

Kooltherm® K5 External Wall Board

INSULATION FOR USE BEHIND TRADITIONAL AND LIGHTWEIGHT POLYMER MODIFIED RENDERS



- Super high performance rigid thermoset modified resin insulation
- Fibre-free insulation core
- Suitable for use behind traditional and lightweight polymer modified renders
- Transforms and upgrades the appearance of existing buildings
- Resistant to the passage of water vapour
- Easy to handle and install
- Ideal for new build and refurbishment
- CFC/HCFC-free with zero Ozone Depletion Potential (ODP)
- Compliant with AS/NZS 4859.1:2002



*Low Energy –
Low Carbon Buildings*

Kooltherm® K5 External Wall Board

Product Description

Kingspan Kooltherm® K5 External Wall Board is a super high performance, fibre-free rigid thermoset modified resin insulation core, sandwiched between two layers of tissue based facing autohesively bonded to the insulation core during manufacture.

Kingspan Kooltherm® K5 External Wall Board is manufactured without the use of CFCs/HCFCs and has zero Ozone Depletion Potential (ODP).



Product Data

Board Dimensions	1200 mm x 600 mm (0.72 m ²)
Board Thickness	20, 25, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75, 80 mm
Typical Density	40 kg/m ³
Typical Weight	0.6 kg - 2.3 kg per board depending on thickness

Thermal Performance

The figures below are only for a selection of product thicknesses. Please contact the Kingspan Insulation Technical Services Department for calculations on product thicknesses not listed here.

Insulation Thickness	Product R-value	Total R-value			
		150 mm concrete wall		Masonry Block Wall	
		Heat Flow In	Heat Flow Out	Heat Flow In	Heat Flow Out
50 mm	R2.5	R _t 2.8	R _t 2.8	R _t 2.8	R _t 2.8
60 mm	R3.0	R _t 3.3	R _t 3.3	R _t 3.3	R _t 3.3
70 mm	R3.5	R _t 3.8	R _t 3.8	R _t 3.8	R _t 3.8
80 mm	R4.0	R _t 4.3	R _t 4.3	R _t 4.3	R _t 4.3

The R-values shown are Total R-values for the building element as required by the Energy Provisions of the Building Code of Australia. Kingspan Kooltherm® products are manufactured, tested and packaged in conformance with AS/NZS 4859.1:2002 - Amdt 1. The contribution of the product Total R-values depends on installation and environmental conditions. The R-value will be reduced in the event of the accumulation of dust on the upward facing surfaces and in those cavities that are ventilated.

Fire Performance

Test	Test Method	Result
Ignitability		
Flame spread	AS 1530.3	Pass
Heat release		
Smoke release		
Group Classification	AS/NZS 3837	Group 1
Surface Spread of Flame	BS476 (Parts 6 & 7)	Class 0



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