



Kingspan Global

The Group's business model is to focus on higher growth and energy sensitive segments of the worldwide building industry. Innovation is the key to growth and Kingspan is aware of the importance of research and development to support market leading results. The core energy conservation qualities of many of the Group's products demonstrate Kingspan's ability to relentlessly convert specifiers and end-users from traditional and less effective materials towards more modern solutions.

Kingspan have manufacturing, distribution and commercial operations throughout Europe, USA, Australia, New Zealand and the Far East with 2008 sales in excess of €1.6bn.



Europe • UK Switzerland Croatia Bosnia Herzegovina Ireland Norway France Sweden Serbia Spain Bulgaria Finland • Belgium Poland Ukraine Italy • Czech Republic Lithuania Germany Slovakia Estonia Austria Latvia Hungary Netherlands Romania Slovenia Denmark India Pune China Hong Kong Australia Sydney **New Zealand** Christchurch Middle East Turkey Egypt Azerbaijan Jordan UAE Qatar Bahrain Oman

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Kingspan

EnergiSolutions

The enormity of climate change, and its accelerating implications, continues to gain much greater exposure than at any stage in the past. With that comes a very evident shift in demand for all solutions that will contribute to an easing of these pressures over the medium to long term.

Combine this with decreasing reserves of fossil fuels, increasing reliance on distant suppliers, uncertainty of supply and spiralling energy costs, it is more important than ever before to provide energy efficient buildings.

Kingspan delivers low energy consumption buildings across all sectors of the property market with high performance insulation and renewable solutions that save up to 44% of heating energy usage.



"energy security"

With increasing reliance on distant providers, uncertainty of supply and spiralling energy costs, Kingspan provide energy independent buildings and security from third party suppliers.





Insulated Panels

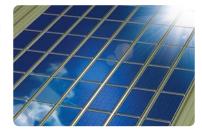
INSULATED ROOF PANEL SYSTEMS

Kingspan's innovative, high performance insulated roof panel and renewable energy systems provide optimised, energy-saving and low carbon buildings. The combination of sustainable, **FIRE** building envelope insulation systems with integrated renewable technologies, offers property owners and investors a choice of future-proofed investment options, ranging from current regulation compliance through to environmental zero carbon buildings.

Kingspan PowerPanel

Provides an integrated building fabric and state-of-the-art solar PV array solution.

The Kingspan PowerPanel product range includes roof and wall mounted modules, building integrated modules and laminates.





Yealands Estate Winery, New Zealand



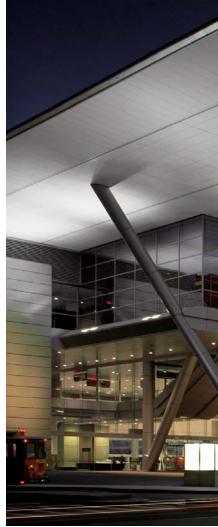
Sainsburys Distribution Centre, Waltham Cross, UK

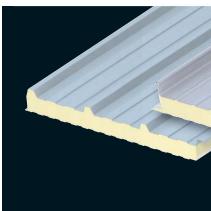
Kingspan systems are manufactured to provide superior build quality with rapid and safer on-site assembly. For additional safety, Kingspan Saferidge® fall arrest systems provide effective and unobtrusive working at height solutions for new build, refurbishment and retrofit roofs.

Leaders in insulated roof systems for industrial, distribution, commercial, leisure, healthcare, education, business and technology parks and retail buildings.

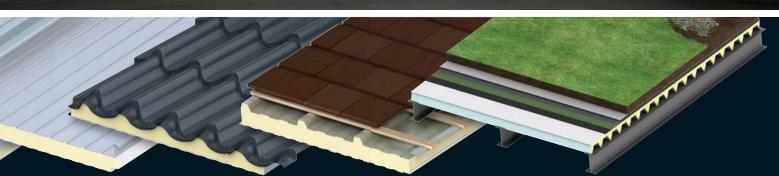
Kingspan's Total Guarantee covers all the key performance areas of its insulated panels, including thermal, structural and coating performance, in a single comprehensive package.















Insulated Panels

INSULATED WALL AND FAÇADE PANEL SYSTEMS

Kingspan are global leaders in the innovation, design, manufacture and supply the widest range of sustainable and high performance, FIRESAGE insulated wall panel systems. These systems are key to achieving lifetime energy efficient, low carbon buildings, and are supported by the Total Guarantee Assurance scheme.

This range offers designers and specifiers architectural choice through many combinations of profiles, textures, finishes and colours.



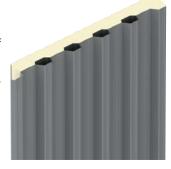


Rosada Factory Outlet, Roosendaal, Netherlands



Kingston Hockey Arena, Ontario, Canada

Kingspan EnergiPanel: an innovative insulated solar air heating system designed for roof and wall applications to supplement the main heating system which can result in >20% energy reduction. **FIRE** technology built-in for property and business risk protection.





"Kingspan EnergiSolutions"
Kingspan insulated products provide high
performance energy saving solutions that
help protect the planet from the effects of
climate change.



Controlled Environments

INSULATED ROOF, WALL AND CEILING SYSTEMS

Controlled Environment panel systems are designed specifically for use within temperature controlled and hygiene safe environments such as, food processing, deep freeze, cold / chill store and clean rooms for bio-technology and pharmaceutical industries. These **FIRE**, hygienic and fibre-free insulated panel systems are suitable for internal and external walls, roofs and ceilings, including internal 'box within a box' applications, and offer all the usual benefits of Kingspan's insulated panel systems.



Kingspan systems provide superior build quality with rapid and safer on-site assembly, thereby allowing earlier project handover and income stream.















Sectors: Residential, Commercial, Education, Healthcare and Leisure

Structural Façades

KINGSPAN METRO BUILDING SYSTEM

The Kingspan Metro Building System is an off-site manufactured loadbearing 'core and shell' construction solution consisting of unitised frame assemblies for external and internal walls, intermediate floor cassettes and timber or steel roof trusses.

The system is a proven, superior quality, affordable and environmentally sustainable construction method with the additional benefit of zero site waste. Metro is a fully tested, accredited system and can easily integrate with any façade including traditional masonry, rainscreens or curtain wall systems. Metro incorporates building services routings for water, heating / cooling, wire and cable management.



Luxury Apartments, Skyline Central, Manchester, UK



KINGSPAN ARCHITECTURAL FAÇADE SYSTEM

Kingspan Architectural Façade Systems provide an extensive palette of façade combinations through a wide array of external materials, finishes, colours and textures. This range of options makes it possible for designers to develop imaginative aesthetic concepts which enhance the built environment.



Architectural Façade systems are suitable for application onto steel or concrete framed buildings, up to any storey height, and are unitised off-site manufactured panellised systems, fixed directly to the building structure.

The systems are fully tested and accredited with zero on site waste.



Structural

PURLIN, RAIL, CHANNEL AND FLOOR DECKING SYSTEMS

The **Multibeam** and **Multichannel** secondary steelwork range of roof purlins, side rails and channel framing sections are widely used on steel and concrete framed buildings as supporting elements for the building envelope.

The **Multideck** range of structurally efficient profiled, galvanised steel floor decks are used for the construction of composite concrete intermediate floors.



Canary Wharf, London, UK











Multideck 50 profiled steel floordeck installation, Meadowhall Shopping Centre, Sheffield, UK



Insulated Door Panels and Accessories

Kingspan manufacture a comprehensive range of high quality insulated sectional door panels and accessories for both residential and non-residential building applications.

These components are incorporated into completed sectional door assemblies through approved partner organisations, who provide a complete supply, installation and aftercare service package.







Industrial door

Residential door

Industrial door





FingerSafe joint detail



Al Barari Residential Villa Complex, Dubai









High Performance Insulation Boards

ROOFS, WALLS AND FLOORS

Kingspan Insulation is a market leading manufacturer of premium and high performance rigid insulation products and insulated systems for building fabric applications. Kingspan Insulation has a vast product range including premium performance rigid phenolic insulation; high performance rigid urethane insulation; and high performance rigid extruded polystyrene insulation for specialist applications.









High Performance Insulation

HVAC PIPING AND DUCTWORK INSULATION

AND INDUSTRIAL PROCESS PLANT PIPEWORK

Pre-insulated Ductwork

The Kingspan KoolDuct System is an extremely durable and airtight pre-insulated ductwork system comprising rigid phenolic insulation panels. It is the only rigid phenolic pre-insulated ductwork system in the world to be UL Listed. As an advanced and innovative air-distribution ductwork system, it offers many benefits in terms of speed, weight, space, operational energy use and capital, operating and whole-life costs.



Kooltherm premium performance rigid phenolic pipe and duct insulation are the thinnest and most thermally efficient products available for the insulation of pipework and ductwork in building services / HVAC applications. The Kooltherm pipe and duct insulation systems have been optimised by years of experience in providing insulation solutions for engineering companies and contractors across the globe.



SECC, Glasgow, UK





Atlantis, The Palm, Dubai, UAE



Serca Foods, Toronto, Ontario



Engineered Timber Systems

RESIDENTIAL SYSTEMS:

STRUCTURAL INSULATED PANEL SYSTEM (SIPS)

Buildings, be they residential, commercial or manufacturing account for in excess of 40% of carbon emissions globally. Recognising this, Kingspan has, and continues to, innovate and deliver solutions that will dramatically reduce the need for energy and provide compelling economic payback.

Becoming the first in the world to develop the Zero Carbon home, which in itself meets standards outlined in the Code for Sustainable Homes, is the latest example of this innovation. This Code envisages much higher insulation standards, rainwater harvesting, use of renewables such as solar hot water and power generation, all products currently in the Kingspan portfolio.



The Way, Beswick, East Manchester, UK



Kingspan Lighthouse, Zero-Carbon Home is the most advanced house ever produced for mainstream construction



"spiralling energy costs"
Kingspan EnergiSolutions deliver
integrated feed-in tariff capability
for a faster return on investment.







SixtyK design, Avante, Coxheath, UK Image with kind permission from Crest Nicholson.



Other sectors: Commercial, Education, Healthcare and Leisure





Thermomax advanced vacuum solar thermal system, University of South Carolina, USA

"decreasing reserves of fossil fuels"

Kingspan offer a range of renewable EnergiSolutions that conserve the world's natural resources.



Renewable Technologies

Renewable and Low Carbon Technologies

Kingspan Solar Thermal Systems deliver up to 70% of a buildings hot water for space and water heating. Can be supplied as total packages for building integration and user operation. Available with either vacuum tube or flat plate solar thermal panels.

Kingspan Solar Photovoltaic Systems are a proven method of providing renewable electricity. The rising cost of energy is now making solar photovoltaic systems increasingly financially viable, particularly within feed-in tariff and grant supported markets.

Kingspan Climate Solar Cooling / Heating

Solar collectors harness heat energy from the sun. The harnessed heat is transported to a heat energy exchange unit to produce a chilled water source which is used to cool the building. The exchange unit can also be switched to allow the building to be heated.



Thermomax DF100 collectors can be installed flat to suit any architectural requirements or building constraints

Kingspan Climate system delivers:

- Free hot water from Kingspan Solar Thermomax collectors;
- Clean energy and generates solar cooling / heating day and night.

Kingspan Aeromax

Aeromax high efficiency compact heat pumps use natural heat from the air outside to provide central heating (underfloor heating or traditional radiators) and / or hot water for your home.

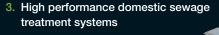


Environmental

POLLUTION CONTROL SYSTEMS

Kingspan treatment plants and reed beds offer unparalleled effluent quality. Consisting of factory-engineered packaged units for rapid installation that are designed to actively treat effluent in both domestic and commercial situations.

- 1. Commercial high effluent quantity sewage treatment systems
- 2. Reed bed systems





Rainwater harvesting systems replace mains water with rainwater collected from the buildings roof for non-potable applications.

Sustainable drainage systems manage the quantity, and quality, of water run-off and help prevent flash flooding and the pollution of watercourses.

- Fully integrated rainwater harvesting systems for domestic and nondomestic applications
- 5. Fuel / water separators
- 6. Stormwater attenuation systems





ENVIRONMENTAL CONTAINERS

Leading the way in tank design and in-tank technology, Kingspan Environmental Containers are without question, the markets premier product range. Providing innovative, safe and reliable storage solutions, Kingspan Environmental products continue to be the first choice for homeowners, contractors, developers and businesses throughout the UK, Ireland and Europe.

Manufactured to the very highest of standards that far exceed all current regulations and safety standards, Kingspan Environmental Containers can be installed with certainty in a wide variety of markets. All products are manufactured from high quality polyethylene to ISO standards.

Within Kingspan Environmental portfolio, Environmental Containers include:

- Bunded Oil and Fuel Storage
- AdBlue Storage and Dispensing
- Grit and Solid Fuel

- Biofuel Storage and Dispensing
- Chemical and Water Treatment
- Potable Water Tanks

- Spill Containment
- Recycling Banks







TELEMETRY & MANAGEMENT SYSTEMS

Sensor Systems portfolio offers intelligent and award-winning technology for tank level monitoring and management suitable for domestic, commercial and industrial applications.



"water shortages due to climate change" Kingspan's rainwater harvesting and storage systems can save

Kingspan's rainwater harvesting and storage systems can save up to 85% of a buildings mains water use.



Access Floors

Kingspan offer a range of technology flooring systems for fast, simple, data and electrical systems reconfiguration.

Access floor technology brings the evolution of building design to the next level. Underfloor air, wiring, and data cabling services combined with significant structural advantages offer incomparable first-build and long-term value and flexibility. Underfloor air distribution reduces energy costs, improves indoor air quality, and enhances personnel productivity and comfort.



The global leader for raised access flooring, featuring the Building Technology Platform® underfloor HVAC, cable and wire management system.



BP WOW, Houston, Texas



Unilever House, London, UK





Sectors: Office, Commercial, Technology and Education buildings.



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