

Thermal and Acoustic Wall

Description

ecoinsulation® Thermal and Acoustic Wall insulation is designed for use in timber frame applications between studwork.

The ecoinsulation Thermal and Acoustic Wall range includes a selection of R-values to provide builders, designers, and installers the opportunity to choose the best thermal performance for their project.

ecoinsulation Thermal and Acoustic Wall insulation is made using:

- Up to 80% recycled glass.
- ECOSE® Technology - binder with no added formaldehyde.
- TwinTech® - dual forming technique for a smooth finish on both sides.
- DriTherm® Technology - silicone treated for improved moisture resistance.



Product Range

Product code	R-Value (m² K/W)	Lambda (W/mK)	Thickness (mm)	Width (mm)	Length (mm)	Area per pack (m²)	Pieces per pack
888522	2.2	0.041	90	580	1160	19.5	29
683707	2.4	0.037	90	570	1160	13.2	20
707756	2.6	0.035	90	430	1160	7.5	15
874216	2.6	0.035	90	570	1160	8.6	13
707751	2.8	0.032	90	430	1160	5.0	10
874532	2.8	0.032	90	570	1160	5.3	8
140mm High Performance							
874631	3.2	0.044	140	570	1160	9.9	15
683709	3.6	0.039	140	570	1160	9.9	15
874218	4.1	0.034	140	570	1160	5.3	8
874220	4.4	0.034	140	570	1160	3.3	5

All dimensions are nominal.

Technical Information

Thermal performance	AS/NZS4859.1 (2018)		
Fire Hazard Properties (AS/NZ 1530.3)	Ignitability: 0 Spread of Flame: 0 Heat Evolved: 0 Smoke Developed: 2-3		
MATERIAL PROPERTY	RESULT	REQUIREMENT PER ASTM C665-17	PASS/FAIL
Water Vapour Sorption (Mass %) (ASTM C1104)*	4	<5	Pass
Corrosiveness - Aluminium (rating scale 15-40) (ASTM C665)*	25	<21	Pass
Corrosiveness - Copper (rating scale 15-40) (ASTM C665)*	30	<21	Pass
Corrosiveness - Steel (ASTM C1617)*	1 ppm	<5 ppm	Pass
Fungi Resistance (ASTM C1338)*	No growth	Growth < Comparative	Pass
Water Vapour Absorption	Less than 5% by weight when tested for 96 hours at 120°F (49°C) and 95% humidity.		
Microbial Growth	Does not support microbial growth		

*Test samples were 8kg/m³ and 32kg/m³ unfaced Knauf Insulation glasswool, with ECOSE binder.



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Specification Compliance

AS/NZS 4859.1 (2018) Materials used in the Thermal Insulation of Buildings and comply with the New Zealand Building Code requirements: B2 – Durability, E3 –External Moisture, F2 – Hazardous Building Materials, and H1 – Energy Efficiency.

ecoinsulation® Thermal and Acoustic Wall range is an acceptable solution in terms of the New Zealand Building Code. This product is designed for use in timber and metal frame applications in new and existing domestic and commercial buildings.

Bio-solubility

The formulation used for **eco**insulation glasswool insulation has been independently assessed to meet the requirements of the stringent Note Q standard (and is therefore consistent with the highest Australian and New Zealand industry standards), and also assessed by Knauf Insulation against NZ Work-Safe requirements. **eco**insulation glasswool is classified as a non-hazardous substance in line with the NOHSC: 1008 3rd Edition.

Environmental

ecoinsulation glasswool represents no known threat to the environment and comes with GreenTag Level A certification, and Declare Red List Free label. **eco**insulation glasswool has low VOC and benefits from ECOSE® Technology.

Features and Benefits

Proven Performance

- Preferred by professional installers concerned with quality, appearance and productivity.
- Excellent acoustical properties reduce sound transmission in the home when properly installed in walls, ceiling and floor systems.

Installation Guidance

It is important to install insulation in accordance with NZ 4246:2016 (bulk thermal insulation - installation) and Knauf Insulation's instructions when installing wall insulation.

Durability

- **eco**insulation glasswool insulation is odourless, rot proof, non-hygroscopic, does not sustain vermin and will not encourage the growth of fungi, mould or bacteria.
- DriTherm® Technology - silicone treated for increased durability.

Superior Handling

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

Convenient Packaging, Easier Handling

- **eco**insulation glasswool is packaged in a strong, white poly bag that offers excellent protection from abuse, dust and moisture.
- **eco**insulation glasswool 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

- We are focused on providing first class customer service, producing high quality products and 'in full on time' deliveries.
- We are committed to providing a comprehensive range of relevant sales and marketing literature and web-based technical information to support specifiers and customers.

Corrosion Testing

Corrosion testing evaluates whether a material's chemical composition could cause corrosion. Knauf Insulation's glasswool products have been independently tested and demonstrate that they are non-corrosive ensuring reliable performance.

ecoinsulation
energy and installation

 www.ecoinsulation.co.nz

 products@ecoin insulation.co.nz

 **0800 400 326**

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