ecoinsulation glasswool

Building Product Information Sheet
Class 1

ecoinsulation® glasswool

Product description and its intended use:

ecoinsulation® glasswool is a mineral fibre type bulk insulation with DriTherm® Technology that complies with AS/NZS 4859.1:2018 and is supplied as batts or rolls with thickness between 45mm and 330mm, and nominal density between 8kg/m^3 and 32kg/m^3 with binder content no greater than 8%.

Products:

Ceiling

Product code	R-Value (m^2 K/W)	Lambda (W/mK)	Thickness (mm)	Width (mm)	Length (mm)	Area per pack (m^2)	Pieces per pack
Standard Ceiling							
812472	3.4	0.033	110	580	1160	4.7	7
686656	3.3	0.045	155	430	1160	10.5	21
683700	3.6	0.044	160	430	1160	10.0	20
Ceiling High Performance							
683702	4.2	0.043	180	430	1160	8.5	17
683703	5.2	0.040	210	430	1160	5.5	11
683704	6.3	0.044	275	430	1160	5.5	11
779548	7.0	0.047	330	460	1200	4.4	8
Skillion High Performance							
683706	3.2	0.033	105	430	1160	5.5	11
779681	5.0	0.033	165	430	1160	3.0	6
779685	6.0	0.036	215	430	1160	3.5	7
781977	7.4	0.036	265	430	1160	3.0	6

All dimensions are nominal.

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Wall

Product code	R-Value (m^2 K/W)	Lambda (W/mK)	Thickness (mm)	Width (mm)	Length (mm)	Area per pack (m^2)	Pieces per pack
779905	1.3	0.035	45	450	1160	12.5	24
683713	2.2	0.041	90	580	1160	19.5	29
683707	2.4	0.037	90	570	1160	13.2	20
SoundShield							
707756	2.6	0.035	90	430	1160	7.5	15
707749	2.6	0.035	90	580	1160	9.4	14
683696	2.6	0.035	90	600	1160	9.7	14
707751	2.8	0.032	90	430	1160	5.0	10
707771	2.8	0.032	90	580	1160	6.7	10
140mm High Performance							
683708	3.2	0.044	140	580	1160	14.8	22
707768	4.1	0.034	140	580	1160	6.1	9
779909	4.4	0.032	140	580	1160	4.0	6

All dimensions are nominal.

Floor

Product code	R-Value (m^2 K/W)	Thermal conductivity (W/mK)	Thickness (mm)	Width (mm)	Length (mm)	Area per pack (m^2)	Pieces per pack
779907	3.0	0.035	105	420	1160	5.4	11

All dimensions are nominal.

Building code compliance:

Clause B2 DURABILITY: ecoinsulation® glasswool products will meet these requirements.

ecoinsulation® glasswool, if designed, used, installed and maintained in accordance with the statements and conditions set out in the supporting technical literature, will meet or contribute to meeting the Durability provisions of the NZBC (New Zealand Building Code). Where the building is maintained so that provisions of the NZBC E2 and E3 Clauses are met, and where the insulation is not crushed or exposed to conditions that will diminish its material specifications, ***eco***insulation® glasswool can expect to have a serviceable life of at least 50 years'.

Clause C/AS2 protection from fire:

ecoinsulation® glasswool products are non-combustible building materials, if designed, used, installed and maintained in accordance with the statements and conditions set out in the supporting technical literature, will meet or contribute to meeting protection from the C/AS2 fire clause of the NZBC. ***eco***insulation® glasswool products non-combustibility is supported by testing and compliance to AS1530.1 and BS EN 13501-1.

H1 Energy Efficiency Building Code Compliance:

ecoinsulation® glasswool products will contribute to meeting these requirements, if designed, used, installed and maintained in accordance with the statements and conditions set out in the supporting technical literature. ***eco***insulation® glasswool products offers a range of thicknesses, R-values and thermal conductivities that assist in meeting and exceeding the Building Code requirements. Thermal properties are confirmed by a range of C518 and AS/NZS 4859.1 testing, inline with the building codes acceptable solutions.

Clauses E2 External and E3 Internal Moisture:

ecoinsulation® glasswool products will contribute to meeting these requirements, if designed, used, installed, and maintained in accordance with the statements and conditions set out in the supporting technical literature.

ecoinsulation® glasswool products when incorporated in the building design will proved adequate thermal resistance to meet the building code requirements.

Limitations on the use of the building product:

Specification and incorporation of ***eco***insulation® glasswool products into the building design shall be carried out by a designer, architect, engineer, or building professional in accordance with NZS 4214:2006 Methods of Determining the Total Thermal Resistance of Parts of Buildings and NZS 4218:2009 Thermal Insulation – Housing and Small Buildings when incorporating ***eco***insulation® glasswool products to achieve the required building performance.

Installation shall be carried out by a person with knowledge of insulation installation and installed in accordance with NZS 4218:2009 Thermal insulation - Housing and small buildings or NZS 4246:2016 Energy efficiency – Installing bulk thermal insulation in residential buildings, and the relevant ***eco***insulation® glasswool installation instructions as specified below available at www.ecoinsulation.co.nz.

Installation shall be carried out only after the building is waterproof, and after the materials within the building have dried to a sufficient degree that moisture is not transported into the insulation material. In residential construction, installation shall also be carried out in accordance with NZS 4246:2016 Energy efficiency – Installing bulk thermal insulation in residential building.

Technical documentation to support the appropriate use of the building product:

Click here to view all technical documents as listed below.

ecoinsulation® glasswool thermal ceiling datasheet, ***eco***insulation® glasswool Thermal and AcosuticWall datasheet, ***eco***insulation® glasswool Faced Thermal Underfloor datasheet

Installation requirements:

Technical documentation and installation instructions to support the appropriate installation of the products.

Click here to view all technical documents as listed below.

ecoinsulation® glasswool R7.0 Ceiling Batts Installation Instructions,
ecoinsulation® glasswool Ceiling Batts Installation Instructions,
ecoinsulation® glasswool Wall Batts Installation Instructions,
ecoinsulation® glasswool R1.3 Wall Batts Installation Instructions,
ecoinsulation® glasswool Floorshield Thermal Underfloor Installation Instructions

Maintenance requirements:

Insulation that has become damp must be removed and the cause of dampness repaired. Cavities must be clean and dry before fitting new insulation of an equivalent thermal rating. NZS 4246 gives guidance on thermal insulation maintenance due to water damage.

ecoinsulation® glasswool with DriTherm® Technology may be dried and retrofitted into the dried cavity if the cause of dampness was a potable water leak.

This product is not subject to warning or ban under section 26 of the Building Act 2004.