



Kooltherm® K12 Framing Board

PREMIUM PERFORMANCE INSULATION FOR TIMBER AND STEEL FRAMING SYSTEMS



- Premium performance rigid thermoset insulation – thermal conductivities as low as 0,020 W/m-K
- Can be used between studs or as an insulating sheathing
- Suitable for use with timber frame and steel frame wall construction
- Unaffected by air infiltration
- Resistant to the passage of water vapour
- Easy to handle and install
- Ideal for new build and refurbishment
- Non-deleterious material
- Manufactured with a blowing agent that has zero ODP and low GWP



*Low Energy –
Low Carbon Buildings*

Kooltherm® K12 Framing Board

Description

Kingspan Kooltherm® K12 Framing Board comprises a premium performance rigid thermoset modified resin fibre free insulation core, faced on both sides with a low emissivity composite foil based facing, autohesively bonded to the insulation core during manufacture. This reflective, low emissivity surface improves the thermal resistance of any unventilated cavity adjacent to the board.

General

Resistance to Solvents, Fungi & Rodents

The insulation core is resistant to short-term contact with petrol and with most dilute acids, alkalis and mineral oils. However, it is recommended that any spills be cleaned off fully before the boards are installed. Ensure that safe methods of cleaning are used, as recommended by suppliers of the spill liquid. The insulation core is not resistant to some solvent-based adhesive systems, particularly those containing methyl ethyl ketone. Adhesives containing such solvents should not be used in association with this product. Damaged boards or boards that have been in contact with harsh solvents or acids should not be used.

Cutting

Cutting should be carried out by using a fine toothed saw. Ensure accurate trimming to achieve close-butting joints and continuity of insulation.

Daily Working Practice

At the completion of each day's work, or whenever work is interrupted for extended periods of time, the surface of all boards should be covered in order to provide protection from inclement weather.

Packaging and Storage

The polyethylene packaging of Kingspan Insulation products, which is recyclable, should not be considered adequate for outdoor protection. Ideally, boards should be stored inside a building. If, however, outside storage cannot be avoided, then the boards should be stacked clear of the ground and covered with an opaque polythene sheet or weatherproof tarpaulin. Boards that have been allowed to get wet should not be used.

Health and Safety

Kingspan Insulation products are chemically inert and safe to use. A Safety Information Data Sheet for this product is available from the Kingspan Insulation website.

Please note that the reflective surfaces on this product are designed to enhance its thermal performance. As such they will reflect light as well as heat, including ultraviolet light. Therefore, if this product is being installed during very bright or sunny weather, it is advisable to wear UV protective sunglasses or goggles, and if the skin is exposed for a significant period of time, to protect the bare skin with a UV block sun cream.

The reflective facings on this product can be slippery when wet. Therefore it is recommended that any excess material should be contained to avoid a slip hazard.

Warning – do not stand on or otherwise support your weight on this product unless it is fully supported by a load bearing surface.

Product Data

Property	Result
General	
Product Thickness	Refer to local distributor for current stock and non-stock sizes
Board Length (mm)	1200
Board Width (mm)	600 or 3000
Density	ca. 35 kg/m ²
Compressive Strength @ 10% compression (EN 826)	≥ 100 kPa
Dimensional Stability 48 Hours (EN 1604)	≤ 1,5% (70°C & 90% RH – length & breadth) ≤ 1,5% (70°C – length & breadth) ≤ 3,0% (70°C – thickness)
Diffusion Resistance Factor (μ)	38
Closed cells	min. 90%
Thermal	
Thermal Conductivity (EN 13166)	0,021 W/m·K (thickness < 45 mm) 0,020 W/m·K (thickness 45-120 mm) 0,021 W/m·K (thickness > 120 mm)
Fire & Smoke	
Reaction to Fire (EN 13501-1)	F (untested 'as placed on the market') B-s1, d0 (in application)

Standards & Approvals

Kingspan Kooltherm® K12 Framing Board is manufactured to the highest standards and has CE marking.



Kingspan Insulation B.V.

Lorentzstraat 1, 7102 JH, Winterswijk, Netherlands
P.O. Box 198, 7100 AD Winterswijk, Netherlands
Tel: +31 (0) 543 543 210 Fax: +31 (0) 344 675 215
email: info@kingspaninsulation.eu

Technical Advice

Tel: +31 (0) 344 675 224
email: techline@kingspaninsulation.eu
www.kingspaninsulation.eu

Export countries from the Netherlands comprise all European countries (including all of the Russian Federation, Ukraine and Belarus) except for Benelux, the UK, Ireland, Gibraltar, Malta, the Nordics, Germany, France, Poland, the Czech Republic and Slovakia.

© Kingspan, Kooltherm and the Lion Device are Registered Trademarks of the Kingspan Group plc in the EU and other countries. All rights reserved.