



May 2013

Earthwool® FactoryClad Rolls

For metal clad roofs and walls

Description

Earthwool FactoryClad Rolls are flexible, lightweight rolls of resilient, non-combustible glass mineral wool with exceptionally high tear strength.

Application

Earthwool FactoryClad Rolls are used for the thermal and acoustic insulation of roofs and walls in profiled metal clad buildings and portable buildings. With a Euroclass A1 fire classification, their use can potentially reduce insurance premiums compared to foam composite panels. Earthwool FactoryClad Rolls are manufactured 1200mm wide to suit commonly used rail and bracket systems and in long lengths, making them particularly suitable for use in twin skin profiled metal cladding systems and standing seam roofs.

Standards

Earthwool FactoryClad Rolls are 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 FactoryClad Rolls are produced in three different thermal conductivities of 0.032, 0.037 and 0.040W/mK.

Fire

Earthwool FactoryClad Rolls are classified as Euroclass A1 to BS EN 13501-1

Benefits

- A+ Generic BRE Green Guide rating
- Exceptionally high tear strength
- Provides thermal and acoustic performance
- Cost effective
- Lightweight, easy to handle and install

Earthwool® FactoryClad Rolls

Durability

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

Vapour resistivity

Earthwool FactoryClad Rolls offer negligible resistance to the passage of water vapour and have a water vapour resistivity of 5.00 MNs/g.m.

Environmental

Earthwool FactoryClad Rolls represent no known threat to the environment and have zero Ozone Depletion Potential and zero Global Warming Potential.

Handling and storage

Earthwool FactoryClad Rolls are easy to handle and install, being lightweight and easily cut to size, where necessary. They are supplied in polythene packs which are designed for short term protection only. For longer term protection on site, the products should be stored either indoors, or under cover and off the ground. Earthwool FactoryClad Rolls should not be left permanently exposed to the elements.

Knauf Insulation mineral wool products made with ECOSE® Technology benefit from a formaldehyde-free 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 – the colour is completely natural.

Thickness (mm)	Thermal conductivity (W/mK)	Thermal resistance (m ² K/W)	Length (m)	Width (mm)	Area per roll (m ²)
Earthwool FactoryClad Roll 40					
220	0.040	5.50	4.35	1200	5.22
200	0.040	5.00	4.85	1200	5.82
180	0.040	4.50	6.26	1200	7.51
160	0.040	4.00	7.05	1200	8.46
140	0.040	3.50	8.02	1200	9.62
120	0.040	3.00	9.40	1200	11.28
100	0.040	2.50	11.25	1200	13.50
80	0.040	2.00	14.10	1200	16.92
Earthwool FactoryClad Roll 37					
180	0.037	4.85	4.77	1200	5.72
100	0.037	2.70	8.59	1200	10.31
Earthwool FactoryClad Roll 32					
100	0.032	3.10	4.00	1200	4.80
90	0.032	2.80	4.40	1200	5.28
80	0.032	2.50	5.00	1200	6.00

All dimensions are nominal

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