

## SUPAFIL FRAME

March 2018



### APPLICATIONS



### DESCRIPTION

Supafil Frame insulation is a silicone treated high performance, non-combustible Glass Mineral Wool for injection in to timber frame walls only by approved Knauf Insulation contractors.

### PERFORMANCE

#### Thermal

Thermal conductivity: 0.033 and 0.038 W/mK dependent on the density required for the application

#### Fire

Classification: EUROCLASS A1 to BS EN 13501-1

#### Vapour resistivity

Water vapour resistivity: 5.00MN/g.m

### BENEFITS

- ✓ Euroclass A1 non-combustible
- ✓ Suitable for timber-frame wall construction
- ✓ Used inconjunction with Supafil Veil to create a cavity
- ✓ Installed by approved contractors - quick and clean to install

### SPECIFICATIONS

Application	Angle range (°)	Thermal conductivity (W/mK)	Density (kg/m <sup>3</sup> )
Enclosed rafter spaces	0 - 25	0.038	19
Enclosed rafter spaces and timber frame stud walls	0 - 90	0.036	23
	0 - 90	0.034	26
	0 - 90	0.033	30

All dimensions are nominal

#### Thermal resistance values for a density of 26kg/m<sup>3</sup>

Thickness (mm)	Thermal resistance (m <sup>2</sup> K/W)	Maximum coverage per bag (m <sup>2</sup> ) Contents of this bag should not cover more than:
90	2.60	6.20
140	4.10	3.98
200	5.85	2.79
300	8.80	1.86

All dimensions are nominal  
Bag net weight - nominal 15.5kg

### CERTIFICATION



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### ADDITIONAL INFORMATION

#### Application

Supafil® Frame is used in both new and existing structures as a Blow-In-Blanket System for closed cavity applications in which ventilation is not required. Blow-in-Blanket® System (BIBS) is a patented process consisting of unbonded glass mineral wool blown in behind Supafil Frame Veil which is a special netting material used in framed applications.

#### Standards

Supafil Frame is manufactured in accordance with BS EN 14064, BS EN 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.

#### Gaps, voids and penetrations

Supafil Frame fills all gaps and voids around service penetrations such as water pipes and any other obstructions or unusual design details, ensuring thermal and acoustic performance is maintained. Supafil Frame allows quicker and more efficient filling of wide cavities where multiple layers of conventional slabs would normally be installed. Supafil Frame saves installation time by minimising the steps needed to fully insulate hard to reach areas.

#### Environmental

Supafil Frame represents no known threat to the environment and has zero Ozone Depletion Potential and zero Global Warming Potential.

#### Vapour resistivity

Supafil Frame offers negligible resistance to the passage of water vapour and has a water vapour resistivity of 5.00MN.s/g.m.

#### Sound insulation

Supafil Frame can improve the sound insulation performance of any construction element into which it is installed.

#### Non-corrosive

Supafil Frame will not accelerate the corrosion of aluminum, steel or copper.

#### Durability

Supafil Frame is odourless, rot proof, non-hygroscopic, does not sustain vermin and will not encourage the growth of fungi, mould or bacteria.

#### Handling and storage

Supafil Frame is supplied in polythene packs which are designed for short term protection only. For longer term protection on site, the product should be stored either indoors, or under cover and off the ground. Supafil Frame 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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