



March 2010

Earthwool® Duct Slab Plus

For ducts

Description

Earthwool Duct Slab Plus is a strong, rigid slab of non-combustible, glass mineral wool with a bright class 'O' reinforced aluminium foil facing on one side.

Thickness (mm)	Thermal conductivity (W/mK)	Thermal resistance (m ² K/W)	Nominal density (kg/m ³)	Length (m)	Width (mm)	Area per pack (m ²)	Slabs per pack
Earthwool Duct Slab Plus							
50	0.030	1.65	48	1.20	600	5.76	8
40	0.030	1.30	48	1.20	600	6.48	10
25	0.030	0.80	48	1.20	600	10.08	16

All dimensions are nominal

Performance

Thermal

Earthwool Duct Slab Plus has a thermal conductivity of 0.030 W/mK at 10°C

Acoustic

Earthwool Duct Slab Plus has excellent sound absorption characteristics

Benefits

- Excellent thermal, acoustic and fire performance
- Easy to handle and install
- The facings provide a bright, washable surface and a high level of vapour resistance

Earthwool® Duct Slab Plus

Application

Earthwool Duct Slab Plus is used for the thermal and acoustic insulation of square and rectangular ductwork in heating, ventilating and air-conditioning systems, cold water storage systems, expansion tanks and a wide variety of equipment operating at temperatures up to 230°C. In combination with suitable cladding, it provides an excellent basis for reducing noise breakout from ductwork.

Standards

The glass mineral wool content of Earthwool Duct Slab Plus is non-combustible inorganic glass wool, defined as mineral wool in BS 3533: 1981 and is manufactured in accordance with BSI Quality Assurance Standard BS EN ISO 9001: 2000.

Operating temperatures

Earthwool Duct Slab Plus can be used up to continuous operating temperatures of 230°C and down to cryogenic temperatures provided that a 100% vapour barrier is maintained. The surface temperature of the facing should not exceed 80°C.

Durability

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

Vapour resistance

Earthwool Duct Slab Plus is faced with a bright class 'O' aluminium foil facing, which acts as a vapour control layer.

Fire performance

The glass mineral wool content of Earthwool Duct Slab Plus is non-combustible to BS 476: Part 4: 1970 (1984) and Class 1 surface spread of flame to BS 476: Part 7: 1997. The glass mineral wool and the foil facing comply with the Class 'O' requirements of the Building Regulations when tested to BS 476: Part 6: 1989 and Part 7: 1997.

Environmental

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

Handling and storage

Earthwool Duct Slab Plus is easy to handle and install, being lightweight and easily cut to size, where necessary. Earthwool Duct Slab Plus 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 Duct Slab Plus 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.

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