



October 2011

Earthwool® Rafter Roll

For pitched roofs at rafter level

Description

Earthwool Rafter Roll is a semi-rigid roll of glass mineral wool with extra high thermal performance, designed for friction fitting between rafters.

Application

Earthwool Rafter Roll is designed for insulating between the rafters of pitched roofs in new build and existing buildings. It is easy to cut and friction fit between rafters. Earthwool Rafter Roll can be used either as a single or double layer between rafters, or as the first layer of a two layer system in combination with Polyfoam Linerboard.

Standards

Earthwool Rafter Roll is manufactured in accordance with BS EN 13162:2008, EN 16001:2009 Energy Management Systems, OHSAS 18001:2007 Occupational Health and Safety Management Systems, ISO 14001:2004 Environmental Management Systems, and ISO 9001:2008 Quality Management Systems, as certified by Bureau Veritas.

Performance

Thermal

Earthwool Rafter Roll has a thermal conductivity of 0.036 or 0.032W/mK.

Fire

Earthwool Rafter Roll is classified as Euroclass A1 to BS EN ISO 13501-1.

Acoustics

Earthwool Rafter Roll has excellent sound absorption characteristics.

Benefits

- Very high thermal performance
- Provides thermal and acoustic performance
- Quick and easy installation
- Friction fitting allows rafter spacing to be completely filled, thus eliminating air gap
- Long roll lengths

Earthwool® Rafter Roll

Durability

Earthwool Rafter Roll 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 Rafter Roll offers negligible resistance to the passage of water vapour and has a vapour resistivity of 7.00MN/g.m.

Environmental

Earthwool Rafter 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 Rafter Roll's manufacture has a low impact on the environment and is classified as Zero ODP and Zero GWP.**

Handling and storage

Earthwool Rafter Roll is easy to handle and install, being lightweight and easily cut to size, where necessary. It 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 Rafter Roll should not be left permanently exposed to the elements.

Thickness (mm)	Thermal conductivity (W/mK)	Thermal resistance (m ² K/W)	Length (m)	Width (mm)	Area per pack (m ²)
200	0.036	5.55	3.30	1200	3.96
175	0.036	4.85	3.80	1200	4.56
140	0.032	4.35	2.80	1200	3.36
125	0.032	3.90	3.20	1200	3.84
100	0.032	3.10	4.00	1200	4.80
85	0.032	2.65	4.60	1200	5.52
75	0.032	2.30	5.25	1200	6.30
50	0.032	1.55	7.90	1200	9.48

All dimensions are nominal

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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