



March 2010

## Earthwool® Duct Roll

### For ducts

#### Description

Earthwool Duct Roll is a strong, flexible roll of non-combustible, glass mineral wool with a bright class 'O' aluminium foil facing on one side.

#### Application

Earthwool Duct Roll is used for the thermal and acoustic insulation of ductwork in heating, ventilating and airconditioning systems and is suitable for all shapes of ductwork including:

- Circular
- Oval and flat-oval ductwork

Thickness (mm)	Thermal conductivity (W/mK)	Thermal resistance (m <sup>2</sup> K/W)	Nominal density (kg/m <sup>3</sup> )	Length (m)	Width (mm)	Area per pack (m <sup>2</sup> )
<b>Earthwool Duct Roll</b>						
50	0.033	1.50	28	9.00	1200	10.80
40	0.033	1.20	28	12.00	1200	14.40
25	0.033	0.75	28	18.00	1200	21.60

All dimensions are nominal

### Performance

#### Thermal

Earthwool Duct Roll has a thermal conductivity of 0.033W/mK at 10°C.

#### Acoustic

Earthwool Duct Roll 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 Roll

### Standards

The glass mineral wool content of Earthwool Duct Roll is non-combustible inorganic glass mineral 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 Roll 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 Roll 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 Roll 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 Roll 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 Roll 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 Roll's manufacture has a low impact on the environment and is classified as Zero ODP and Zero GWP.**

### Handling and storage

Earthwool Duct Roll is easy to handle and install, being lightweight and easily cut to size, where necessary. Earthwool Duct Roll 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. Installation instructions are on every pack. Earthwool Duct Roll 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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