 m²K/W

Fire

Classification: EUROCLASS A1 to BS EN 13501-1.



Vapour resistivity

Water vapour resistivity: 5.00MNs/g.m.

BENEFITS

- ✓ Wide range of densities
- ✓ Non-combustible
- ✓ Excellent thermal and acoustic properties

SPECIFICATIONS

Thickness (mm)	Thermal conductivity (W/mK)	R-value (m ² K/W)		R-value (m ² K/W)		Length (mm)	Width (mm)	Area per pack (m ²)	NRC
100	0.035	2.79		2.85		1200	600	3.60	1.16
75	0.035	2.09		2.10		1200	600	4.32	
50	0.035	1.40		1.40		1200	600	7.20	0.96
25	0.035	0.70		0.70		1200	600	14.40	

All dimensions are nominal

Bespoke Sizes

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



South African R-values calculated assuming 23°C mean temperature.



Euro R-values based on 10°C mean temperature, calculated according to requirements of A90:90 for declaring thermal performance and following the European norm standard including audited factory production control.

CERTIFICATION



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ADDITIONAL INFORMATION

Durability

Earthwool Building Slabs RS45 are odourless, rot proof, non-hygroscopic, do not sustain vermin and will not encourage the growth of fungi, mould or bacteria.

Application

Earthwool Building Slabs RS45 are used for a wide range of thermal and acoustic insulation applications in buildings.

Standards

Earthwool Building Slabs RS45 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.

Environmental

Earthwool Building Slabs RS45 represent no known threat to the environment and have zero Ozone Depletion Potential and zero Global Warming Potential.

Vapour resistivity

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

Moisture resistance

Earthwool Building Slabs RS45 are non-wicking when tested to BS 2972:1989:Section 12. When exposed to 90% relative humidity at 20°C, Earthwool Building Slabs RS45 absorb less than 0.004% of moisture.

Handling and storage

Earthwool Building Slabs RS45 are easy to handle, install and cut to size, where necessary. Earthwool Building Slabs RS45 are 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 Slabs RS45 should not be left permanently exposed to the elements.



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 made from rapidly renewable bio-based 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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