



May 2013

## Supafil® 40 Cavity Wall Insulation

### For cavity walls

#### Description

Supafil® 40 Cavity Wall Insulation is an unbonded, non-combustible glass mineral wool insulation which requires no mixing on site.

#### Application

The application and installation procedure for Supafil® 40 Cavity Wall Insulation is covered by British Board of Agrément Certificate 88/2033.

This product complies with the relevant sections of the:

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

Supafil 40 Cavity Wall Insulation in masonry cavity walls with a nominal cavity width not less than 50mm and up to 25 metres in height subject to the conditions within the BBA Certificate. Supafil 40 can be installed in any exposure zone.

#### Standards

Supafil® 40 Cavity Wall Insulation is manufactured in accordance with BS EN 14064-1, EN 16001 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.

#### Performance

##### Thermal

Supafil® 40 Cavity Wall Insulation has a thermal conductivity of 0.040 W/mK.

##### Fire

Supafil® 40 Cavity Wall Insulation is classified as Euroclass A1 to BS EN 13501-1

#### Benefits

- Tried and tested Supafil® technology
- Rigorously tested by the BBA
- Nationwide network of approved installers
- Low environmental impact
- 25 year guarantee
- Installed in any weather



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### Environmental

Supafil® 40 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® 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. Supafil® 40 Cavity Wall Insulation should not be left permanently exposed to the elements.

Typical U-values (W/m<sup>2</sup>K) 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 ( $\lambda = 1.13$ )	Medium density block ( $\lambda = 0.51$ )	Lightweight block ( $\lambda = 0.34$ )	Standard aircrete ( $\lambda = 0.16$ )	Lightweight aircrete ( $\lambda = 0.11$ )
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.

Knauf Insulation mineral wool products made with ECOSE® Technology are more sustainable as they have the added benefit of using a binder which is up to 70% less energy intensive than traditional binders. With ECOSE Technology, rapidly-renewable bio-based materials replace the petroleum-based chemicals and eliminate phenol and formaldehyde from the manufacturing process. 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 – the colour is completely natural.

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For more information please visit  
[www.knaufinsulation.co.uk](http://www.knaufinsulation.co.uk)