



March 2010

## Earthwool® CarbonZero Loft Roll 44

### For lofts

#### Description

Earthwool CarbonZero Loft Roll is a flexible low density glass mineral wool quilt which is lightweight, flexible, resilient and non-combustible. The rolls are 1140mm wide and partially perforated to produce either 2 rolls 570mm wide or 3 rolls 380mm wide.

Thickness (mm)	Thermal conductivity (W/mK)	Thermal resistance (m <sup>2</sup> K/W)	Length (m)	Width (mm)	Area per pack (m <sup>2</sup> )
200	0.044	4.50	5.20	1140 (2x570/3x380)	5.93
170	0.044	3.85	7.03	1140 (2x570/3x380)	8.01
150	0.044	3.40	8.05	1140 (2x570/3x380)	9.18
100	0.044	2.25	12.18	1140 (2x570/3x380)	13.89

All dimensions are nominal

#### Performance

##### Thermal

Earthwool CarbonZero Loft Roll 44 has a thermal conductivity of 0.044W/mK.

##### Fire

Earthwool CarbonZero Loft Roll 44 is classified as Euroclass A1 to BS EN ISO 13501-1.

#### Benefits

- Lightweight and economic insulation quilt
- Produced for use with timber joists at 400mm and 600mm centres
- Partially cut perforations
- Provides thermal, acoustic and fire performance
- Manufacturing emissions offset by financial support for carbon reduction initiatives



## Earthwool® CarbonZero Loft Roll 44

### Application

Earthwool CarbonZero Loft Roll 44 is primarily used for the thermal insulation of pitched roofs at ceiling level. However, it can also be used to thermally insulate floors and partitions, or wherever a lightweight mineral wool quilt is required. When used to insulate at ceiling level it is usually laid in two layers, with the first layer between the joists and the second layer over, and at right angles to the joists.

### Standards

Earthwool CarbonZero Loft Roll 44 is non-combustible 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, and Product Standard EN 13162.

### Durability

Earthwool CarbonZero Loft Roll 44 is odourless, rot proof, non-hygroscopic, does not sustain vermin and will not encourage the growth of fungi, mould or bacteria.

### Vapour resistance - resistivity

Earthwool CarbonZero Loft Roll 44 offers negligible resistance to the passage of water vapour and has a vapour resistivity of 7.00 MNs/g.m.

### Environmental

Earthwool CarbonZero Loft Roll 44 is a "carbon neutral" loft insulation product. To offset the carbon emitted during manufacture, financial support is provided for carbon reduction initiatives such as renewable energy and re-forestation. Earthwool CarbonZero Loft Roll 44 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 CarbonZero Loft Roll 44's manufacture has a low impact on the environment and is classified as Zero ODP and Zero GWP.**

### Handling and storage

Earthwool CarbonZero Loft Roll 44 is easy to handle and install, being lightweight and easily cut to size, where necessary. It is supplied in polythene packs which is designed for short term protection only. For longer term protection on site, the product should be stored either indoors, or under cover and off the ground. Installation instructions are on every pack. Earthwool CarbonZero Loft Roll 44 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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For more information please visit  
**[www.knaufinsulation.co.uk](http://www.knaufinsulation.co.uk)**