



January 2017

Earthwool® OmniFit Stud

For multiple applications

Description

Earthwool OmniFit Stud is a multi-purpose, flexible, non-combustible, glass mineral wool roll, and is specifically designed for installation by friction fitting.

Application

Earthwool OmniFit Stud is typically used for the thermal and acoustic insulation of a variety of constructions such as timber frame walls, light steel and metal frame walls and between rafters.

Standards

Earthwool OmniFit Stud is manufactured in accordance with BS EN 13162, ISO 50001 Energy Management Systems, OHSAS 18001 Occupational Health and Safety Management Systems, ISO 14001 Environmental Management Systems, and ISO 9001 Quality Management Systems, as certified by Bureau Veritas.

Performance

Thermal

Earthwool OmniFit Stud has a thermal conductivity of 0.034W/mK.

Fire

Earthwool OmniFit Stud is classified as Euroclass A1 to BS EN 13501-1.

Acoustic

Earthwool OmniFit Stud has exceptional acoustic absorption properties and is manufactured with a minimum density of 18kg/m³ for compliance with relevant sound insulation regulations.

Benefits

- Manufactured at 1200mm wide to allow cutting to suit studs, joists and rafters at a variety of centres
- Friction fits between studs, joists and rafters
- Provides excellent thermal and acoustic performance

Earthwool® OmniFit Stud

Durability

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

Vapour resistivity

Earthwool OmniFit Stud offers negligible resistance to the passage of water vapour and has a water vapour resistivity of 5.00MNs/g.m. An Environmental Product Declaration (EPD) is available for Earthwool OmniFit Stud.

Environmental

Earthwool OmniFit Stud represents no known threat to the environment and has zero Ozone Depletion Potential and zero Global Warming Potential.

Handling and storage

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

| Thickness | Thermal conductivity | Thermal resistance | Length | Width | Rolls per pack | Area per pack |
|-----------|----------------------|----------------------|--------|-------|----------------|-------------------|
| (mm) | (W/mK) | (m ² K/W) | (mm) | (mm) | | (m ²) |
| 220 | 0.034 | 6.45 | 2500 | 1200 | 1 | 3.00 |
| 180 | 0.034 | 5.25 | 3000 | 1200 | 1 | 3.60 |
| 150 | 0.034 | 4.40 | 3500 | 1200 | 1 | 4.20 |
| 140 | 0.034 | 4.10 | 4200 | 1200 | 1 | 5.04 |
| 100 | 0.034 | 2.90 | 5200 | 1200 | 1 | 6.24 |

All dimensions are nominal

Knauf Insulation mineral wool products made with ECOSE® Technology benefit from a no added formaldehyde binder, which is up to 70% less energy intensive than traditional binders and is made from rapidly renewable bio-based materials instead of petroleum-based chemicals. 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.

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