



March 2010

Earthwool® SteelTherm Roll 40

For steel frame walls

Description

Earthwool SteelTherm Roll 40 consists of a resilient, non-combustible glass mineral wool roll, which is manufactured in 600mm widths and specifically designed for friction fitting between standard steel frame sections.

Thickness (mm)	Thermal conductivity (W/mK)	Thermal resistance (m ² K/W)	Length (m)	Width (mm)	Area per pack (m ²)
140	0.040	3.50	5.95	2x600	7.14
90	0.040	2.25	9.60	2x600	11.52

All dimensions are nominal

Performance

Thermal

Earthwool SteelTherm Roll 40 has a thermal conductivity of 0.040W/mK.

Fire

Earthwool SteelTherm Roll 40 is classified as Euroclass A1 to BS EN ISO 13501-1.

Acoustics

Earthwool SteelTherm Roll 40 has excellent sound absorption characteristics.

Benefits

- Sized to friction fit between studs at 600mm centres
- Easy to handle and install with no gaps between adjacent rolls
- Designed specifically for steel frame construction

Earthwool® SteelTherm Roll 40

Application

Earthwool SteelTherm Roll 40 is designed for the thermal insulation of external walls in steel frame construction. Earthwool SteelTherm Roll 40 is friction fitted between studs and is 600mm wide to suit commonly used stud centres.

Standards

Earthwool SteelTherm Roll 40 is non-combustible glass mineral wool, defined as mineral wool in BS 3533: 1981 and is manufactured in accordance with BSI Quality Assurance Standard BS EN ISO 9001: 2000, and Product Standard EN 13162.

Durability

Earthwool SteelTherm Roll 40 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 SteelTherm Roll 40 offers negligible resistance to the passage of water vapour and has a vapour resistivity of 7.00MN/g.m.

Environmental

Earthwool SteelTherm Roll 40 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 SteelTherm Roll 40 has a low impact on the environment and is classified as Zero ODP and Zero GWP.**

Handling and storage

Earthwool SteelTherm Roll 40 is easy to handle and install, being lightweight and easily cut to size, where necessary. Earthwool SteelTherm Roll 40 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 SteelTherm Roll 40 should not be left permanently exposed to the elements.

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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