



March 2013

Earthwool® Building Slabs

For a wide range of applications

Description

Earthwool Building Slabs are a range of rigid and semi-rigid, resilient, non-combustible rock mineral wool slabs, available in densities from 33 to 140kg/m³. The standard products are supplied un-faced, but they can also be manufactured with a factory applied foil or tissue facing, they are also available in a water repellent grade.

Application

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

Standards

Earthwool Building Slabs are manufactured in accordance with BS EN 13162, EN 16001 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 Slabs varies with density from 0.035 to 0.037W/mK.

Fire

Earthwool Building Slabs are classified as Euroclass A1 to BS EN 13501-1.

Benefits

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

Earthwool® Building Slabs

Durability

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

Fire performance

Earthwool Building Slabs are classified as Euroclass A1 to BS EN 13505-1, 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 Slabs are 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 Slabs offer negligible resistance to the passage of water vapour and have a water vapour resistivity of 5.00MN/g.m.

Environmental

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

Handling and storage

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

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.

Earthwool® Building Slabs

	Thickness (mm)	Thermal conductivity (W/mK)	Thermal resistance (m ² K/W)	Length (mm)	Width (mm)	Slabs per pack	Area per pack (m ²)
RS33	100	0.037	2.70	1200	600	5	3.60
	70	0.037	1.85	1200	600	8	5.76
	60	0.037	1.60	1200	600	8	5.76
	50	0.037	1.35	1200	600	10	7.20
	40	0.037	1.05	1200	600	12	8.64
RS45	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
RS60	100	0.035	2.85	1200	600	4	2.88
	75	0.035	2.10	1200	600	6	4.32
	60	0.035	1.70	1200	600	7	5.04
	50	0.035	1.40	1200	600	9	6.48
	40	0.035	1.10	1200	600	12	8.64
	30	0.035	0.85	1200	600	14	10.08
	25	0.035	0.70	1200	600	18	12.96
RS100	100	0.035	2.85	1200	600	3	2.16
	75	0.035	2.10	1200	600	4	2.88
	60	0.035	1.70	1200	600	5	3.60
	50	0.035	1.40	1200	600	6	4.32
	40	0.035	1.10	1200	600	7	5.04
	30	0.035	0.85	1200	600	10	7.20
	25	0.035	0.70	1200	600	12	8.64
RS140	100	0.035	2.85	1200	600	2	1.44
	75	0.035	2.10	1200	600	3	2.16
	50	0.035	1.40	1200	600	4	2.88
	40	0.035	1.10	1200	600	5	3.60
	30	0.035	0.85	1200	600	7	5.04

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