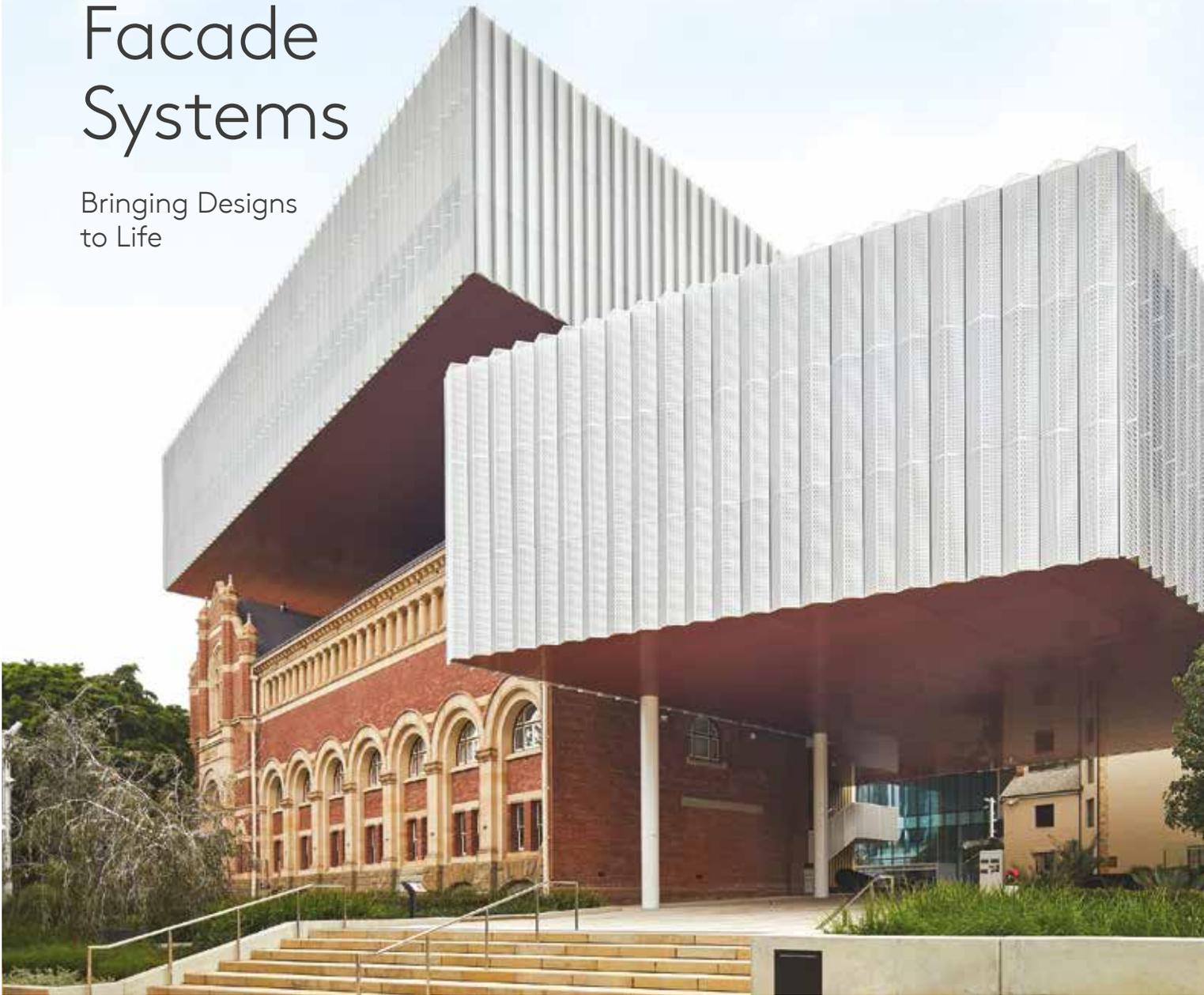


Insulated Panels
Australia

Kingspan Facade Systems

Bringing Designs
to Life



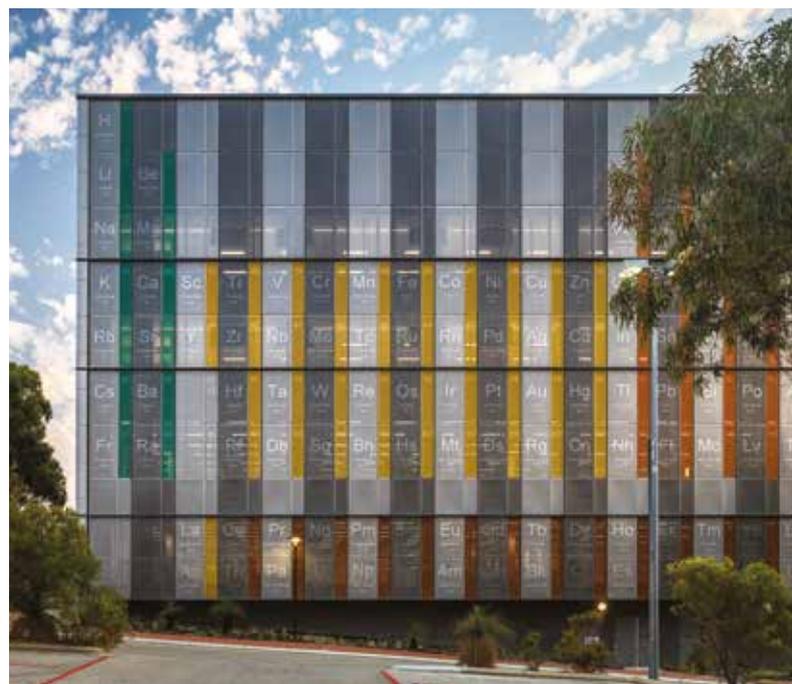
Introduction

Kingspan Insulated Panels is a global leader in the design, development and delivery of advanced building envelopes.

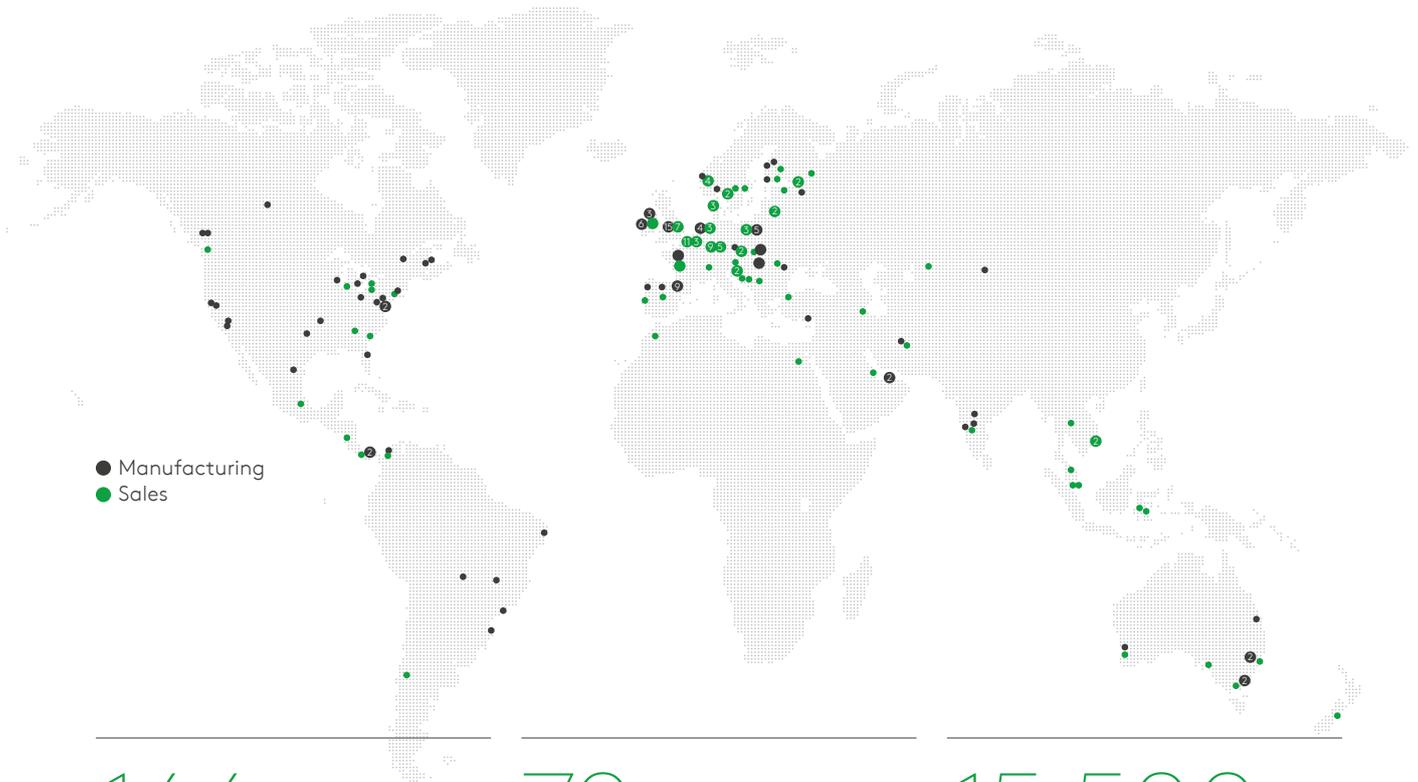
This book showcases the latest portfolio of standing seam and advanced through-wall façade system references from Australia highlighting the versatility of Kingspan's offering in the region.

Contents

Introduction	04
Belmont Hub	10
Caulfield Grammar School Aquatic Centre	12
NEXTDC P2 Data Centre	14
Edith Cowan University Science Building	16
WA Museum Boola Bardip	18
Mullum Mullum Leisure Centre	20
Pakenham Line Skyrail	22
Perth Stadium Station	24
Ashfield Aquatic Centre	26
Karrinyup Shopping Centre	28
Bunjil Place	30
Wall and Roof Product Range	32
Australian National Maritime Museum Warships Pavilion	34
Wall and Roof Projects	36



Where We Are



166

Global manufacturing facilities

70+

Countries

15,500+

Employees globally

Introducing Planet Passionate

Planet Passionate is Kingspan's ambitious 10-year global sustainability program that aims to impact three big global issues:

- Climate change
- Circularity
- Protection of our natural world

Services

Samples

To assist with the design and specification process, complimentary samples are available for a variety of Kingspan's core insulated panel products and profiles. These can be supplemented with colour swatches, featuring COLORBOND® Steel's standard range.



Scan the QR code to request a sample of your choice.

Technical

Working with Kingspan Insulated Panels includes access to technical engineers with extensive product knowledge and experience of insulated roof and wall panel applications. The support and advice available includes:

- Project specific NATSPEC specifications
- Product data sheets, standard construction details and product technical information
- Project specific construction details review and recommendations
- Fire performance clarification and assistance

Presentations

Career development seminars and presentations are available for a range of relevant topics. Delivered by members of Kingspan Insulated Panel's technical team, topics cover: Fire Performance, National Construction Code compliance, Reducing Risk (insurer approved panels), and Insulated Panels.

CPDs

Kingspan Insulated Panels offer a number of CPD presentations which can be arranged to take place face-to-face at your office premises or online.

Delivered by members of Kingspan Insulated Panel's technical team, topics cover:

- Fire Performance of Insulated Panels
- National Construction Code compliance (BCA Section J Changes)
- Facades: Performance without Compromise



Scan the QR code to find out about the learning outcomes of each topic and to register for a session.

For customer service, technical support or information on webinars and presentations, contact: E: info@kingspanpanels.com.au | T: 1300 546 477

By setting ourselves challenging targets in the areas of energy, carbon, circularity and water, we aim to make significant advances in the sustainability of both our business operations and our products.

By being Planet Passionate our products will be:



Manufactured using **renewable energy** and harvested rainwater



Manufactured in **zero waste** facilities



Packaged in **recyclable** materials



Lower in **embodied carbon**



Containing **recycled materials** and recycled production waste

"With Planet Passionate we are setting ourselves challenging goals for the next 10 years. We are committing to hard targets in the areas of energy, carbon and water reduction while enhancing the circularity of our products. This won't be easy, and will take serious leadership, commitment and effort across our group. I know we can, and must, make this happen."

Gene M. Murtagh, Chief Executive Officer, Kingspan Group



Rainscreen Facades

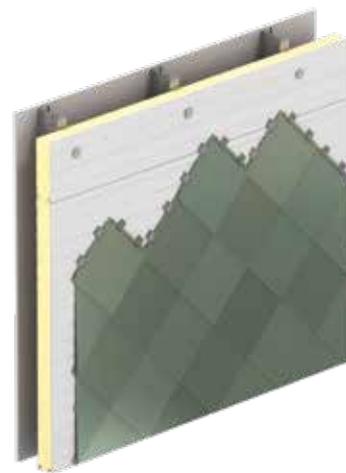
For buildings with complex designs, high aesthetics or requiring a ventilated facade, our ventilated and non-ventilated rainscreens provide fast build, high technical performance solutions.



Dri-Design

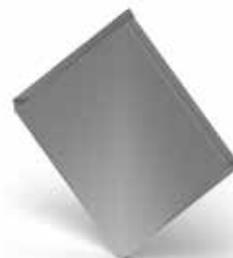
Dri-Design is a solid aluminium rainscreen façade cassette that installs at least twice as fast as comparable systems.

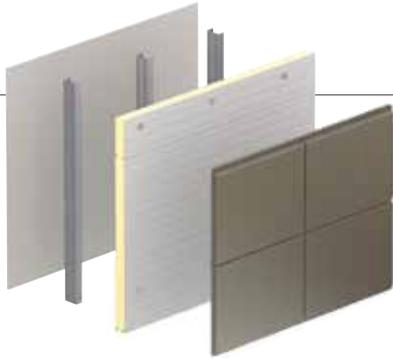
- Requires no sealant or gaskets
- Self-draining integrated perimeter gutter
- Directly fixed to the external skin of Rainspan or Karrier Panel
- Super-fast installation
- Minimal components



Shingles

Kingspan Shingles are aluminium cassettes available in various sizes and provide a distinctive façade solution. They are fixed directly to the structural face of the substrate by stainless-steel clips and rivets. Shingles interlock with each other while hiding the stainless-steel clips, creating a concealed secret-fix solution. This is a cost-effective method as a secondary support / railing solution is not required as standard.

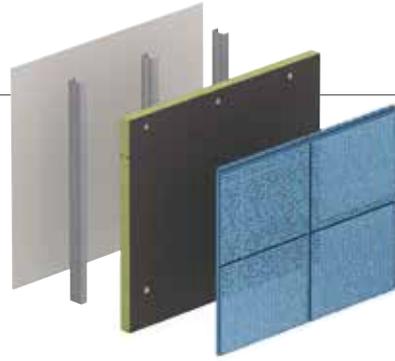




Karrier Panel Substructure

Kingspan Karrier Panel provides a weathertight building envelope in a fraction of the time of traditional built up systems and can be factory or site installed onto Kingspan Steel Framing Systems allowing the build team to remove the façade from the critical path of the build program.

- R-values up to 9.82 (m²K/W)
- Exceptional airtightness
- Large scale fire tested and assessed to AS5113
- Lightweight system



Rainspan Substructure

Eurobond Rainspan provides structural support for rainscreen systems. With a flat profile and through-fix installation, Rainspan is suitable for vertical or horizontal applications. With a stone wool core this system provides built in passive fire protection for largescale buildings.

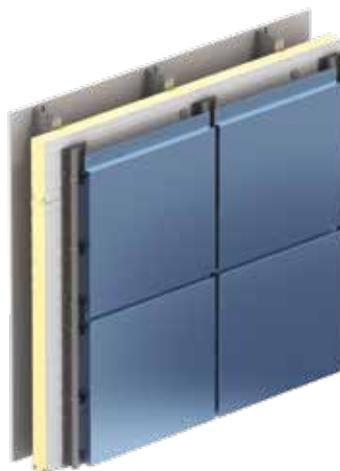
- R-values up to 5.45 m²K/W
- Non-combustible stone wool tested to AS1530.1
- High acoustic performance
- Fire resistance performance of up to 120 minutes integrity and insulation
- Exceptional airtightness



Recess Fixed Cassette

The Recess Fixed Cassette offers a value engineered alternative to the Hook-On Cassette system that can also be installed horizontally, with variable joint widths.

The Recess Fixed Cassette does not require a secondary support / rail system and is installed with colour-matched rivets. The façade is fixed directly through the external structural face of the panel.



Hook-On Cassette

Hook-On Cassette is a secret-fix solution that can be installed in either landscape or portrait orientation.

Large cassettes can be fabricated due to the structural design. Hook-On Cassette is easily serviceable and has adjustable joint widths.



Interlocking Plank

Interlocking Plank is secret-fix with flexibility in joint and face widths creating slim, linear designs.

This system produces striking lines on buildings creating a bespoke look. Interlocking Plank is a very competitive option as there are minimal requirements for a secondary support / rail system.



Standing Seam Systems



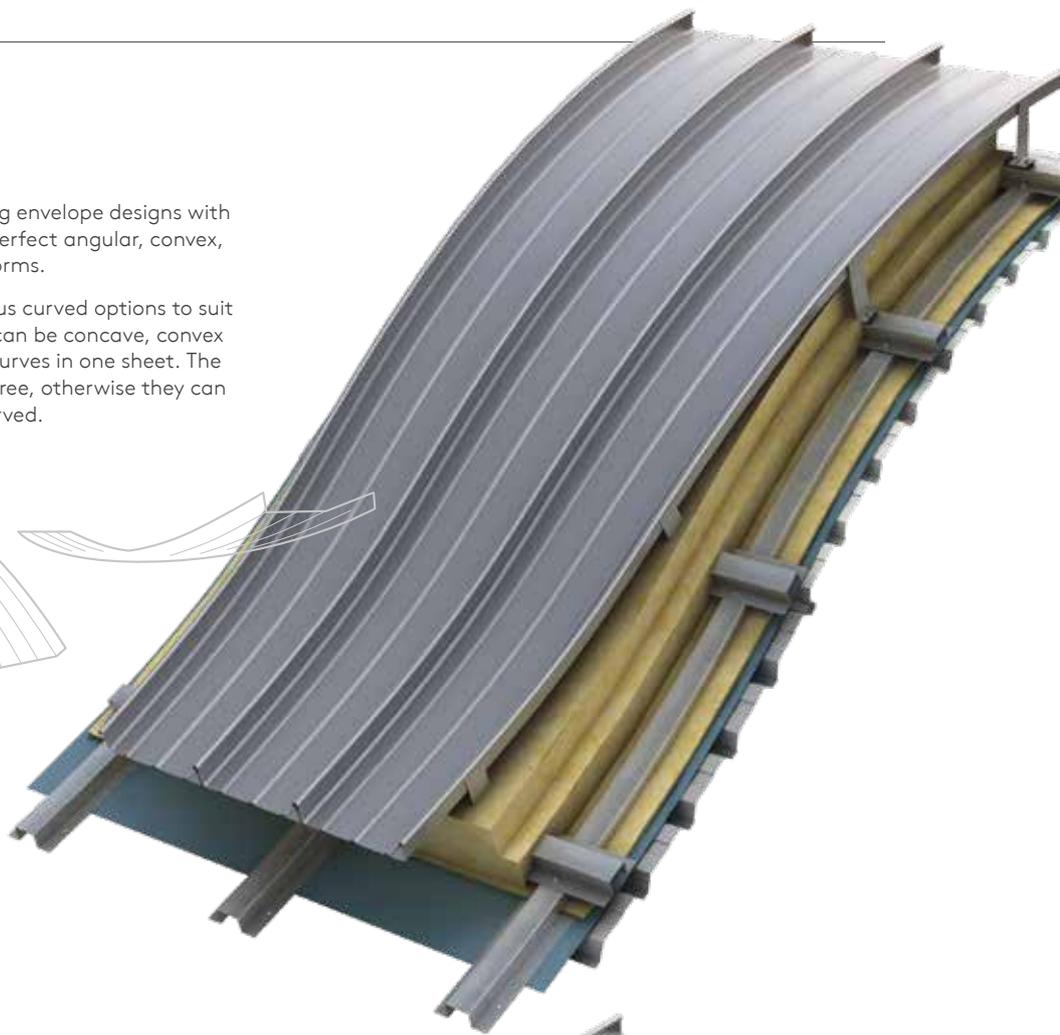
KingZip and KingZip Infiniti freeform standing seam roof systems are site-fixed, built-up solutions and are specially designed for buildings with complex geometry in mind due to their flexible and versatile application.

- Completely customisable and flexible system with 3D complex geometry capability
- Unlimited site rolled lengths; 150m longest sheet length rolled to date, no end laps
- Smooth curved, convex and concave shapes
- Tapered sheets, unlimited sheet lengths
- Advanced structural, thermal, acoustic and fire performance
- Exceptional long-term weatherproofing and durability.

KingZip

KingZip enables you to realise building envelope designs with total flexibility, creating technically perfect angular, convex, concave and tapered architectural forms.

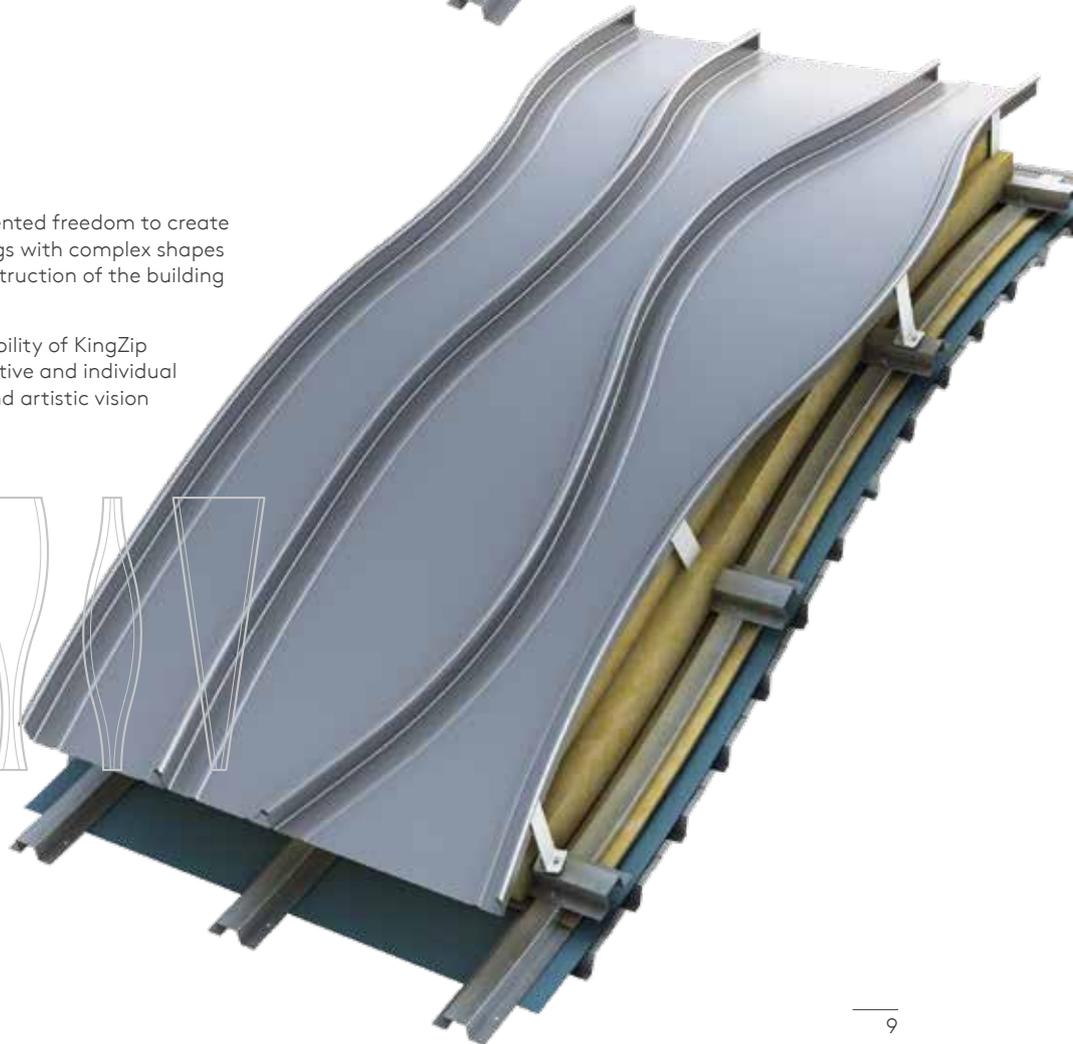
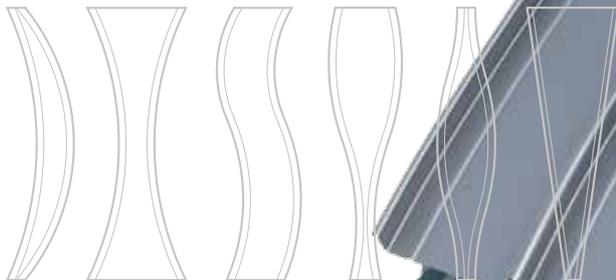
KingZip profiles are available in various curved options to suit the required application. The profile can be concave, convex or wave shaped incorporating both curves in one sheet. The sheets will self curve to a certain degree, otherwise they can be mechanically smooth or crimp curved.



KingZip Infiniti

KingZip Infiniti offers you unprecedented freedom to create extraordinary 3D geometric buildings with complex shapes and forms – taking design and construction of the building envelope to new levels.

Our unlimited manufacturing capability of KingZip Infiniti enables you to realise distinctive and individual buildings that showcase creative and artistic vision on a global stage.



Belmont Hub

This landmark building in Perth's City of Belmont is a unique community destination.

Set across four levels, the building houses a library, digital hub and recording studio, seniors' centre, museum, and office space for community service groups. A highly detailed, architectural design, the vision was to create a de-constructed building, pushing the boundaries architecturally with ideas not seen before on Australia's west coast.

Innovative and interesting materials helped achieve a sustainable, 5-star Greenstar-rated building. The external cladding delivered exceptional insulation performance as well as outstanding visual aesthetics with convex and concave curves, as well as angles all around the exterior. The KingZip Linea standing seam system was finished in EuraZinc, which is a cost-effective coating with zinc particles, that will age beautifully over time.



Location

Perth, Western Australia

Completed

2020

Products

Karrier Panels, Kingspan Shingles, Kingspan Interlocking Planks, KingZip Linea, KS1000 RW Roof Panels, Insulated box gutters





Caulfield Grammar School Aquatic Centre



A visionary facility that showcases innovative advances in aquatic sports technology.

The Caulfield Grammar School Aquatic and Wellbeing Centre features sustainable design elements including: an advanced pool water treatment system; high-performance glazing; and water-efficient fittings to reduce the building's carbon footprint and water consumption.

The KingZip Linea aluminium standing seam roofing system installed on the project was an integral part of the overall architectural expression of the building. Enveloping almost the entire building exterior, KingZip delivered the design flexibility required in terms of complex curvature, finishes, colour and acoustics.

KingZip was also highly suited to this project due to its non-corrosive properties, which ensures the humid pool environment will not affect the performance and integrity of the materials.



Location
St Kilda East, VIC

Completed
2019

Products
KingZip Linea,
KS1000 RW Roof Panels



NextDC P2 Data Centre



This award-winning commercial property was Perth's first Tier IV data centre and is the largest building of its kind in Western Australia.

It includes more than 10,000 m² of technical space and 10 high-density data halls. This high-performance building required building materials that could deliver exceptional air tightness, stable temperature management, and strong fire resistance.

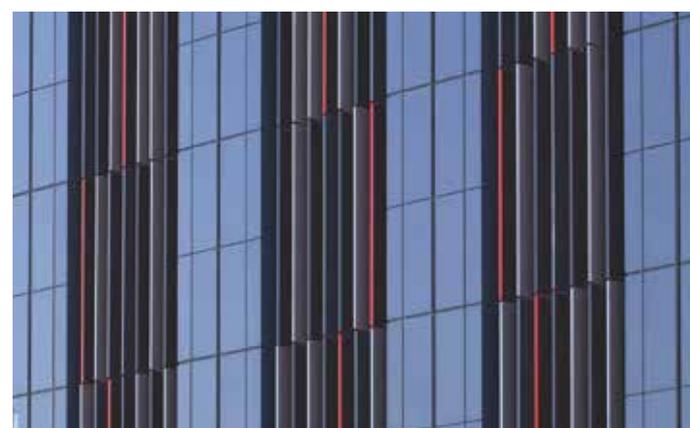
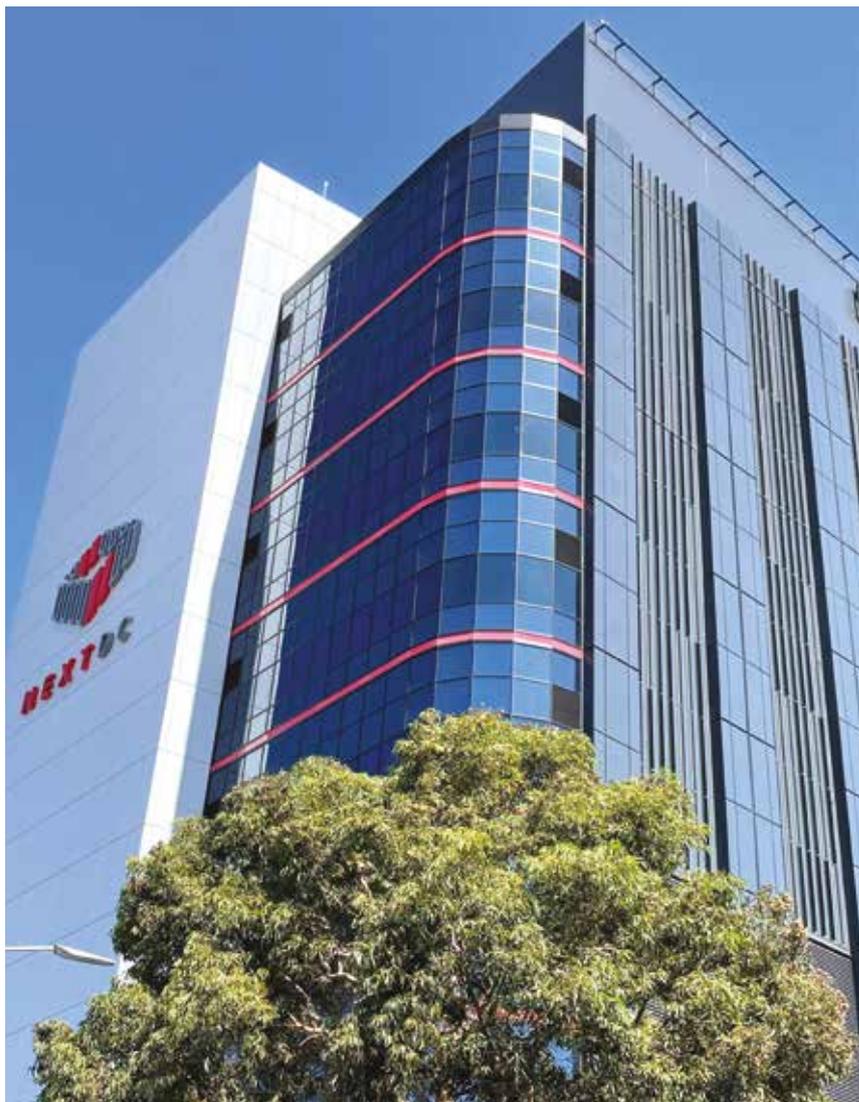
Designed with a Kingspan Insulated Panels façade solution, the exterior was cleverly clad in pre-modularised panels hoisted from the ground and fixed from the inside. Aluminium T-fins created a sense of movement when driving past the building, with bold red and metallic finishes adding to the industrial aesthetic.



Location
Perth, Western Australia

Completed
2020

Products
Eurobond Rainspan®, Kingspan Recessed Fixed Cassettes, Aluminium T-fin





Location
Perth, Western Australia

Completed
2020

Products
Kingspan Dri-Design and
Hook-On cassettes, Eurobond
Rainspan®, insulated box
gutters, KS1000 RW Roof Panels



Edith Cowan University Science Building

In 2020, Edith Cowan University's Joondalup Campus revealed a world-first design for its new science building; the world's largest periodic table.

The periodic table celebrates the building's purpose as a centre of scientific research and learning.

A bold and sophisticated architectural statement in this urban setting, the periodic table is made up of 360 Hook-On cassettes in two different colours that make the letters and text within the periodic table stand out. Dri-Design shadow and flat cassettes finished off the sleek design of the building. Completely enveloped in products from the Kingspan Insulated Panels range, the building is highly energy efficient, while also allowing natural light into the rooms.



WA Museum Boola Bardip

Located in the heart of Perth's cultural centre, the WA Museum Boola Bardip is a statement in architectural excellence and innovation.

It is a contemporary addition to the existing heritage-listed building, creating a grand entrance to the civic space that integrates classic and modern architecture.

The project required a lightweight building envelope that could be installed quickly but would also be aesthetically appealing and integrate well with the existing heritage structures. Kingspan provided a complete building envelope solution, increasing the speed of build compared to traditional built-up systems.

Given the significant cantilever over the existing heritage building, lightweight construction was of significant importance, as well as air tightness and thermal efficiency. A combination of Kingspan Karrier Panel system with Hook-On Cassettes were used to create a bespoke and engineered architectural façade solution.

The Kingspan Facades Hook-On cassette with Karrier Panel system was chosen due to its thermal efficiency.

In particular, the Karrier Panel can achieve R-values as high as 9.82 m²K/W.

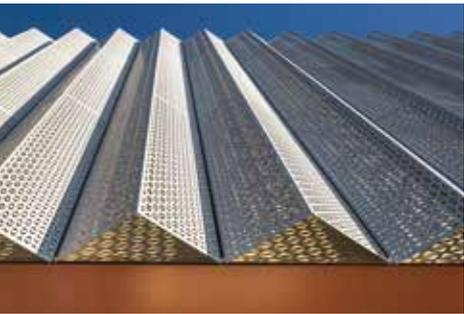


Location
Perth, Western
Australia

Completed
2019

Products
Kingspan Hook-On
Cassette, Karrier
Panels, Roofliner









Mullum Mullum Leisure Centre

Mullum Mullum Stadium is the jewel in the crown of Manningham sporting venues. The 6,000 m² stadium is one of the largest community sporting facilities in Melbourne's east, featuring five multi-use indoor courts and seating for up to 500 spectators.

Kingspan Evolution Axis panels provided the smooth finish and aesthetic appeal of a traditional aluminium façade with the value of insulated panels to finish the stadium's external walls and support the venue's sustainable outcomes.

Combined with Kingspan Shingles in three striking shades of gold, giving the stadium tonal variation for the aesthetic that the architect wanted to achieve.



Location

City of Manningham,
Melbourne, Victoria

Completed

2018

Products

Kingspan Shingles, Kingspan
Architectural Wall Panels,
Kingspan Evolution Axis
Panelised Facade

Pakenham Line Skyrail

When level crossings at three stations on Melbourne's Pakenham train line were replaced with new skyrail platforms, Kingspan's KingZip Linea standing seam system provided the freedom and flexibility needed to achieve a unique design aesthetic.

The skyrail platforms were designed to sit above the road to improve safety and traffic congestion.

The project architects chose KingZip for its unique ability to be tapered or smooth curved, ideally suited to the geometric shape of the skyrail canopy. On this project, the KingZip system was manufactured off-site and delivered to site in pre-fabricated modules with a bespoke designed expansion joint completing each section.

The KingZip system's flexibility fulfilled the architect's design requirements in terms of aesthetics, performance and construction.



Location

Murrumbeena, Carnegie and
Hughesdale stations, Victoria

Completed

2018

Products

KingZip Linea



Perth Stadium Station



Perth Stadium Station sets the scene for exciting sporting and music events as crowds arrive and depart Optus Stadium.

The city's second-largest station at the time of completion, it was designed to accommodate large crowds easily and efficiently.

Kingspan's KingZip system was the only product on the market capable of achieving the design geometry, aesthetic vision, natural ventilation and life expectancy set out for the project.

The arched concourse roof was formed by utilising Kingspan's mobile roll forming capabilities. The KingZip top sheets were manufactured and curved on site down a minimum radius of 2 m. To minimise the impact of corrosion from the Swan River, which runs past Optus Stadium, the KingZip Linea top sheets for the project were manufactured in 1.2 mm gauge aluminium with a high-performance three-coat PVDF system to meet the life expectancy requirements of Perth Transport Authority.



Location
Perth, Western
Australia

Completed
2017

Products
KingZip Linea







Location
Ashfield, NSW

Completed
2020

Products
KingZip Linea with aluminium
internal decking



Ashfield Aquatic Centre

This contemporary aquatic and fitness centre in Sydney's inner west has nine dedicated spaces and is expected to be used by 500,000 visitors annually for a variety of fitness and community-related activities.

Originally opened in 1962, the redeveloped resort-like venue includes five swimming pools, a 1,000 square metre health and fitness centre, café, creche, spa and sauna.

Accessible to everyone, the aquatic centre has been thoughtfully designed with fully accessible changing rooms, hearing loops for hearing-impaired visitors, wheelchair hoists and ramps.

The project featured a bull nose detail for a smooth transition from the roof to the facade, and KingZip met the aesthetic requirements as well as the construction, building performance needs and was ideal to achieve the radius required. KingZip provides exceptional structural, thermal, acoustic and fire performance as well as long-term protection against the corrosive environment associated with an aquatic centre.



Karrinyup Shopping Centre



Location

Karrinyup, Western
Australia

Completed

2021

Products

Kingspan Dri-Design,
Europanel





When this project commenced, it was the largest commercial construction project in Perth since November 2018. Upon completion, the shopping centre had nearly doubled its original size.

Inspired by Karrinyup's coastal location, as well as nearby bush and urban environments, organic forms and natural materials feature strongly in the exterior and interior design to reflect these themes.

The shopping centre is full of natural light, providing a sense of openness, and the facade is a striking display of curves and sea inspired hues created by Kingspan's Dri-Design facade system in seven different colours. This project was Kingspan's first large vertical format Dri-Design layout.

The curved facade needed to be faceted to suit the vertical staggered cassette layout, and a combination of flat and shadow Dri-Design panels were used to break up the large expanses of exterior cladding.

A non-combustible, high-performance, single component solution was required to clad the cinema box. Europanel met this requirement, while also improving the acoustic performance of the walls.





Bunjil Place

Bunjil Place is a \$125 million multi-purpose arts, civic and community facility in the outer Melbourne suburb of Narre Warren.

Housing a library, 800-seat theatre, gathering and meeting spaces, council offices, an art gallery, a flexible event space and an outdoor plaza. The facility is the first of its kind, bringing together creativity, entertainment and community.

The multi award-winning building was designed by FJMT and inspired by Bunjil, a character in Aboriginal mythology who created the land, animals and people. Bunjil placed a huge sense of importance on sustainability, encouraging the preservation of the environment, a point which trickled into the choices that were made in terms of the building's design and construction.

Sustainability was front of mind in the design of this building which utilises environmentally-friendly building materials and high performance facades to make the building as sustainable and energy efficient as possible. One of the building's most striking features is its curved roof, a complex and ambitious architectural design. Mythology recounts that Bunjil morphed into an eagle to watch over his people, and two large wooden features, descending from the roof, resemble his wings.



Location

City of Casey, Narre Warren,
Victoria, Australia

Completed

2018

Products

KingZip Linea



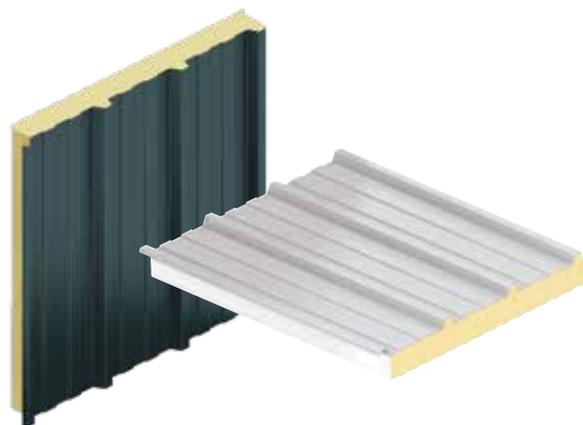
Wall and Roof Panels



Architectural Wall Panel

Architectural Wall Panels are an easy to install and versatile external wall cladding system suitable for commercial projects looking to make a strong visual impact.

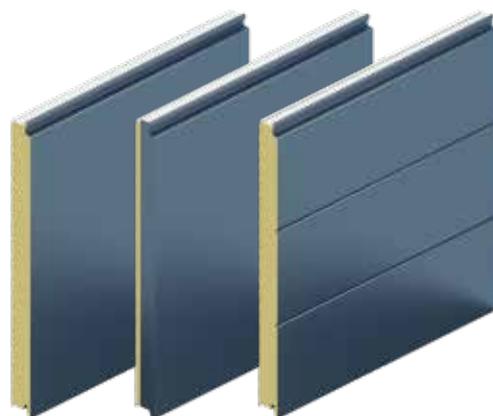
Profiles:	Mini-micro, Micro-rib, Plank and Wave
Fixing detail:	Secret-fix
Application:	Suitable for vertical or horizontal applications
Lengths (m):	2 to 13.7
Cover width (mm):	600, 900 and 1000



KS1000RW Roof and Wall Panel

Kingspan's versatile RW Trapezoidal panels can be used both as roof and wall cladding, with vertical and horizontal applications.

Profile:	Trapezoidal
Fixing detail:	Through-fix
Application:	Suitable for vertical or horizontal applications
Lengths (m):	2 to 13.7
Cover width (mm):	1000



Evolution Panelised Facade

Kingspan Evolution Panelised Facade is a highly streamlined, sleek unprofiled insulated panel system. Delivering a smooth and flawless finish, it is the perfect solution to achieve a minimalist facade on buildings with large flat surface areas.

Profiles:	Axis, Recessed, Multi-groove
Length (m)	2 to 7
Width (mm):	600, 900 and 1000

Eurobond Panels



Eurobond Europanel®

Europanel offers a range of high quality, insulated metal panel systems that deliver clean, smooth and aesthetically appealing solutions. With a stone wool core, Europanel® can provide fire resistance performance of up to two hours.

Fixing detail:	Secret-fix
Core type:	Stone wool non-combustible to AS1530.1
Application:	Suitable for vertical or horizontal applications
Lengths (m):	2 to 11.8
Cover width (mm):	1000 or 1100. Standard 1100



Eurobond Rockspan®

The Rockspan® wall panels can provide up to 4 hours fire resistance allowing the provision of solutions to different sectors and international markets. The through fixed joint detail enables simple and fast construction, eliminating wet trades and promoting single component construction.

Fixing detail:	Through-fix
Core type:	Stone wool non-combustible to AS1530.1
Application:	Suitable for vertical or horizontal applications
Lengths (m):	2 to 11.8
Cover width (mm):	1000 or 1100. Standard 1100



Eurobond Rainspan®

Eurobond Rainspan® provides structural support for rainscreen systems. With a flat profile and through-fix installation, Rainspan is suitable for vertical or horizontal applications. With a stone wool core this system provides built in passive fire protection for largescale buildings.

- R-values up to 5.45 m²K/W
- Stone wool non-combustible core tested to AS1530.1
- High acoustic performance
- Fire resistance performance of up to 120 minutes integrity and insulation
- Exceptional airtightness



Australian National Maritime Museum Warships Pavilion

Our Evolution range has been used to create a unique facade for the new Action Stations extension, housed in the Warships Pavilion, at the Australian National Maritime Museum in Sydney's Darling Harbour.

Completed in 2015, to mark the centenary of World War I, the Action stations experience is an exciting way for visitors to experience the compelling history of the Royal Australian Navy.

As a significant extension for the Museum, the building's design was to be both striking and functional, while bringing the narrative of maritime war to life.

The project scope required 891 m² of wall panels that would be slim enough to maximise the usable internal space while maintaining thermal resistance values. Due to the building's location on Darling Harbour, the exterior would need to be weather-proof and deliver continuity of colour despite the harbour-side environmental conditions.

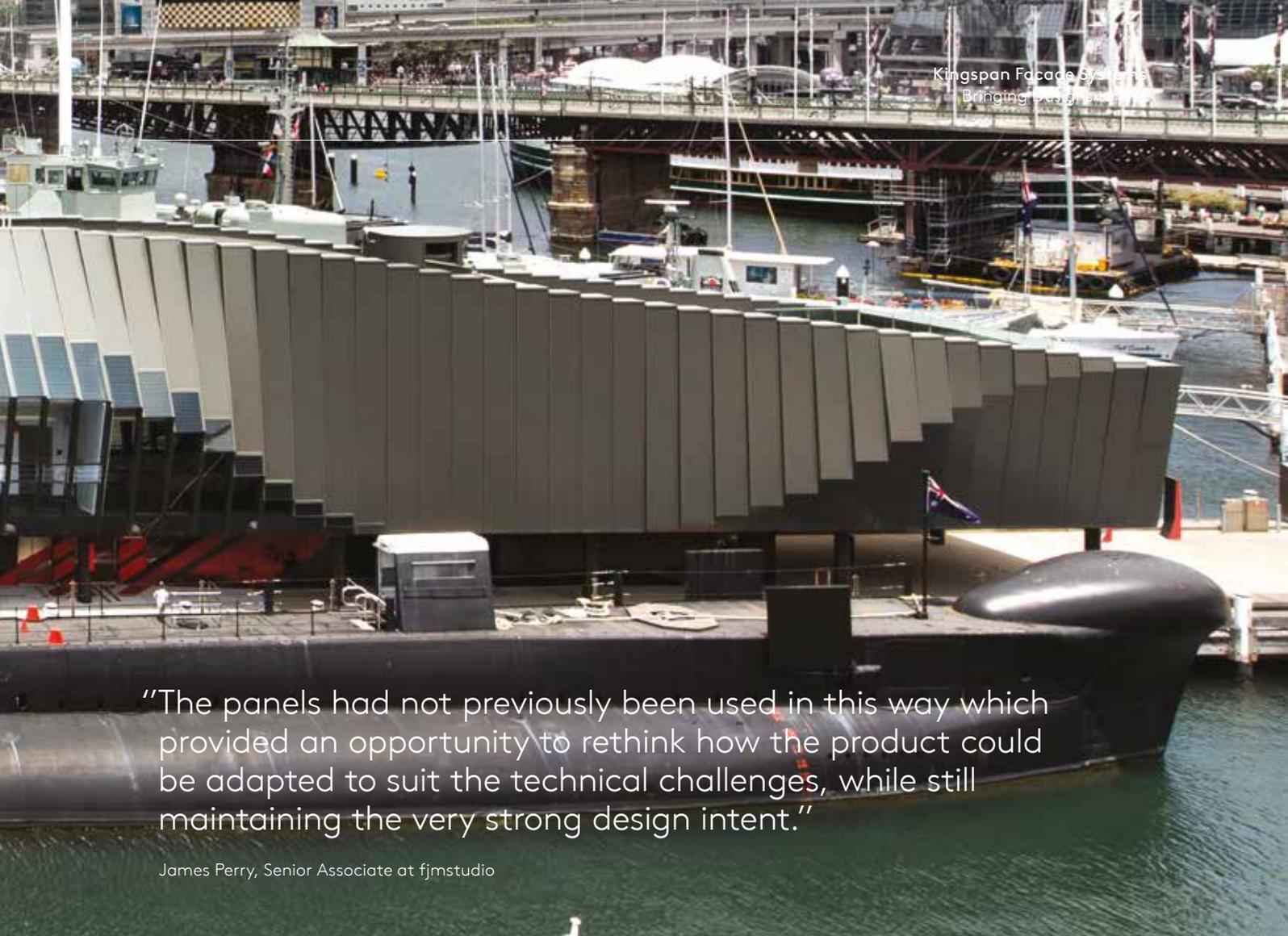


Location
Sydney, Australia

Completed
2015

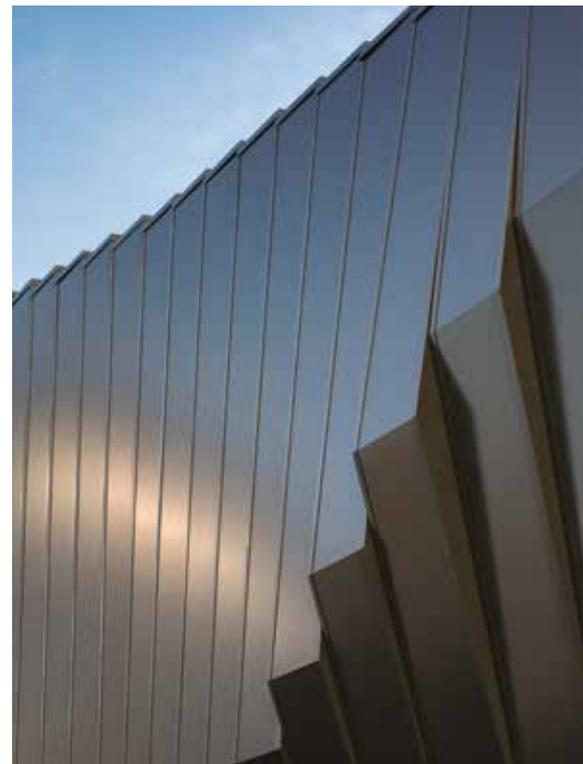
Products
Kingspan (KS1000 EVO)
Evolution facade panel





"The panels had not previously been used in this way which provided an opportunity to rethink how the product could be adapted to suit the technical challenges, while still maintaining the very strong design intent."

James Perry, Senior Associate at fjmstudio



STIHL Distribution Warehouse

Yatala, Queensland



Pakenham East Train Maintenance Facility

Pakenham East, Victoria





NSW Intercity Fleet
Maintenance Facility
Kangy Angy, NSW



Aurora
Apartments
Re-Cladding
Project
St Kilda, Melbourne,
Victoria

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For the product offering in other markets please contact your local sales representative or visit www.kingspan.com

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