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# Certificate of Conformity

**Certificate number: CM30057 Rev1**

**THIS TO CERTIFY THAT**

## Knauf Insulation Supafil Carbon Plus

<b>Type and/or use of product:</b> Loose fill bulk thermal insulation material for cavity masonry walls in residential and commercial construction.	<b>Description of product:</b> Supafil CarbonPlus is a loose fill silicone coated non-combustible glass mineral wool insulation. It is blown into the cavity of masonry walls to a nominal density of 25 kg/m <sup>3</sup> .
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**COMPLIES WITH THE FOLLOWING BCA PROVISIONS AND STATE OR TERRITORY VARIATION(S)**

**BCA (2016)**

	Volume One – including Amendment 1		Volume Two	
<b>Performance Requirement(s)</b>	<b>FP1.4</b>	Weatherproofing	<b>P2.2.2</b>	Weatherproofing
	<b>FP1.5</b>	Rising damp	<b>P2.2.3</b>	Rising damp
	<b>GP2.1</b>	Combustion appliances	<b>P2.3.3</b>	Heating appliances
<b>Deemed-to-Satisfy Provision(s):</b>	<b>A1.1</b>	Non-combustible	<b>1.1.1.2</b>	Non-combustible
	<b>C1.9</b>	Non-combustible building elements	<b>3.7.1.3</b>	External walls of Class 1 buildings
	<b>C1.10</b>	Fire hazard properties	<b>3.7.1.8</b>	Separating walls
	<b>C1.14</b>	Ancillary elements		
	<b>Specification F5.2</b>	Sound insulation for building elements	<b>3.8.6.3</b>	General installation requirements for walls
	<b>G5.2</b>	Construction in bushfire prone areas - protection	<b>3.7.4</b>	Bushfire areas

**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](http://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: 27/09/2018**

**Date of expiry: 27/09/2021**



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	J1.2	Thermal construction – general	3.12.1.1	Building fabric thermal insulation
State or territory variation(s):	SA FP1.5		NSW P2.2.3	
	NSW G5.2		SA P2.2.3	
	Qld G5.2		Tas P2.3.3(c)	
	SA G5.3		NSW 3.7.4.0	
	NSW J(A)1		Qld 3.7.4.0	
	NT Section J		SA 3.7.4.0	
	Qld Section J		SA 3.7.4.3	
			Tas 3.7.4.0	
			NSW 3.12	
		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:**

1. The addition of the product to the cavity of a masonry wall will not diminish the performance of the wall under fire.
2. Installation shall be carried out by a Knauf Insulation accredited installer installed in accordance with AS 3999:2015 and the relevant installation guide as specified in section A5.
3. Installation shall be carried out on masonry walls complying with the following requirements:
  - a. Masonry units shall be minimum 90mm width.
  - b. The cavity shall be nominal 50mm width. The minimum width shall be 40mm, with local reduction to 35mm around services or other cavity protrusions as permitted in AS 3700:2018 and AS 4773.2:2015. The maximum cavity width shall be 100mm.
  - c. The requirements of either AS 3700:2018 or AS 4773.1:2015 (Incorporating Amendment No.1) and AS 4773.2:2015 must be maintained.
4. Use is restricted to buildings no greater than 12 m in height.
5. Supafil CarbonPlus must be installed above the DPC level within the cavity.
6. Supafil CarbonPlus shall not be installed in the following locations:
  - a. Below the DPC at ground level.
  - b. Above the DPC or flashing in parapet walls.
  - c. Above the DPC or flashing in window sills.
7. Excludes masonry veneer construction.

**Building classification/s:** Unlimited

## APPENDIX A – PRODUCT TECHNICAL DATA

### A1 Type and intended use of product

Supafil CarbonPlus is a loose fill thermal insulation that is blown-in to the cavity between masonry wall leaves after they are constructed. The product can also be used for acoustic insulation in cavity masonry separating walls.

### A2 Description of product

Supafil CarbonPlus has 58.5% post-consumer recycled glass content. The fibres are unbonded and have a silicone treatment to be water repellent. The product is a non-combustible bulk insulation and complies with AS/NZS 4859.1:2002 (incorporating Amendment No.1).

### A3 Product specification

Specification of Supafil CarbonPlus insulation shall be in accordance with the following documents:

- ▣ Knauf Insulation Earthwool® Product Price List, Ref.: KIAU1115282BR, 2014
- ▣ Knauf Insulation Supafil CarbonPlus Product Datasheet, Ref.: KIAU0314060DS, August 2015

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

### A4 Manufacturer and manufacturing plant(s)

St Helens, PO Box 10, Stafford Road, Merseyside WA 10 3NS, UK

### A5 Installation requirements

Installation shall be carried out in accordance with AS3999:2015 and the Knauf Insulation Supafil CarbonPlus Retro-fit Insulation System Installation Manual, Ref: KIAU1214145BR, January 2015. Installed insulation material shall have a nominal density of 25 kg/m<sup>3</sup>.

### A6 Other relevant technical data

Supafil CarbonPlus has a thermal conductivity of 0.0389 W/mK and resistance (R-value) of 1.285 m<sup>2</sup>K/W for a 50 mm cavity, tested in accordance with AS/NZS 4859.1:2002 (incorporating Amendment No.1). 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, 2, 3, 4, 5, 6, 8, 10 and 11
Volume One C1.9	Volume One A05(a)	Volume One A2.2(a)(iv) – Report issued by a registered testing authority	Items 1, 2, 3, 4, 5, 6, 8, 10 and 11
Volume One C1.10	Volume One A05(a)	Volume One A2.2(a)(iv) – Report issued by a registered testing authority	Item 4
Volume One C1.14	Volume One A05(a)	Volume One A2.2(a)(iv) – Report issued by a registered testing authority	Items 1, 2, 3, 4, 5, 6, 8, 10 and 11
Volume One FP1.4	Volume One A05(a)	Volume One A2.2(a)(iv) – Report issued by a registered testing authority	Item 11
	Volume One A05(a)	Volume One A2.2(a)(vi) – Another form of documentary evidence	Items 7 and 12
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 – installation is above a DPC.	
Volume One Specification FP5.2	Volume One A05(d)	Comparison with the Deemed-to-Satisfy Provisions – 50mm thick glass wool insulation that is installed to a density greater than the minimum specified in Table 2 for two leaves of 110mm clay brick masonry.	
Volume One GP2.1	Volume One A05(a)	Volume One A2.2(a)(iv) – Report issued by a registered testing authority	Items 1, 2, 3, 4, 5, 6, 8, 10 and 11
Volume One G5.2	Volume One A05(a)	Volume One A2.2(a)(iv) – Report issued by a registered testing authority	Items 1, 2, 3, 4, 5, 6, 8, 10 and 11
Volume One J1.2	Volume One A05(a)	Volume One A2.2(a)(iv) – Report issued by a registered testing authority	Item 9
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, 2, 3, 4, 5, 6, 8, 10 and 11
Volume Two P2.2.2	Volume Two 1.0.5(a)	Volume Two 1.2.2(a)(i) – Report issued by a registered testing authority	Item 11
	Volume Two 1.0.5(a)	Volume Two 1.2.2(a)(vi) – Another form of documentary evidence	Items 7 and 12
Volume Two P2.2.3	Volume Two 1.0.5(a)	Volume Two 1.2.2(a)(vi) – Another form of documentary evidence	Item 12
	Volume Two 1.0.5(d)	Comparison with the Deemed-to-Satisfy Provisions – installation is above a DPC.	
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, 2, 3, 4, 5, 6, 8, 10 and 11
Volume Two 3.7.1.3	Volume Two 1.0.5(a)	Volume Two 1.2.2(a)(i) – Report issued by a registered testing authority	Items 1, 2, 3, 4, 5, 6, 8, 10 and 11
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, 2, 3, 4, 5, 6, 8, 10 and 11
Volume Two 3.7.4	Volume Two 1.0.5(a)	Volume Two 1.2.2(a)(i) – Report issued by a registered testing authority	Items 1, 2, 3, 4, 5, 6, 8, 10 and 11
Volume Two 3.8.6.3	Volume Two 1.0.5(d)	Comparison with the Deemed-to-Satisfy Provisions – 50mm thick glass wool insulation that is installed to a density greater than the minimum specified in Table 3.8.6.2 for two leaves of 110mm clay brick masonry.	
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	Item 9

## 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	Bodycote Warringtonfire, UK	Report No. 173781	12/08/2008	BS EN ISO 1182:2002 Fire Test for Non-Combustibility of Building Products Product tested – Perimeter Plus	ilac-MRA via. UKAS – Accreditation Number 0249
2	Bodycote Warringtonfire, UK	Report No. 173782	12/08/2008	BS EN ISO 1716:2002 Determination Of The Heat Of Combustion for Building Products Product tested – Perimeter Plus	ilac-MRA via. UKAS – Accreditation Number 0249
3	Bodycote Warringtonfire, UK	Report No. 173833	15/08/2008	Classification of Reaction to Fire Performance in Accordance with EN 13501-1:2007 Product name – Perimeter Plus	ilac-MRA via. UKAS – Accreditation Number 0249 [European Commission Notified Body Number 0833]
4	AWTA Product Testing	Test Number: 7-565160-CO	12/03/2009	AS/NZS 1530.3-1999 Simultaneous determination of Ignitability, Flame Propagation, Heat Release and Smoke Release Product tested – 50mm Earthwool insulation, 1670 g/m <sup>2</sup>	Accreditation Number 1356
5	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 <sup>3</sup> density	ilac-MRA via. UKAS – Accreditation Number 0249
6	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 <sup>3</sup> density	ilac-MRA via. UKAS – Accreditation Number 0249
7	Knauf Insulation Process and Product Development Department	Test Number: RPT168B	6/11/2012	BBA Rain Penetration Test Report for KI SF34/Carbon+ Glass Mineral Insulation Blown into a 40mm Narrow Cavity	Not applicable
8	Exova Warringtonfire, UK	Document Reference: N964364C	1/11/2013	Determination of Organic Matter in Thermal Insulation Material in Accordance with BS EN 13820-2003 – Supafil Carbon+	ilac-MRA via. UKAS – Accreditation Number 0249
9	BRANZ	Project Number: DI0457 Test Reference: DU01	17/04/2014	Thermal Resistance of Supafil CarbonPlus, 50 mm thickness, nominal 25 kg/m <sup>3</sup> density	ilac-MRA via. IANZ – Accreditation Number 37
10	CSIRO	Assessment Number: FCO-3073 (Revision A)	28/08/2014	Likely fire performance of Knauf Earthwool glass mineral wool insulation	Accreditation Number 165



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Ref	Author	Reference	Date	Description	NATA Registration
11	British Board of Agrément	Agrément Certificate 13/4969	23/03/2016	Supafil – Knauf Insulation Supafil CarbonPlus Cavity Wall Insulation Key factors assessed: thermal properties, water penetration, condensation, behaviour in relation to fire, and durability.	ilac-MRA via. UKAS – Accreditation Number 113
12	Standards Australia	AS 3999:2015	2015	Bulk thermal insulation - Installation	Not applicable