

EARTHWOOL® BUILDING SLAB

August 2019



APPLICATION



DESCRIPTION

Earthwool® Building slab is a range of rigid and semi-rigid, resilient, non-combustible rock mineral wool slabs, available in 60 to 100kg/m³ densities, bonded with ECOSE® Technology, a revolutionary binder based on rapidly renewable materials instead of petro-based chemicals. Earthwool® Building slab is used for a wide range of thermal and acoustic insulation applications in buildings.

PERFORMANCE

Thermal

The thermal conductivity of Earthwool® Building slab varies with density from 0.037 to 0.038W/mK.

Fire

Earthwool® Building slab is classified as Euroclass A1 to BS EN 13501-1.

Moisture Resistance

Earthwool® Building slab are non-wicking when tested to BS 2972:1989:Section 12.

Water Vapour Absorption

Water vapour resistivity

Earthwool® Building slab offers negligible resistance to the passage of water vapour and has a water vapour resistivity of 5.00MN_s/g.m.

BENEFITS

- ✓ Range of densities and thicknesses
- ✓ Non-combustible
- ✓ Excellent thermal and acoustic properties.

CERTIFICATION



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ADDITIONAL INFORMATION

Specification Guide

The insulation shall be Earthwool® Building slab *kg/m³, *mm thick, AS/NZS 4859.1:2002 compliant. The product will be non-combustible, CFC/HCF free, zero ODP and with ECOSE® Technology. It will be manufactured under Quality Assurance Standards ISO 9001:2008 and ISO 14001:2004 by Knauf Insulation and shall be installed in accordance with the instructions issued by them.

*architect to insert details of products used.

Standards

Earthwool® Building slab is manufactured in accordance with BS EN 13162, EN16001 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.

Durability

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

Fire Performance

Earthwool® Building slab is 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 slab is non-wicking when tested to BS 2972:1989:Section 12. When exposed to 90% relative humidity at 20°C, Earthwool® Building slab absorb less than 0.004% of moisture.

Vapour Resistivity

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

Environmental

Earthwool® Building slab represents no known threat to the environment and have zero Ozone Depletion Potential and zero Global Warming Potential.

Handling and Storage

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

Superior Service and Support

- Knauf Insulation is totally focused on providing first class customer service, producing high quality product and 'on time in full' deliveries.
- Knauf Insulation supports a professional network of distributors and re-sellers in order to service a growing insulation market.
- Knauf Insulation is committed to providing a comprehensive range of relevant sales and marketing literature and web-based technical information to support specifiers and customers.

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SPECIFICATIONS

Range	R-Value (m ² K/W)	Density (kg/m ³)	Thickness (mm)	Length (mm)	Width (mm)
RS60	1.6	60	60	1200	600
RS60	2.0	60	75	1200	600
RS100	1.3	100	50	1200	600
RS100	2.0	100	75	1200	600
RS100	2.7	100	100	1200	600



Earthwool® products made with ECOSE® Technology benefit from a no added formaldehyde binder, which is less energy intensive than traditional binders and is based on rapidly renewable, bio-based materials instead of petro-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. Earthwool® products made with ECOSE® Technology contain no added dyes or artificial colours.

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