



June 2009

Supafil™ Cavity Wall Insulation

Description

Supafil™ Cavity Wall Insulation is an unbonded, virgin glass wool blowing insulation with high thermal resistance characteristics for both new masonry walls and also upgrading masonry walls for existing houses.

Product	Weight per bale (kg)	Installed density (kg/m ³)	Thermal conductivity (W/mK)
Supafil™ 37	17.6	18	0.037
Supafil™ 40	17.6	18	0.040

All dimensions are nominal

Performance

Thermal

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

Fire

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

Benefits

- Suitable for new-build or retrofit
- Quick and clean to install
- Low Cost
- Injected after wall constructed, allowing empty cavity to be checked before installation
- Made using recycled glass bottles
- Silicone impregnated to prevent moisture penetration



Supafil™

Certification

The BBA certificate in the United Kingdom for Supafil™ Cavity Wall Insulation approves the product specification, application and installation procedure for this product in severe exposure zones and climate conditions. The certificate covers use in masonry cavity walls with a minimum 50mm cavity width, up to 25m in height, in any exposure zone. Supafil™ cavity wall insulation has been successfully used for over 20 years and has a proven track record in over 5 million homes across the world.

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, they reduce the emissions of the major greenhouse gas, CO₂. The energy and CO₂ emissions saved by the products in use vastly outweigh those generated in their manufacture. Supafil™ manufacture has a low impact on the environment and is classified as Zero ODP and Zero GWP.

Moisture resistance

Tests and certification confirm that Supafil™ Cavity Wall Insulation will not transmit water to the inner leaf. Nor will they transmit moisture by capillary action across the cavity or from below DPC 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™ offers negligible resistance to the passage of water vapour and has a vapour resistivity of 7.00 MN.s.g.m.

Handling and storage

The packaging of Supafil™ Cavity Wall Insulation is designed for short term protection only. For longer term protection on site the products should either be stored indoors, or under cover and off the ground.

For more information please visit
www.knaufinsulation.com.au

Supafil™

Supafil™ 37 Thermal Performance

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=0.016)	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

Supafil™ 40 Thermal Performance

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=0.016)	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

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