

## KNAUF INSULATION ACOUSTIC

November 2021



### APPLICATION



### DESCRIPTION

The Knauf Insulation acoustic batt range includes a selection of densities to provide builders, designers, installers and DIYers the opportunity to choose the best acoustic performance for their project. Knauf Insulation acoustic batt will improve the acoustic performance of the building in which it has been installed by absorbing the transfer of unwanted sound from external sources and between adjoining rooms.

The super-soft and easy to handle benefits of Knauf Insulation glasswool have been further enhanced with TwinTech®. TwinTech® heralds another advancement in insulation manufacture - the dual forming technique ensures there is a smooth finish on both sides of the insulation, which improves product handling and appearance. Knauf Insulation glasswool is made using up to 80% recycled glass and with ECOSE® Technology, a sustainable, bio-based binder that contains no added formaldehyde.



Enhanced moisture resistance with DriTherm® technology. Knauf Insulation glasswool is silicone treated, which provides moisture resistance for up to 50 years.

## PERFORMANCE

<b>Thermal</b>	AS/NZS 4859.1 (2018).
<b>Fire Hazard Properties (AS/NZ 1530.3)</b>	Ignitability: 0, Spread of Flame: 0, Heat Evolved: 0, Smoke Developed: 0-1.
<b>Water Vapour Absorption</b>	Less than 5% by weight.
<b>Microbial Growth</b>	Does not support microbial growth.
<b>Corrosion Resistance</b>	No greater than sterile cotton.
<b>Combustibility (AS 1530.1)</b>	Non-combustible.

## BENEFITS

- ✓ DriTherm® technology - silicone treated glasswool for increased durability
- ✓ TwinTech® - smooth finish on both sides
- ✓ High thermal performance - year round comfort
- ✓ Sound absorbing
- ✓ Non-combustible
- ✓ Saves energy - lower energy bills
- ✓ No added formaldehyde
- ✓ Soft to handle and install
- ✓ 50 year warranty
- ✓ Compression packed - more product per pack
- ✓ Odourless.

## CERTIFICATION



**Declare.**

challenge.  
create.  
care.

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### SPECIFICATIONS

#### TIMBER FRAME PARTITION WALLS

Product Code	R-Value (m <sup>2</sup> K/W)	Thermal Conductivity (W/mK)	Density (kg/m <sup>3</sup> )	Thickness (mm)	Width (mm)	Length (mm)	Area per pack (m <sup>2</sup> )	Pieces per Pack
683649	1.4*	0.036	14.0	50	580	1160	25.6	38
683650	2.0*	0.038	14.0	75	580	1160	16.2	24
683655	2.6	0.035	20.1	90	430	1160	7.0	14
683656	2.6	0.035	20.1	90	580	1160	9.4	14
683646	2.8	0.032	30.7	90	430	1160	5.0	10
683647	2.8	0.032	30.7	90	580	1160	6.7	10
683641	3.6	0.039	13.4	140	580	1160	10.1	15
691267	4.1	0.035	22.6	140	580	1160	6.1	9

All densities and dimensions are nominal. \*Estimated R-value.

#### STEEL FRAME PARTITION WALLS

Product Code	Est. R-Value (m <sup>2</sup> K/W)	Thermal Conductivity (W/mK)	Density (kg/m <sup>3</sup> )	Thickness (mm)	Width (mm)	Length (mm)	Area per pack (m <sup>2</sup> )	Pieces per Pack
683669	1.3	0.039	11.0	50	600	2700*	32.4	20
683670	1.9	0.040	11.0	75	600	2700*	22.7	14

All densities and dimensions are nominal. \*Folded segments.

#### MID-FLOOR

Product Code	R-Value (m <sup>2</sup> K/W)	Thermal Conductivity (W/mK)	Density (kg/m <sup>3</sup> )	Thickness (mm)	Width (mm)	Length (mm)	Area per pack (m <sup>2</sup> )	Pieces per Pack
683655	2.6	0.035	20.1	90	430	1160	7.0	14
683656	2.6	0.035	20.1	90	580	1160	9.4	14

All densities and dimensions are nominal.

#### SUSPENDED CEILING GRID

Product Code	Est. R-Value (m <sup>2</sup> K/W)	Thermal Conductivity (W/mK)	Density (kg/m <sup>3</sup> )	Thickness (mm)	Width (mm)	Length (mm)	Area per pack (m <sup>2</sup> )	Pieces per Pack
683669	1.3	0.039	11.0	50	600	2700*	32.4	20
683670	1.9	0.040	11.0	75	600	2700*	22.7	14

All densities and dimensions are nominal. \*Folded segments.

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### ADDITIONAL INFORMATION

#### Specification Guide

The acoustic insulation shall be Knauf Insulation acoustic batt \*kg/m<sup>3</sup>, \*mm thick, BRANZ appraised to meet the provisions of the NZBC. The product will be non-combustible, Red List Free as labelled by Declare, Global GreenTag Level A certified, glasswool insulation with high post-consumer recycled glass content and with ECOSE® Technology. It will be manufactured under Quality Assurance Standards ISO 9001:2008 and ISO 14001:2004 by Knauf Insulation and shall be installed in accordance with the instructions issued by them.

\*architect to insert details of products used.

#### Light Commercial Applications

Knauf Insulation acoustic batt is available in a range of thicknesses. Knauf Insulation acoustic batt can improve Rw ratings in wood stud construction by 3 to 5 points and in metal stud construction by 8 to 10 points, depending on the complexity of the wall configuration and the thickness/density. Knauf Insulation acoustic batt can be used for exterior and interior walls, floors, crawlspaces and a variety of ceiling applications. Consider the product is covered by a certificate of equivalence from Marshal Day, meaning it can be easily used in a wide range of systems that call for glasswool products.

#### Specification Compliance

AS/NZS 4859.1: 2018 Materials used in the Thermal Insulation of Buildings and comply with the Building Code of Australia (BCA) requirements: B2 - Durability, E3 - External Moisture, F2 - Hazardous Building Materials, and H1 - Energy Efficiency. The Knauf Insulation: acoustic batt 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 Knauf 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. Knauf Insulation glasswool is classified as a non-hazardous substance in line with the NOHSC: 1008 3rd Edition.

#### Environmental

Knauf Insulation acoustic batt represents no known threat to the environment and comes with GreenTag Level A certification, Declare label and a certified Environmental Product Declaration. Knauf Insulation glasswool has low VOC and benefits from ECOSE® Technology.

#### Proven Performance

- Knauf Insulation glasswool is preferred by professional installers concerned with quality, appearance and productivity.
- Knauf Insulation glasswool has excellent acoustical properties reduce sound transmission in the home when properly installed in walls, ceiling and floor systems.

#### Durability

- Knauf Insulation glasswool 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 feel good, cut easily and install fast.
- Low dust for easier handling and increased productivity.

#### Convenient Packaging, Easier Handling

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

- Knauf Insulation is focused on providing first class customer service, producing high quality product and 'in full on time' deliveries.
- Knauf Insulation recognises the need to establish, develop and support 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 glasswool products made with ECOSE® Technology benefit from a no added formaldehyde binder, which is less energy intensive than traditional binders and is based on rapidly renewable, bio-based materials instead of petro-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. Knauf Insulation products made with ECOSE® Technology contain no added dyes or artificial colours.

#### Knauf Insulation Ltd

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