

Knauf Insulation glasswool

Product description and its intended use:

Knauf Insulation glasswool is a mineral fibre type bulk insulation with DriTherm® Technology that complies with AS/NZS 4859.1:2018 and is supplied as batts with thickness between 45mm and 330mm, and nominal density between 11kg/m³ and 36kg/m³ with binder content no greater than 8%.

Products:

Ceiling

CEILING SEGMENTS

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
860144	3.6	0.047	170	430	1160	9.0	18
860138	4.2	0.050	210	430	1160	7.0	14
860132	5.2	0.044	230	430	1160	5.5	11
860128	7.0	0.047	330	460	1160	4.3	8

All dimensions are nominal.

SKILLION ROOF

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
860164	1.3	0.035	45	450	1160	12.5	24
860146	3.4 [^]	0.032	110	580	1160	4.7	7
860134	5	0.033	165	430	1160	3.0	6
860130	6	0.036	215	430	1160	3.0	6
860126	7.4	0.036	265	430	1160	3.0	6

All dimensions are nominal. [^]perimeter batt

Knauf Insulation Ltd

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Build on us.

Walls

45MM FRAME

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
860164	1.3	0.035	45	450	1160	12.5	24

All dimensions are nominal.

90MM FRAME

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
888520	2.2	0.041	90	580	1160	19.5	29
860160	2.4	0.037	90	580	1160	13.5	20
860158	2.6	0.035	90	430	1160	6.0	12
860156	2.6	0.035	90	580	1160	8.1	12
860152	2.8	0.032	90	430	1160	5.0	10
860150	2.8	0.032	90	580	1160	6.7	10

All dimensions are nominal.

140MM FRAME

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
860148	3.2	0.044	140	580	1160	14.8	22
860140	4.1	0.034	140	580	1160	6.1	9
860136	4.4	0.032	140	580	1160	4	6

All dimensions are nominal.

Acoustic segments

TIMBER FRAME PARTITION WALLS

Product Code	R-Value (m ² K/W)	Thermal Conductivity (W/mK)	Density (kg/m ³)	Thickness (mm)	Width (mm)	Length (mm)	Area per pack (m ²)	Pieces per pack
860158	2.6	0.035	20.1	90	430	1160	6.0	12
860156	2.6	0.035	20.1	90	580	1160	8.1	12
860152	2.8	0.032	30.7	90	430	1160	5.0	10
860150	2.8	0.032	30.7	90	580	1160	6.7	10
860140	4.1	0.034	22.6	140	580	1160	6.1	9
860136	4.4	0.032	36.0	140	580	1160	4.0	6

All dimensions are nominal.

STEEL FRAME PARTITION WALLS

Product Code	Est. R-Value (m ² K/W)	Est. Thermal Conductivity (W/mK)	Density (kg/m ³)	Thickness (mm)	Width (mm)	Length (mm)	Area per pack (m ²)	Pieces per pack
883477	1.3	0.038	11.0	50	600	2700*	16.2	10
882264	1.9	0.039	11.0	75	600	2700*	16.2	10

All dimensions are nominal. *folded segments

MID-FLOOR

Product Code	Est. R-Value (m ² K/W)	Est. Thermal Conductivity (W/mK)	Density (kg/m ³)	Thickness (mm)	Width (mm)	Length (mm)	Area per pack (m ²)	Pieces per pack
860158	2.6	0.035	20.1	90	430	1160	6.0	12
860152	2.8	0.032	30.7	90	430	1160	5.0	10

All dimensions are nominal.

SKILLION

Product Code	Est. R-Value (m ² K/W)	Est. Thermal Conductivity (W/mK)	Density (kg/m ³)	Thickness (mm)	Width (mm)	Length (mm)	Area per pack (m ²)	Pieces per pack
860146	3.4	0.032	30.7	110	580	1160	4.7	7
860134	5	0.033	29.0	165	430	1160	3.0	6
860130	6	0.036	17.5	215	430	1160	3.0	6
860126	7.4	0.036	18.0	265	430	1160	3.0	6

All dimensions are nominal.

Building code compliance

CLAUSE B2 DURABILITY: KNAUF INSULATION GLASSWOOL PRODUCTS WILL MEET THESE REQUIREMENTS.

Knauf Insulation 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, Knauf Insulation glasswool can expect to have a serviceable life.

CLAUSE C/AS2 PROTECTION FROM FIRE:

Knauf insulation 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. Knauf Insulation products non-combustibility is supported by testing and compliance to AS1530.1 and BS EN 13501-1.

H1 ENERGY EFFICIENCY BUILDING CODE COMPLIANCE:

Knauf Insulation 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. Knauf 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:

Knauf Insulation 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. Knauf Insulation glasswool products when incorporated in the building design will provide adequate thermal resistance to meet the building code requirements.

LIMITATIONS ON THE USE OF THE BUILDING PRODUCT:

Specification and incorporation of Knauf Insulation 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 Knauf Insulation 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 Knauf Insulation glasswool installation instructions as specified below available at www.knauf.com.

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.

DATASHEETS:

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

- [Knauf Insulation glasswool Ceiling/Skillion datasheet](#)
- [Knauf Insulation glasswool Wall datasheet](#)

INSTALLATION REQUIREMENTS:

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

- [Ceiling batts installation instructions](#)
- [Ceiling batts installation instructions \(R7.0\)](#)
- [Wall batts installation instructions](#)
- [Wall batts installation instructions \(R1.3\)](#)

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.

Knauf Insulation 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.