



October 2011

Earthwool® Acoustic Roll

For timber joist floors, plasterboard partitions and timber separating walls and floors

Description

Earthwool Acoustic Roll is a flexible glass mineral wool quilt which is lightweight, flexible, resilient and non-combustible. The rolls are 1200mm wide and ready cut to produce 3 rolls 400mm wide or 2 rolls 600mm wide and manufactured to a minimum density of 10Kg/m³.

Application

Earthwool Acoustic Roll is specifically designed for friction fitting between members at 400mm and 600mm centres to improve the sound insulation of:

- separating walls
- separating floors
- internal floors
- timber and metal stud partitions

Earthwool Acoustic Roll is specifically designed for friction fitting between resilient timber battens and timber studs in robust detail separating floors and walls and

Performance

Acoustic

Earthwool Acoustic Roll has exceptional acoustic absorption properties.

Fire

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

Benefits

- Excellent sound absorption properties
- Lightweight, and easy to install
- Dimensioned to suit studs and joists at 400mm or 600mm centres
- Long roll lengths for quick and economic installation
- Friction fits between studs, ensuring continuity of the absorbent layer with no air gaps

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between timber and metal studs in lightweight plasterboard partitions. Earthwool Acoustic Roll provides a high level of sound absorption, whilst also improving the thermal and fire performance of the floor or partition.

Using mineral wool as a sound absorbent layer in partitions and floors significantly improves their acoustic performance, whilst only adding minimally to the overall mass of the structure. In partitions glass mineral wool complements the plasterboard by absorbing airborne sound in the cavity and reducing reverberation, it is particularly effective at preventing the hollow sound that can occur in partitions with unfilled cavities.

Standards

Earthwool Acoustic 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.

Durability

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

Environmental

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

Handling and storage

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

| Thickness (mm) | Length (m) | Width (mm) | Area per pack (m ²) |
|-------------------|---------------|---------------|------------------------------------|
| 100 | 9.17 | 2 x 600 | 11.00 |
| 100 | 9.17 | 3 x 400 | 11.00 |
| 75 | 12.50 | 2 x 600 | 15.00 |
| 50 | 13.00 | 2 x 600 | 15.60 |
| 25 | 10.00 | 4 x 600 | 24.00 |

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.

Knauf Insulation Ltd

PO Box 10
 Stafford Road
 St Helens
 Merseyside
 WA10 3NS

Customer Service (sales)

Tel: 0844 800 0135

Technical Advisory Centre

Tel: 01744 766 666

Literature

Tel: 08700 668 660

www.knaufinsulation.co.uk