



February 2013

Earthwool MetStud Roll 34

Description

Earthwool MetStud Roll 34 is a high density, non-combustible glass mineral wool roll providing a high level of thermal and acoustic performance. Earthwool MetStud Roll 34 is made with ECOSE Technology, a formaldehyde-free binder derived from rapidly renewable materials instead of traditional petro-based chemicals used in other insulation products.

Application

Earthwool MetStud Roll 34 is used for the thermal and acoustic insulation of external framed walls and warm roof constructions and is specifically designed for friction-fitting between metal and timber studs and timber rafters.

Standards

Earthwool MetStud Roll 34 glass mineral wool, defined as mineral wool in BS 3533 and manufactured in accordance with BS EN 13162, EN 16001 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 MetStud Roll 34 has a thermal conductivity of 0.034W/mK

Fire

Earthwool MetStud Roll 34 is classified as Euroclass A1 to BS EN 13501-1

Acoustic

Earthwool MetStud Roll 34 has excellent sound absorption characteristics

Benefits

- Sized to friction fit between metal and timber studs and timber rafters
- Exceptionally high tear strength
- Lightweight and easy to handle and install with no gaps between adjacent rolls
- Durable packaging for storage and transportation

Earthwool® MetStud Roll 34

Durability

Earthwool MetStud Roll 34 is rot proof, does not sustain vermin and will not encourage the growth of fungi, mould or bacteria, it is odourless and non-hygroscopic.

Vapour resistivity

Earthwool MetStud Roll 34 has negligible resistance to the passage of water vapour and has a water vapour resistivity of 5.00MN/gm.

Environmental

Earthwool MetStud Roll 34 represents no known threat to the environment and has zero Ozone Depletion Potential and zero Global Warming Potential. Earthwool MetStud Roll 34 is manufactured using recycled glass.

Handling and storage

Earthwool MetStud Roll 34 is easy to handle and install, being lightweight and easily cut to size, where necessary. Earthwool MetStud Roll 34 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 inside, or under cover and off the ground. Earthwool MetStud Roll 34 should not be left permanently exposed to the elements.

Product Data

Thickness	Thermal conductivity	Thermal resistance	Length	Width	Area per roll	No. rolls in pallet
(mm)	(W/mK)	(m ² K/W)	(m)	(mm)	(m ²)	
220	0.034	6.45	2.50	1200	3.00	24
180	0.034	5.25	3.00	1200	3.60	24
150	0.034	4.40	3.50	1200	4.20	24
150	0.034	4.40	3.50	3 x 400	4.20	24
130	0.034	3.80	4.00	1200	4.80	24
100	0.034	2.90	5.20	1200	6.24	24
90	0.034	2.65	5.80	1200	6.96	24
50	0.034	1.45	10.50	1200	12.60	24
25	0.034	0.70	10.50	2 x 1200	25.20	24

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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