



March 2010

Earthwool® FactoryClad Rolls

For metal clad roofs and walls

Description

Earthwool FactoryClad is a flexible, lightweight roll of resilient, non-combustible glass mineral wool with exceptionally high tear strength. It is produced in a range of four different thermal conductivities.

Application

Earthwool FactoryClad is 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, its use can potentially reduce insurance premiums compared to foam composite panels. Earthwool FactoryClad is manufactured 1200mm wide to suit commonly used rail and bracket systems and in long lengths, making it particularly suitable for use in twin skin profiled metal cladding systems and standing seam roofs.

Standards

Earthwool FactoryClad 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.

Performance

Thermal

Earthwool FactoryClad is produced in four different thermal conductivities, from 0.032 to 0.040W/mK.

Fire

Earthwool FactoryClad is classified as Euroclass A1 to BS EN ISO 13501-1

Benefits

- Exceptionally high tear strength
- Provides thermal and acoustic performance
- Cost effective
- Easy to install
- Lightweight and easy to handle

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Durability

Earthwool FactoryClad 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 FactoryClad offers negligible resistance to the passage of water vapour and has a vapour resistivity of 7.00 MNs/g.m.

Environmental

Earthwool FactoryClad 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 FactoryClad's manufacture has a low impact on the environment and is classified as Zero ODP and Zero GWP.**

Handling and storage

Earthwool FactoryClad is easy to handle and install, being lightweight and easily cut to size, where necessary. It is supplied in polythene packs which is designed for short term protection only. For longer term protection on site, the product should be stored either indoors, or under cover and off the ground. Installation instructions are on every pack. Earthwool FactoryClad 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.

Thickness (mm)	Thermal conductivity (W/mK)	Thermal resistance (m ² K/W)	Length (m)	Width (mm)	Area per roll (m ²)
Earthwool FactoryClad 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 37					
180	0.037	4.85	4.77	1200	5.72
160	0.037	4.30	5.37	1200	6.44
120	0.037	3.20	7.15	1200	8.58
100	0.037	2.70	8.59	1200	10.31
Earthwool FactoryClad 35					
140	0.035	4.00	4.30	1200	5.16
120	0.035	3.40	5.00	1200	6.00
100	0.035	2.85	6.00	1200	7.20
90	0.035	2.55	6.68	1200	8.02
Earthwool FactoryClad 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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