

SUPAFIL® CARBONPLUS (FOR DOUBLE BRICK MASONRY CAVITIES)

September 2024



APPLICATIONS



DESCRIPTION

Supafil® CarbonPlus is designed for installation into existing and new double brick masonry cavities to increase the thermal and acoustic performance of the wall. Supafil® CarbonPlus is an unbonded, non-combustible glasswool product which requires no mixing on site. Supafil® CarbonPlus is specifically designed to be used in existing masonry cavity walls with a minimum cavity width of 40mm. CodeMark™ certification for Supafil® CarbonPlus approves the application and installation procedure for this product. The silicone treatment of the glasswool makes it suitable for use in existing and new masonry cavity walls, subject to the conditions detailed in the CodeMark™ certificate. Supafil® CarbonPlus should only be installed by Approved Installers to ensure the highest quality and installed performance.

PERFORMANCE

Thermal Conductivity	R-1.3 @ 50mm, 25kg/m ³ (AS/NZS 4859.1).
Fire Hazard Properties	Ignitability: 0, Spread of Flame: 0, Heat Evolved: 0, Smoke Developed: 1.
Vapour Resistivity Water vapour resistivity:	5.00 MN. s.g.m.
Microbial Growth	Does not support microbial growth.
Corrosion Resistance	No greater than sterile cotton.
Combustibility	Non-combustible (AS 1530.1).

BENEFITS

- ✓ Maximum thermal performance
- ✓ Maximum acoustic performance
- ✓ Interior and exterior install methods
- ✓ Silicone treated for extra moisture protection
- ✓ Sustainable - each bag contains the equivalent of over 45 recycled glass bottles
- ✓ Fast, easy installation by Approved Installers
- ✓ Declare certified - superior environmental credentials

CERTIFICATION



Please scan the QR Code to view the complete list of certifications on our website.

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SPECIFICATIONS

Material Code	Installed density (kg/m ³)	R-Value (m ² K/W)	Thermal conductivity (W/mK)	Cavity width (mm)	Minimum bag usage rate (bags per 100m ²)
409307	25	1.3	0.039	50	8.0
409307	25	1.9	0.039	75	12.0
409307	25	2.6	0.039	100	16.0

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ADDITIONAL INFORMATION

Specification Guide

The cavity wall insulation shall be Supafil® CarbonPlus, 0.039 W/mK, 25kg/m³, CodeMark™ certified to meet the provisions of the Australian Building Code. The product will be non-combustible, CFC/HCFC free, zero ODP and GWP, silicone treated glasswool insulation with high post-consumer recycled glass content. It will be manufactured under Quality Assurance Standards ISO 9001:2008 and ISO 14001:2004 by Knauf Insulation and shall be installed in accordance with the instructions issued by them.

Specification Compliance

- AS/NZS 4859.1 (2018)
- Non-combustible (AS 1530.1)
- CodeMark certification
- Declare certified.

Durability

- Silicone treated for extra moisture protection
- Non-combustible, non-corrosive
- Will not rot, mildew or deteriorate
- Will not sustain vermin
- Will not settle
- Consistent, reliable performance.
- Performs for the lifetime of the building

Noise reduction

Improves sound transmission class (STC) by between 4 and 10 points.

Energy conservation

Reduces fuel usage and utility bills for heating and air conditioning.

Thermal performance

The stated thermal resistance (R-value) is provided by installing the required density at the thickness (per the manufacturer's instructions).

Supafil® CarbonPlus is designed to be installed at a minimum density of 25kg/m³ and will achieve a thermal conductivity of 0.039W/mK. When installed at various thicknesses Supafil® CarbonPlus will contribute to the thermal requirements for masonry cavity walls and of the Australian Building Code. Supafil® CarbonPlus when installed at the target density and at 50mm thick will contribute R1.3 to the wall system. In standard masonry walls with an overall thickness of 230mm the wall will achieve an estimated R1.9 total system value.

Supafil® CarbonPlus is not designed for mixing with other products, adhesives or binder systems as these may affect the thermal performance and is not recommended by the manufacturer.

Engineered Blow-In insulation system

Supafil® CarbonPlus fills all gaps and voids around service penetrations such as water pipes and electric wiring and any other obstructions or unusual design details, ensuring thermal and acoustic performance is created. Supafil® CarbonPlus allows quicker and more efficient filling of wide cavities where multiple layers of conventional insulation would normally be installed. Supafil® CarbonPlus saves installation time by minimising the steps needed to fully insulate tight corners and hard to reach areas.

Packaging

Supafil® CarbonPlus is packaged in a strong, poly bag that offers excellent protection from abuse, dust and moisture. Knauf Insulation packages stack without slipping and are easy to handle and store.

Australia National Construction Code Series (NCC 2016) Building Code of Australia (BCA)

- CP1/CP2/CP4 and P2.3.1 – Fire Resistance.
- FP1.4 / P2.2 and FP 1.5 / 2.2.3 - Weatherproofing and Dampness.
- FP5.5 / FP5.3 and P2.4.6 – Sound Insulation.
- GP2.1 and P2.3.3 – Heating Appliances.
- JP1 and P2.6.1 – Energy Efficiency.
- Supafil® CarbonPlus thermal resistance has been determined by AS/NZS 4859.1. and will contribute to meeting these requirements.

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