



Jan 2011

Supafil

For cavity walls

Description

Supafil Cavity Wall Insulation is an unbonded, non-combustible glass mineral wool insulation which requires no mixing on site.

Certification

The British Board of Agrément Certificate for Supafil Cavity Wall Insulation approves the application and installation procedure for this product.

This product complies with the relevant sections of the:

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

The certificate covers use in masonry cavity walls with a minimum 50mm cavity width, up to 25m in height, in any exposure zone.

Performance

Thermal

Supafil Cavity Wall Insulation has a thermal conductivity of 0.037 or 0.040 W/mK.

Fire

Supafil Cavity Wall Insulation is classified as Euroclass A1 to BS EN ISO 13501-1

Benefits

- British Board of Agreement approved
- Suitable for new-build or retrofit
- Quick and clean to install
- Installed by approved contractors
- Low cost
- Injected after wall constructed, allowing empty cavity to be checked before installation



Supafil

Environmental

Supafil Cavity Wall Insulation conserves energy and therefore assists in reducing demand for fuels for the heating and air-conditioning of buildings. As a result, it reduces the emissions of the major greenhouse gas, CO₂. The energy and CO₂ emissions saved by the product in use vastly outweighs those generated in its manufacture. **Supafil's manufacture has a low impact on the environment and is classified as Zero ODP and Zero GWP.**

Moisture resistance

Tests by the British Board of Agrément confirm that Supafil 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 resistance - resistivity

Supafil offers negligible resistance to the passage of water vapour and has a vapour resistivity of 7.00 MN.s.g.m.

Handling and storage

Supafil glass mineral wool blowing 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 should not be left permanently exposed to the elements.

For more information please visit
www.knaufinsulation.co.uk

Supafil

Product	Weight per bale (kg)	Installed density (kg/m ³)	Thermal conductivity (W/mK)
Supafil 37	17.60	18	0.037
Supafil 40	17.60	18	0.040

All dimensions are nominal

Supafil 37

Typical U-values (W/m²K) for masonry cavity walls insulated with Supafil 37 Cavity Wall Insulation

Insulation thickness (mm)	Brick outer leaf/cavity/100mm block inner leaf type:				
	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	0.30	0.29	0.29	0.27	0.25
85	0.35	0.34	0.33	0.30	0.28
75	0.38	0.37	0.36	0.33	0.31
65	0.43	0.41	0.40	0.36	0.34

All dimensions are nominal

Supafil 40

Typical U-values (W/m²K) for masonry cavity walls insulated with Supafil 40 Cavity Wall Insulation

Insulation thickness (mm)	Brick outer leaf/cavity/100mm block inner leaf type:				
	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	0.50	0.44	0.41

All dimensions are nominal

*All U-values calculated with 12.50mm plasterboard (0.210W/mK) on dabs as the internal finish.

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