Certificate of Conformity

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Certificate number: CM30094 Rev4

THIS TO CERTIFY THAT

Knauf Insulation

Type and/or use of product:	**Description of product:**
Non-combustible thermal insulation for residential and commercial construction.	Knauf Insulation is a mineral fibre type bulk insulation supplied as batts or rolls, and thickness between 25 mm and 275 mm, and nominal density between 8 kg/m^3 and 32 kg/m^3.

COMPLIES WITH THE FOLLOWING BCA PROVISIONS AND STATE OR TERRITORY VARIATION(S) — **BCA 2019+A1**

	Volume One – including Amendment 1		**Volume Two – including Amendment 1**	
Performance Requirement(s)	**FP1.4**	Weatherproofing	**P2.2.2**	Weatherproofing
	FP1.5	Rising damp	**P2.2.3**	Rising damp
	FP5.1	Sound transmission through floors	**P2.4.6**	Sound insulation
	FP5.2	Sound transmission through walls	**P2.7.5**	Buildings in bushfire prone areas
	FP5.4	Sound transmission through floors in residential care buildings		
	FP5.5	Sound transmission through walls in residential care buildings		

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: 22/04/2021

Date of expiry: 22/04/2024

	GP5.1	Construction in Bushfire Prone Areas		
Deemed-to-Satisfy Provision(s):	**Schedule 3**	Non-combustible	**Schedule 3**	Non-combustible
	C1.9	Non-combustible building elements	**3.7.3.2**	Separating walls
	J1.2	Thermal construction – general	**3.12.1.1**	Building fabric thermal insulation
State or territory variation(s):	**SA FP1.5**	Rising damp	**NSW P2.2.3**	Rising damp
	NSW GP5.1	Bushfire resistance	**SA P2.2.3**	Rising damp
	Qld GP5.1	Bushfire resistance	**TAS 2.7.5**	Buildings in bushfire prone areas
	NSW J(A)1	Building fabric	**NSW 3.12**	Part 3.12 is replaced with BASIX.
	NT Section J	For a Class 2 building and a Class 4 part of a building, Section J is replaced with Section J of BCA 2009. Section J does not apply to Class 3 and 5-9 buildings.	**NT 3.12**	Part 3.12 is replaced with Part 3.12 BCA 2009.
	Qld Section J	For a Class 2 building, Section J is replaced with Section J of BCA 2009.	**Qld 3.12**	Class 1 buildings are also regulated by the Building Act 1975 and the Queensland Development Code MP4.1 – Sustainable buildings.
			ACT 3.12	Refer also to ACT Appendix.

SUBJECT TO THE FOLLOWING LIMITATIONS AND CONDITIONS AND THE PRODUCT TECHNICAL DATA IN APPENDIX A AND EVALUATION STATEMENTS IN APPENDIX B

Limitations and conditions:

1. Installation shall be carried out 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.
3. When installed in accordance with AS 3999:2015 and the relevant installation guide as specified in section A5, the presence of the specified insulation material does not compromise building element compliance with Volume One FP1.4 and FP1.5 and Volume Two P2.2.2 and P2.2.3.
4. For Volume One FP5.1, FP5.2, FP5.4, FP5.5 and Volume Two P2.4.6, Knauf Insulation contributes to the sound insulation properties of building elements into which it is installed.

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

Knauf Insulation is a mineral fibre type bulk insulation complying with AS/NZS 4859.1:2018. 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:

- Knauf Insulation Acoustic Batts – Basic at 11 kg/m^3, Ultra at 14 kg/m^3, High-Density at 17 kg/m^3, 20 kg/m^3 and 27 kg/m^3
- Knauf Insulation Acoustic Roll – Basic at 11 kg/m^3, Ultra at 14 kg/m^3, High-Density at 24 kg/m^3 and 32 kg/m^3
- Earthwool® Ceiling Batts
- Earthwool® Multi-Use Rolls
- Knauf Insulation Roof Blanket – has optional foil backing
- Earthwool® Floorshield
- Earthwool® Wall Batts
- ecoinsulation Ceiling Batts
- ecoinsulation Wall Batts
- ecoinsulation Floorshield

A3 Product specification

Binder content no greater than 8%.

Specification of Knauf Insulation shall be in accordance with the following documents:

- Knauf Insulation Product Datasheets as follows:
  - Knauf Insulation Acoustic, Ref.: KIAU0315172DS, January 2021
  - Earthwool® Ceiling Batt, Ref.: KIAU0315174DS, January 2021
  - Earthwool® Multi-Use Roll, Ref.: KIAU0616395DS, January 2021
  - Knauf Insulation Roof Blanket, Ref.: KIAU0515198DS, January 2021
  - Earthwool® Glasswool Floorshield Underfloor Batt, Ref.: KIAU0419840DS, January 2021
  - Earthwool® Wall Batt, Ref.: KIAU0315173DS, January 2021
- Eco Insulation glasswool product Datasheets as follow:
  - Thermal and Acoustic Wall insulation, Ref KIAU07201117DS July 2020
  - Thermal Ceiling insulation, Ref KIAU07201118DS, July 2020
  - Faced Thermal Underfloor insulation, Ref KIAU07201119DS, July 2020
- Knauf Insulation Safety Data Sheet – Earthwool® Glasswool, Ref.: KI_DP_101 Revision 2.0, 11/11/2016.

Table A1 provides a summary of the specification information for the relevant Knauf Insulation, Earthwool® and Eco-Insulation products.

Table A1: Product Specification Summary

Knauf Insulation

Acoustic Batts

New Material Code	Existing Material Code	Thickness (mm)	Density (kg/m³)	Width (mm)	Length (mm)
683637	248361	50	11	450	2700
683635	248352			580	1160
683636	248360			600	2700
683639	290599	75	11	430	1160
683638	248362			450	2700
683684	2437819			600	2700
683672	546373	110	11	600	1160
683685	2437822	50	14	430	1160
683680	2437560			450	1160
683681	2437561			600	1160
683691	2438916	75	14	430	1160
683682	2437562			450	1160
683690	2438638			580	1160
683683	2437563			600	1160

Acoustic Roll

New Material Code	Material Code	Thickness (mm)	Density (kg/m³)	Width (mm)	Length (mm)
690939	543489	25	24	600	18900
683715	672594	50	11	450	21000
691126	672573		32	600	7200
707764	705462	75	11	450	11600
690941	607094			600	11600
691124	672586		24	600	6200

691115	672609		32	600	4800
690964	672626	90	11	600	11600
691119	672624		14	600	9100
691117	672621		24	600	5300
683716	672603		32	450	4000
690962	672604			600	4000
691122	672596	100	32	600	3600

Roof Blanket

New Material Code	Material Code	Thickness (mm)	Density (kg/m³)	Declared R-value (m²K/W)	Width (mm)	Length (mm)
683640	461848	55	12.0	1.3	1200	30000
683663	497338	60	13.4	1.5	1200	28000
683659	472959	75	11.7	1.8	1200	23000
683660	474347	100	10.4	2.3	1200	17500
683661	474350	105	11.4	2.5	1200	16500
683662	474352	120	13.4	3.0	1200	14500
683643	470919	130	12.7	3.2	1200	13500
723800	522242	145	13.0	3.6	1200	12000
683720	680400	130	22.3	3.7	1200	6500

Earthwool®

Wall Batts

New Material Code	Material Code	Thickness (mm)	Density (kg/m³)	Declared R-value (m²K/W)	Width (mm)	Length (mm)
2437521	2437521	75	8.1	1.5	430	1160
2437523	2437523				580	1160
683634	244462	75	17.4	2.0	430	1160
683686	2438626				580	1160
2437525	2437525	90	9.4	2.0	430	1160
2437528	2437528				580	1160
683718	679751	90	12.4	2.2	430	1160
683717	636114				580	1160
2437532	2437532	90	20.1	2.5	430	1160
2437533	2437533				580	1160
256736	256736	90	27.2	2.7	430	1160
252511	252511				580	1160
683675	631049	140	22.6	4.0	430	1160
683664	683664				580	1160

Wall Batts - Metal Frame

New Material Code	Material Code	Thickness (mm)	Density (kg/m³)	Declared R-value (m²K/W)	Width (mm)	Length (mm)
683687	2438628	75	17.4	2.0	450	1200
683688	2438629				600	1200

Ceiling Batts

New Material Code	Material Code	Thickness (mm)	Density (kg/m³)	Declared R-value (m²K/W)	Width (mm)	Length (mm)
731844	2437530	125	7.4	2.5	430	1160
731842	2437531				580	1160
2437534	2437534	145	8.00	3.0	430	1160
2437535	2437535				580	1160
690840	637335	135	15.3	3.5	430	1160
731840	2437538	175	7.4	3.5	430	1160
731838	2437539				580	1160
731832	2437541	195	7.8	4.0	430	1160
731830	2437542				580	1160
2437543	2437543	210	11.4	5.0	430	1160
2437544	2437544				580	1160
2437545	2437545	275	9.0	6.0	430	1160
2437546	2437546				580	1160

Multi-Use Roll

New Material Code	Material Code	Thickness (mm)	Density (kg/m³)	Declared R-value (m²K/W)	Width (mm)	Length (mm)
707755	681567	90	9.4	2.0	430	19000
707750	681565				580	19000

Floorshield

New Material Code	Material Code	Thickness (mm)	Density (kg/m³)	Declared R-value (m²K/W)	Width (mm)	Length (mm)
691130	651677	90	21	2.5	420	1160

Eco Insulation

Eco Ceiling Batts

New Material Code	Material Code	Thickness (mm)	Density (kg/m³)	Declared R-value (m²K/W)	Width (mm)	Length (mm)
683702	653179	180	10.1	4.1	430	1160
707744	673404				580	1160
683703	653147	210	11.4	5.0	430	1160
707763	705583				580	1160
683704	653148	275	9.1	6.0	430	1160
707759	705584				580	1160

Eco Wall Batts

New Material Code	Material Code	Thickness (mm)	Density (kg/m³)	Declared R-value (m²K/W)	Width (mm)	Length (mm)
707862	707418	90	10.8	2.1	430	1160
683713	658242				580	1160
707756	705586		20.1	2.5	430	1160
707749	705587				580	1160
707751	705588		30.5	2.7	430	1160
707771	705589				580	1160
707768	705582	140	22.6	4.0	580	1160

Eco Floor

New Material Code	Material Code	Thickness (mm)	Density (kg/m³)	Declared R-value (m²K/W)	Width (mm)	Length (mm)
705170	705170	90	21	2.5	420	1160

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. Yıl Mahallesi 1. Cadde 1/G – Küçük Organize, Sanayi 26250 Eskişehir Turkey
- Knauf Insulation Sdn. Bhd. (1082442-W) – PLO 157, Jalan Teruntum 4, Kawasan PerindustrianTanjung Langsat, 81700 Pasir Gudang, Johor Darul Ta'zim., MALAYSIA

A5 Installation requirements

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

- Knauf Insulation Earthwool®
  - Installation Instructions – Earthwool® Ceiling Batts, Ref KIAU0817596WA

- Installation Instructions – Earthwool® Ceiling Rolls, Ref KIAU0817595WA
- Installation Instructions – Earthwool® Glasswool Insulation: Floorshield Underfloor Segment, Ref KINZ1219983MIS
- Installation Instructions – Earthwool® Wall Batts, Ref KIAU0817597WA

- Eco Insulation glasswool
  - Installation Instructions – ecoinsulation Thermal ceiling, Ref KIAU07201111MIS
  - Installation Instructions – ecoinsulation Thermal and Acoustic Wall, Ref KIAU07201110MIS
  - Installation Instructions – ecoinsulation Faced Thermal Underfloor, Ref KIAU07201112MIS

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 BCA 2019 A1:

Code Clause	Assessment Method(s)	Evidence of suitability	Evidence reference in B2
Volume One Schedule 3	Volume One A2.3(2)(a)	Volume One A5.2(1)(d) – Report issued by a registered testing authority	Items 1 to 4, item 17 and item 18
	Volume One A2.3(2)(a)	Volume One A5.2(1)(e) – Report from a professional engineer	Item 19
Volume One C1.9	Volume One A2.3(2)(a)	Volume One A5.2(1)(d) – Report issued by a registered testing authority	Items 1 to 4, item 17 and item 18
	Volume One A2.3(2)(a)	Volume One A5.2(1)(e) – Report from a professional engineer	Item 19
Volume One FP1.4	Volume One A2.2(2)(a)	Volume One A5.2(1)(f) – Another form of documentary evidence	Item 12 and item 13
Volume One FP1.5	Volume One A2.2(2)(a)	Volume One A5.2(1)(f) – Another form of documentary evidence	Item 12
	Volume One A2.2(1)(b)	Equivalence to the Deemed-to-Satisfy Provisions	Item 13
Volume One FP5.1	Volume One A2.2(2)(a)	Volume One A5.2(1)(e) – Report from a professional engineer	Item 14 and item 15
Volume One FP5.2	Volume One A2.2(2)(a)	Volume One A5.2(1)(e) – Report from a professional engineer	Item 14 and item 15
Volume One FP5.4	Volume One A2.2(2)(a)	Volume One A5.2(1)(e) – Report from a professional engineer	Item 14 and item 15
Volume One FP5.5	Volume One A2.2(2)(a)	Volume One A5.2(1)(e) – Report from a professional engineer	Item 14 and item 15
Volume One GP5.1	Volume One A2.2(2)(a)	Volume One A5.2(1)(d) – Report issued by a registered testing authority	Items 1 to 4, item 17 and item 18
	Volume One A2.2(2)(a)	Volume One A5.2(1)(e) – Report from a professional engineer	Item 19
Volume One J1.2	Volume One A2.2(2)(a)	Volume One A5.2(1)(d) – Report issued by a registered testing authority	Items 5 to 11 and item 16
Volume Two Schedule 3	Volume Two A2.3(2)(a)	Volume Two A5.2(1)(d) – Report issued by a registered testing authority	Items 1 to 4, item 17 and item 18
	Volume Two A2.2(2)(a)	Volume Two A5.2(1)(e) – Report from a professional engineer	Item 19
Volume Two P2.2.2	Volume Two A2.2(1)(b)	Equivalence to the Deemed-to-Satisfy Provisions	Item 12
	Volume Two A2.2(2)(a)	Volume Two A5.2(1)(f) – Another form of documentary evidence	Item 13
Volume Two P2.2.3	Volume Two A2.2(1)(b)	Equivalence to the Deemed-to-Satisfy Provisions	Item 13
	Volume Two A2.2(2)(a)	Volume Two A5.2(1)(f) – Another form of documentary evidence	Item 12
Volume Two P2.4.6	Volume Two A2.2(2)(a)	Volume Two A5.2(1)(e) – Report from a professional engineer	Item 14 and item 15
Volume Two P2.7.5	Volume Two A2.2(2)(a)	Volume Two A5.2(1)(d) – Report issued by a registered testing authority	Items 1 to 4, item 17 and item 18
	Volume Two A2.2(2)(a)	Volume Two A5.2(1)(e) – Report from a professional engineer	Item 19
Volume Two 3.7.3.2	Volume Two A2.3(2)(a)	Volume Two A5.2(1)(d) – Report issued by a registered testing authority	Items 1 to 4, item 17 and item 18
	Volume Two A2.2(2)(a)	Volume Two A5.2(1)(e) – Report from a professional engineer	Item 19
Volume Two 3.12.1.1	Volume Two A2.3(2)(a)	Volume Two A5.2(1)(d) – Report issued by a registered testing authority	Items 5 to 11 and item 16

B2 Reports

The following reports have been used as evidence to determine compliance with BCA 2019 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	27/08 – 18/10/2013	Thermal Resistance of Earthwool Australia products.	ilac-MRA via. IANZ – Accreditation Number 37
6	BRANZ	Project Number: DI0450	16-17/04/2014	Thermal Resistance of Earthwool products.	ilac-MRA via. IANZ – Accreditation Number 37
7	BRANZ	Project Number: DI0463	14-29/05/2014	Thermal Resistance of Earthwool products.	ilac-MRA via. IANZ – Accreditation Number 37
8	BRANZ	Project Number: DI0490	1/10/2014	Thermal Resistance of Earthwool products.	ilac-MRA via. IANZ – Accreditation Number 37
9	BRANZ	Project Number: DI0436	1-7/04/2014	Thermal Resistance of Earthwool products.	ilac-MRA via. IANZ – Accreditation Number 37
10	BRANZ	Project Number: DI0448	1-11/04/2014	Thermal Resistance of Earthwool products.	ilac-MRA via. IANZ – Accreditation Number 37
11	BRANZ	Project Number: DI0450	10-22/04/2014	Thermal Resistance of Earthwool products.	ilac-MRA via. IANZ – Accreditation Number 37
12	Standards Australia	AS/NZS 4859.1:2018	2018	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
14	Marshall Day Acoustics	v8.0.10	23/03/2018	INSUL Materials Editor – Knauf Key No. 1715	Not applicable
15	Marshall Day Acoustics	Rp 002 20170139	6/09/2019	Knauf Insulation Cavity Infill Substitution	Not applicable
16	Knauf Insulation	Document No.: NPD_CP_PR_0014	30/04/2020	Technical Report: Compliance of Cwmbran products to AS/NZS 4859.1(2018) 50:90 thermal requirements	Not applicable
17	Exova Warringtonfire	EWFA Test Report No.: 56297900b.1	11/08/2018	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.	Accreditation No. 3277, Site No. 3270

Ref	Author	Reference	Date	Description	NATA Registration
18	Exova Warringtonfire	EWFA Test Report No.: 56297900a.1	11/08/2018	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.	Accreditation No. 3277, Site No. 3270
19	Ignis Solutions	Evaluation No. IGNS-7424 Issue 02 Revision 01 [2019]	29/04/2020	Evaluation of Knauf Insulation against AS 1530.1-1994	Not applicable