



May 2018

## SteelTherm 41

### For steel frame walls

#### Description

SteelTherm 41 is a low to medium density glass mineral roll providing a thermal conductivity of 0.041 W/m.K.

#### Application

SteelTherm 41 is designed for the thermal insulation of external walls in steel frame constructions. SteelTherm 41 is friction fitted between steel studs and is 600mm wide to suit commonly used stud centres.

#### Standards

SteelTherm 41 is manufactured in accordance with BS EN 13162, OHSAS 18001 Occupational Health and Safety Management Systems, ISO 14001 Environmental Management Systems, and ISO 9001 Quality Management Systems, as certified by Bureau Veritas.

#### Durability

SteelTherm 41 is odourless, rot proof, non-hygroscopic, does not sustain vermin and will not encourage the growth of fungi, mould or bacteria.

### Performance

#### Thermal

SteelTherm 41 has a thermal conductivity of 0.041 W/m.K.

#### Fire

SteelTherm 41 does not exceed 25 Flame Spread, 50 Smoke Developed when tested in accordance with ASTM E84. (FSK)

#### Acoustic

SteelTherm 41 has excellent sound absorption characteristics.

### Benefits

- Designed specifically for steel frame construction
- Easy to handle and install with no gaps between adjacent rolls

## SteelTherm 41

### Certification

SteelTherm 41 are certified under UL 723, DCL Product Conformity, EUCEB for conformity of fibres produced with the requirements of Note Q of the Regulation (EC) No 1272.2008 of EP and EC, EUROFINs Indoor Air Quality Gold, SASO Product Conformity.

### Environmental

SteelTherm 41 represents no known threat to the environment and has zero Ozone Depletion Potential and zero Global Warming Potential.

### Water Vapor Permeance

SteelTherm 41 (FSK) have a maximum water vapor permeance of 0.02 perms as per ASTM E96, Procedure A.

### Handling and storage

SteelTherm 41 is easy to handle and install, being lightweight and easily cut to size, where necessary. It is supplied enclosed in polythene which is 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. SteelTherm 41 should not be left permanently exposed to the elements.

Facing	Thickness	Length	Width	Area per pack	Thermal Conductivity	R Value	Density	No.Rolls
	(mm)	(m)	(mm)	(m <sup>2</sup> )	(W/m.K)	(m <sup>2</sup> .K/W)	(kg/m <sup>3</sup> )	in pack
FSK	100	10	1200	12	0.041	2.44	12	1
FSK	50	20	1200	24	0.041	1.22	12	1

*All dimensions are nominal*

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.

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