



May 2009

## FrameTherm Roll and Slab

### For timber frames

#### Description

FrameTherm Roll and Slab consists of resilient non-combustible glass mineral wool, supplied at 570mm wide to suit commonly used timber stud centres.

| Thickness<br>(mm)         | Thermal conductivity<br>(W/mK) | Thermal resistance<br>(m <sup>2</sup> K/W) | Length<br>(m) | Width<br>(mm) | Area per pack<br>(m <sup>2</sup> ) |
|---------------------------|--------------------------------|--|---------------|---------------|------------------------------------|
| <b>FrameTherm Roll 40</b> |                                |  |               |               |                                    |
| 140                       | 0.040                          | 3.50                                       | 5.95          | 2x570         | 6.78                               |
| 90                        | 0.040                          | 2.25                                       | 9.60          | 2x570         | 10.94                              |
| <b>FrameTherm Roll 35</b> |                                |  |               |               |                                    |
| 140                       | 0.035                          | 4.00                                       | 3.90          | 2x570         | 4.45                               |
| 90                        | 0.035                          | 2.55                                       | 6.00          | 2x570         | 6.84                               |
| <b>FrameTherm Roll 32</b> |                                |  |               |               |                                    |
| 90                        | 0.032                          | 2.80                                       | 4.50          | 2x570         | 5.13                               |

All dimensions are nominal

#### Performance

##### Thermal

FrameTherm Roll and Slabs are produced in a range of five thermal conductivities from 0.032 to 0.043 W/mK.

##### Fire

FrameTherm Roll and Slabs are classified as Euroclass A1 to BS EN ISO 13501-1.

##### Acoustics

FrameTherm Roll and Slabs have excellent sound absorption characteristics.

#### Benefits

- Range of thermal performances
- Sized to friction fit between studs at 600mm centres
- Easy to handle and install with no gaps between adjacent rolls or slabs

## FrameTherm Roll and Slab

### Application

FrameTherm Roll and Slab are for the thermal insulation of external walls and warm roofs in timber frame construction, they are friction fitted between studs and rafters. FrameTherm Roll and Slab can also be used for acoustic insulation in timber framed separating walls.

### Standards

FrameTherm Roll and Slab are non-combustible glass mineral wool, defined as mineral wool in BS 3533: 1981 and are manufactured in accordance with BSI Quality Assurance Standard BS EN ISO 9001: 2000, and Product Standard EN 13162.

### Durability

FrameTherm Roll and Slab are odourless, rot proof, non-hygroscopic, do not sustain vermin and will not encourage the growth of fungi, mould or bacteria.

### Vapour resistance - resistivity

FrameTherm Roll and Slab offer negligible resistance to the passage of water vapour and have a vapour resistivity of 7.00 MN.s.g.m.

### Environmental

FrameTherm Roll and Slab are free from CFCs, HCFCs and any other material with ozone depletion potential in their manufacture and content and represent no known threat to the environment. **FrameTherm Roll and Slab's manufacture has a low impact on the environment and is classified as Zero ODP and Zero GWP.**

### Handling and storage

FrameTherm Roll and Slab are easy to handle and install, being lightweight and easily cut to size, where necessary. Both are 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. Installation instructions are on every pack. FrameTherm Roll and Slab should not be left permanently exposed to the elements.

| Thickness<br>(mm)         | Thermal conductivity<br>(W/mK) | Thermal resistance<br>(m <sup>2</sup> K/W) | Length<br>(mm) | Width<br>(mm) | Area per pack<br>(m <sup>2</sup> ) | Slabs per pack |
|---------------------------|--------------------------------|--|----------------|---------------|------------------------------------|----------------|
| <b>FrameTherm Slab 43</b> |                                |  |                |               |                                    |                |
| 140                       | 0.043                          | 3.25                                       | 1170           | 570           | 6.67                               | 10             |
| 90                        | 0.043                          | 2.10                                       | 1170           | 570           | 9.34                               | 14             |
| <b>FrameTherm Slab 38</b> |                                |  |                |               |                                    |                |
| 140                       | 0.038                          | 3.65                                       | 1170           | 570           | 5.34                               | 8              |
| 90                        | 0.038                          | 2.35                                       | 1170           | 570           | 9.34                               | 14             |
| <b>FrameTherm Slab 35</b> |                                |  |                |               |                                    |                |
| 140                       | 0.035                          | 4.00                                       | 1170           | 570           | 4.00                               | 6              |
| 90                        | 0.035                          | 2.55                                       | 1170           | 570           | 5.34                               | 8              |
| <b>FrameTherm Slab 32</b> |                                |  |                |               |                                    |                |
| 90                        | 0.032                          | 2.80                                       | 1170           | 570           | 4.00                               | 6              |
| 50                        | 0.032                          | 1.55                                       | 1170           | 570           | 6.67                               | 10             |

All dimensions are nominal

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Knauf Insulation mineral wool products with ECOSE® Technology benefit from a formaldehyde-free binder made from rapidly renewable bio-based materials instead of petroleum-based chemicals which is up to 70% less energy intensive. 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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[www.knaufinsulation.co.uk](http://www.knaufinsulation.co.uk)