



Kingspan Insulation

PRODUCT SNAPSHOT



*Low Energy –
Low Carbon Buildings*

Welcome to Kingspan Insulation

The Kingspan Group

Kingspan Insulation is a Division of Kingspan Group plc, one of Europe's fastest growing building materials manufacturers. Kingspan Group was formed in the late 1960's and is a publicly quoted group of companies with its headquarters in Kingscourt, County Cavan, Ireland. Kingspan Insulation is consequently able to draw on the many resources and support of a focused, innovative group.

Kingspan Group has manufacturing, distribution and commercial operations throughout Europe, North America, Australasia and other locations across the globe.



About us

Kingspan Insulation is a market leading manufacturer of innovative ultra-thin flexible insulation products and super high performance rigid insulation products for building fabric and building services applications. Kingspan Insulation is committed to providing the world market with high quality, innovative products supported by technical expertise and customer service which is unsurpassed in the industry.

Kingspan Insulation has a vast product range including super high performance rigid **Kooltherm**[™] insulation; flexible fibre-free reflective insulation **AIR-CELL**[™]; high performance rigid **Therma**[™] insulation; and high performance rigid extruded polystyrene insulation.

The extensive range of products is suitable for a variety of applications including:

- pitched roofs;
- flat roofs;

- tapered roofing systems;
- cavity walls;
- solid walls;
- insulated dry lining;
- timber and steel framing;
- externally insulated cladding systems;
- externally insulated render systems;
- floors;
- soffits; and ductwork in building services applications.

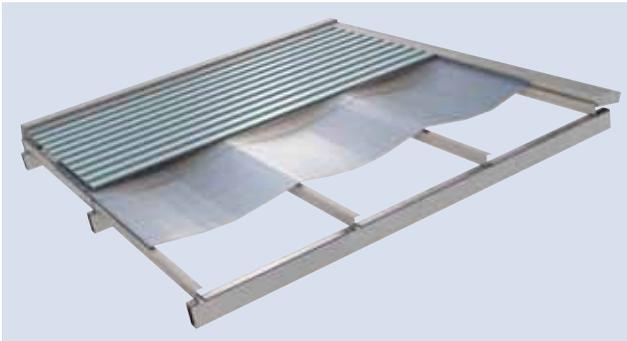
Manufacturing excellence, first class customer service and unrivalled expertise in meeting the needs of the market are just some of the many strengths that Kingspan Insulation offers to designers, engineers and contractors.

Our Products

AIR-CELL Insulbreak™ FR

Kingspan AIR-CELL Insulbreak™ FR is an all-in-one insulation, vapour barrier and radiant barrier solution reflecting up to 97% of radiant heat. The 8 mm thick *Kingspan AIR-CELL Insulbreak™ 80FR* also acts as a thermal break, which significantly reduces conductive heat transfer, or thermal bridging, across steel building elements.

Kingspan AIR-CELL Insulbreak™ FR is manufactured with a patented cross-linked, closed-cell foam structure sandwiched by highly reflective foil surfaces.



Therma™ TR26 LPC/FM

Kingspan Therma™ TR26 LPC/FM is a high performance fibre-free rigid thermoset polyisocyanurate (PIR) insulation core, manufactured with Nilflam™ technology, faced on both sides with a low emissivity composite foil autohesively bonded to the insulation core during manufacture.

Kingspan Therma™ TR27 LPC/FM is a high performance fibre-free rigid thermoset polyisocyanurate (PIR) insulation core, manufactured with Nilflam™ technology, faced on both sides with a coated glass tissue autohesively bonded to the insulation core during manufacture.

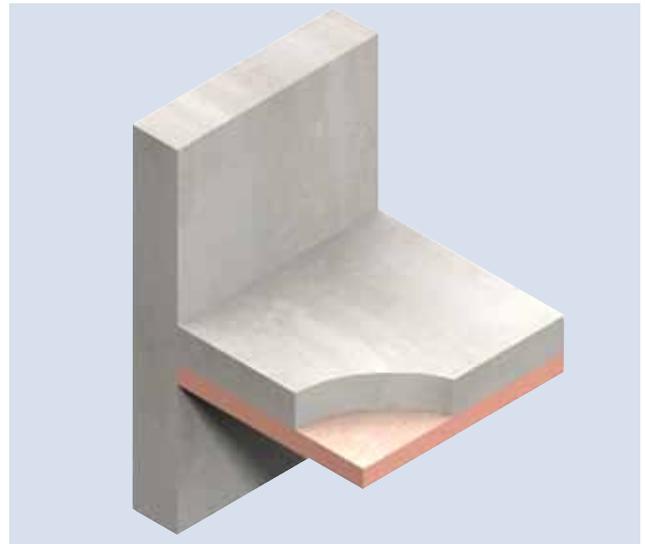
Kingspan Therma™ products are manufactured without the use of CFCs/HCFCs and have zero Ozone Depletion Potential (ODP).



Kooltherm™ K10 FM Soffit Board

Kingspan Kooltherm™ K10 FM Soffit Board is a super high performance, fibre-free rigid thermoset phenolic insulation core, sandwiched between an upper tissue-based facing and a lower facing of highly reflective aluminium foil autohesively bonded to the insulation core during manufacture.

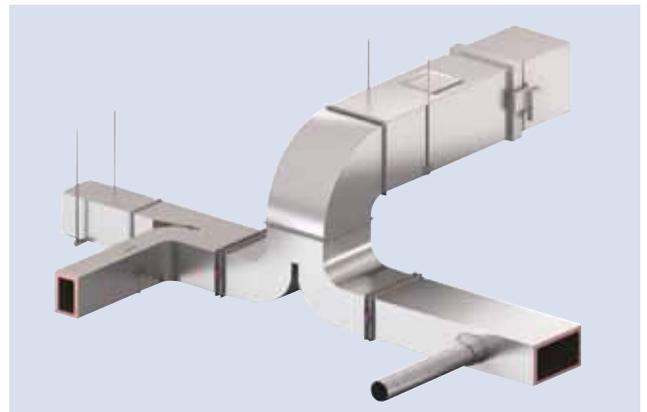
Kingspan Kooltherm™ K10 FM Soffit Board is manufactured without the use of CFCs/HCFCs and has zero Ozone Depletion Potential (ODP) and low Global Warming Potential (GWP).



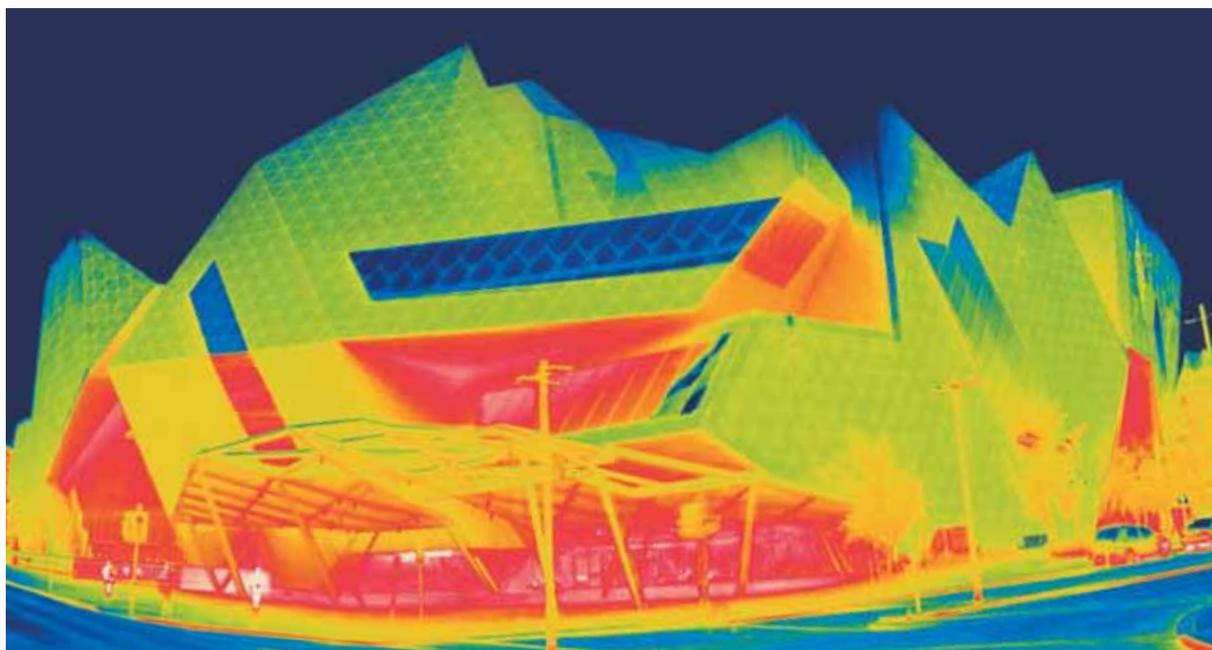
KoolDuct™ System

Kingspan KoolDuct™ System is an advanced and innovative pre-insulated rectangular HVAC ductwork system, which is installed in a single-fix.

The *Kingspan KoolDuct™ System* eliminates virtually all of the problems associated with galvanised sheet steel, mineral fibre duct board and pre-insulated rigid polyisocyanurate (PIR) ductwork systems whilst, at the same time, offering additional advantages to the specifying engineer, the architect, the M&E contractor, the fabricator, the facilities manager, the property developer and the building owner.



The Importance of Insulation and Energy Efficiency



Why insulate?

Insulation is one of those ubiquitous items that is always around, always impinging on our work, social and domestic activities and yet for most of the time hardly noticed. Insulation is a passive product. Once installed it works efficiently, quietly and continually, usually out of sight, enclosed within a structure, a casing or under cladding.

Insulation comes to the fore when the design of buildings, plant, equipment or production processes is being considered. It is at this stage that the right specification must be made. Specifying the wrong thickness or type of insulation and incorrect detailing will prove costly to rectify at a later date.

Poorly performing or inadequate insulation means more energy is needed to heat and cool a building, therefore wasting energy and resulting in higher CO₂ and other greenhouse gas emissions. Research has shown that better building insulation is an easy and effective way of tackling the issue.

By the adoption of better insulation, CO₂ emissions can be significantly reduced and enormous financial savings made for the client and the nation as a whole.

As a responsible leading manufacturer, Kingspan Insulation is committed to energy efficiency and prides itself on producing quality insulation products that will perform as specified over the lifetime of the building.

New challenges call for new ways of thinking

Heating and cooling can account for up to 40% of a building's energy use, and with both regulatory and voluntary pushes to improve energy efficiency, we're faced with new challenges in design, performance, health and overall sustainability.

Conventional ways of insulating building envelopes simply aren't enough anymore. That's why Kingspan Insulation has developed insulation products and systems that overcome some important challenges in energy efficiency and future-proofing our buildings - issues such as wall thickness, condensation and thermal bridging.

Superior service for superior thermal performance

There are two components to effective insulation: choosing the right product and determining how and where it should be installed. To ensure you get both parts spot on, Kingspan Insulation partners with you every step of the way.

Your Kingspan Technical Services Consultant will tailor design a solution to the specific thermal, condensation and design challenges of your building. Naturally, we make sure it complies with the relevant codes and standards.

At this stage, we also give you the option of a customised Thermal Performance Calculation (TPC) for your particular roof, wall or underfloor profile. This report helps streamline your project documentation by detailing your precise thermal requirement.

Our Technical Services team can also offer customised condensation risk advice for your projects, so you always get the right advice for the right application.

Kingspan Insulation's Global Reach



- 5 Business Divisions
- 10,000+ Employees Globally
- 101 Manufacturing Facilities
- 1 Global Innovation Centre (Ireland)
- 13 Regional R & D Centres (Worldwide)

World Leading Manufacturing Plant

Kingspan Insulation's world leading manufacturing plant at Somerton, in Melbourne's north is the Kingspan Group's most innovative and energy efficient facility yet.

The 14,000 square meter facility is the first fourth-generation **Kooltherm**[™] manufacturing site in the world, using the group's latest technical innovations in its manufacturing processes.

Kingspan Insulation Australasia is Australia's leading supplier of high performance insulation and now has the capability to supply insulation products throughout the Asia Pacific region and New Zealand.

Kingspan places a high priority on net zero energy manufacturing and aims to meet the energy requirements of its 100-plus manufacturing sites around the world through renewable energy by 2020. It currently meets approximately 60 per cent of energy requirements.

The Kingspan Insulation plant at Somerton is on track to be Australia's first 5-star Green Star rated manufacturing facility.



Contact Details

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Kingspan Insulation Pty. Ltd. reserves the right to amend product specifications without prior notice. The information, technical details and fixing instructions etc. included in this literature are given in good faith and apply to uses described. Recommendations for use should be verified as to the suitability and compliance with actual requirements, specifications and any applicable laws and regulations. For other applications or conditions of use, Kingspan Insulation offers a Technical Advisory Service the advice of which should be sought for uses of Kingspan Insulation products that are not specifically described herein. Please check that your copy of the literature is current by contacting us or visiting www.kingspaninsulation.asia



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