

EARTHWOOL BUILDING SLABS

March 2018



with **ECOSE** TECHNOLOGY

APPLICATIONS



DESCRIPTION

Earthwool Building Slabs are a range of rigid and semi-rigid, resilient, non-combustible Rock Mineral Wool slabs, available in densities ranging from 45kg/m³ to 140kg/m³. The standard products are supplied unfaced, but can also be manufactured with a factory applied foil or tissue facing. They are also available in a water repellent grade.

PERFORMANCE

Thermal

Thermal conductivity: 0.035 W/mK and 0.034 W/mK

Fire

Classification: EUROCLASS A1 to BS EN 13501-1

Vapour resistivity

Water vapour resistivity: 5.00MN/g.m

BENEFITS

- ✓ Wide range of densities
- ✓ Non-combustible
- ✓ Excellent thermal and acoustic properties

ADDITIONAL INFORMATION

Durability

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

Application

Earthwool Building Slabs are used for a wide range of thermal and acoustic insulation applications in buildings.

Standards

Earthwool Building Slabs are manufactured in accordance with BS EN 13162, ISO 50001 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.

Environmental

Earthwool Building Slabs represent no known threat to the environment and have zero Ozone Depletion Potential and zero Global Warming Potential.

CERTIFICATION



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ADDITIONAL INFORMATION

Vapour resistivity

Earthwool Building Slabs offer negligible resistance to the passage of water vapour and have a water vapour resistivity of 5.00MN_s/g.m.

Moisture resistance

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

Handling and storage

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



Knauf Insulation mineral wool products made with ECOSE Technology® benefit from a no added formaldehyde 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.

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SPECIFICATIONS

| Thickness (mm) | Thermal conductivity (W/mK) | Thermal resistance (m ² K/W) | Length (mm) | Width (mm) | Pieces per pack | Area per pack (m ²) | Packs per pallet |
|-------------------|-----------------------------|---|-------------|------------|-----------------|---------------------------------|------------------|
| RS45 | | | | | | | |
| 150 | 0.035 | 4.25 | 1200 | 600 | 3 | 2.16 | 12 |
| 100 | 0.035 | 2.85 | 1200 | 600 | 5 | 3.60 | 12 |
| 75 | 0.035 | 2.10 | 1200 | 600 | 6 | 4.32 | 12 |
| 60 | 0.035 | 1.70 | 1200 | 600 | 8 | 5.76 | 12 |
| 50 | 0.035 | 1.40 | 1200 | 600 | 10 | 7.20 | 12 |
| 40 | 0.035 | 1.10 | 1200 | 600 | 12 | 8.64 | 12 |
| 30 | 0.035 | 0.85 | 1200 | 600 | 16 | 11.52 | 12 |
| 25 | 0.035 | 0.70 | 1200 | 600 | 20 | 14.40 | 12 |
| RS60 | | | | | | | |
| 100 | 0.034 | 2.90 | 1200 | 600 | 4 | 2.88 | 12 |
| 75 | 0.034 | 2.20 | 1200 | 600 | 6 | 4.32 | 12 |
| 60 | 0.034 | 1.75 | 1200 | 600 | 7 | 5.04 | 12 |
| 50 | 0.034 | 1.45 | 1200 | 600 | 9 | 6.48 | 12 |
| 40 | 0.034 | 1.15 | 1200 | 600 | 12 | 8.64 | 12 |
| 25 | 0.034 | 0.70 | 1200 | 600 | 18 | 12.96 | 12 |
| RS80 | | | | | | | |
| 100 | 0.034 | 2.90 | 1200 | 600 | 3 | 2.16 | 16 |
| 75 | 0.034 | 2.20 | 1200 | 600 | 4 | 2.88 | 16 |
| 50 | 0.034 | 1.45 | 1200 | 600 | 6 | 4.32 | 16 |
| RS100 | | | | | | | |
| 100 | 0.034 | 2.90 | 1200 | 600 | 3 | 2.16 | 16 |
| 75 | 0.034 | 2.20 | 1200 | 600 | 4 | 2.88 | 16 |
| 50 | 0.034 | 1.45 | 1200 | 600 | 6 | 4.32 | 16 |
| 40 | 0.034 | 1.15 | 1200 | 600 | 7 | 5.04 | 16 |
| 30 | 0.034 | 0.85 | 1200 | 600 | 10 | 7.20 | 16 |
| 25 | 0.034 | 0.70 | 1200 | 600 | 12 | 8.64 | 16 |
| RS100 WTF1 | | | | | | | |
| 30 | 0.034 | 0.85 | 1200 | 600 | 10 | 7.20 | 16 |
| RS140 | | | | | | | |
| 100 | 0.034 | 2.90 | 1200 | 600 | 2 | 1.44 | 12 |
| 75 | 0.034 | 2.20 | 1200 | 600 | 3 | 2.16 | 10 |
| 50 | 0.034 | 1.45 | 1200 | 600 | 4 | 2.88 | 12 |
| 40 | 0.034 | 1.15 | 1200 | 600 | 5 | 3.60 | 12 |
| 30 | 0.034 | 0.85 | 1200 | 600 | 7 | 5.04 | 10 |

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