

SUPAFIL® FRAME

June 2020



APPLICATIONS



DESCRIPTION

Supafil® Frame is an unbonded, virgin glasswool insulation designed with optimal thermal properties and excellent coverage and blowing characteristics. Supafil® Frame is especially designed for installation in existing brick veneer cavities and the cavities of buildings with direct fixed cladding. The product is silicone treated to provide the required performance and enhanced durability. Supafil® Frame is a non-combustible glasswool product that requires no mixing on site. Supafil® Frame should only be installed by Approved Installers to ensure the highest quality installed performance.

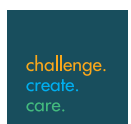
PERFORMANCE

Thermal conductivity	ASTM C518
Fire Hazard Properties	Ignitability: 0, Spread of Flame: 0, Heat Evolved: 0, Smoke Developed: 1.
Vapour Resistivity	5.00 MN. s.g.m.
Microbial Growth	Does not support microbial growth.
Corrosion	No greater than sterile cotton.
Combustibility	Non-combustible (AS 1530.1).

BENEFITS

- ✓ Maximum performance in walls with existing brick veneer and direct fix cladding.
- ✓ Sustainable - each bag contains the equivalent of over 45 recycled glass bottles.
- ✓ Silicone treated for extra moisture protection.
- ✓ Fast, easy installation by Approved Installers.

CERTIFICATION



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ADDITIONAL INFORMATION

Specification Guide

The cavity wall insulation shall be Supafil® Frame 0.039 W/mK (NZ), 0.040 W/mK (AU), at a target density of 25kg/m³. CodeMark™ certified to meet the provisions of the Building Code of New Zealand. 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

- ASTM C518
 - Non-combustible - AS 1530.1
 - CodeMark certification (NZ)
- * CodeMark provided by our Approved Installer Eco Insulation.

Durability

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

Acoustic performance

- Supafil® Frame improves sound transmission class (STC) by between 4 and 10 points.

Thermal performance

Supafil® Frame provides you with low thermal conductivity to achieve high system R-values. The table R-values for material thicknesses used in the insulation of brick veneer and direct fix cladding. The stated thermal resistance (R-value) is provided by installing the required density at the thickness (per the manufacturer's instructions). Supafil® Frame when installed at a minimum density of 25kg/m³. Supafil® Frame will achieve a thermal conductivity of 0.039 W/mK (NZ) and 0.040 W/mK (AU). When installed at various thicknesses Supafil® Frame will achieve R-values that with NZS 4214 are able to meet the minimum requirements of NZS 4218 and the Energy Efficiency requirements of BCA for walls with existing brick veneer and direct fix cladding. Supafil® Frame 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® Frame 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® Frame allows a quick and efficient method of retrofitting insulation into existing cavities and is less intrusive than conventional insulation methods would normally be. Supafil® Frame saves installation time by minimising the steps needed to fully insulate tight corners and hard to reach areas.

Packaging

Supafil® Frame 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.

Installation

- Fast and easy to install with the added confidence of an Approved Installer.
- Easily fills hard to reach areas.
- Easily fills existing cavities.

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ADDITIONAL INFORMATION (CONT.)

Exposure to water or moisture

Insulation does not provide thermal benefit if wet. Glasswool insulation will not sustain mould growth. If the material is wet it should be replaced.

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® Frame thermal resistance has been determined by ASTM C518. and will contribute to meeting these requirements.

* Retrofitting Insulation in Australia is not require to comply with the NCC. If Supafil® Frame is used as part of an extensive renovation it could contribute to the above requirements.

New Zealand Building Code:

- Clause B2 DURABILITY: Performance B2.3.1(a) not less than 50 years and B2,3,1(b) 15 years. Supafil® Frame will meet these requirements.
- Clause E3 INTERNAL MOISTURE: Performance E3.3.1. Supafil® Frame will contribute to meeting this requirement.
- Clause F2 HAZARDOUS BUILDING MATERIALS: Performance F2.3.1. Supafil® Frame meets this requirement and will not present a health hazard to people.
- Clause H1 ENERGY EFFICIENCY: Performance H1.3.1(a) and H1.3.2 E. Supafil® Frame will contribute to meeting these requirements.
- Supafil® Frame thermal resistance has been determined by ASTM C518.

SPECIFICATIONS

Nominal Thickness (mm)	New Zealand R-Value (m ² K/W)
50*	1.3
90*	2.3
100*	2.6
140**	3.6

*Installed at 30kg/m³
**Installed at 25kg/m³

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