

Insulated Panels
CAT Region

Insulated Panel and Facade Solutions Building Envelope



POWERED BY
QuadCore[™]
TECHNOLOGY

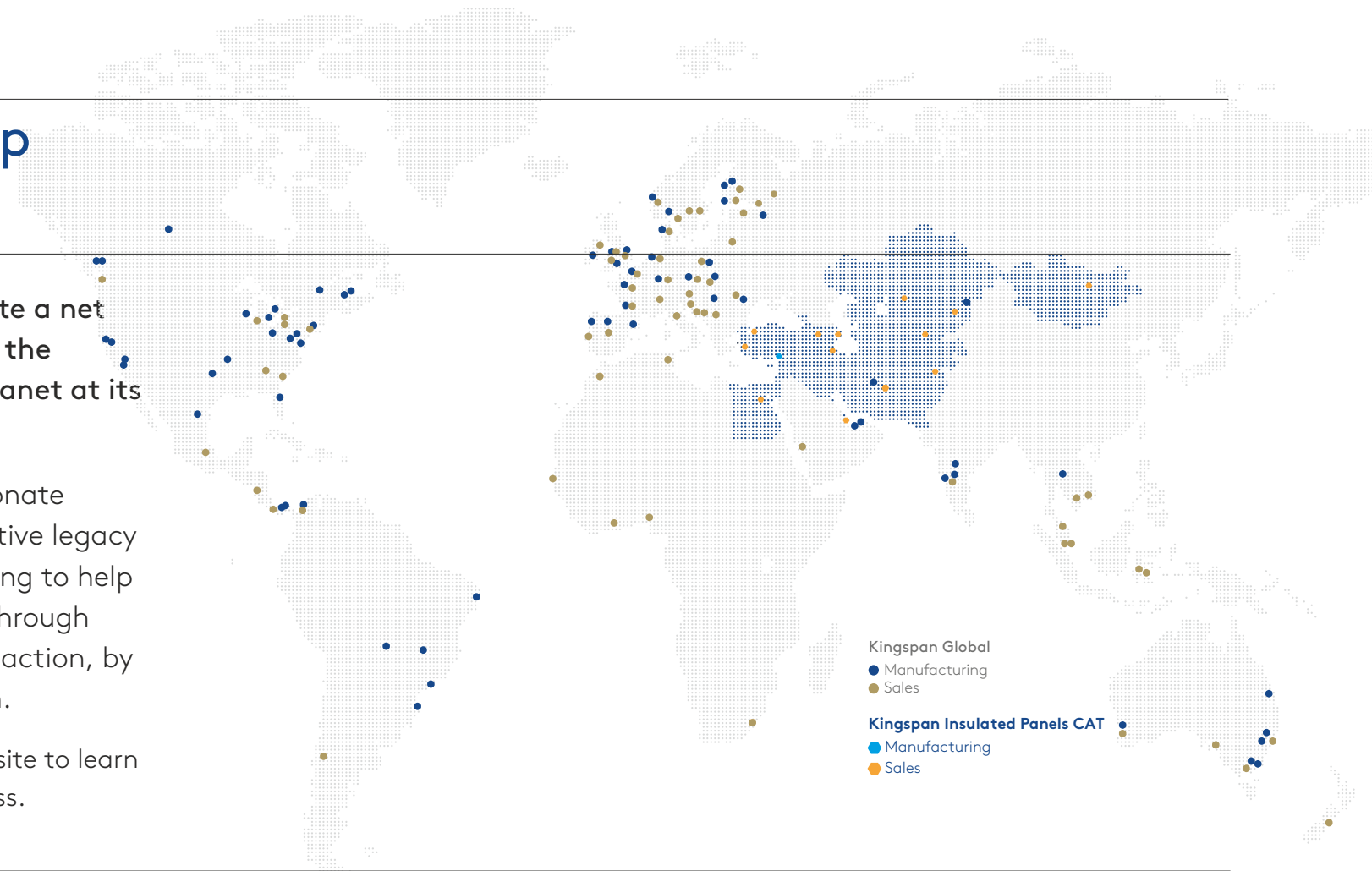

Kingspan[®]

Kingspan Group

Our mission is to accelerate a net zero emissions future with the wellbeing of people and planet at its heart.

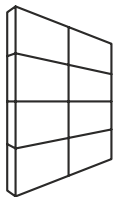
Across the globe, our passionate people strive to build a positive legacy for future generations. Aiming to help drive our industry forward through innovation and meaningful action, by always leading with passion.

Visit the Kingspan Group website to learn more about our global business.

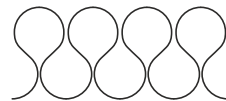


The Kingspan Group has five primary divisions:

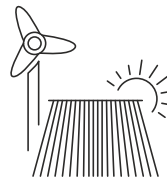
Insulated Panels



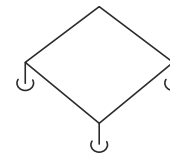
Insulation



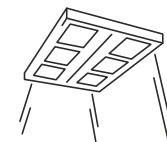
Water & Energy



Access Floors



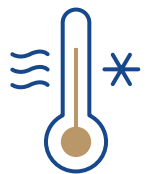
Light + Air



We Are Market Leading

Kingspan's **QuadCore™** technology sets us apart in insulation solutions. With its hybrid insulation core, **QuadCore™** is able to deliver long term performance in fire safety, thermal efficiency and sustainability.

QuadCore™ technology thermal insulation core is developed to provide reliable and long-term thermal performance for a range of building envelope applications. The core uses advanced materials designed to provide better thermal properties which helps limit heat transfer through the structure. This reduction in heat flow can contribute to noticeable decrease in heat losses and result in effective energy savings by lowering the demand for heating and cooling, supporting more efficient operation of the building and increased comfort for occupants throughout the year.



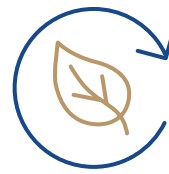
Thermal Performance

The efficiency of **QuadCore™** insulation technology leads to thin and lightweight panels for simpler installation.



Fire Performance

A wide range of **QuadCore™** insulated panels has successfully undergone rigorous testing to meet the demanding regulations and standards. Additionally, a diverse selection of these panels are insurer approved to FM standards.



Environmental Performance

QuadCore™ panels are designed for thermal performance, to help reduce energy use and related carbon emissions over their lifetime versus production impacts. They include recycled content, and are developed with durability, and recyclability to support sustainable building practices.



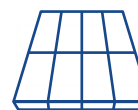
Warranty

With a proven track record of durable performance, many of our systems and solutions are protected by industry-leading warranty packages.

We Provide The Complete Solution

Kingspan is a complete solution provider, offering aesthetic flexibility through its diverse range of insulated panel profiles.

Our fabrications cover a comprehensive portfolio, including **Building Envelope, Controlled Environments, Architectural Façade Systems, Energy Solutions** and more.



Roof Panel Systems

Easy-to-fit, low maintenance insulated roofing options, with an extensive range of accessories.



Wall Panel Systems

Secret or through-fix insulated wall panel systems, daylighting solutions and accessories.



Cold Store Solutions

Temperature-controlled systems for internal and external applications, together with turn-key modular coldstore solutions.



Standing Seam Systems

A secret-fix, built up standing seam system that enables you to create angular, convex, concave and tapered architectural forms.



Roof Decks and Liners

Liners and decks for standing seam roof applications mean uncluttered lines for the interior of your roof structure.



Safety and Protection Systems

Proven safety systems to protect both people and property.



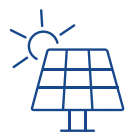
Fabrications

Specialist metal fabrications to provide bespoke finishing touches to your project, completing the building envelope.



Façade Systems

Our comprehensive range of architectural cladding products help bring your designs to life.



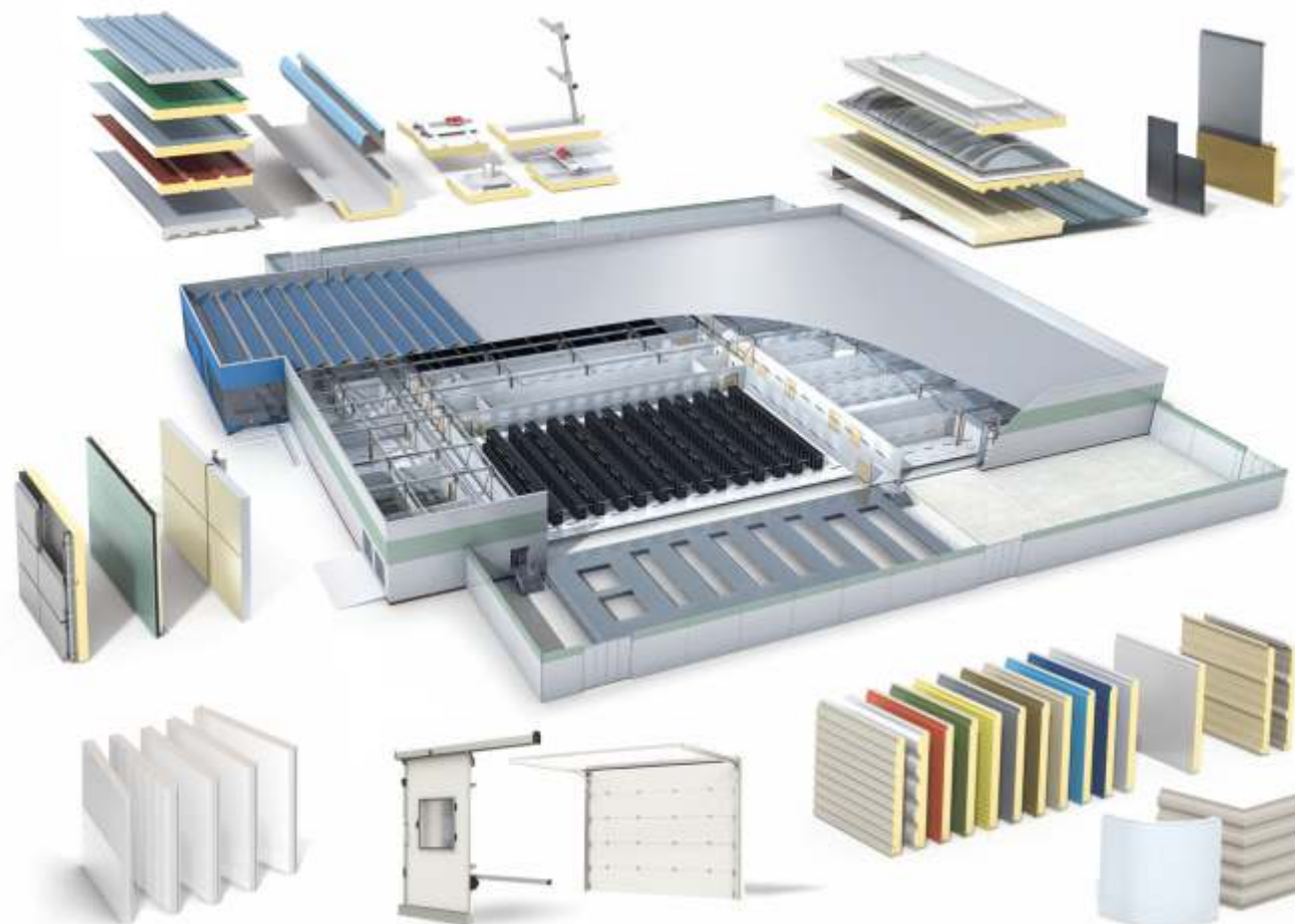
Energy Efficiency Solutions

Energy efficient insulated roof panels with an optimised rooftop solar PV system.



Doors and Loading Systems

A wide range of door and loading technology solutions for industrial warehouses and cold stores.



We Are Kingspan Insulated Panels.

Kingspan Insulated Panels is the largest division in the Kingspan Group. Our panelised envelopes are equipped with advanced insulation core technologies like QuadCore™, Kingspan's hybrid insulation core technology with a unique formulation that creates micro-cells providing long-term thermal and fire performance. With an 'envelope first' design approach, the efficient U-value of the QuadCore™ envelope also has the potential to reduce HVAC system sizing as well as energy usage and carbon emissions.

Our manufactured products are specifically designed to support the construction of energy-efficient and sustainable buildings. With a focus on speed of construction and the well-being of building occupants, our solutions offer a winning combination of efficiency and safety. With our wide selection of insulated panel profiles, we empower architects, designers, and builders to achieve their desired aesthetic vision. Our insulated panel solutions not only enhance the visual appeal of buildings but also deliver long-term performance and efficiency.





Insulated Roof Panels



QuadCore™ KS100KSM KingSeam Insulated Standing Seam Roof Panel

QuadCore™ KS100KSM KingSeam Insulated Standing Seam Roof Panel is a both sides metal sheet insulated panel that offers the advantages of a standing seam system with the benefits of a factory finished insulated panel.

Highlight: Continuous line production in field seamed design, eliminating exposed fasteners.

Core thicknesses (mm): 60-80 -100 -120 -140

Internal facing (mm): Metal sheet (Equibead: 0.45 -0.70)

External facing (mm): Metal sheet (Kingseam: 0.45 -0.70)

Panel Joints: Secret-fix / halter.

Cover width (mm): 1000

Roof slope suitability (single panel): Roof slope $\geq 2.1\%$ (1.2°) after steel deflection



QuadCore™ KS100PRW Roof Panel

QuadCore™ KS100PRW Roof Panel is a both sides metal sheet, trapezoidal profiled and through-fix insulated roof panel suitable for roof slopes of 7% (4.0°) or more after deflection. Where overlap is required the slope should be minimum 10% (6°).

Highlight: Trapezoidal profiled insulated roof panel with a rich core thickness range.

Core thicknesses (mm): 40 -50 -60 -80 -100 -120 -150

Internal facing (mm): Metal sheet (Box: 0.40 -0.70)

External facing (mm): Metal sheet (Trapezoidal: 0.45 -0.70)

Panel Joints: Through fix

Cover width (mm): 1000

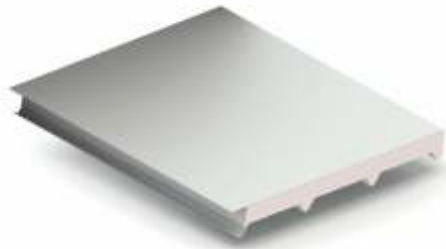
Roof slope suitability (single panel): Roof slope $\geq 7\%$ (4.0°) after steel deflection

Roof slope suitability (overlap): Roof slope $\geq 10\%$ (6.0°) after steel deflection



Membrane Roof Deck Systems

QuadCore™ KS100ERO T-DEK Flat Roof Panel



Factory made insulated panel consisting of single-ply membrane as external weather sheet, metal internal liner deck and Quadcore™ insulation core suitable for flat roof applications where the roof slope is 1% (0.5°) or more after steel deflection.

Highlight: Specially devised low slope solution for slopes $\geq 1\%$

Core thicknesses (mm) : 50 – 60 – 80 – 100 mm

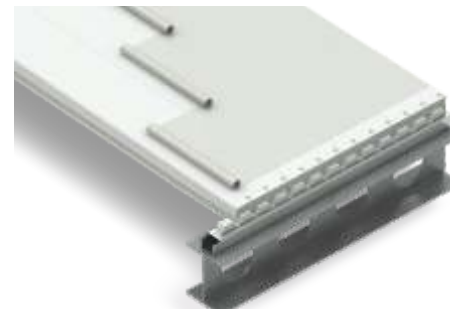
Internal facing (mm) : Metal sheet (Trapezoidal: 0.55 - 0.70)

External facing (mm) : Membrane (PVC: 1.20 mm and TPO: 1.50 mm)

Panel Joints: Secret-fix

Cover width (mm) : 1000

Roof slope suitability: Roof slope $\geq 1\%$ (0.5°) after steel deflection



QuadCore™ KS100ERO T-DEK Longspan Flat Roof Panel

Insulated hybrid system with Quadcore™ technology, external metal sheet in box form and an internal metal sheet with four crowns, finished with the in-situ installation of external weather membrane. Suitable for roof slopes $\geq 1\%$ (0.5°).

Highlight: Up to 7 m. spanning

Core thicknesses (mm) : 100

Internal facing (mm) : Metal sheet (Deck: 0.90)

External facing (mm) : Metal sheet (Box: 0.70 mm)

External water-seal layer: Membrane (PVC-1.20 mm and TPO-1.50 mm)

Panel Joints: Through-fix

Cover width (mm) : 825

Roof slope suitability: Roof slope $\geq 1\%$ (0.5°) after steel deflection



Insulated Wall Panels



QuadCore™ KS103SSF AWP Wall Panel

QuadCore™ KS103SSF AWP Wall Panel is a both sides metal sheet, secret-fix insulated wall panel offering three profile options and core thickness availabilities starting from 40 mm and up to 100 mm.

Highlight: 3 distinct profile options; Box, Micro, F-smooth,

Core thicknesses (mm): 40 – 50 – 60 – 80 – 100

Internal facing (mm) : Metal sheet (Box: 0.40 – 0.70)

External facing (mm) : Metal sheet (Box: 0.45 – 0.70 / F-smooth: 0.55 – 0.70 / Micro: 0.45 – 0.70)

Panel Joints: Secret-fix

Cover width (mm) : 1030

Orientation options: Horizontal and vertical



QuadCore™ KS103MSF AWP Wall Panel

QuadCore™ KS103MSF AWP Wall Panel is a both sides metal sheet, secret-fix insulated wall panel featuring external sheet profile with deeper ribs for improved structural performance and distinct aesthetics.

Highlight: Deeper ribs for a visually and structurally improved performance

Core thicknesses (mm): 50 – 60 – 80 – 100

Internal facing (mm) : Metal sheet (Box: 0.40 – 0.70)

External facing (mm) : Metal sheet (Mega: 0.60 – 0.70)

Panel Joints: Secret-fix

Cover width (mm) : 1030

Orientation options: Horizontal and vertical



Insulated Wall Panels



QuadCore™ KS100BMSF Evolution Wall Panel

Secret-fix, Quadcore™ insulated metal panel with factory applied folding of the panel edges and the insertion of a 20 mm gasket between the panels to create a visually unique architecture of the façade.

Highlight: Sleek, precision engineered 3D aesthetic.

Core thicknesses (mm): 80 – 100

Internal facing (mm): Metal sheet (Box: 0.50 – 0.70)

External facing (mm): Metal sheet (F-smoth: 0.70)

Panel Joints: Secret-fix

Cover width (mm): 1000

Orientation options: Horizontal and vertical



QuadCore™ KS100PRW Wall Panel

QuadCore™ KS100PRW Wall Panel is a both sides metal sheet, trapezoidal profiled and through-fix insulated wall panel that can be laid vertically or horizontally.

Highlight: Aesthetically distinct, high profile insulated panel for facades.

Core thicknesses (mm): 40 – 50 – 60 – 80 – 100 – 120 – 150

Internal facing (mm): Metal sheet (Box: 0.40 – 0.70)

External facing (mm): Metal sheet (Trapezoidal: 0.45 – 0.70)

Panel Joints: Through-fix

Cover width (mm): 1000

Orientation options: Horizontal and vertical



Cold Store Panels



QuadCore™ KS110CTF Coldstore Panel

"QuadCore™ KS110CTF ColdStore Panel is a through-fix insulated panel specially designed for temperature-controlled and hygiene-safe environments, offering five profile choices and a wide range of core thickness options."

Highlight: All around versatility (profiling, core thickness palette, smart panel option)

Core thicknesses (mm): 45* – 50* – 60 – 80 – 100 – 120 – 140 – 150 – 170 – 200

* Does not exist for mega profilation

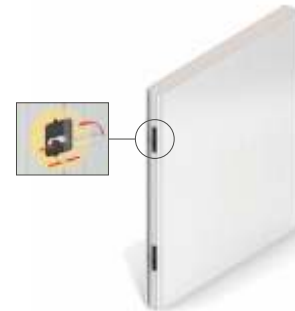
Internal facing (mm): Metal sheet (Box: 0.45 – 0.70 / F-smoth: 0.55 – 0.70)

External facing (mm): Metal sheet (Box: 0.45 – 0.70 / F-smoth: 0.55 – 0.70 / Micro: 0.45 – 0.70 / Mega: 0.60 – 0.70)

Panel Joints: Through-fix

Cover width (mm): 1100

Orientation options: Horizontal and vertical



QuadCore™ KS110CTF Camlock ColdStore Panel

QuadCore™ KS110CTF CamLock ColdStore Panel features the benefits of a cam-lock system with the quality of a continuous line production. The locking kits are integrated into the panel during automated production process.

Highlight: Integrated camlock, produced in continuous line

Core thicknesses (mm): 80 – 100 – 120 – 150 – 200

Internal facing (mm): Metal sheet (Box: 0.55 – 0.70)

External facing (mm): Metal sheet (Box: 0.55 – 0.70)

Panel Joints: Through-fix

Cover width (mm): 1100

Orientation options: Vertical



Cold Store Panels



QuadCore™ KS110NCTF Coldstore Panel

Featuring the QuadCore™ insulation core, a specially designed labyrinth joint and with three distinct profile option availability, QuadCore™ KS110NCTF ColdStore Panel is a through-fix cold-store panel offering an enhanced thermal performance.

Highlight: Enhanced thermal performance with specially designed labyrinth joint detail.

Core thicknesses (mm): 100 – 150 – 200

Internal facing (mm): Metal sheet (Box: 0.45 – 0.70 / F-smoth: 0.45 – 0.70 / Micro: 0.45 – 0.70)

External facing (mm): Metal sheet (Box: 0.45 – 0.70 / F-smoth: 0.45 – 0.70 / Micro: 0.45 – 0.70)

Panel Joints: Through-fix

Cover width (mm): 1100

Orientation options: Horizontal and vertical



QuadCore™ KS103LSSF QuadCore™ KS103LMSF CladRack Warehouse Panel Systems

Specially designed for clad-rack warehouses, QuadCore™ KS103LSSF and KS103LMSF CladRack Warehouse Panels provide a secret-fix cladding solution for high-bay storage buildings where the racking also forms part of the building structure.

Highlight: Specially engineered product group for clad-rack applications offering 3 distinct profile options.

Core thicknesses (mm): 200

Internal facing (mm): Metal sheet (Box: 0.60)

External facing (mm): Metal sheet (Box: 0.60 – 0.70 / Micro: 0.60 – 0.70 / Mega: 0.60 – 0.70)

Panel Joints: Secret-fix

Cover width (mm): 1030

Orientation options: Horizontal and vertical

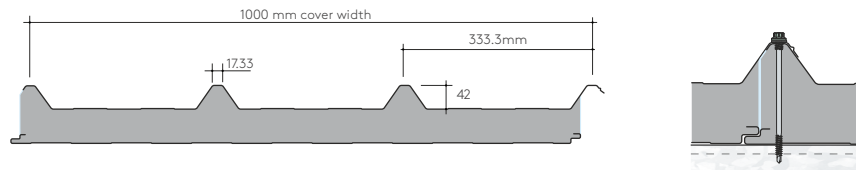


Profile Geometry

Roof Panels

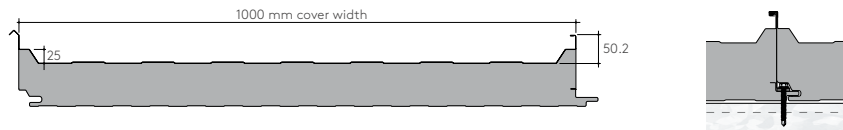
QuadCore™ KS100PRW Roof Panel

External fac: (Trapezoidal), Internal facing: (Box)



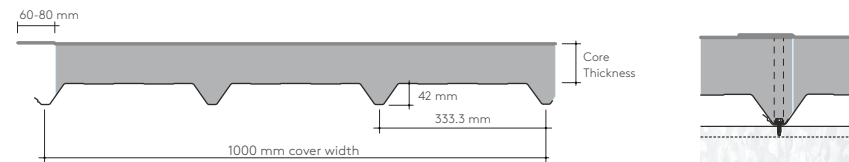
QuadCore™ KS100KSM KingSeam Insulated Standing Seam Roof Panel

External fac: (Kingseam), Internal facing: (Equibead)



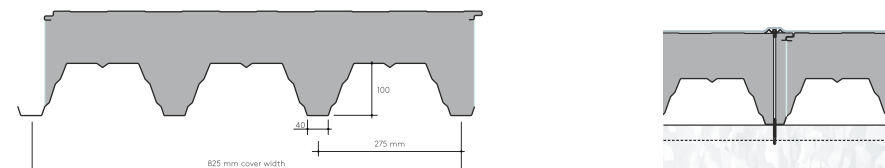
QuadCore™ KS100ERO T-DEK Flat Roof Panel

External fac: (TPO or PVC membrane), Internal facing: (Trapezoidal)



QuadCore™ KS100ERO T-DEK Longspan Flat Roof Panel

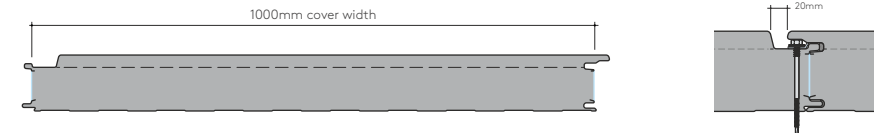
External fac: (Box + PVC membrane or TPO membrane), Internal facing: (Deck)



Wall / Facade Panels

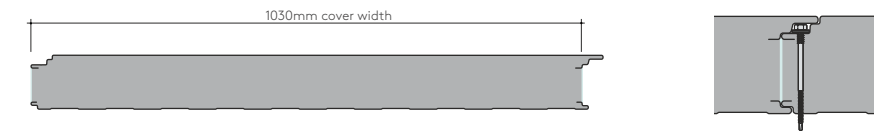
QuadCore™ KS100BMSF Evolution Wall Panel

External facing: (F-smooth), Internal facing: (Box)

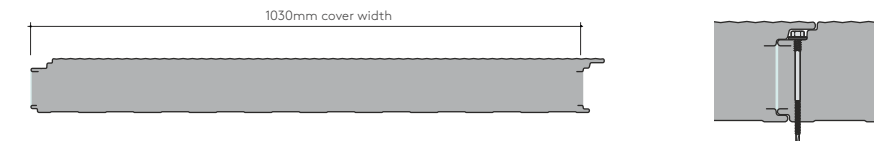


QuadCore™ KS103SSF AWP Wall Panel

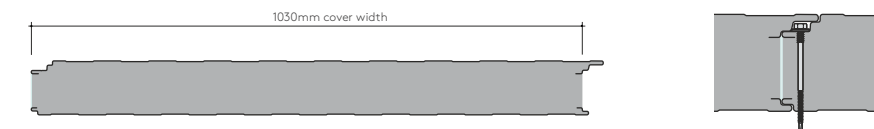
External facing: (F-smooth), Internal facing: (Box)



External facing: (Micro), Internal facing: (Box)

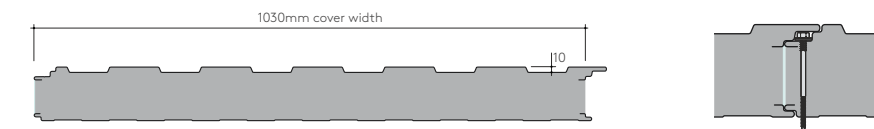


External facing: (Box), Internal facing: (Box)



QuadCore™ KS103MSF AWP Wall Panel

External facing: (Mega), Internal facing: (Box)



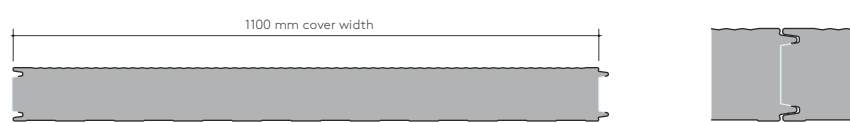
ColdStore / CladRack Panels

QuadCore™ KS110CTF ColdStore Panel

External facing: **(Box)**, Internal facing: **(Box)**



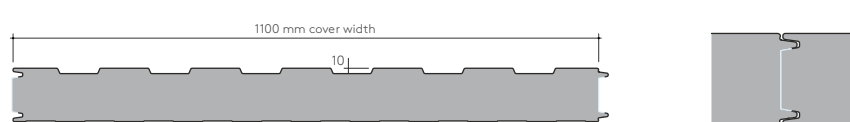
External facing: **(Micro)**, Internal facing: **(Box)**



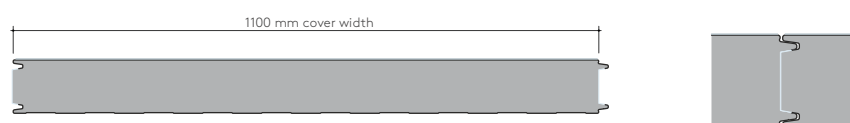
External facing: **(F-Smooth)**, Internal facing: **(Box)**



External facing: **(Mega)**, Internal facing: **(Box)**

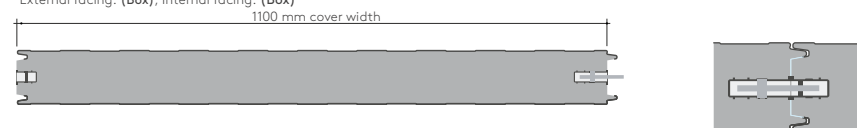


External facing: **(Smart Panel)**, Internal facing: **(Box)**



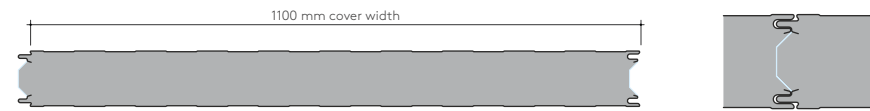
Quadcore™ KS110CTF Camlock ColdStore Panel

External facing: **(Box)**, Internal facing: **(Box)**

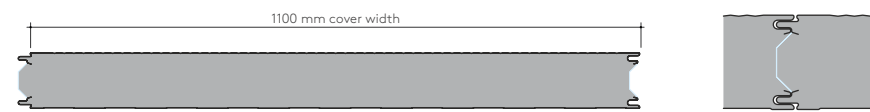


QuadCore™ KS110NCTF ColdStore Panel

External facing: **(Box)**, Internal facing: **(Box)**



External facing: **(Micro)**, Internal facing: **(Box)**

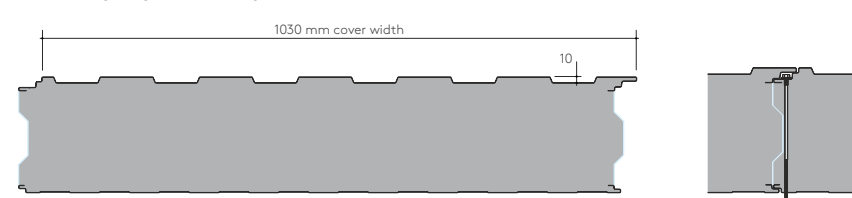


External facing: **(F-smooth)**, Internal facing: **(Box)**



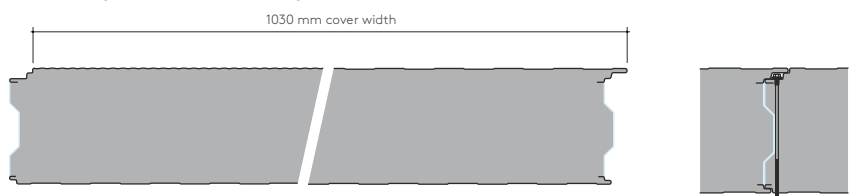
QuadCore™ KS103LMSF CladRack Warehouse Panel

External facing: **(Mega)**, Internal facing: **(Box)**



QuadCore™ KS103LSSF CladRack Warehouse Panel

External facing: **(Micro or Box)**, Internal facing: **(Box)**



Be Inspired Façade Systems

Driven by our commitment to "Together, creating better buildings for a better world," our façade solutions enable architects to explore bold designs while ensuring technical excellence. We offer solutions from aluminium and corten steel to glass and ACP panels, combining aesthetic impact with durability, energy efficiency, and regulatory compliance, while providing flexible finishes, modular design, and reliable performance for complex projects.

Our process ensures creativity and compliance through four stages:

Stage 1 – Regulatory & Safety Requirements: Review local regulations, certifications, and thresholds such as aircraft clearance or reinforcement offsets.

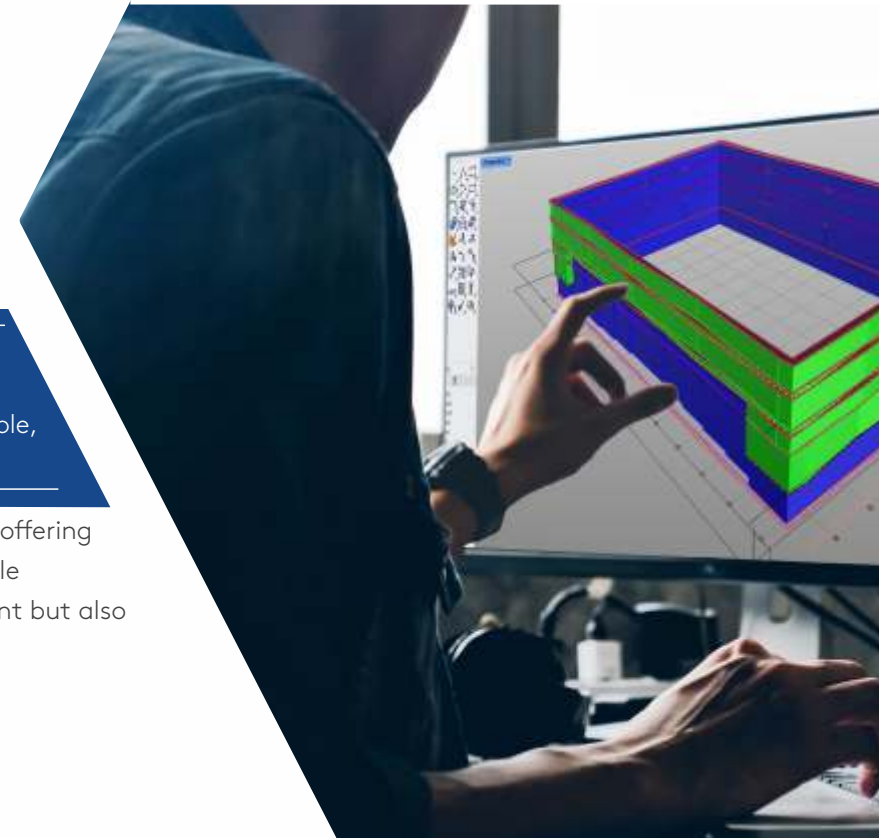
Stage 2 – Design & Structural Considerations: Verify façade offsets, substructure requirements, and adherence to architectural specifications.

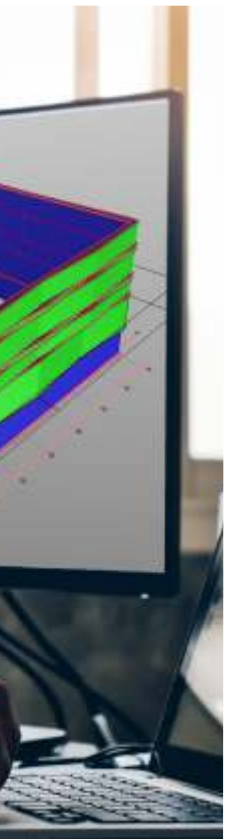
Stage 3 – Aesthetic & Approval Requirements: Coordinate with authorities on textures, colors, and overall appearance.

Stage 4 – Material Feasibility: Assess market availability and technical suitability of requested finishes.

We support designers and decision-makers through these steps in the process of creating innovative designs while keeping safety, compliance, and long-term performance under focus. Our solutions balance form and function, help enable façades that are visually striking, technically reliable, and designed to align with sustainability goals.

From concept to execution, our systems provide the tools to deliver ambitious architectural visions, offering freedom in design, precision in execution, and consistency in performance. With modularity, versatile materials, and a structured process, we help create buildings that are not only beautiful and efficient but also contribute to a more sustainable built environment.





Introducing KingSeam Insulated Panel

QuadCore™ KS100KSM KingSeam Insulated Standing Seam Roof Panel is a both sides metal sheet insulated panel that replicates the sleek and elegant appearance of traditional standing seam metal roofing, with the added advantages of a factory-finished insulated panel. This means faster and more efficient installation on-site, reduced labor costs, and minimal disruption to construction schedules.

The product utilizes field seamed, secret-fix joinery on internal metal sheet side which allows external side of panels to get mechanically seamed on site to the adjacent panel along with specially engineered stainless steel clips designed to create a secure, water resistant joinery making the system also suitable for low roof slope applications. In **QuadCore™ KS100KSM KingSeam Insulated Standing Seam Roof Panel**, the preferred standing seam system and its benefits are combined with the effectiveness and ease of installation offered by factory finished insulated metal panel. This product comes with a cover width of 1000 mm, offering 60-80-100, 120 and 140 mm core thickness options.



A reliable solution able to provide long term performance that is also suitable for low roof slopes.



Helps energy efficiency through a versatile core thickness range and Quadcore™ insulation core.

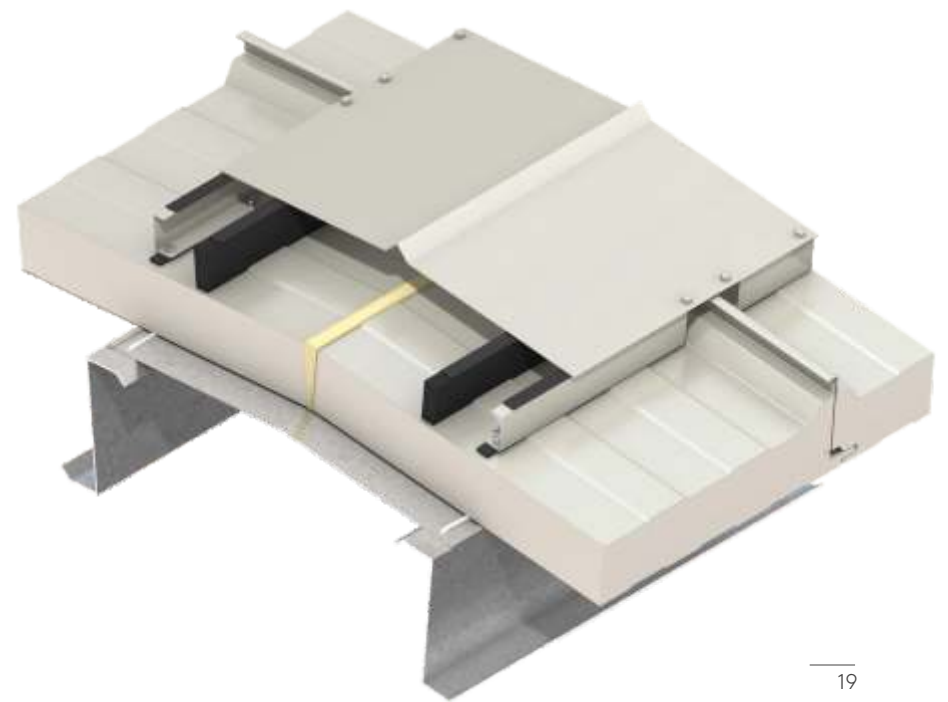


Concealed fixing system designed to support better protection against water ingress.



Designed for quicker and simpler installation than conventional in-situ standing seam systems.



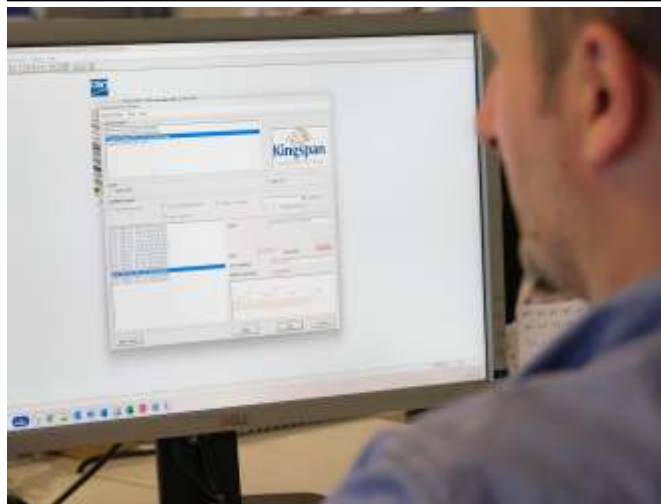


Highlighting CladRack Insulated Panel Range

Clad-rack warehousing systems are innovative storage solutions that prioritize vertical space utilization and durability. These systems elevate warehouse efficiency by integrating the racking system as the load-bearing structure of the building envelope. Kingspan's CladRack Insulated Panel Range is specially designed to provide a high performance and trusted solution specifically for this application.

With attention to details, Kingspan's CladRack Insulated Panel Range is professionally engineered to meet the rigorous demands of industrial structures featuring clad rack systems. Our product lineup includes **QuadCore™ KS103LSSF CladRack Warehouse Panel** and **QuadCore™ KS103LMSF CladRack Warehouse Panel**, both powered by Kingspan's innovative QuadCore™ insulation core.

These panels are specifically designed for seamless secret-fix installation, ensuring a secure and visually appealing finish. **With a generous 200 mm insulation core thickness and three profile options**, they strike the ideal balance between cost-efficiency and aesthetic appeal, satisfying the requirements of architects, contractors, and clients alike. These profiles offer versatility, whether used horizontally or vertically, making them an ideal solution for a wide range of projects.



Engineering and design expertise plays a vital role in securing the structural integrity and performance of clad-rack projects. From cladding perspective, usually, the insulated panel is directly installed onto the rack system and acts as the outer shell. With the support of advanced calculation software and specifically devised connection details, the system capability to withstand thermal expansion and contraction under given environmental conditions are engineered to ensure long term performance and system durability.

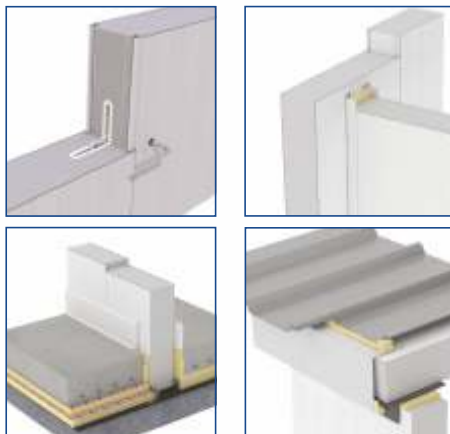




Highlighting ModularisCold

Recent reports from the Food and Agriculture Organization (FAO) and the United Nations Environment Programme (UNEP) indicate that around 14% of food produced globally is lost between harvest and retail, mainly due to insufficient cold chain infrastructure (FAO, 2019; UNEP, 2021). UNEP estimates that over 500 million tonnes of food are lost annually because of inadequate refrigeration, with losses concentrated in developing regions where cold storage access is limited (UNEP, 2021). These inefficiencies contribute significantly to global greenhouse gas emissions, with cold chain-related food waste and refrigeration accounting for approximately 4% of total emissions worldwide (UNEP, 2022). To combat this, UN agencies emphasize the importance of expanding decentralized and energy-efficient cold storage solutions near production areas to extend shelf-life, reduce spoilage, and strengthen food supply chains (UNEP & FAO, 2020; UNEP, 2022).

The ModularisCold system leverages the load-bearing capacity of its purpose-designed insulated panels, which are engineered to meet demanding performance requirements. These panels undergo comprehensive testing and evaluation to confirm their structural reliability under a wide range of conditions. This rigorous approach ensures consistent system durability and optimal performance across various applications and environments.



- Versatile and flexible system. Design can easily be adjusted and even expanded according to existing and future parameters and requirements.
- Eliminates the need to use conventional steel structure systems.
- Suitable for a wide range of applications and various purposes.
- Simple and easy to understand and apply design improving the speed of construction.

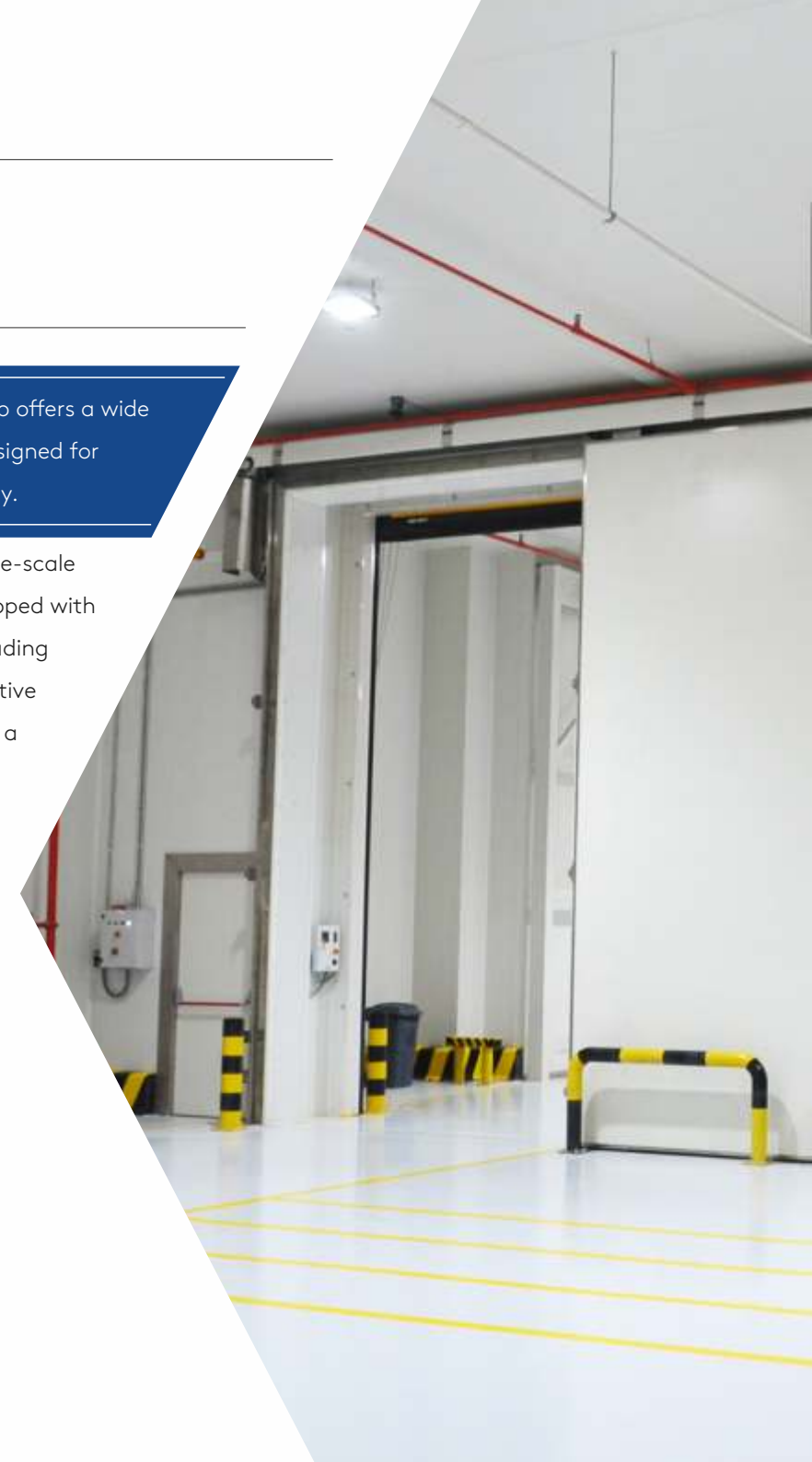
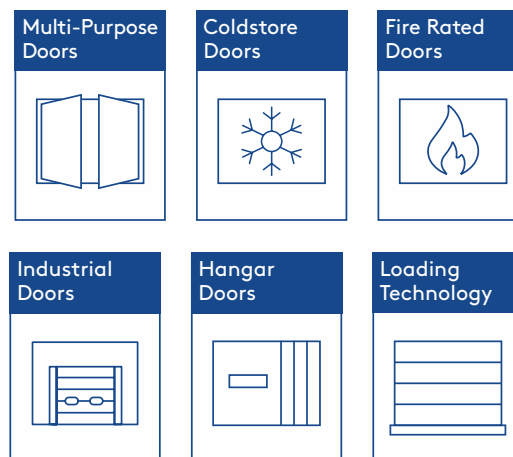




Highlighting Doors and Loading Systems

As part of Kingspan's commitment to delivering complete building envelope solutions, our door portfolio offers a wide range of systems developed for the functional needs of modern commercial and industrial facilities. Designed for seamless integration, these solutions contribute to overall building performance and long-term reliability.

From cold storage units and cleanrooms to industrial zones, fire compartments, logistics hubs, and large-scale access areas, our doors are built to support a variety of operational requirements. Each system is developed with a focus on efficiency, durability, safety, and energy control. Whether it's impact resistance at a busy loading dock, fire protection in critical zones, or maintaining stable conditions in temperature- or hygiene-sensitive environments, Kingspan's versatile door solutions offer reliable and coordinated performance as part of a complete envelope strategy.





Together Creating Better Buildings for a Better World

At Kingspan, we pride ourselves on offering a comprehensive and expertly curated product portfolio designed to meet the evolving demands of modern construction. Each solution is backed by in-depth application guidance, developed by our team of highly experienced technical experts to ensure practical implementation and seamless installation on-site.

Our commitment extends far beyond product supply. With end to end technical assistance readily available, we provide tailored engineering support that includes project-specific calculations, detailed design advice, and compliance guidance—ensuring your project meets all necessary performance, structural, and regulatory requirements.

Whether from an architectural or engineering perspective, Kingspan is a trusted partner at every stage of your build, offering reliable expertise to help you achieve durable, performing, and efficient building solutions.





Contact Details

Head Office

Kingspan Yapı Elemanları A.Ş.
(Regional Headquarters)

Çırağan Cad. No: 97 |
Ortaköy 34347 Beşiktaş
İstanbul | Türkiye

T: +90 212 236 60 32
E: enquiry.catl@kingspan.com
www.kingspan.com.tr



For a list of contacts and locations for Kingspan Businesses in CAT,
please send an email to enquiry.catl@kingspan.com

Kingspan reserves the right to modify, amend, or revoke this document at any time without prior notice. It is the sole responsibility of the customer to ensure that the product and any related information are appropriate for the intended application.

Customers are also responsible for the correct and professional installation of the product, as well as compliance with all applicable building codes and regulations. Kingspan accepts no liability for any damages or losses incurred by any party as a result of the use or misuse of the information provided.

All trademarks marked with ® or ™ are the property of Kingspan

For further information, please get in touch with your Kingspan contact.

