



May 2009

Universal Slabs

For floors, walls and roofs

Description

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

Application

Universal Slabs are general purpose slabs for thermal and acoustic insulation, and are used in a wide range of applications.

Standards

Universal Slabs are non-combustible glass mineral wool, defined as mineral wool in BS 3533: 1981 and are manufactured in accordance with BSI Quality Assurance Standard BS EN ISO 9001: 2000, and Product Standard EN 13162.

Durability

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.

Performance

Thermal

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

Fire

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

Acoustics

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

with **ECOSE**[®]
TECHNOLOGY



Universal Slabs

Vapour resistance - resistivity

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

Environmental

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 Slab's manufacture has a low impact on the environment and is classified as Zero ODP and Zero GWP.**

Handling and storage

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. Universal 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.

Thickness (mm)	Thermal conductivity (W/mK)	Thermal resistance (m ² K/W)	Length (m)	Width (mm)	Area per pack (m ²)	Slabs per pack
CS24						
100	0.035	2.85	1200	600	5.76	8
75	0.035	2.10	1200	600	7.20	10
50	0.035	1.40	1200	600	11.52	16
CS32						
100	0.034	2.90	1200	600	4.32	6
75	0.034	2.20	1200	600	5.76	8
50	0.034	1.45	1200	600	7.92	11
40	0.034	1.15	1200	600	10.80	15
25	0.034	0.70	1200	600	18.00	25
CS48						
75	0.032	2.30	1200	600	4.32	6
50	0.032	1.55	1200	600	5.76	8
40	0.032	1.25	1200	600	7.20	10
25	0.032	0.75	1200	600	10.80	15

All dimensions are nominal

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