



# PRODUCT CERTIFICATE

## ecoinsulation glasswool




### KEY INFORMATION

CERTIFICATE: **GM-CM30101 RevB**

<b>1</b>	<b>SUMMARY OF DESCRIPTION OF BUILDING METHOD OR PRODUCT</b>
ecoinsulation glasswool is a mineral fibre type bulk insulation with Dri-Therm® technology that complies with AS/NZS 4859.1:2018 and is supplied as batts or rolls with thickness between 750 mm and 275 mm, and nominal density between 7.7 kg/m <sup>3</sup> and 29 kg/m <sup>3</sup> with binder content no greater than 8%.	
<b>2</b>	<b>SUMMARY OF INTENDED USE OF BUILDING METHOD OR PRODUCT</b>
Non-combustible bulk thermal and acoustic insulation for residential and commercial construction within the following scope: <ul style="list-style-type: none"> <li>• Walls when installed in the cavities between framing members.</li> <li>• Floors when installed in the cavities between flooring members.</li> <li>• Roofs when installed over and between roof framing.</li> <li>• Ceilings when installed in the cavities between the ceiling members.</li> </ul>	
<b>3</b>	<b>BUILDING CODE PROVISIONS</b>
The System if installed and maintained in accordance with this Certificate, the system will meet the following provisions of the NZBC: <b>Clause B2 DURABILITY:</b> Performance B2.3.1(a) not less than 50 years, and B2.3.2. ecoinsulation glasswool insulation products will meet these requirements. <b>Clause C3 PROTECTION FROM FIRE:</b> Performance C3.7(a). ecoinsulation glasswool insulation products are not combustible building materials and will contribute to meeting this requirement. <b>Clause E3 INTERNAL MOISTURE:</b> Performance E3.3.1. ecoinsulation glasswool insulation products will contribute to meeting this requirement. <b>Clause F2 HAZARDOUS BUILDING MATERIALS:</b> Performance F2.3.1. ecoinsulation glasswool insulation products do not present a health hazard to people. <b>Clause G6 AIRBORNE AND IMPACT SOUND:</b> Performance G6.3.1. ecoinsulation glasswool insulation products will contribute to meeting the requirement of STC not less than 55. <b>Clause H1 ENERGY EFFICIENCY:</b> Performance H1.3.1(a) and H1.3.2E. ecoinsulation glasswool insulation products will contribute to meeting these requirements.	

<b>4</b>	<b>CERTIFICATE HOLDER DETAILS</b>
<b>Eco Insulation Systems Ltd</b> 304 Rosebank Road, Avondale, Auckland, NZ, 1026 Tel: 0800 400 326 Email: Web: <a href="http://www.ecoinsulation.co.nz">www.ecoinsulation.co.nz</a>	

<b>ISSUED</b>	<b>LAST UPDATE</b>	<b>RECERTIFICATION</b>
28/06/2021		28/06/2024
<b>5 SIGNATURE</b>		
 Herve Michoux, Global Mark Managing Director		

<b>6</b>	<b>PRODUCT CERTIFICATION BODY</b>
<b>Global-Mark Pty Ltd</b> 57 Willis Street, Wellington, 6011 customer.service@global-mark.co.nz +64 9 889 0622 <a href="http://www.global-mark.co.nz">www.global-mark.co.nz</a>	
The complaints process for this certificate can be found here:	
<a href="https://www.global-mark.com.au/?s=complaint">https://www.global-mark.com.au/?s=complaint</a>	



This certificate is issued by an independent certification body accredited by JAS-ANZ, the product certification accreditation body appointed by the Chief Executive of the Ministry of Business, Innovation and Employment under the Building Act 2004.

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CERTIFICATE V1.5

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### 7 CONDITIONS AND LIMITATIONS OF USE

1. Specification and incorporation of ecoinsulation glasswool 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 ecoinsulation glasswool insulation products shall be in accordance with the following product datasheet documents, available at – [www.ecoinsulation.co.nz](http://www.ecoinsulation.co.nz):
  - ecoinsulation Thermal Ceiling insulation, Ref.: KINZ1118791DS, April 2021
  - ecoinsulation Thermal Ceiling roll insulation, Ref.: KINZ1118794DS, April 2021
  - ecoinsulation Thermal Quilted Underfloor insulation, Ref.: KINZ1118792DS, April 2021
  - ecoinsulation Faced Thermal Underfloor insulation, Ref.: KINZ1118793DS, April 2021
  - ecoinsulation Thermal and Acoustic Wall insulation, Ref.: KINZ1118790DS, April 2021
3. Installation shall be carried out by a Knauf Insulation accredited 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 ecoinsulation glasswool installation instructions as specified below and which are available at – [www.knaufinsulation.co.nz/products](http://www.knaufinsulation.co.nz/products) – to meet the stated thermal performance rating of the insulation:
  - ecoinsulation glasswool Install Instructions – Thermal Ceiling, Ref.: KINZ1218808MIS
  - ecoinsulation glasswool Install Instructions – Thermal Ceiling Roll, Ref.: KINZ1218807MIS
  - ecoinsulation glasswool Install Instructions – Thermal Underfloor (Wrapped), Ref.: KINZ1218804MIS
  - ecoinsulation glasswool Install Instructions – Faced Thermal Underfloor, Ref.: KINZ1218805MIS
  - ecoinsulation glasswool Install Instructions – Thermal and Acoustic Wall, Ref.: KINZ1218806MIS
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 ecoinsulation glasswool Insulation products and their properties covered by this certificate.

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Table 1: ecoinsulation glasswool Product Schedule

### Ceiling Batts

Current Material Codes	Future Material Codes	R-value (m <sup>2</sup> K/W)	Density (kg/m <sup>3</sup> )	Thickness (mm)	Width (mm)	Length (mm)
651768	686656	3.3	7.7	155	430	1,160
651771	683700	3.6	8.8	160	430	1,160
653179	683702	4.2	9.7	180	430	1,160
653147	683703	5.2	11.2	210	430	1,160
653148	683704	6.3	9.0	275	430	1,160
653149	683706	3.2	23.3	105	430	1,160

### Ceiling Rolls

Current Material Codes	Future Material Codes	R-value (m <sup>2</sup> K/W)	Density (kg/m <sup>3</sup> )	Thickness (mm)	Width (mm)	Length (mm)
652301	690952	1.8	12.1	70	1200	13,500
652303	690954	2.9	12.2	115	1200	8,500
652304	690957	3.2	11.0	135	1200	8,000
652305	690960	3.6	11.0	150	1200	7,000

### Quilted Underfloor

Current Material Codes	Future Material Codes	R-value (m <sup>2</sup> K/W)	Density (kg/m <sup>3</sup> )	Thickness (mm)	Width (mm)	Length (mm)
652271	652271	1.5	10.5	70	470	2,700

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### Faced Underfloor Rolls

Current Material Codes	Future Material Codes	R-value (m <sup>2</sup> K/W)	Density (kg/m <sup>3</sup> )	Thickness (mm)	Width (mm)	Length (mm)
652298	683710	1.8	10.5	75	500	10,000
652300	691136	1.8	10.5	75	600	10,000

### Wall Batts

Current Material Codes	Future Material Codes	R-value (m <sup>2</sup> K/W)	Density (kg/m <sup>3</sup> )	Thickness (mm)	Width (mm)	Length (mm)
	658242	2.2	10.8	90	430	1,160
653150	683713	2.2	10.8	90	580	1,160
651742	651742	2.6	20.1	90	430	1,160
653177	653177	2.6	20.1	90	580	1,160
653178	653178	2.6	20.1	90	600	1,160
651766	651766	2.8	29.1	90	430	1,160
653367	653367	2.8	29.1	90	580	1,160
653244	653244	3.2	9.3	140	580	1,160
653184	653184	3.6	13.4	140	570	1,160

### 8 HEALTH AND SAFETY INFORMATION

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

Refer to ecoinsulation Material Safety Data Sheet, Issue Date: February 2019 and NZS 4246:2016 Energy efficiency – Installing bulk thermal insulation in residential buildings.

### 9 SUPPORTING INFORMATION ABOUT DESCRIPTION

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ecoinsulation glasswool is a mineral fibre type bulk insulation complying with AS/NZS 4859.1:2018, manufactured with recycled glass and ECOSE® Technology binder which is created from renewable materials. The product types and special characteristics are listed below:

- ecoinsulation Ceiling Batts
- ecoinsulation Ceiling Rolls
- ecoinsulation Quilted Underfloor Batts
- ecoinsulation Black Faced Underfloor Rolls
- ecoinsulation Wall Batts

Catalogue or model identification numbers: Refer to Table 1

### 10 SUPPORTING INFORMATION ABOUT INTENDED USE

Nil.

### 11 SUPPORTING INFORMATION ABOUT CONDITIONS AND LIMITATIONS OF USE

Nil.

### 12 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
Performance B2.3.1(a) and B2.3.2	Testing in accordance with AS/NZS 4859.1:2018 and assessment by registered testing laboratory.	Doc. Ref.: 8
Performance C3.7(a)	Testing in accordance with AS/NZS 1530.1 and assessments by registered testing laboratories and professional engineers.	Doc. Ref.: 1 to 7
Performance E3.3.1	Compliance with NZS 4214:2006, NZS 4218:2009 and NZS 4246:2016 and assessment by registered testing laboratory	Doc. Ref.: 8 and 20
Performance F2.3.1	Evaluation for Material Safety Data Sheet and assessment by registered testing laboratory	Doc. Ref.: 8 and 22
Performance G6.3.1	Assessment by professional engineer as to acceptability for use where glasswool specified in an Acceptable Solution.	Doc. Ref.: 16 and 17
Performance H1.3.1(a) and H1.3.2E	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.: 9 to 19, and 21

### 13 SUPPORTING DOCUMENTATION FOR CERTIFICATION

Ref	Author	Title	Date and/or revision
1	Exova Warringtonfire, UK	Classification of reaction to fire performance in accordance with EN 13501:2007+A1:2009 – product reference “SK Dritherm Cavity Slab 100mm”	Report No. WF 388511 7/09/2017
2	Exova Warringtonfire, UK	Fire Test For Non-Combustibility Of Building Products – product reference “HD-32-8-ET”, 80mm thickness, 32 kg/m3 density	Document Reference: 311313 27/09/2011
3	Exova Warringtonfire, UK	Determination Of The Heat Of Combustion For Building Products – product reference “HD-32-8-ET”, 80mm thickness, 32 kg/m3 density	Document Reference: 311316 27/09/2011

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4	CSIRO	Likely fire performance of Knauf Earthwool glass mineral wool insulation	Assessment Number: FCO-3073 (Revision A) 28/08/2014
5	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 <sup>3</sup> density. Result – NOT DEEMED COMBUSTIBLE.	EWFA Test Report No.: 56297900b.1 11/08/2018
6	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 <sup>3</sup> density. Result – NOT DEEMED COMBUSTIBLE.	EWFA Test Report No.: 56297900a.1 11/08/2018
7	Ignis Solutions	Engineer's report – Evaluation of Knauf Insulation against AS 1530.1-1994	Evaluation No. IGNS-7424 Issue 02 Revision 01 [2019] 29/04/2020
8	BRANZ	New Zealand Building Code appraisal	Appraisal No. 1049 [2019] 16/04/2021
9	BRANZ	Thermal Insulation Report – Earthwool New Zealand: 90 mm, R2.4	Project Number DI0448 Test No. DU03A – 2/04/2014
10	BRANZ	Thermal Insulation Report – Earthwool New Zealand 70 mm, R1.8 115 mm, R2.9 135 mm, R3.2 150 mm, R3.6	Project Number DI0455 Test No. DU01 – 1/05/2014 Test No. DU02 – 2/05/2014 Test No. DU03 – 8/05/2014 Test No. DU04 – 22/05/2014
11	BRANZ	Thermal Insulation Report – Earthwool New Zealand 140 mm, R3.2 140 mm, R3.6	Project Number DI0463 Test No. DU07A – 10/06/2014 Test No. DU08A – 18/06/2014
12	BRANZ	Thermal Insulation Report – Earthwool New Zealand 105 mm, R3.2	Project Number DI0468 Test No. DU01A – 6/06/2014
13	BRANZ	Thermal Insulation Report – Earthwool New Zealand 140 mm, R4.1	Project Number DI0522 Test No. DU01A – 19/05/2015
14	BRANZ	Thermal Insulation Report – Earthwool New Zealand 130 mm, R2.9	Project Number DI0653 Test No. DU01A – 6/06/2017
15	Knauf Insulation	Engineer's report – Technical Report: Compliance of Cwmbran products to AS/NZS 4859.1(2018) 50:90 thermal requirements	Document No.: NPD_CP_PR_0014 30/04/2020



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16	Marshall Day Acoustics	INSUL Materials Editor – Knauf Key No. 1715	v8.0.10 23/03/2018
17	Marshall Day Acoustics	Assessment report Ref: Rp 002 20170139 – Knauf Insulation Cavity Infill Substitution	6/09/2019
18	Standards New Zealand	AS/NZS 4859.1:2018 Thermal insulation materials for buildings – Part 1: General criteria and technical provisions	2018
19	Standards New Zealand	NZS 4214:2006 Methods of Determining the Total Thermal Resistance of Parts of Buildings	2006
20	Standards New Zealand	NZS 4246:2016 Energy efficiency – Installing bulk thermal insulation in residential buildings	2016
21	Standards New Zealand	NZS 4218:2009 Thermal Insulation – Housing and Small Buildings	2009
22	ecoinsulation	Material Safety Data Sheet: Glass Mineral Wool with ECOSE® Technology	February 2019

### 14 CONDITIONS RELATING TO NOTIFICATION

- (a) the certificate holder notifies the product certification body in writing of any intended change to any of the following particulars:
- (i) the name, address, or contact details of the certificate holder;
  - (ii) any address of a location where a certified product is produced or manufactured;
- (b) the certificate holder notifies the product certification body in writing of any intended change, modification, or alteration to any of the following:
- (i) the certified building method or product;
  - (ii) the method of its production or manufacture;
  - (iii) the product quality plan prepared in respect of the certified building method or product;
  - (iv) the application or installation instructions for the certified building method or product;
  - (v) any documentation relating to the use and maintenance of the certified building method or product;
- (c) if the certificate holder has any reason to suspect that the certified building method or product does not comply with the Building Code, the certificate holder notifies the product certification body in writing of the reason for that suspicion:
- (d) if the certificate holder or the product certification body finds that a certified building method or product that has been released on the market does not comply with the Building Code, the certificate holder discloses that fact in disclosure statements published in a form that is acceptable to the product certification body and to the chief executive:
- (e) if the certificate is suspended or revoked, the certificate holder—
- (i) notifies all customers to whom the building method or product is regularly supplied; and
  - (ii) immediately ceases using the certificate, the mark of conformity, and any reference to the number of the certificate.

End of the document