

SUPAFIL 34 CAVITY WALL INSULATION

January 2020



APPLICATIONS



DESCRIPTION

Supafil 34 is a high performance, non-combustible Blowing Wool, manufactured with a water repellent additive, designed for installation into masonry cavity walls by approved installing technicians. With improved thermal performance, Supafil 34 can help to achieve improved U-Values for higher levels of thermal performance.

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: 5.00MN/g.m

BENEFITS

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

SPECIFICATIONS

TYPICAL U-VALUES

BLOWN-IN (INJECTED) USING SUPAFIL 34

Cavity width thickness (mm)	Minimum bag usage rate ¹ (bags per 100m ²)	U-value (W/m ² K)			
		Medium block (0.45 W/mK)	High strength aircrete (0.19 W/mK)	Standard aircrete (0.15 W/mK)	Lightweight aircrete (0.11 W/mK)
300	48.39	0.11	0.11	0.11	0.10
200	32.26	0.16	0.15	0.15	0.15
150	24.19	0.20	0.19	0.18	0.18
125	20.16	0.23	0.22	0.21	0.20
100	16.13	0.28	0.26	0.25	0.24

Note: The U-values have been calculated assuming that all walls are lined with 12.5mm standard plasterboard on dabs on standard blocks with 10mm mortar joints. Wall ties assumed to be stainless steel at 2.5 per m² with a cross-sectional area of no more than 12.5mm² for structural cavities up to 100mm wide. For cavities greater than 100mm up to 150mm, the cross sectional area of wall ties is assumed to be 24mm². For cavities above 150mm, the cross sectional area of wall ties is assumed to be 60mm². Air gap correction level is zero.

¹Minimum installed density of 25kg/m³. Material weight per pack/bale = 15.5kg

CERTIFICATION



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ADDITIONAL INFORMATION

Certification

The application and installation procedure for Supafil 34 Cavity Wall Insulation is covered by British Board of Agrément Certificate 11/4857.

This product complies with the relevant sections of the:

- Building Regulations (England and Wales)
- Building Standards (Scotland)
- Building Regulations (Northern Ireland)

The BBA Certificate covers the use of Supafil 34 Cavity Wall Insulation in masonry cavity walls with a minimum 90 mm cavity width and up to 12m in height, as detailed within the BBA certificate and may be installed up to 25m subject to a satisfactory inspection of the wall construction and installation approval by Knauf Insulation. Supafil 34 can be installed in any exposure zone.

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.

Environmental

Supafil 34 Cavity Wall Insulation has an A+ Generic BRE Green Guide rating. Supafil 34 Cavity Wall Insulation represents no known threat to the environment and has zero Ozone Depletion Potential and zero Global Warming Potential.

Moisture resistance

Tests by the British Board of Agrément confirm that Supafil 34 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 34 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 34 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. Supafil 34 Cavity Wall Insulation 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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