

SUPAFIL 40

March 2018



APPLICATIONS



DESCRIPTION

Supafil 40 cavity wall insulation is a silicone treated non-combustible Glass Mineral Wool for injection into masonry cavity walls by approved Knauf Insulation contractors. The unique characteristics of Supafil 40 enable thermal compliance at a lower density compared to traditional loose glasswool.

PERFORMANCE

Thermal

Thermal conductivity: 0.040W/mK declared to lambda 90/90

Fire

Classification: EUROCLASS A1 to BS EN 13501-1

Vapour resistivity

Water vapour resistivity: 5.00MN/g.m

BENEFITS

- ✓ 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/m²K) for masonry cavity walls insulated with Supafil 40 Cavity Wall Insulation

Brick outer leaf/cavity/100mm block inner leaf type:

Thickness (mm)	Dense block (λ = 1.13)	Medium density block (λ = 0.51)	Lightweight block (λ = 0.34)	Standard aircrete (λ = 0.16)	Lightweight aircrete (λ = 0.11)
100	0.33	0.32	0.31	0.28	0.27
85	0.37	0.36	0.35	0.32	0.30
75	0.41	0.39	0.38	0.35	0.32
65	0.46	0.44	0.42	0.38	0.35
50	0.55	0.52	0.5	0.44	0.41

All dimensions are nominal

CERTIFICATION



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ADDITIONAL INFORMATION

Certification

British Board of Agrément (BBA) Certificate for Supafil® 40 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 88/2033.

Application

Supafil 40 Cavity Wall Insulation is specifically designed to be used in new and existing masonry cavity walls with a minimum cavity width of 50mm.

Environmental

Supafil 40 Cavity Wall Insulation is manufactured using recycled glass, and is compression packed to reduce vehicle movements and fuel related CO₂ emissions. Supafil 40 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 40 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 40 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 40 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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