

Insulation



Kooltherm™ K12 Framing Board

Insulation for Timber and Steel Framing System



- Premium performance rigid thermoset phenolic 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 or refurbishment
- Non-deleterious material
- Manufactured with a blowing agent that has zero ODP (contains no CFCs and HCFCs) and GWP ≤ 5

Fibre-free
Core



Kingspan®

Product Information

Product Description

Kingspan Kooltherm™ K12 Framing Board comprises a premium performance fibre-free rigid thermoset phenolic insulation core, faced on both sides with a composite foil, autohesively bonded to the insulation core during manufacture.

General

Resistance to Solvents, Fungi & Rodent

- 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 the 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 either by using a fine toothed saw, or by scoring with a sharp knife, snapping the board over a straight edge and then cutting the facing on the other side. 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, board edges and joints should be protected 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.

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

Standards and Approval

Kingspan Kooltherm™ K12 Framing Board is manufactured to the highest standards under a management system certified to ISO 9001: 2015 (Quality management systems. Requirements), ISO 14001: 2015 (Environmental Management Systems. Requirements), BS / I.S OHSAS 18001: 2007 (Health and Safety Management Systems. Requirements), and ISO 50001:2011 (Energy Management System. Requirements with guidance for use).

Kingspan Kooltherm™ K12 Framing Board is used as an integral component of several BBA / NSAI Agrément Certified rendered external wall insulation systems. For further details of BBA / NSAI Agrément Certification please contact the Kingspan Insulation Technical Service Department.

Technical Specifications

Property	Result
General	
Product Thickness	Refer to local distributor for current stock and non-stock sizes
Board Length (mm)	2400
Board Width (mm)	1200
Compressive Strength (BS EN 13166: 2008)	Typically exceeds 100 kPa @ 10% compression
Water Vapour Resistivity (BS EN 12086: 1997)	> 100 MN.s/g.m
Thermal	
Thermal Conductivity (BS EN 13166: 2008)	0.023 W/m.K (thickness 15–24 mm) 0.021 W/m.K (thickness 25–44 mm) 0.020 W/m.K (thickness ≥ 45 mm)

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