

Certificate no: CMNZ30095

Version: C

Original issue date: 06 September 2018

Version date: 15/01/2025

Renewal Date: 15/01/2028

1. Certificate Holder Details

Knauf Insulation Pty Ltd
23 Corporate Drive
Cannon Hill, QLD, 4170
Tel: +61 7 3393 7300
Email: tech.nz@knaufinsulation.com
Web: www.knaufinsulation.co.nz

2. Product Certification Body

Global-Mark Pty Ltd
Trading as Global-Mark
57 Willis Street, Wellington, 6011
customer.service@global-mark.co.nz
+64 9 889 0622
www.global-mark.co.nz

Complaints: The complaints process for this certificate can be found here:
www.global-mark.co.nz/complaints

Global-Mark Managing Director.



Herve Michoux



Product Certificate

Knauf Insulation

3. Description of Building Method or Product

Knauf Insulation 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 25 mm and 330 mm, and nominal density between 8 kg/m³ and 36 kg/m³ with binder content no greater than 8%.

4. Intended use of Building Method or Product

Non-combustible bulk thermal and acoustic insulation for residential and commercial construction within the following scope and NZS 4246:2016:

- Walls when installed in the cavities between framing members.
- Floors when installed in the cavities between flooring members.
- Roofs when installed over and between roof framing members.
- Ceilings when installed in the cavities between the ceiling members.

5. New Zealand Building Code Provisions

The System when designed, used, installed and maintained in accordance with NZS 4246:2016 and the conditions of this Certificate will comply with or contribute to compliance with the following performance provisions of the NZ Building Code:

Clause B2 DURABILITY :	Performance B2.3.1(a) not less than 50 years, and B2.3.2. Earthwool® glasswool insulation products will meet these requirements.
Clause C3 PROTECTION FROM FIRE:	Performance C3.7(a). Earthwool® glasswool insulation products are not combustible building materials and will contribute to meeting this requirement.
Clause E3 INTERNAL MOISTURE:	Performance E3.3.1. Earthwool® glasswool insulation products will contribute to meeting this requirement.
Clause F2 HAZARDOUS BUILDING MATERIALS:	Performance F2.3.1. Earthwool® glasswool insulation products do not present a health hazard to people.
Clause G6 AIRBORNE AND IMPACT SOUND:	Performance G6.3.1. Earthwool® glasswool insulation products will contribute to meeting the requirement of STC not less than 55.
Clause H1 ENERGY EFFICIENCY:	Performance H1.3.1(a) and H1.3.2E. Earthwool® glasswool insulation products will contribute to meeting these requirements.



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6. Conditions and Limitations of Use

1. 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.
2. Specification of Knauf Insulation products shall be in accordance with the following Knauf Insulation Product Datasheets, available at – www.knaufinsulation.co.nz/products :
 - Knauf Insulation: ClimAcoustic Ductwrap, Ref.: KINZ0416336DS [v0.3]
 - Knauf Insulation: Roof blanket, Ref.: KINZ0914115DS [v0.5]
 - Knauf Insulation: Ceiling / Skillion Roof, Ref.: KINZ10241487DS [v0.1]
 - Knauf Insulation: Acoustic, Ref.: KINZ0914116DS [v1.0]
 - Knauf Insulation: Wall, Ref.: KINZ10241487DS [v0.1]
 - Knauf Insulation Multi-Use Roll, Ref.: KINZ08241435
 - Earthwool® glasswool insulation: Ceiling / skillion roof, Ref.: KINZ1213029DS [v0.8]
 - Earthwool® glasswool insulation: Ceiling roll, Ref.: KINZ05211202DS [v0.6]
 - Earthwool® glasswool insulation: Wall, Ref.: KINZ0914114DS [v0.9]
 - Earthwool® glasswool insulation: Multi-use roll, Ref.: KINZ0616396DS [v0.6]
 - Earthwool® glasswool FloorShield Underfloor, Ref.: KINZ05211203DS [v0.4]
 - ecoinsulation: Thermal Ceiling and Skillion Roof insulation, Ref.: KINZ1118791DS [v0.6]
 - ecoinsulation: Thermal and Acoustic Wall insulation, Ref.: KINZ1118790DS [v0.7]
3. Installation shall be carried out by a competent bulk insulation installer 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 installation instructions as specified below and which are available at – www.knaufinsulation.co.nz/products – to meet the stated thermal performance rating of the insulation:
 - Installation Instructions – Knauf Insulation: Multi-Use Roll, Ref : KINZ08241439
 - Installation Instructions – Earthwool® glasswool Insulation: Ceiling Segments, Ref : KINZ1017631MIS
 - Installation Instructions – Earthwool® glasswool Insulation: Ceiling Rolls, Ref : KINZ1017632MIS
 - Installation Instructions – Earthwool® glasswool Insulation: FloorShield Underfloor Segments, Ref :KINZ1219983MIS
 - Installation Instructions – Earthwool® glasswool Insulation: R1.3 Wall Segments, Ref : KINZ11221277MIS
 - Installation Instructions – Earthwool® glasswool Insulation: Wall Segments, Ref : KINZ1017633MIS
 - Installation Instructions – Earthwool® glasswool Insulation: Ceiling R7.0 and R8.0, Ref.: KINZ1121276MIS
 - Installation Instructions – ecoinsulation glasswool: Thermal Wall R1.3, Ref.: EISL1121002MIS

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- Installation Instructions – ecoinsulation glasswool: Thermal and Acoustic Wall, Ref.: KINZ1218806MIS
 - Installation Instructions – ecoinsulation glasswool: Thermal Ceiling, Ref.: KINZ1218808MIS
 - Installation Instructions – ecoinsulation glasswool: Thermal Ceiling R7.0, Ref.: EISL10221000MIS
4. 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.
 5. In residential construction, installation shall also be carried out in accordance with NZS 4246:2016 Energy efficiency – Installing bulk thermal insulation in residential buildings
 6. Refer to Table 1 for a schedule of Knauf Insulation products covered by this certificate.

Table 1: Knauf Insulation Product Schedule

Knauf Insulation

Ceiling Segments

Product Code	R-value (m ² K/W)	Thickness (mm)	Density (kg/m ³)	Width (mm)	Length (mm)
860144	3.6	170	8.3	430	1160
860138	4.2	210	7.8	430	1160
860132	5.2	230	8.7	430	1160
860128	7.0	330	8.0	460	1160

Skillion Roof / Perimeter Batt

Product Code	R-value (m ² K/W)	Thickness (mm)	Density (kg/m ³)	Width (mm)	Length (mm)
860164	1.3	45	20.5	450	1160
860146	3.4	110	30.7	580	1160
860134	5.0	165	29.0	430	1160
860130	6.0	215	17.5	430	1160
860126	7.4	265	18.0	430	1160

External Wall – 45mm Frame

Product Code	R-value (m ² K/W)	Thickness (mm)	Density (kg/m ³)	Width (mm)	Length (mm)
860164	1.3	45	20.5	450	1160

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External Wall – 90mm Frame

Product Code	R-value (m ² K/W)	Thickness (mm)	Density (kg/m ³)	Width (mm)	Length (mm)
860162	2.2	90	10.8	580	1160
860160	2.4	90	14.6	580	1160
860158	2.6	90	20.1	430	1160
860156	2.6	90	20.1	580	1160
860152	2.8	90	30.7	430	1160
860150	2.8	90	30.7	580	1160

External Wall – 140mm Frame

Product Code	R-value (m ² K/W)	Thickness (mm)	Density (kg/m ³)	Width (mm)	Length (mm)
860148	3.2	140	9.3	580	1160
860140	4.1	140	22.6	580	1160
860136	4.4	140	36.0	580	1160

Multi-Use Roll

Product Code	R-value (m ² K/W)	Thickness (mm)	Density (kg/m ³)	Width (mm)	Length (mm)
807198	2.6	90	20.1	430	8500
807200	2.6	90	20.1	580	8500

Acoustic Batt

Product Code	R-value (m ² K/W)	Thickness (mm)	Density (kg/m ³)	Width (mm)	Length (mm)
860166	1.3	50	11.0	600	2700
860168	1.9	75	11.0	600	2700

Roof Blanket

Product Code	R-value (m ² K/W)	Thickness (mm)	Density (kg/m ³)	Width (mm)	Length (mm)
683665	1.9	75	11.6	1200	23000
683666	2.4	100	10.2	1200	17500
683667	3.1	120	12.8	1200	14500

Earthwool® Glasswool

Wall Batt – 45mm Frame

Product Code	R-value (m ² K/W)	Thickness (mm)	Density (kg/m ³)	Width (mm)	Length (mm)
781975	1.3	45	20.5	450	1160



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Wall Batt – 90mm Frame

Product Code	R-value (m ² K/W)	Thickness (mm)	Density (kg/m ³)	Width (mm)	Length (mm)
683644	2.2	90	10.8	580	1160
683645	2.4	90	14.6	580	1160
683655	2.6	90	20.1	430	1160
683656	2.6	90	20.1	580	1160
683646	2.8	90	30.7	430	1160
683647	2.8	90	30.7	580	1160

Wall Batt – 140mm Frame

Product Code	R-value (m ² K/W)	Thickness (mm)	Density (kg/m ³)	Width (mm)	Length (mm)
683648	3.2	140	9.3	580	1160
691267	4.1	140	22.6	580	1160
779911	4.4	140	36.0	580	1160

Ceiling Batt

Product Code	R-value (m ² K/W)	Thickness (mm)	Density (kg/m ³)	Width (mm)	Length (mm)
683674	3.3	155	7.7	430	1160
812468	3.4	110	30.7	580	1160
731850	3.6	175	7.4	430	1160
731846	4.1	195	7.8	430	1160
683653	5.2	210	11.4	430	1160
779551	7.0	330	8.0	460	1200
779554	8.0	330	11.0	460	1200

Skillion Roof / Perimeter Batt

Product Code	R-value (m ² K/W)	Thickness (mm)	Density (kg/m ³)	Width (mm)	Length (mm)
812468	3.4	110	30.7	580	1160
683642	3.2	105	26.5	430	1160
779683	5.0	165	29.0	430	1160
781973	6.0	215	17.5	430	1160
781979	7.4	265	18.0	430	1160

Ceiling Roll

Product Code	R-value (m ² K/W)	Thickness (mm)	Density (kg/m ³)	Width (mm)	Length (mm)
690936	3.6	150	11.0	1200	7000

FloorShield Underfloor



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Product Code	R-value (m ² K/W)	Thickness (mm)	Density (kg/m ³)	Width (mm)	Length (mm)
764622	2.6	90	20.1	420	1160
824550	3.0	105	19.5	420	1160

Eco Insulation

Standard Ceiling

Product Code	R-value (m ² K/W)	Thickness (mm)	Density (kg/m ³)	Width (mm)	Length (mm)
683700	3.6	160	9.2	430	1160

Ceiling High Performance

Product Code	R-value (m ² K/W)	Thickness (mm)	Density (kg/m ³)	Width (mm)	Length (mm)
683702	4.2	180	10.1	430	1160
683703	5.2	210	11.4	430	1160
779548	7.0	330	8.0	460	1200

Skillion High Performance

Product Code	R-value (m ² K/W)	Thickness (mm)	Density (kg/m ³)	Width (mm)	Length (mm)
683706	3.2	105	26.5	430	1160
779681	5.0	165	29.0	430	1160
779685	6.0	215	17.5	430	1160
781977	7.4	265	18.0	430	1160

Perimeter Batt

Product Code	R-value (m ² K/W)	Thickness (mm)	Density (kg/m ³)	Width (mm)	Length (mm)
812472	3.4	110	30.7	580	1160

Wall Batt – 45mm Frame

Product Code	R-value (m ² K/W)	Thickness (mm)	Density (kg/m ³)	Width (mm)	Length (mm)
779905	1.3	45	20.5	450	1160

Wall Batt – 90mm Frame

Product Code	R-value (m ² K/W)	Thickness (mm)	Density (kg/m ³)	Width (mm)	Length (mm)
683713	2.2	90	10.8	580	1160
683707	2.4	90	14.6	580	1160



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707756	2.6	90	20.1	430	1160
707749	2.6	90	20.1	580	1160
707751	2.8	90	30.7	430	1160
707771	2.8	90	30.7	580	1160

Wall Batt – 140mm Frame

Product Code	R-value (m ² K/W)	Thickness (mm)	Density (kg/m ³)	Width (mm)	Length (mm)
683708	3.2	140	9.3	580	1160
707768	4.1	140	22.6	580	1160
779909	4.4	140	36.0	580	1160

7. Health and Safety Information

Standard industry safety practices and manufacturer safety requirements as detailed in the technical literature including the applicable SDS must be observed at all times.

Refer to Knauf Insulation Material Safety Data Sheet, Issue Date: October 2014 and NZS 4246:2016 Energy efficiency – Installing bulk thermal insulation in residential buildings.

8. Basis for Certification

The certification decision is based on independent technical review(s) of test report(s), engineering opinion(s) and other documented evidence(s), factory audit(s) and site review(s)

Code Clause	Compliance pathway	Evidence
B2 DURABILITY	Testing in accordance with AS/NZS 4859.1:2018 and assessment by registered testing laboratory.	Doc. Ref.: 4
C3 PROTECTION FROM FIRE	Testing in accordance with AS/NZS 1530.1 and assessments by registered testing laboratories and professional engineers.	Doc. Ref.: 1 to 3
E3 INTERNAL MOISTURE	Compliance with NZS 4214:2006, NZS 4218:2009 and NZS 4246:2016 and assessment by registered testing laboratory	Doc. Ref.: 4 and 14 to 16
F2 HAZARDOUS BUILDING MATERIALS	Evaluation for Material Safety Data Sheet and assessment by registered testing laboratory	Doc. Ref.: 4 and 17
G6 AIRBORNE AND IMPACT SOUND	Alternate solution based on expert judgement	Doc. Ref.: 11 and 12



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H1 ENERGY EFFICIENCY	Testing of product thermal conductivity and determination of element R-values in accordance with AS/NZS 4859.1:2018, specification in accordance with NZS 4214:2006 and NZS 4218:2009, installation in accordance with NZS 4246:2016, and assessment by registered testing laboratory.	Doc. Ref.: 5 to 10, 13 and 14
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9. Supporting Documentation for Certification

Rev	Author	Description	Date and/or Revision
1	Warrington Certifire	Product assessed against ATS00 / ATS11 to AS 1530.1 and approved for use as a non-combustible product	Certificate AC100.2 21/12/2022
2	Exova Warringtonfire	Test in accordance with AS 1530.1-1994 Methods for fire tests on building materials, components and structures – Part 1: Combustibility test for materials. Test specimen – Knauf Earthwool – R2.7, 90 mm thick, 24 kg/m ³ density. Result – NOT DEEMED COMBUSTIBLE.	EWFA Test Report No.: 56297900b.1 11/08/2018
3	Exova Warringtonfire	Test in accordance with AS 1530.1-1994 Methods for fire tests on building materials, components and structures – Part 1: Combustibility test for materials. Test specimen – Knauf Earthwool – R3.5, 175 mm thick, 9.5 kg/m ³ density. Result – NOT DEEMED COMBUSTIBLE.	EWFA Test Report No.: 56297900a.1 11/08/2018
4	BRANZ	New Zealand Building Code appraisal	Appraisal No. 648 [2022]
5	BRANZ	Thermal Testing of Earthwool Roof Blanket 75 mm, R1.8	Report Number DC12489- 015-01 20/04/2021
6	BRANZ	Thermal Testing of Eco Insulation Glasswool 155 mm, R3.3	Report Number DC12489- 030 9/12/2021



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7	Knauf Insulation	Thermal testing of: 860144 KI R3.5/R3.6 170x430x1160mm	Report number: 05112024-R3.5/R3.6 22 October 2024
8	Knauf Insulation	Thermal testing of: 860132 KI R5.0/5.2 230x430x1160mm UF 11(05)	Report number: 13112024 R5.0/R5.2 8 November 2024
9	Knauf Insulation	Thermal testing of: 812472 EI R3.4 110x0580x01160mm 07(05)	Report number: 18012024-812472 11 September 2023
10	Knauf Insulation	Knauf Insulation Product Data Set – Excel file	Ref.: JB R-Value Compliance Sheet – Final Version GM v6 2/10/2024
11	Marshall Day Acoustics	INSUL Materials Editor – Knauf Key No. 1715	v8.0.10 23/03/2018
12	Marshall Day Acoustics	Assessment report Ref: Rp 002 20170139 – Knauf Insulation Cavity Infill Substitution	6/09/2019
13	Standards New Zealand	AS/NZS 4859.1:2018 Thermal insulation materials for buildings – Part 1: General criteria and technical provisions	2018
14	Standards New Zealand	NZS 4214:2006 Methods of Determining the Total Thermal Resistance of Parts of Buildings	2006
15	Standards New Zealand	NZS 4246:2016 Energy efficiency – Installing bulk thermal insulation in residential buildings	2016
16	Standards New Zealand	NZS 4218:2009 Thermal Insulation – Housing and Small Buildings	2009
17	Knauf Insulation	Material Safety Data Sheet: Glass Mineral Wool with ECOSE® Technology	October 2014



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* These documents were provided commercial in confidence and are not publicly available

10. Supporting Information About Description (Optional)

Nil

11. Supporting Information About Intended Use (Optional)

Nil

12. Supporting Information About Conditions and Limitations of Use (Optional)

Nil

All CodeMark certificates that are current must be registered with MBIE. MBIE maintains a register of valid product certificates. [Please find the register here.](#)

If the certificate is not listed on this register or it appears as (SUSPENDED), it is not a valid CodeMark certificate and does not have to be accepted by a building consent authority as establishing compliance with the New Zealand Building Code.



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