



April 2011

Earthwool® FrameTherm Rolls and Slabs

For timber frames

Description

Earthwool FrameTherm Rolls and Slabs are resilient non-combustible glass mineral wool, supplied at 570mm wide to suit commonly used timber stud centres.

| Thickness (mm) | Thermal conductivity (W/mK) | Thermal resistance (m ² K/W) | Length (m) | Width (mm) | Area per pack (m ²) |
|-------------------------------------|--------------------------------|--|---------------|---------------|------------------------------------|
| Earthwool FrameTherm Roll 40 | | | | | |
| 140 | 0.040 | 3.50 | 5.95 | 2x570 | 6.78 |
| 90 | 0.040 | 2.25 | 9.60 | 2x570 | 10.94 |
| Earthwool FrameTherm Roll 35 | | | | | |
| 140 | 0.035 | 4.00 | 3.90 | 2x570 | 4.45 |
| 90 | 0.035 | 2.55 | 6.00 | 2x570 | 6.84 |
| Earthwool FrameTherm Roll 32 | | | | | |
| 140 | 0.032 | 4.35 | 2.80 | 2x570 | 3.19 |
| 90 | 0.032 | 2.80 | 4.50 | 2x570 | 5.13 |

All dimensions are nominal

Performance

Thermal

Earthwool FrameTherm Rolls and Slabs are produced in a range of five thermal conductivities from 0.032 to 0.040W/mK.

Fire

Earthwool FrameTherm Rolls and Slabs are classified as Euroclass A1 to BS EN ISO 13501-1.

Acoustics

Earthwool FrameTherm Rolls and Slabs have excellent sound absorption characteristics.

Benefits

- Range of thermal performances
- Sized to friction fit between studs at 600mm centres
- Easy to handle and install with no gaps between adjacent rolls or slabs

Earthwool® FrameTherm Rolls and Slabs

Application

Earthwool FrameTherm Rolls and Slabs are for the thermal insulation of external walls and warm roofs in timber frame construction, they are friction fitted between studs and rafters. Earthwool FrameTherm Rolls and Slabs can also be used for acoustic insulation in timber framed separating walls.

Standards

Earthwool FrameTherm Rolls and Slabs are non-combustible glass mineral wool, defined as mineral wool in BS 3533: 1981 and are manufactured in accordance with BSI Quality Assurance Standard BS EN ISO 9001: 2000, and Product Standard EN 13162.

Durability

Earthwool FrameTherm Rolls and Slabs are odourless, rot proof, non-hygroscopic, do not sustain vermin and will not encourage the growth of fungi, mould or bacteria.

Vapour resistance - resistivity

Earthwool FrameTherm Rolls and Slabs offer negligible resistance to the passage of water vapour and have a vapour resistivity of 7.00 MNs/g.m.

Environmental

Earthwool FrameTherm Rolls and Slabs are free from CFCs, HCFCs and any other material with ozone depletion potential in their manufacture and content and represent no known threat to the environment. **Earthwool FrameTherm Rolls and Slabs's manufacture has a low impact on the environment and is classified as Zero ODP and Zero GWP.**

Handling and storage

Earthwool FrameTherm Rolls and Slabs are easy to handle and install, being lightweight and easily cut to size, where necessary. Both are 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 FrameTherm Rolls and Slabs should not be left permanently exposed to the elements.

| Thickness (mm) | Thermal conductivity (W/mK) | Thermal resistance (m ² K/W) | Length (mm) | Width (mm) | Area per pack (m ²) | Slabs per pack |
|-------------------------------------|--------------------------------|--|----------------|---------------|------------------------------------|----------------|
| Earthwool FrameTherm Slab 38 | | | | | | |
| 140 | 0.038 | 3.65 | 1170 | 570 | 5.34 | 8 |
| 90 | 0.038 | 2.35 | 1170 | 570 | 8.00 | 12 |
| Earthwool FrameTherm Slab 35 | | | | | | |
| 140 | 0.035 | 4.00 | 1170 | 570 | 4.00 | 6 |
| 90 | 0.035 | 2.55 | 1170 | 570 | 5.34 | 8 |
| Earthwool FrameTherm Slab 32 | | | | | | |
| 140 | 0.032 | 4.35 | 1170 | 570 | 2.67 | 4 |
| 90 | 0.032 | 2.80 | 1170 | 570 | 4.00 | 6 |

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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