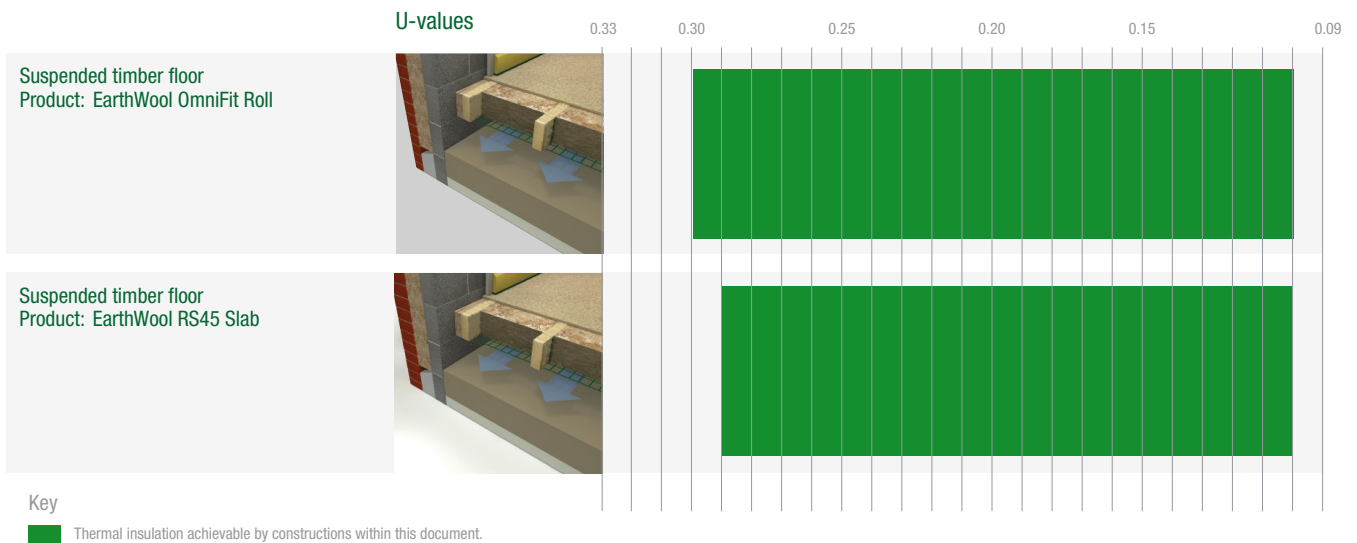


Ground floors

Suspended timber floor



EarthWool OmniFit Roll or EarthWool RS45 Slab



Ground Floor Refurbishment

In retrofit suspended and ventilated timber ground floor construction, the insulation is friction fitted between the joists and supported on polypropylene insulation netting. The netting can be stapled to the underside of the floor joists to support the insulation.

The insulation should be installed ensuring there are no air gaps between the insulation and the sides of the floor joist and also the underside of the floor deck. If the insulation needs cutting to widths of the joists, use a knife to ensure a clean and straight cut.

If the insulation is the full depth of the floor joists, staple the support netting to the underside of the first joist and unroll the netting, stapling to the underside of each joist as the netting is unrolled.

Where the joist is deeper than the insulation, staple the insulation support netting along the bottom of the insulation on the inside of the joist. Pull taut to the adjacent joist and staple again. Repeat the process until there is insulation netting support to the whole floor.

Suitable products for friction fitting between floor joists are:

EarthWool OmniFit Roll, EarthWool RS45 Slab

Ground floors

Suspended timber floor



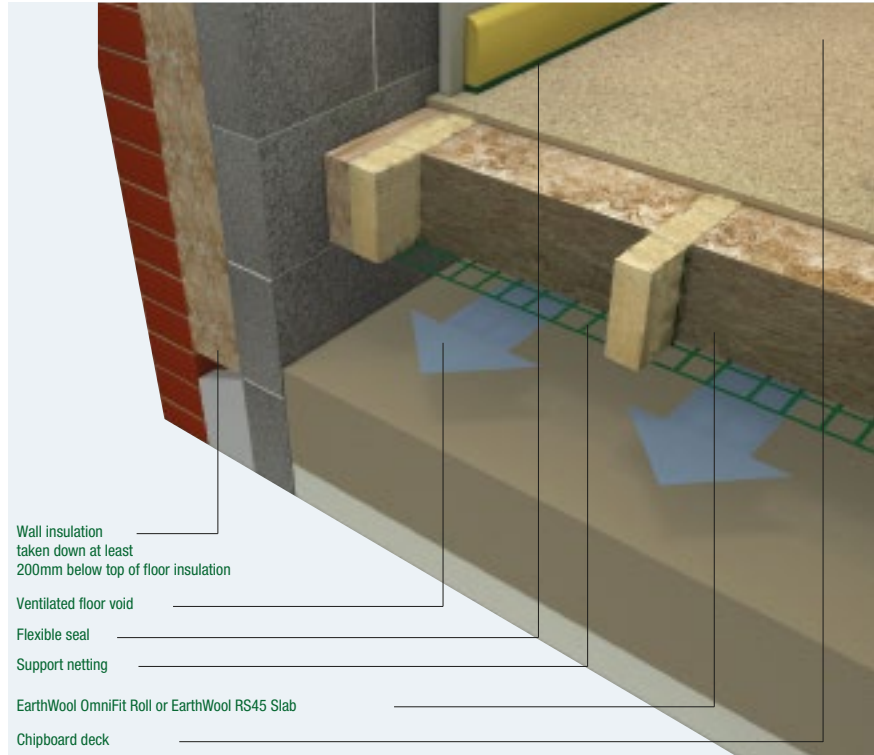
EarthWool OmniFit Roll or EarthWool RS45 Slab



- Friction fitting between timber joists closes joints, preventing air movement and infiltration
- Flexible products which accommodates movements in floor ensuring all joints remain closed

EarthWool OmniFit Roll and EarthWool RS45 Slab

- Non-combustible with a Euroclass A1 reaction to fire rating
- A+ Generic BRE Green Guide Rating
- Zero Ozone Depletion Potential (ODP)
- Zero Global Warming Potential (GWP)



Products

EarthWool OmniFit Roll are made from glass mineral wool and formed into rolls which are lightweight, flexible, resilient and non-combustible.

EarthWool RS45 Slab is a multi-use, flexible, rock mineral wool slab designed for friction-fitting in a range of acoustic, thermal and fire resistant applications.

Typical construction

A suspended and ventilated timber ground floor. The insulation is placed between the joists and supported on polypropylene netting.

The netting should be positioned to support the insulation so that there is no gap between the insulation and the underside of the floor deck.

The floor joists running parallel with masonry walls should be spaced at least 35mm away from the wall to allow insulation to be placed next to the wall.

The wall insulation should start a minimum of 200mm below the top of the floor insulation to minimise thermal bridging.

Installation

If the insulation is the full depth of the floor joists, staple the support netting to the underside of the first joist and unroll the netting, stapling to the underside (or side) of each joist as the netting is unrolled.

Where the joist is deeper than the floor insulation, mark the depth of the insulation on the side of the joists. Staple the support netting along this line and pull taut to the adjacent joist and staple again. Pull the netting over the top of the joist and staple to the depth of the floor insulation. Repeat the process until there is netting support to the whole floor.

Install EarthWool OmniFit Roll ensuring there are no air gaps between the insulation and the underside of the floor deck.

Fix the chipboard floor deck in the usual way, using waterproof PVA glue at the joints, and allow a minimum 10mm gap at the room perimeter. If in doubt refer to the chipboard manufacturers instructions.

When fixing the skirting board, apply a self-adhesive foam strip to the underside of the skirting and two beads of sealant to the back surface. Apply pressure to ensure the foam strip is compressed immediately before fixing the skirting in place.

Performance

Thermal performance - EarthWool OmniFit Roll has a thermal conductivity of 0.35W/m²K

EarthWool RS45 Roll has a thermal conductivity of 0.35W/m²K

Fire performance EarthWool OmniFit Roll and EarthWool RS45 Slab are classified as Euroclass A1 to BS EN 13501-1.