



March 2010

Earthwool® Flexible Slab

For multiple applications

Description

A multi-purpose thermal and acoustic insulation slab specifically designed for installation by friction fitting.

Application

For general thermal and acoustic insulation, use in applications such as internal partitions, between timber and metal studs, rafters and floor joists.

Standards

Earthwool Flexible Slab is made from non-combustible, inorganic rock mineral wool, defined as mineral wool in BS 3533:1981, manufactured in accordance with BSI Quality Assurance Standard BS EN ISO 9001:2000 and Product Standard EN 13162.

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 ISO 13501-1.

Benefits

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

Earthwool® Flexible Slab

Durability

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

Vapour resistance - resistivity

Earthwool Flexible Slab offers negligible resistance to the passage of water vapour and has a vapour resistivity of 7.00MN/g.m.

Environmental

Earthwool Flexible Slab is free from CFCs, HCFCs and any other material with ozone depletion potential in its manufacture and content and represents no known threat to the environment. **Earthwool Flexible Slab's manufacture has a low impact on the environment and is classified as Zero ODP and Zero GWP.**

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.

Thickness (mm)	Thermal conductivity (W/mK)	Thermal resistance (m ² K/W)	Length (mm)	Width (mm)	Slabs per pack	Area per pack (m ²)
140	0.035	4.00	1200	600	3	2.16
100	0.037	2.70	1200	600	5	3.60
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
50	0.037	1.35	1200	600	10	7.20

All dimensions are nominal

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.

Knauf Insulation Ltd

PO Box 10
Stafford Road
St Helens
Merseyside
WA10 3NS

Customer Service (sales)

Tel: 0844 800 0135

Technical Advisory Centre

Tel: 01744 766 666

Literature

Tel: 08700 668 660

www.knaufinsulation.co.uk