



October 2011

## Earthwool® Universal Slabs

For floors, walls and roofs

### Description

Earthwool Universal Slabs are a range of semi-rigid to rigid, non-combustible, glass mineral wool slabs.

### Application

Earthwool Universal Slabs are general purpose slabs for thermal and acoustic insulation slabs suitable for use in a wide range of applications.

### Standards

Earthwool Universal Slabs are manufactured in accordance with BS EN 13162:2008, EN 16001:2009 Energy Management Systems, OHSAS 18001:2007 Occupational Health and Safety Management Systems, ISO 14001:2004 Environmental Management Systems, and ISO 9001:2008 Quality Management Systems, as certified by Bureau Veritas.

### Performance

#### Thermal

Earthwool Universal Slabs are available in a range of thermal conductivities from 0.032 to 0.035W/mK.

#### Fire

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

#### Acoustics

Earthwool Universal Slabs have excellent sound absorption characteristics.

### Benefits

- Wide range of densities available to suit individual system requirements
- Provides thermal, acoustic and fire performance
- Other dimensions and facings are available subject to enquiry

## Earthwool® Universal Slabs

### Durability

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

### Vapour resistance - resistivity

Earthwool Universal Slabs offer negligible resistance to the passage of water vapour and have a vapour resistivity of 7.00 MN.s.g.m.

### Environmental

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

### Handling and storage

Earthwool Universal Slabs are easy to handle and install, being lightweight and easily cut to size, where necessary. They are 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. Installation instructions are on every pack. Earthwool Universal Slabs should not be left permanently exposed to the elements.

Thickness (mm)	Thermal conductivity (W/mK)	Thermal resistance (m <sup>2</sup> K/W)	Length (m)	Width (mm)	Area per pack (m <sup>2</sup> )	Slabs per pack
<b>CS32</b>						
100	0.034	2.90	1200	600	4.32	6
50	0.034	1.45	1200	600	8.64	12
25	0.034	0.70	1200	600	17.28	24
<b>CS48</b>						
75	0.032	2.30	1200	600	4.32	6
50	0.032	1.55	1200	600	5.76	8

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.

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