

## SUPAFIL CARBON PLUS CAVITY WALL INSULATION

March 2018



### APPLICATIONS



### DESCRIPTION

Supafil CarbonPlus is specifically designed for installation into existing masonry cavity walls with narrow cavities down to 40mm. Supafil CarbonPlus is a silicone treated high performance, non-combustible Glass Mineral Wool for injection into cavity walls only by approved Knauf Insulation contractors.

### PERFORMANCE

#### Thermal

Thermal conductivity: 0.034W/mK declared to lambda 90/90

#### Fire

Classification: EUROCLASS A1 to BS EN 13501-1

#### Vapour resistivity

Water vapour resistivity: 5.00MNs/g.m

### BENEFITS

- ✓ Suitable for 40mm cavities
- ✓ Euroclass A1 non-combustible
- ✓ British Board of Agrément approved
- ✓ Suitable for new-build or retrofit
- ✓ Installed by approved contractors - quick and clean to install
- ✓ Injected after wall constructed, allowing empty cavity to be checked before installation

### SPECIFICATIONS

Typical U-values (W/m<sup>2</sup>K) for masonry cavity walls insulated with Supafil 40 Cavity Wall Insulation

Product	Weight per bale (kg)	Installed density (kg/m <sup>3</sup> )	Thermal conductivity (W/mK)
Supafil CarbonPlus	15.50	min. 25	0.034

All dimensions are nominal

Cavity width (mm)	Declared thermal resistance (m <sup>2</sup> K/W)	Minimum bag usage rate (bags per 100m <sup>2</sup> )
40	1.15	6.45

The usage rate is based on an installed density of 25.00kg/m<sup>3</sup>

### CERTIFICATION



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### ADDITIONAL INFORMATION

#### Certification

British Board of Agrément (BBA) Certificate for Supafil CarbonPlus Cavity Wall Insulation approves the application and installation procedure for this product. The product is for use in existing masonry cavity walls, subject to the conditions detailed in BBA Certificate 13/4969.

#### Standards

Supafil 34 Cavity Wall Insulation is manufactured in accordance with BS EN 14064, ISO 50001 Energy Management Systems, OHSAS 18001 Occupational Health and Safety Management Systems, ISO 14001 Environmental Management Systems, and ISO 9001 Quality Management Systems, as certified by Bureau Veritas.

#### Application

Supafil CarbonPlus Cavity Wall Insulation is specifically designed to be used in existing masonry cavity walls which are deemed hard-to-treat, and filling residual cavities in existing partially filled masonry cavity walls, a minimum cavity width of 40mm is required for both applications.

#### Environmental

Supafil CarbonPlus Cavity Wall Insulation is manufactured using recycled glass, and is compression packed to reduce vehicle movements and fuel related CO<sub>2</sub> emissions. Supafil CarbonPlus Cavity Wall Insulation has an A+ Generic BRE Green Guide rating, has Zero Ozone Depletion Potential and Zero Global Warming Potential.

#### Moisture resistance

Tests by the British Board of Agrément confirm that Supafil® CarbonPlus Cavity Wall Insulation will not transmit water to the inner leaf. Nor will it transmit moisture by capillary action across the cavity or from below damp proof course level. This has been confirmed by independent research conducted for the Energy Saving Trust, which shows that cavity wall insulation does not add to the risk of water penetration.

#### Vapour resistivity

Supafil CarbonPlus Cavity Wall Insulation offers negligible resistance to the passage of water vapour and has a water vapour resistivity of 5.00 MN.s.g.m.

#### Handling and storage

Supafil CarbonPlus Cavity Wall Insulation is supplied in polythene packs which are designed for short term protection only. For longer term protection on site, the product should either be stored indoors, or under cover and off the ground and should not be left permanently exposed to the elements.



Knauf Insulation mineral wool products made with ECOSE Technology® benefit from a no added formaldehyde binder, which is up to 70% less energy intensive than traditional binders and is made from rapidly renewable bio-based materials instead of petroleum-based chemicals. The technology has been developed for Knauf Insulation's glass and rock mineral wool products, enhancing their environmental credentials without affecting the thermal, acoustic or fire performance. Insulation products made with ECOSE Technology® contain no dye or artificial colours.

#### Knauf Insulation Ltd

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