

# Kooltherm® K12 Framing Board

INSULATION FOR TIMBER AND STEEL FRAMING SYSTEMS



- Premium performance rigid thermoset insulation – thermal conductivities as low as 0,021 W/m·K
- 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 insulation core, faced on both sides with a low emissivity composite foil facing, autohesively bonded to the insulation core during manufacture.

## 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 spilt 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
<b>General</b>	
Product Thickness	Refer to local distributor for current stock and non-stock sizes
Board Length (mm)	1200
Board Width (mm)	600 / 3000
Compressive Strength (EN 826: 1996)	Typically exceeds 100 kPa @ 10% compression
Dimensional Stability (EN 1604: 2007) 48 Hours	≤ 1,5% (70°C & 90% RH – length & breadth) ≤ 1,5% (70°C – length & breadth) ≤ 3,0% (70°C – thickness)
Diffusion Resistance Factor	38 μ
<b>Thermal</b>	
Thermal Conductivity (EN 13166: 2008)	0,022 W/m·K (thickness 20–44 mm) 0,021 W/m·K (thickness ≥ 45 mm)
<b>Fire &amp; Smoke</b>	
Reaction to Fire (EN 13501-1: 2007)	F (untested 'as placed on the market') B <sub>s1d0</sub> (when tested 'in application')

## Standards & Approvals

Kingspan Kooltherm® K12 Framing Board is manufactured to the highest standards under a management system certified to NEN EN ISO 9001: 2008 (Kwaliteitsmanagementsystemen - Eisen).



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