



September 2014

Earthwool OmniFit Acoustic partition slabs and rolls

Description

Earthwool OmniFit Acoustic partition slabs and rolls are rigid or semi-rigid slabs and rolls of non-combustible glass mineral wool. They are available in both 400mm and 600mm widths, and 50mm and 75mm thicknesses to suit standard wall spacings.

Earthwool OmniFit Acoustic partition slabs and rolls are bonded with ECOSE® Technology, a revolutionary binder based on rapidly renewable materials instead of petro-based chemicals. ECOSE Technology reduces binder embodied energy and contains no added phenol, formaldehyde, acrylics or artificial colours.

Application

Earthwool OmniFit Acoustic slabs and rolls provide a cost-effective thermal and acoustic barrier for energy-efficient construction. The consistent quality, low dust and clean-cutting resilient fibres make fabrication easy and installation fast.

Earthwool OmniFit Acoustic partition slabs and rolls are in the same class as rock mineral wool products for acoustic performance with the added benefit of costing less. See our website for more details.

Performance

Thermal Conductivity

ASTM C 518.

Thermal Resistance

ASTM C 653.

Technical Data

Specification Compliance

- TÜV-SÜD Certified to EN13501-1 in compliance with the BCA of Singapore.

Water Vapour Absorption (ASTM C 1104)

- Less than 5% by weight.

Corrosion Resistance (ASTM C 665)

- No greater than sterile cotton.

Microbial Growth (ASTM C 1338)

- Does not support microbial growth.

Fire Resistance (EN 13501-1)

- Non-combustible.



the feel good insulation
earthwool



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Bio-solubility

The formulation used for Earthwool OmniFit insulation has been independently assessed to meet the requirements of the stringent Note Q international standard.

Features and Benefits

Proven Performance

- Preferred by professional installers concerned with quality, appearance and productivity.
- Excellent acoustical properties reduce sound transmission.

Durability

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

Superior Handling

- Highly resilient insulation recovers quickly to full thickness for a snug fit and superior finished aesthetics.
- Consistent quality materials feel good, cut easily and install fast.
- Low dust for easier handling and increased productivity.

Convenient Packaging, Easier Handling

- Earthwool OmniFit insulation is packaged in a strong, white poly bag that offers excellent protection from abuse, dust and moisture.
- Earthwool OmniFit insulation packages feature easy to follow installation instructions.
- MasterBag insulation units (containing multiple packs) ensure reduced handling costs with improved compression – more square metres per bag, more square metres per truck load, fewer trips to the job site and less warehouse space for storage.

Superior Service and Support

- Knauf Insulation is totally focused on providing first class customer service, producing high quality product and 'on time in full' deliveries.
- Knauf Insulation supports a professional network of distributors and re-sellers in order to service a growing insulation market.
- Knauf Insulation is committed to providing a comprehensive range of relevant sales and marketing literature and web-based technical information to support specifiers and customers.

Knauf Insulation's Earthwool OmniFit products with ECOSE® Technology benefit from a formaldehyde-free binder based on rapidly renewable materials instead of petro-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. Earthwool OmniFit products made with ECOSE Technology contain no dye or artificial colours – the colour is completely natural.



For more information please visit
www.knaufinsulation.com.sg

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Acoustic Partition slab	Thickness (mm)	Length (m)	Width (mm)	Area per pack (m ²)	No. slabs per pack
	50	1.2	400	11.5	24
	50	1.2	600	14.4	20
	75	1.2	400	8.6	18
	75	1.2	600	13.0	18

Acoustic Partition roll	Thickness (mm)	Length (m)	Width (mm)	Area per pack (m ²)	No. Rolls per pack
	50	15	400	18	3
	50	15	600	18	2
	75	10	400	12	3
	75	10	600	12	2

Earthwool OmniFit v rock mineral wool

System				Insulation options			Sound reduction	Saving (%)
Plaster-board thickness (mm)	Number of layers	Stud size (mm)	Overall partition width (mm)	a) Rock mineral wool 40 kg/m ³ 50mm	b) Earthwool OmniFit 50mm	c) Earthwool OmniFit 75mm	STC rating	Approximate savings by using Earthwool OmniFit
12.5	1	50	75	✓	✓	–	42	– 35%
15	1	50	80	✓	✓	–	42	– 35%
12.5	2	50	100	✓	✓	–	50	– 35%
15	2	50	110	✓	✓	–	52	– 35%
12.5	1	75	100	✓	–	✓	44	– 25%
15	1	75	105	✓	–	✓	44	– 25%
12.5	2	75	125	✓	–	✓	52	– 25%
15	2	75	135	✓	–	✓	55	– 25%

Information

Email: info.sg@knaufinsulation.com

Technical Advisory Centre

Email: tech.sg@knaufinsulation.com

For more information please visit
www.knaufinsulation.com.sg