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Certificate Holder:
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Certificate of Conformity

Certificate number: CM30094 Rev1

THIS TO CERTIFY THAT

Earthwool® Glasswool Insulation

Type and/or use of product:

Non-combustible thermal insulation for residential and commercial construction.

Description of product:

Earthwool® is a mineral fibre type bulk insulation supplied as batts or rolls, and thickness between 50 mm and 275 mm, and nominal density between 8 kg/m³ and 30 kg/m³.

COMPLIES WITH THE FOLLOWING BCA PROVISIONS AND STATE OR TERRITORY VARIATION(S)

BCA (2016)

	Volume One – including Amendment 1		Volume Two	
Performance Requirement(s)	FP1.4	Weatherproofing	P2.2.2	Weatherproofing
	FP1.5	Rising damp	P2.2.3	Rising damp
	GP2.1	Combustion appliance	P2.3.3	Heating appliances
	GP5.1	Construction in Bushfire Prone Areas	P2.3.4	Buildings in bushfire areas
Deemed-to-Satisfy Provision(s):	A1.1	Non-combustible	1.1.1.2	Non-combustible
	C1.9	Non-combustible building elements	3.7.1.8	Separating walls
	C1.14	Ancillary elements	3.12.1.1	Building fabric thermal insulation
	J1.2	Thermal construction – general		

Scope of certification: The CodeMark Scheme is a building product certification scheme. The rules of the Scheme are available at the ABCB website www.abcb.gov.au. This Certificate of Conformity is to confirm that the relevant requirements of the Building Code of Australia (BCA) as claimed against have been met. The responsibility for the product performance and its fitness for the intended use remain with the certificate holder. The certification is not transferrable to a manufacturer not listed on Appendix A of this certificate.

Disclaimer: The Scheme Owner, Scheme Administrator and Scheme Accreditation Body do not make any representations, warranties or guarantees, and accept no legal liability whatsoever arising from or connected to, the accuracy, reliability, currency or completeness of any material contained within this certificate; and the Scheme Owner, Scheme Administrator and Scheme Accreditation Body disclaim to the extent permitted by law, all liability (including negligence) for claims of losses, expenses, damages and costs arising as a result of the use of the product(s) referred to in this certificate.

The purpose of Global-Mark **construction site audits** is to confirm the practicability of installing the product; and to confirm the appropriateness and accuracy of installation instructions

In placing the **CodeMark mark** on the product/system, the certificate holder makes a declaration of compliance with the certification standard(s) and confirms that the product is identical to the product certified herein. In issuing this Certificate of Approval Global-Mark has relied on the **expertise of external bodies** (laboratories, and technical experts).

Herve Michoux
Global-Mark Managing Director

Peter Gardner
Unrestricted Building Certifier

Date of issue: 06/07/2018

Date of expiry: 06/07/2021



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State or territory variation(s):	SA FP1.5		NSW P2.2.3	
	NSW GP5.1		SA P2.2.3	
	Qld GP5.1		Tas P2.3.3(c)	
	Tas GP5.1		Tas P2.3.4	
	NSW J(A)1		NSW 3.7.1.8(b)	
	NT Section J		NSW 3.12	
	Qld Section J		NT 3.12	
SUBJECT TO THE FOLLOWING LIMITATIONS AND CONDITIONS AND THE PRODUCT TECHNICAL DATA IN APPENDIX A AND EVALUATION STATEMENTS IN APPENDIX B				
Limitations and conditions: <ol style="list-style-type: none"> 1. Installation shall be carried out by an accredited installer in accordance with AS 3999:2015 and the relevant installation guide as specified in section A5. 2. 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. 				Building classification/s: All classes

APPENDIX A – PRODUCT TECHNICAL DATA

A1 Type and intended use of product

Bulk thermal insulation for roofs, ceilings, external walls, internal walls and floors.

A2 Description of product

Earthwool® is a mineral fibre type bulk insulation complying with AS/NZS 4859.1:2002 (incorporating Amendment No.1). It is manufactured with recycled glass and ECOSE® Technology binder which is created from renewable materials. The product types and special characteristics are listed below:

- Earthwool® Acoustic Batts – Basic at 11 kg/m³, Ultra at 14 kg/m³, High-Density at 17 kg/m³, 20 kg/m³ and 27 kg/m³
- Earthwool® Acoustic Roll – Basic at 11 kg/m³, High-Density at 24 kg/m³
- Earthwool® Ceiling Batts
- Earthwool® Multi-Use Rolls
- Earthwool® Roof Blanket – has optional foil backing
- Earthwool® Underfloor Roll – faced with a black glass wind wash barrier
- Earthwool® Wall Batts

A3 Product specification

Binder content no greater than 8%

Specification of Earthwool® glasswool insulation shall be in accordance with the following documents:

- Knauf Insulation Earthwool® Product Price List, Ref.: KIAU1115282BR, 2014
- Knauf Insulation Earthwool® Product Datasheets as follows:
 - Earthwool® Acoustic Batts, Ref.: KIAU0315172DS, October 2015
 - Earthwool® Acoustic Roll, Ref.: KIAU0315172DS, October 2017
 - Earthwool® Ceiling Batts, Ref.: KIAU0315174DS, January 2017
 - Earthwool® Multi-Use Rolls, Ref.: KIAU0616395DS, May 2017
 - Earthwool® Roof Blanket, Ref.: KIAU0515198DS, January 2017
 - Earthwool® Underfloor Roll, Ref.: KIAU0115154DS, October 2015
 - Earthwool® Wall Batts, Ref.: KIAU0315172DS, January 2017

Also refer to Knauf Insulation Material Safety Datasheet – Glass Mineral Wool with ECOSE® Technology [October 2014].

Table A1 provides a summary of the specification information for the relevant Earthwool products.

Table A1: Product Specification Summary

Acoustic Batts 11kg/m³

Material Code	Thickness (mm)	Density (kg/m ³)	Est.R-value (m ² K/W)	Width (mm)	Length (mm)
290594	50	11	1.2	430	1160
248352				580	1160
290599	75	11	1.8	430	1160
290600				580	1160
248361	50	11	1.2	450	2700
248360				600	2700
248362	75	11	1.8	450	2700
2437819				600	2700
546373	110	11	2.5	600	1160

Acoustic Batts 14 kg/m³

Material Code	Thickness (mm)	Density (kg/m ³)	Est.R-value (m ² K/W)	Width (mm)	Length (mm)
2437822	50	14	1.3	430	1160
2438637				580	1160
2438916	75	14	1.9	430	1160
2438638				580	1160
2437560	50	14	1.3	450	1160
2437561				600	1160
2437562	75	14	1.9	450	1160
2437563				600	1160

High Density Acoustic Batts

Material Code	Thickness (mm)	Density (kg/m ³)	Est.R-value (m ² K/W)	Width (mm)	Length (mm)
244462	75	17.0	2.0	430	1160
2438626				580	1160
2437532	90	20.0	2.5	430	1160



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2437533				580	1160
248357	50	24.0	1.4	580	1160
256736	90	27.0	2.7	430	1160
251511				580	1160

Wall Batts

Material Code	Thickness (mm)	Density (kg/m ³)	R-value (m ² K/W)	Width (mm)	Length (mm)
243521	75	8.1	1.5	430	1160
243523				580	1160
244462	75	17.0	2.0	430	1160
2438626				580	1160
2437523	90	9.5	2.0	430	1160
2437528				580	1160
2437532	90	20.0	2.5	430	1160
2437533				580	1160
256735	90	27.0	2.7	430	1160
252511				580	1160

Wall Batts - Metal Frame

Material Code	Thickness (mm)	Density (kg/m ³)	R-value (m ² K/W)	Width (mm)	Length (mm)
2437522	75	8.1	1.5	450	1200
2437524				600	1200
2438628	75	17.0	2.0	450	1200
2438629				600	1200
2437526	90	9.5	2.0	450	1200
2437529				600	1200

Ceiling Batts

Material Code	Thickness (mm)	Density (kg/m ³)	R-value (m ² K/W)	Width (mm)	Length (mm)
2437530	125	7.4	2.5	430	1160
2437531				580	1160

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2437530	145	8.0	3.0	430	1160
2437535				580	1160
2437538	175	7.3	3.5	430	1160
2437539				580	1160
2437542	195	7.8	4.0	430	1160
2437541				580	1160
2437544	210	11.4	5.0	580	1160
2437543				430	1160
2437546	275	9.0	6.0	580	1160
2437545				430	1160

Roof Blanket

Material Code	Thickness (mm)	Density (kg/m ³)	R-value (m ² K/W)	Width (mm)	Length (mm)
461848	55	12.0	1.3	1200	37000
497338	60	12.8	1.5	1200	28000
472959	75	11.6	1.8	1200	23000
474347	100	10.0	2.3	1200	17500
474350	105	11.0	2.5	1200	16500
474352	120	13.0	3.0	1200	14500
429752	130	12.7	3.2	1200	16500

Multi-Use Roll

Material Code	Thickness (mm)	Density (kg/m ³)	R-value (m ² K/W)	Width (mm)	Length (mm)
253095	90	9.5	2.0	430	19000
253093				580	19000
432158	90	20.0	2.5	430	12500
432159				580	12500



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A4 Manufacturer and manufacturing plant(s)

- St Helens, PO Box 10, Stafford Road, Merseyside WA 10 3NS, UK
- Cwmbran NP44 2YQ, TOF, UK
- 3100 Ashby Road, Shasta Lake, California, 96019, USA
- 75. Yil Mahallesi 1. Cadde 1/G – Küçük Organize, Sanayi 26250 Eskişehir Turkey

A5 Installation requirements

Installation shall be carried out in accordance with AS3999:2015 and the relevant Knauf Earthwool installation instruction documents listed below and which are available at www.knaufinsulation.com.au/resources :

- Installation Instructions – Earthwool® Ceiling Batts
- Installation Instructions – Earthwool® Ceiling Rolls
- Installation Instructions – Earthwool® Glasswool Insulation Underfloor Batts
- Installation Instructions – Earthwool® Insulation Underfloor Roll
- Installation Instructions – Earthwool® Wall Batts

A6 Other relevant technical data

Any referenced documents within the technical literature identified in Appendix A, A3 and Appendix A, A5.

APPENDIX B – EVALUATION STATEMENTS

B1 Evaluation methods

The following assessment methods have been used to determine compliance with NCC 2016 (+A1):

Code Clause	Assessment Method(s)	Evidence of suitability	Evidence reference in B2
Volume One A1.1	Volume One A05(a)	Volume One A2.2(a)(iv) – Report issued by a registered testing authority	Items 1 to 4
Volume One C1.9	Volume One A05(a)	Volume One A2.2(a)(iv) – Report issued by a registered testing authority	Items 1 to 4
Volume One C1.14	Volume One A05(a)	Volume One A2.2(a)(iv) – Report issued by a registered testing authority	Items 1 to 4
Volume One FP1.4	Volume One A05(a)	Volume One A2.2(a)(vi) – Another form of documentary evidence	Item 12 and item 13
Volume One FP1.5	Volume One A05(a)	Volume One A2.2(a)(vi) – Another form of documentary evidence	Item 12
	Volume One A0.5(d)	Comparison with the Deemed-to-Satisfy Provisions	Item 13
Volume One GP2.1	Volume One A05(a)	Volume One A2.2(a)(iv) – Report issued by a registered testing authority	Items 1 to 4
Volume One GP5.1	Volume One A05(a)	Volume One A2.2(a)(iv) – Report issued by a registered testing authority	Items 1 to 4
Volume One J1.2	Volume One A05(a)	Volume One A2.2(a)(iv) – Report issued by a registered testing authority	Items 5 to 11
Volume Two 1.1.1.2	Volume Two 1.0.5(a)	Volume Two 1.2.2(a)(i) – Report issued by a registered testing authority	Items 1 to 4
Volume Two P2.2.2	Volume Two 1.0.5(d)	Comparison with the Deemed-to-Satisfy Provisions	Item 12
	Volume Two 1.0.5(a)	Volume Two 1.2.2(a)(vi) – Another form of documentary evidence	Item 13
Volume Two P2.2.3	Volume Two 1.0.5(d)	Comparison with the Deemed-to-Satisfy Provisions	Item 13
	Volume Two 1.0.5(a)	Volume Two 1.2.2(a)(vi) – Another form of documentary evidence	Item 12
Volume Two P2.3.1	Volume Two 1.0.5(a)	Volume Two 1.2.2(a)(i) – Report issued by a registered testing authority	Items 1 to 4
Volume Two P2.3.3	Volume Two 1.0.5(a)	Volume Two 1.2.2(a)(i) – Report issued by a registered testing authority	Items 1 to 4
Volume Two P2.3.4	Volume Two 1.0.5(a)	Volume Two 1.2.2(a)(i) – Report issued by a registered testing authority	Items 1 to 4
Volume Two 3.7.1.8	Volume Two 1.0.5(a)	Volume Two 1.2.2(a)(i) – Report issued by a registered testing authority	Items 1 to 4
Volume Two 3.12.1.1	Volume Two 1.0.5(a)	Volume Two 1.2.2(a)(i) – Report issued by a registered testing authority	Items 5 to 11

B2 Reports

The following reports have been used as evidence to determine compliance with NCC 2016 (+A1):

Ref	Author	Reference	Date	Description	NATA Registration
1	Exova Warringtonfire, UK	Report No. WF 388511	7/09/2017	Classification of reaction to fire performance in accordance with EN 13501:2007+A1:2009 – product reference “SK Dritherm Cavity Slab 100mm”	ilac-MRA via. UKAS – Accreditation Number 0249
2	Exova Warringtonfire, UK	Document Reference: 311313	27/09/2011	Fire Test For Non-Combustibility Of Building Products – product reference “HD-32-8-ET”, 80mm thickness, 32 kg/m ³ density	ilac-MRA via. UKAS – Accreditation Number 0249
3	Exova Warringtonfire, UK	Document Reference: 311316	27/09/2011	Determination Of The Heat Of Combustion For Building Products – product reference “HD-32-8-ET”, 80mm thickness, 32 kg/m ³ density	ilac-MRA via. UKAS – Accreditation Number 0249
4	CSIRO	Assessment Number: FCO-3073 (Revision A)	28/08/2014	Likely fire performance of Knauf Earthwool glass mineral wool insulation	Accreditation Number 165
5	BRANZ	Project Number: DI0367 Test Reference: DU02 Test Reference: DU03 Test Reference: DU04 Test Reference: DU05 Test Reference: DU06 Test Reference: DU07 Test Reference: DU08	27/08/2013 28/08/2013 18/10/2013 8/10/2013 19/09/2013 4/09/2013 30/08/2013	Thermal Resistance of Earthwool Australia products as follows: Earthwool roll – 60mm R1.5 Earthwool roll – 75mm R1.8 Earthwool roll – 90mm R2.5 Earthwool roll – 90mm R2.1 Earthwool roll – 100mm R2.3 Earthwool roll – 120mm R3.0 Earthwool roll – 130mm R3.2	ilac-MRA via. IANZ – Accreditation Number 37
6	BRANZ	Project Number: DI0450 Test Reference: DU05 Test Reference: DU06	16/04/2014 17/04/2014	Thermal Resistance of Earthwool products as follows: Earthwool batts – 90mm R2.1 Earthwool batts – 90mm R2.5	ilac-MRA via. IANZ – Accreditation Number 37
7	BRANZ	Project Number: DI0463 Test Reference: DU01 Test Reference: DU02 Test Reference: DU04 Test Reference: DU05	14/05/2014 14/05/2014 20/05/2014 29/05/2014	Thermal Resistance of Earthwool products as follows: Earthwool batts – 90mm R2.7 Earthwool batts – 90mm R2.6 Earthwool batts – Sound Control 75mm R1.9 Earthwool batts – Sound Control 50mm R1.2	ilac-MRA via. IANZ – Accreditation Number 37
8	BRANZ	Project Number: DI0490 Test Reference: DU02	1/10/2014	Thermal Resistance of Earthwool products as follows: Earthwool batts – Sound Absorbing 50mm R1.3	ilac-MRA via. IANZ – Accreditation Number 37
9	BRANZ	Project Number: DI0436 Test Reference: DU01 Test Reference: DU02 Test Reference: DU03	1/04/2014 7/04/2014 3/04/2014	Thermal Resistance of Earthwool products as follows: Earthwool batts – 210mm R5.0 Earthwool batts – 195mm R4.0 Earthwool batts – 175mm R3.5	ilac-MRA via. IANZ – Accreditation Number 37

Ref	Author	Reference	Date	Description	NATA Registration
10	BRANZ	Project Number: DIO448 Test Reference: DU01 Test Reference: DU02 Test Reference: DU04	1/04/2014 1/04/2014 11/04/2014	Thermal Resistance of Earthwool products as follows: Earthwool batts – 75mm R2.0 Earthwool batts – 90mm R2.0 Earthwool batts – 145mm R3.0	ilac-MRA via. IANZ – Accreditation Number 37
11	BRANZ	Project Number: DIO450 Test Reference: DU01 Test Reference: DU03	10/04/2014 22/04/2014	Thermal Resistance of Earthwool products as follows: Earthwool batts – 75mm R1.5 Earthwool batts – 275mm R6.0	ilac-MRA via. IANZ – Accreditation Number 37
12	Standards Australia	AS/NZS 4859.1:2002 (Incorporating Amendment No. 1)	2006	Materials for the thermal insulation of buildings – Part 1: General criteria and technical provisions	Not applicable
13	Standards Australia	AS 3999:2015	2015	Bulk thermal insulation - Installation	Not applicable