



May 2013

## Earthwool® Flexible Slab

### For multiple applications

#### Description

Earthwool Flexible Slab is a multi-purpose, flexible, non-combustible, rock mineral wool slab specifically designed for installation by friction fitting.

#### Application

Earthwool Flexible Slab is typically used for the thermal and acoustic insulation of a wide variety of constructions such as timber and metal stud partitions, timber frame walls and suspended timber floors.

#### Standards

Earthwool Flexible Slab is 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

Earthwool Flexible Slab has a thermal conductivity of 0.035 or 0.037W/mK.

##### Fire

Earthwool Flexible Slab is classified as Euroclass A1 to BS EN 13501-1.

#### Benefits

- Friction fits between studs, joists and rafters
- Provides excellent thermal and acoustic performance
- Multiple application solution

## Earthwool® Flexible Slab

### Durability

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

### Vapour resistivity

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

### Environmental

Earthwool Flexible Slab represents no known threat to the environment and has zero Ozone Depletion Potential and zero Global Warming Potential.

### Handling and storage

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

Knauf Insulation mineral wool products made with ECOSE® Technology benefit from a formaldehyde-free 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 – the colour is completely natural.

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> )
<b>Earthwool Flexible Slab</b>						
140	0.035	4.00	1200	600	3	2.16
140	0.037	3.75	1200	400	4	1.92
100	0.037	2.70	1200	600	5	3.60
100	0.037	2.70	1200	400	6	2.88
90	0.037	2.40	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
60	0.037	1.60	1200	400	10	4.80
50	0.037	1.35	1200	600	10	7.20
50	0.037	1.35	1200	400	12	5.76

*All dimensions are nominal*

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