

Ideas Book

BENCHMARK
by Kingspan

Ideas
Book

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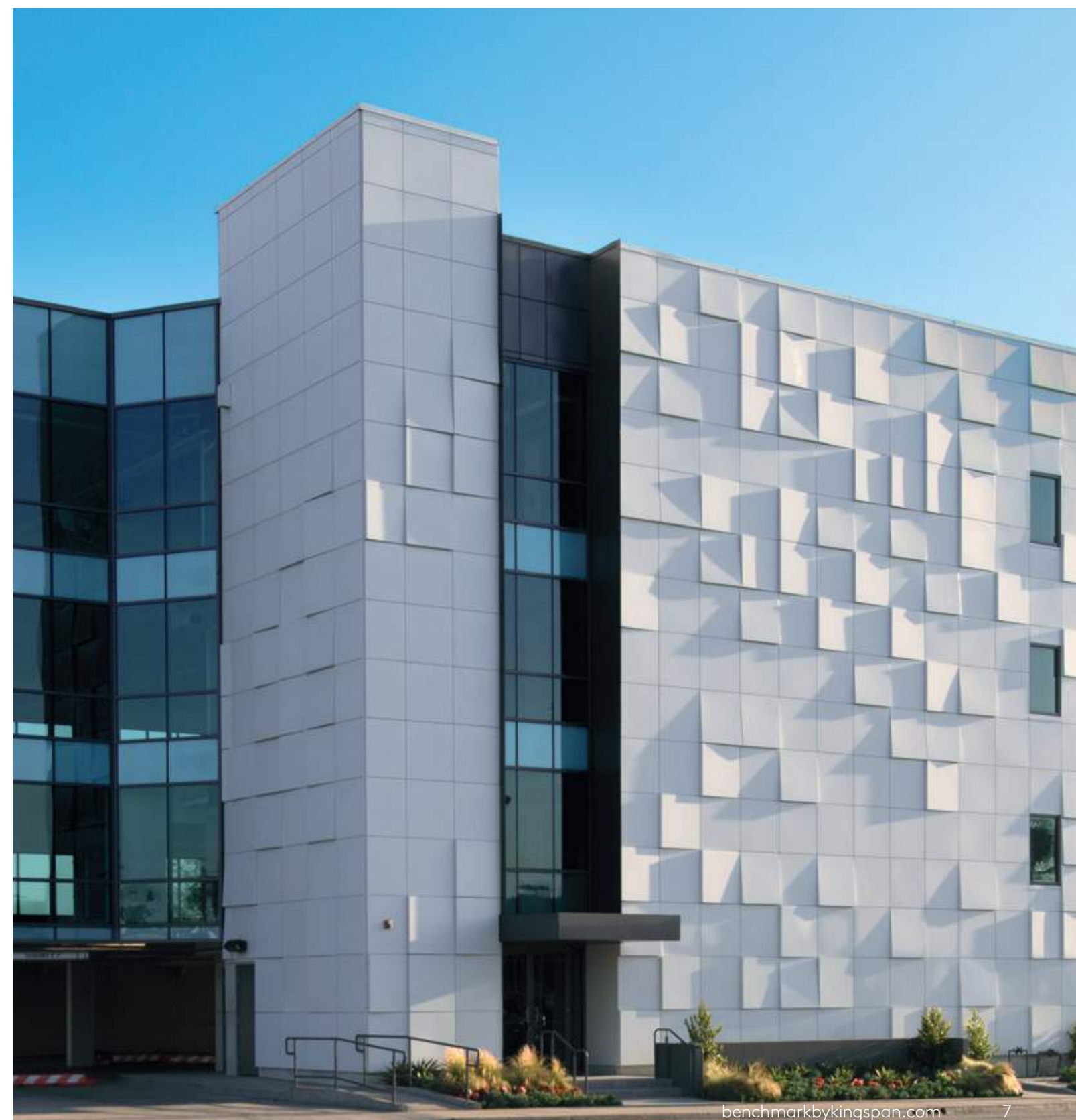
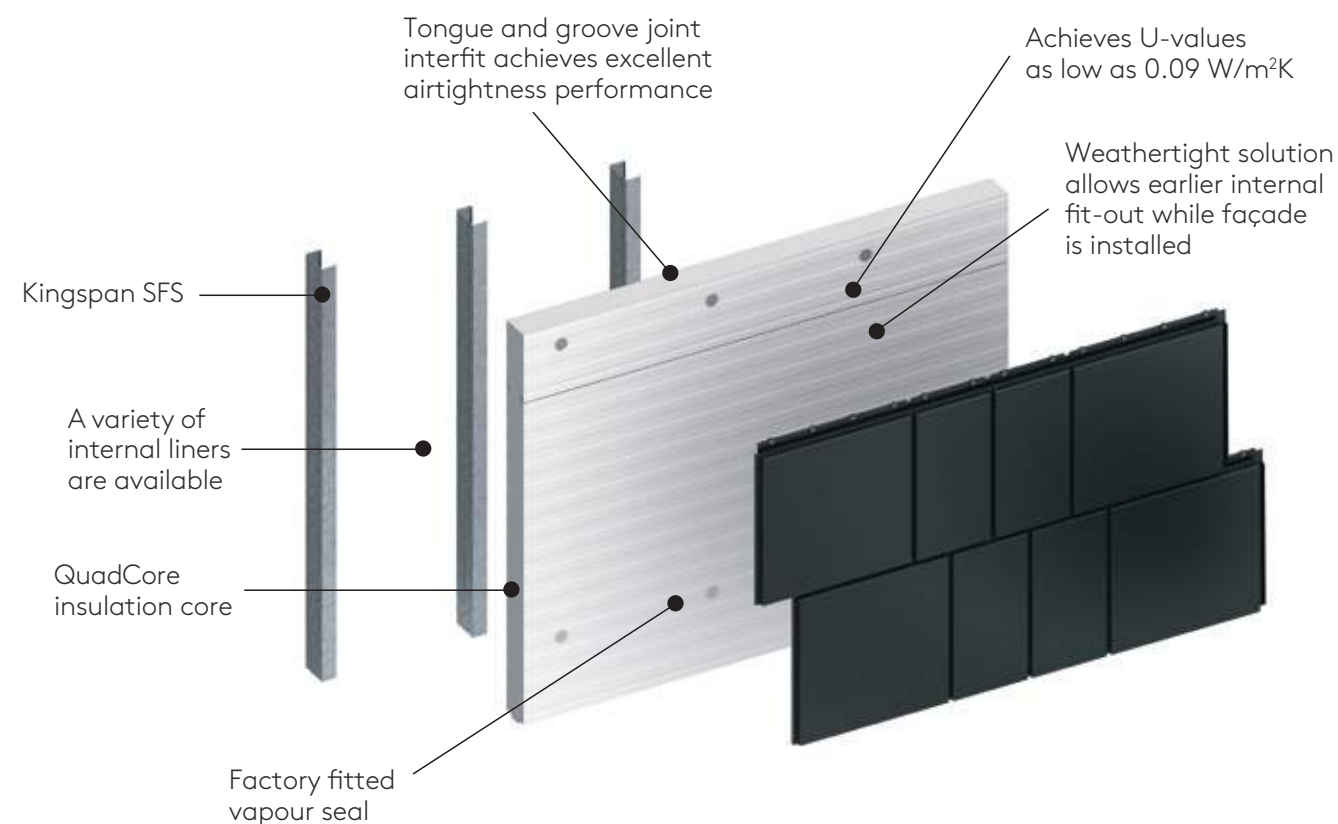
BENCHMARK by Kingspan focuses on providing a range of tested and certified high performance and rapid install envelope solutions for three key building areas: rainscreen façades, panelised façades and roofing systems.

For buildings with complex designs, high aesthetics or requiring a ventilated façade, our system provides a rapid build solution with a high level of technical performance. We can achieve this with our extensive range of cassette types and finishes including a patented SuperFast Install Dri-Design metallic rainscreen cassette which is installed over our QuadCore Karrier wall panel. The Dri-Design cassettes are available in highly durable PPC or anodised Aluminium, stainless steel, weathered steel, zinc or copper, and in a range of shapes and sizes.

The Dri-Design façade is installed onto a QuadCore Karrier Panel which utilises our hybrid QuadCore insulation with a unique 40 year thermal and structural performance guarantee. The QuadCore Karrier can be prefabricated or site installed onto Kingspan SFS studs to provide a full structural wall solution.

Our through wall solution is fully tested to comply with BR 135 to BS8414 requirements for buildings over 18m high. In addition, our systems have been CWCT tested and our SFS systems are BBA approved. They come with a 30 year through-wall system guarantee.

In situations where BENCHMARK does not offer a specific façade type to meet the client or designer's requirements we can work with your required façade supplier to provide structural calculations to ensure your façade is adequately fixed to our QuadCore Karrier panel or SFS studs.



Roofing Solutions

For buildings with a variety of roof finishes, BENCHMARK by Kingspan offers three different roof solutions. All of our Roof Solutions are specifically designed to carry an architectural or performance roof product.

Our QuadCore Roofliner panel can be used to provide a thermal and structural base for traditional hard metal roofs such as zinc or copper, or for flat roof situations where traditional Bitumen Hot Melt, PVC or TPO roof membranes are installed. The QuadCore Roofliner offers a very fast install option which will offer a virtually watertight roof area and a safe and permanent work surface while the finished roof solution is being installed.

QuadCore Roofliner utilises our hybrid QuadCore insulation which has a unique 40 year thermal and structural performance guarantee.

Our Envirodek structural roof panels are designed to carry green and brown roof installations. The Envirodek panel has a deep profiled deck on the underside of the panel allowing this unique insulated roof panel to span up to six metres. Similarly our Topspan is designed for flat roof situations where traditional Bitumen Hot Melt, PVC or TPO roof membranes are installed. Topspan utilises the same deep profiled deck as the Envirodek panel thus achieving the same impressive six metre span. Both Envirodek and Topspan can be utilised to cover large roof surfaces very quickly. Both panels have impressive span capabilities and usually are installed spanning from main steel frame to frame removing the requirement for secondary steel roof purlins, thus speeding up the roof installation time.



Panelised façades

For buildings with a more linear façade or where the design requires a simpler solution, BENCHMARK by Kingspan can offer two panelised façade options, QuadCore Evolution or Kreate wall panels.

Both QuadCore Evolution and Kreate offer a simple and effective single component solution, which deliver aesthetically pleasing finishes with exceptionally fast install time.

QuadCore Evolution is a flat smooth wall panel available in a very wide range of colours and finishes. The product is available in cover widths from 600mm to 1000mm in 1mm increments. Panels can be installed either horizontally or vertically and QuadCore Evolution utilises our hybrid QuadCore insulation which has a unique 40 year thermal and structural performance guarantee.

Kreate utilises aluminium aspect cassettes in a multi-cassette layout to mimic the appearance of a rainscreen component system. However, the cassettes, supporting rails and insulated panels are installed as a single insulated panel. This unique BENCHMARK offering gives designers significant flexibility while retaining the SuperFast Install associated with BENCHMARK products.





One Brewery Wharf

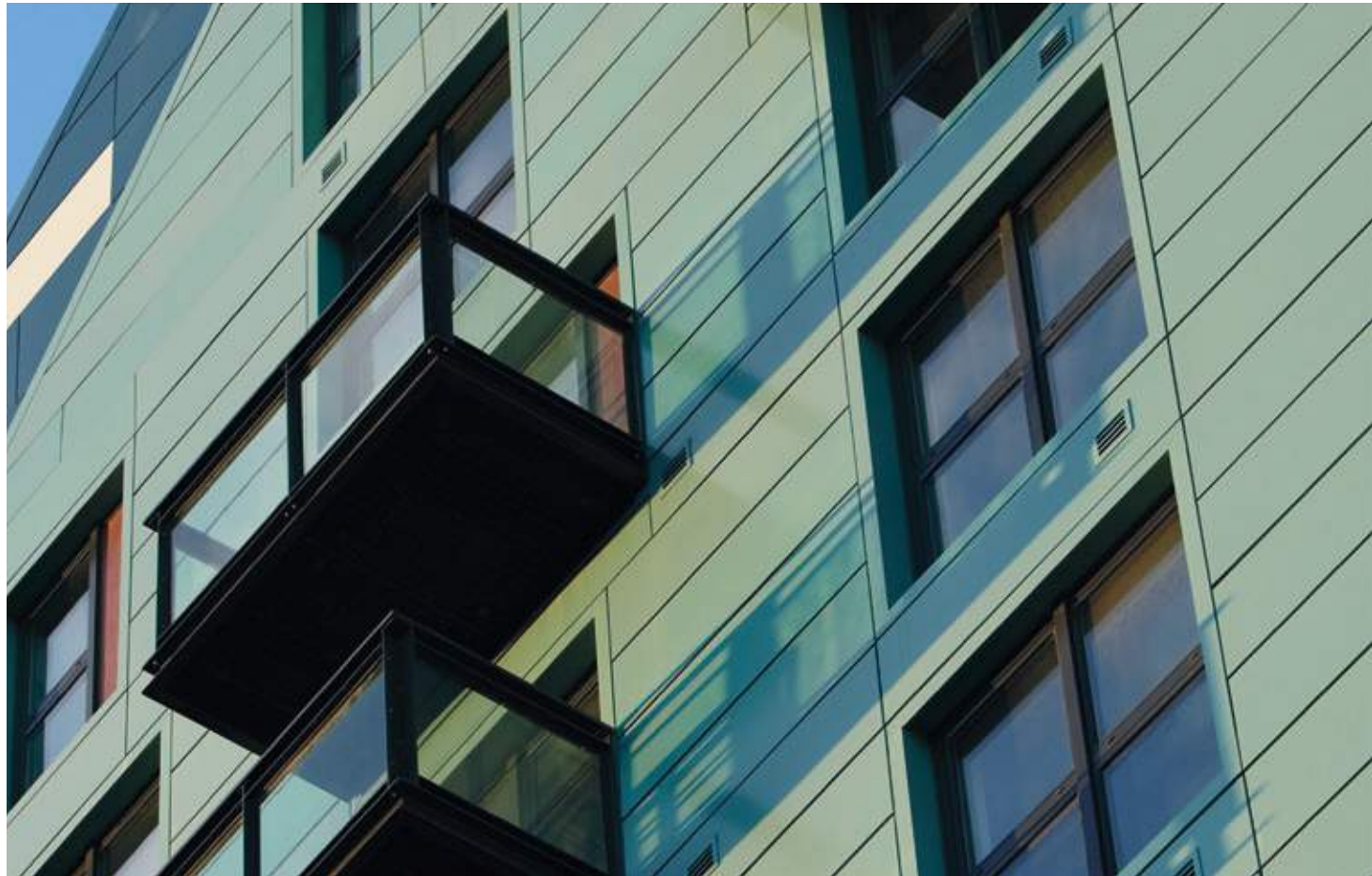
Project
One Brewery
Wharf

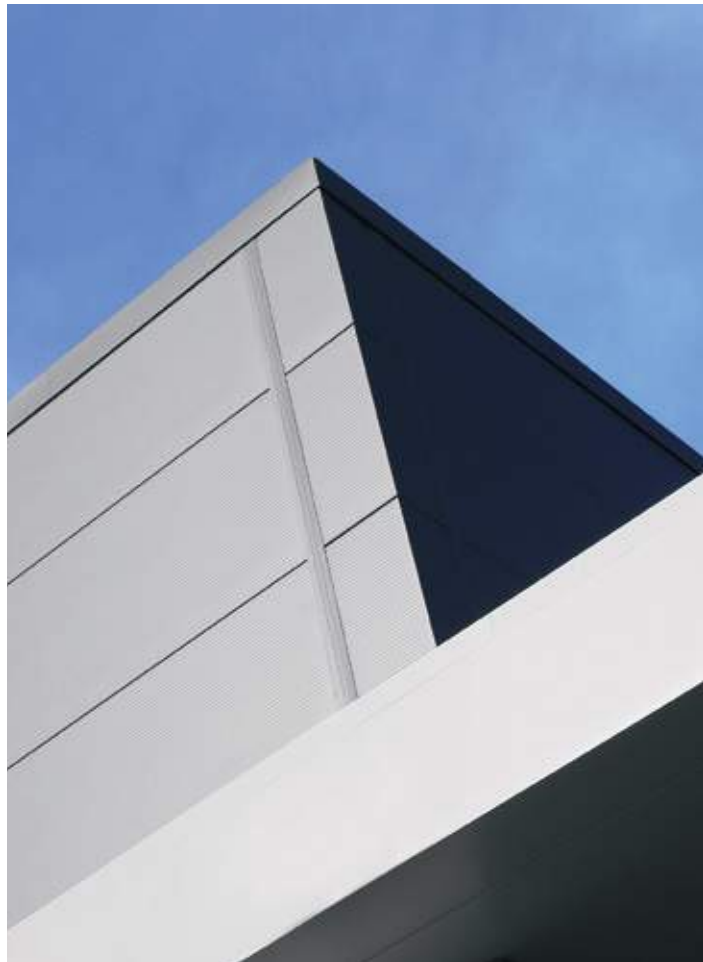
Location
Leeds, UK

Product
Karrier System
Hook-on
Cassette

Material
Painted ACM

Architect
DLA
Architecture





Toyota Liffey Valley

Project
Toyota
Liffey Valley

Location
Ireland

Product
Recess Fix
Cassette
Evolution Reveal

Material
ACM
Painted Steel

Architect
Node



Balmoral
Business Park

Project Balmoral Business Park	Location UK	Product Kreate	Material Aluminium	Architect Halliday Fraser Munro
---	-----------------------	--------------------------	------------------------------	--



Beth Tfiloh

Maryland, USA

Product
Dri-Design Flat

- **Material**
Painted
Aluminium

- **Architect**
WMCRP
Architects

"We hadn't used it before but we were familiar with it. We liked the idea of the rainscreen approach and avoiding sealant joints which can be problematic. Dri-Design offers a good interlocking system."



Carleton College Weitz Center

Minnesota, USA

Product
Dri-Design Flat

- **Material**
Painted
Aluminium

- **Architect**
Meyer Scherer
& Rockcastle Ltd

"That's where the Dri-Design came in. By using a modern, clean material, we were able to transform the identity of a tired old middle school to the sophisticated level of a contemporary liberal arts college."



Bradford
College Campus

Project
Bradford
College
Campus

Location
Bradford, UK

Product
Karrier System
Hook-on
Cassette

Material
Aluminium

Architect
Bond Bryan
Architects



Central Fleet



Project
Central Fleet

Location
USA

Product
Dri-Design
Tapered

Material
Painted
Aluminium

Architect
Continuum
Architects +
Planners SC,
Milwaukee



"Dri-Design was selected because it provides a high-performance pressure equalized rainscreen design that directs condensation from the back through an internal gutter system and weeps it out the bottom of the wall. This keeps the internal wall cavity dry and prevents streaking from occurring on the outside of the building."

John Schremp, Architectural Products of Wausau Ltd

The Milwaukee County Sheriff's Building on Watertown Plank Road was demolished because of I-94 expansions. The 5,300m² central shop was gutted so Continuum Architects + Planners SC, Milwaukee, could prepare the new headquarters and efficiently add office space with meeting and training rooms. A 5,126m² addition was needed to accommodate the additional departments moving into the building. The architects were challenged to create a renovated space that is open to the public but also very secure for the sheriff's department.

Sustainable features also were a priority, such as a 2-storey glass south-facing entrance that floods the lobby with natural lighting. A variable refrigerant flow mechanical system with smaller units and taps was connected to the boiler. The Dri-Design rainscreen cassettes also bring sustainability to the project.

Schremp notes: "The new façade adds life to the building. As you move past the building the sun catches the tapered surfaces at different angles. This, in combination with the three colours, continually changes the building's appearance."





Chicago Theological

Illinois, USA

Product
Dri-Design Flat
-
Material
Painted
Aluminium
-
Architect
Nagle Hartray
Architecture

"The project started as a natural metals job but we worked with the design team to stay within budget by using a painted finish to deliver the desired look."

Scott Cryer, Project Architect.



Clemson Memorial Stadium

South Carolina, USA

Product
Dri-Design Flat
-
Material
Painted
Aluminium
-
Architect
LS3P

"The rainscreen system did not require any sealants or gaskets, which was an important maintenance consideration for a 43m tall tower."

Jaime Henderson, Associate Architect with LS3P.

Friars Walk Shopping Centre

Location

Newport, UK

Product

Karrier Panel and Hook-on Cassette

Material

Aluminium

Architect

Leslie Jones Architecture

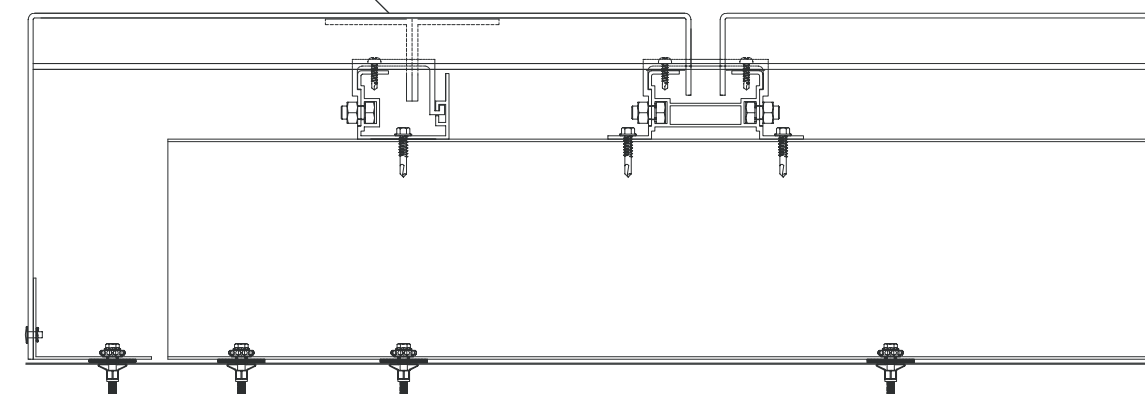
Project Overview

Kingspan's integrated systems and building technology have been used to create this vibrant 118,872m² landmark retail and leisure development at the heart of Newport, Wales, meeting stringent demands for façade design, rapid build and superior energy performance.



Technical Illustration

Aluminium Hook-on Cassette



Project Overview

The architect's design philosophy was to create a series of buildings each with their own individual character, using a colour palette that referenced the locality. Alongside brick and timber, they chose Kingspan's Karrier system with aluminium cassettes in shades of green to reflect the surrounding hills, and in terracotta hues reminiscent of some of the older buildings

in Newport city centre. During the planning process, the colourful design was brought to life using digital models to show the coloured elevations, and the architects used physical product samples to help illustrate the concept to planners, the Design Review Panel and the public.

One of the largest buildings on the site was designed for retailer Debenhams. Because this was immediately adjacent to a narrow street, it was important to minimise the sense of mass of the building to be sympathetic to the location. The architect worked closely with Kingspan to determine the most appropriate colours and finishes to be used in the building façade to achieve this effect.



“We worked closely with Kingspan and the subcontractor to arrive at a technical solution that delivered on our design philosophy.”

Brian Tracey, Director,
Leslie Jones Architecture

Build Stage

Kingspan’s involvement in the Friars Walk project went beyond the typical role of a manufacturer. Because of the unique design and performance specifications for the site, Kingspan was asked to work closely with the architect and contractor from day one to determine creative solutions to some of the design challenges in the brief.

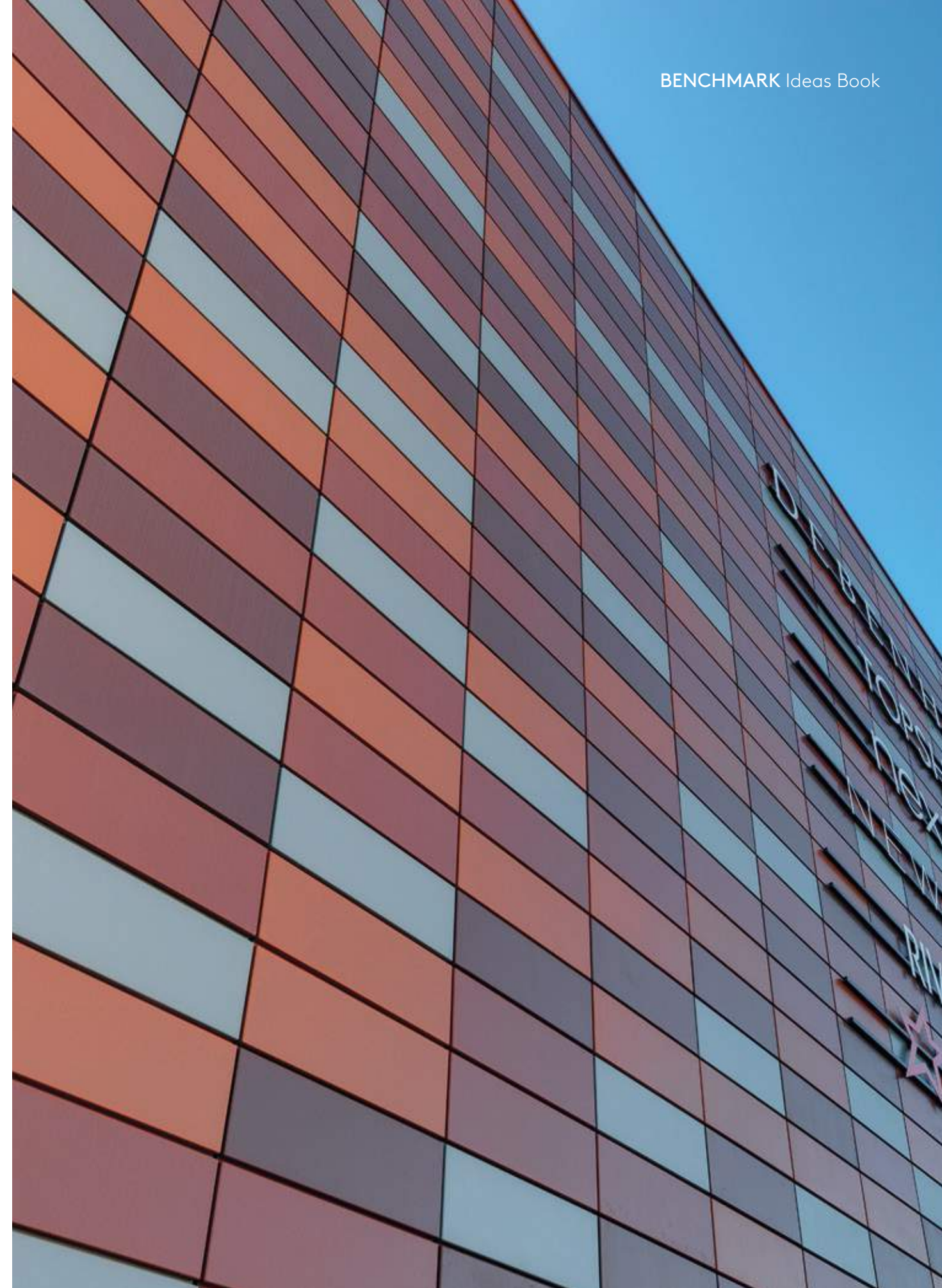
These challenges included the creation of a number of bespoke ancillaries, including vertical rails for the hook-on cassettes, factory cranked corner cassettes to give a smoother look, flashings made

to match the thickness of the cassettes at strategic reveal points, and a penetrating steel fixing solution for store signage.

For the cinema building, Kingspan worked closely with the cladding contractor and the architect to deliver a colourful terracotta façade incorporating LED lighting, ensuring the building’s bright design made an equally strong impression at night long with its design flexibility, the BENCHMARK integrated façade system was chosen because it allowed the contractor to quickly create a weathertight building, which

meant internal fit out could take place sooner, concurrently with the finishing details on the façade. The system was also chosen because of its superior thermal insulation and air tightness performance.

With minimal junctions and reduced air leakage, it was easier to achieve the desired BREEAM ‘Excellent’ rating, all while allowing for maximum design flexibility.



Performance Results

1.

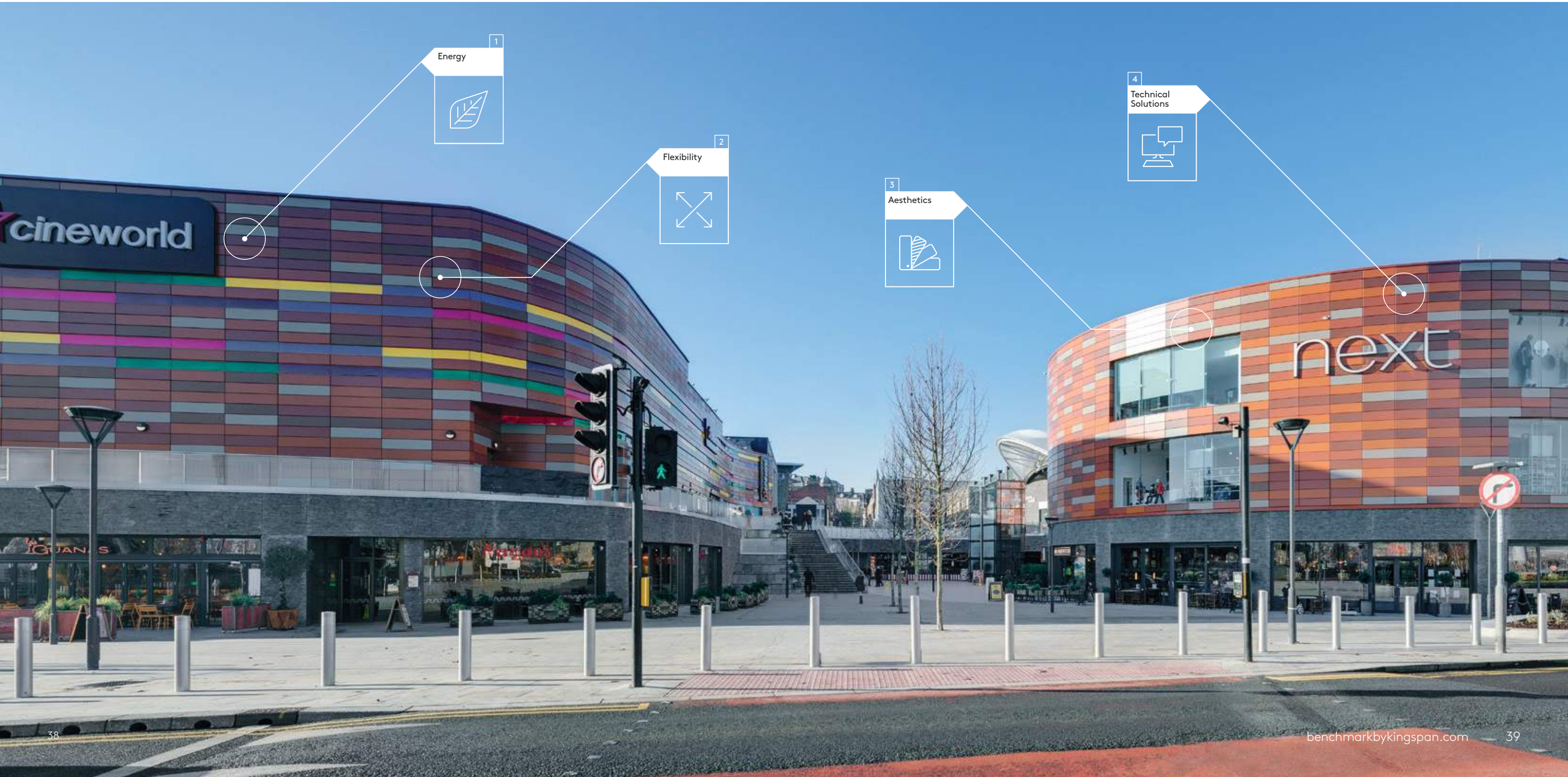
With minimal junctions and reduced air leakage, it was easier to achieve the desired BREEAM 'Excellent' rating, all while allowing for maximum design flexibility and with the confidence and simplicity of a single supplier.
2.

The inherent flexibility of the Karrier system together with close collaboration with the architect resulted in a bespoke solution for this project including an integrated lit façade, sleek signage, contrasting gloss and matt finishes, specialist flashings at strategic reveal points and unique corner features.
3.

The architect's design philosophy was to create a series of buildings each with their own individual character, using a colour palette that referenced the locality.

Alongside brick and timber, aluminium cassettes in shades of green were chosen to reflect the surrounding hills, and in terracotta hues reminiscent of some of the older buildings in Newport city centre.
4.

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General Mitchell International Airport



Project
General Mitchell
International
Airport

Location
Wisconsin,
USA

Product
Dri-Design
Shadow

Material
Painted
Aluminium

Architect
Engberg
Anderson
Architects,
Milwaukee

"The dimensional feature wall is very dynamic, both elegant and playful at the same time."

Debra Sider,
Engberg Anderson Architects.



Passengers flying at General Mitchell International Airport in Milwaukee are now greeted by a stunning new baggage claim area that opened in July. The high-traffic area needed a durable interior and exterior material that also improved the aesthetics to enhance passengers' experiences. This was accomplished through Dri-Design Shadow, Flat and column covers for the renovation and expansion project.

"There are various infill, wall and column cover conditions where metal cassettes could achieve that level of durability, provide a long-lasting colour and finish, and be easy to maintain," said Debra Sider, principal with Engberg Anderson Architects, Milwaukee. "In addition, the cassettes were installed in both existing and new construction locations. From an aesthetic perspective, they provided continuity across the overall building."

The aluminum flat and shadow series metal cassettes were finished in Bone White and Bright Silver. The white were used outside, and the silver were used for an interior feature wall, which runs the length of the building and through to the exterior. This feature wall adds a mosaic quality to the interior space, consistent with other design features in the project. Skylights that run the length of the building illuminate the cassettes, bringing a reflective and colour-changing quality to the multi-dimensional wall. The smooth-finish white cassettes blend with the other white clad buildings adjacent to the baggage claim.

"The dimensional feature wall is very dynamic, both elegant and playful at the same time," Sider said. "The flat cassettes used on the column covers and other exterior walls are stunning. Metal cassettes were installed using a rainscreen system that meets our constructability standards. The details work well with the other exterior glass and precast materials."



Dri-Design cassettes were selected because they also provided a variety of highly durable and long-lasting colours and finishes.

The baggage claim building is designed to be LEED certified, and the Dri-Design products added points for recycled content, recyclable material, regional fabrication and no VOCs. It was economical and cost competitive. John H. Schremp, P.E., president of Architectural Products of Wausau, added: "Dri-Design was also selected for its unique rainscreen design using a solid aluminum sheet. The highly automated fabrication of the cassettes ensured that the cassettes would have extremely tight tolerances. At the interior, Dri-Design was selected again for its high quality in fabrication and also for the ability to provide a shadow wall feature extending over the 128m wall."

This three-phased project took place from September 2013 to July 2015. Working on an existing building required coordination and scheduling; the owner did not want to disrupt the more than 800,000 passengers who travel through the airport each month. Some wall cassette details had to be determined on site to conform to existing conditions that were not apparent during the design stages. Dri-Design worked with the architect and contractor to provide the most appropriate solutions.

The project addressed 13,716m² of space in the basement to accommodate five conveyors, two data rooms, other A1:154 rooms, and new and updated building systems; 13,716m² of space on the first floor, including five carousels, seven entries, north and south lobbies, gathering space, seven baggage service offices, general offices, ADA restrooms and vending areas; and the second floor added 1,219m² for 10 offices, as well as new north and south mechanical penthouses for HVAC and electrical systems.





Hilton Garden HIII 7

Washington, USA

Product
Dri-Design
Flat &
Tapered

- **Material**
Painted
Aluminium

- **Architect**
Jeffrey Goupil,
Senior Associate
with Aedas
Seattle LLC

"We were looking for a metal cassette system where we had freedom with the vertical joint alignment. The design allowed for staggering of the vertical joints."



Mattahunt Elementary

Massachusetts,
USA

Product
Dri-Design
Perforated

- **Material**
Painted
Aluminium

- **Architect**
Gale Associates,
Inc., Weymouth,
MA in conjunction
with Utile, Inc.

"We looked at several exterior systems and selected the Dri-Design system based on high performance and cost benefit. It also allowed us to bring a lot of life and colour to the renovated building."

Brian Neely, Gale Associates.

Aquatics Centre Aberdeen



Project
Aquatics
Centre

Location
Aberdeen, UK

Façade
Karrier System
& Shingle

Material
Aluminium
(Shingle)

Architect
FaulknerBrowns





Project
Edinburgh
Airport

Location
Edinburgh, UK

Product
Evolution
Multi-Groove
& Create

Material
Painted Steel
(Evolution)
Aluminium
(Create)

Architect
Archial Group





KaTom Chef Supplies

USA

Product
Dri-Design Flat
-
Material
Painted
Aluminium
-
Architect
R2R Studio
LLC,
Copperwire,
Dovetail and
Gauntlet Gray



University of Arizona

USA

Product
Dri-Design Flat
Perforated
-
Material
Anodised
Copper
-
Architect
NAC/
Architecture



Kirkland Cancer Center

Tennessee, USA

Product
Dri-Design
Tapered

-

Material
Painted
Aluminium

-

Architect
Davis Stokes
Architects

"This wall has a 3D look with active shadows that only Dri-Design can do so uniquely."

Mel Bindas, SECO Architectural Systems.



Norton Paediatric

USA

Product
Dri-Design Flat

-

Material
Painted
Aluminium

-

Architect
Laughlin
Millea Hillman
Architecture

"The facility was designed to be playful, yet energy conscious with elements such as insulated concrete form walls, a fully integrated geothermal mechanical system, fenestration specifically located to bring natural light into public spaces and a Thermoplastic Polyolefin Roof (TPO) system for increased solar reflectance."

Knightstone Housing Association Office



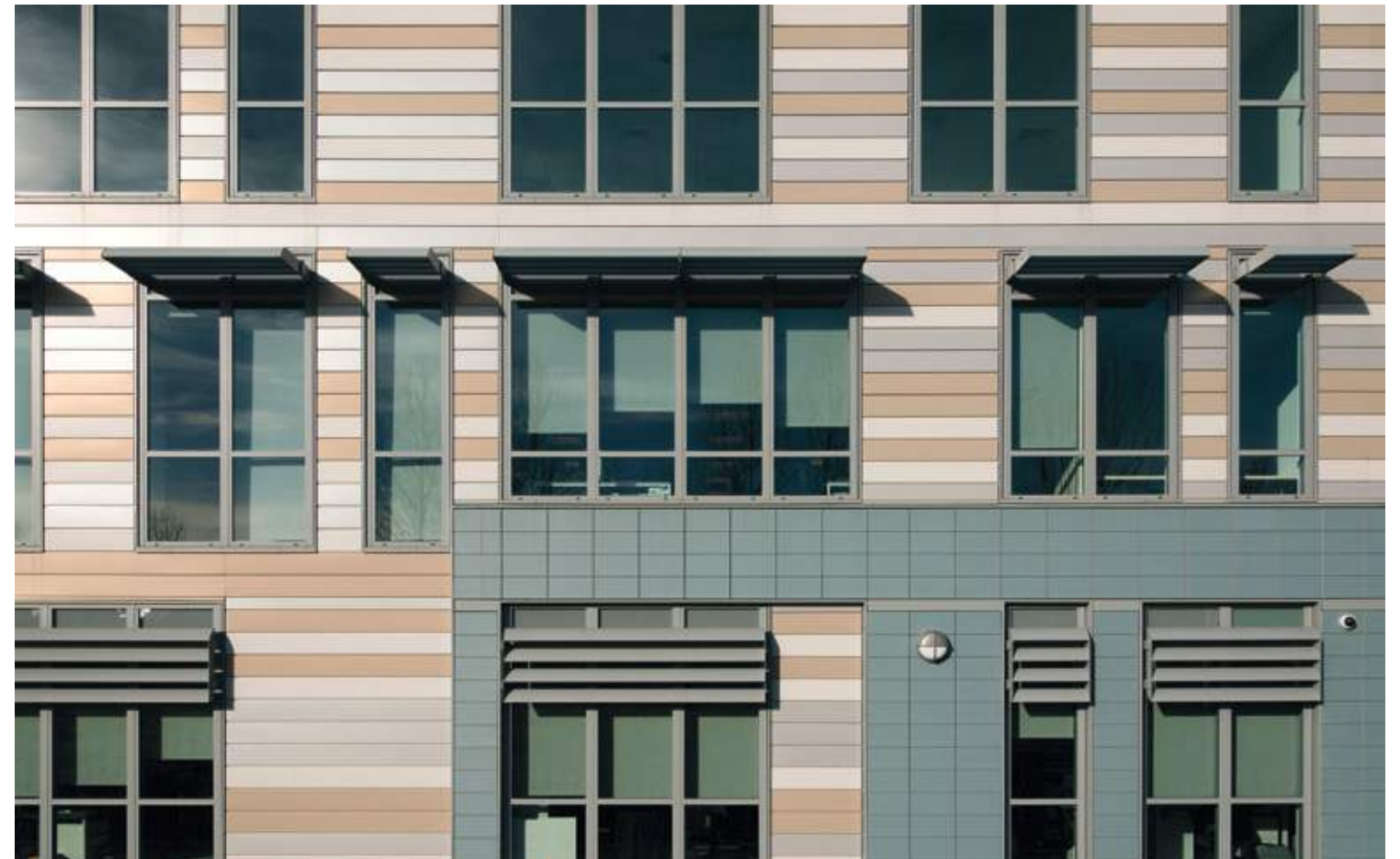
Project
Knightstone
Housing
Association
Office

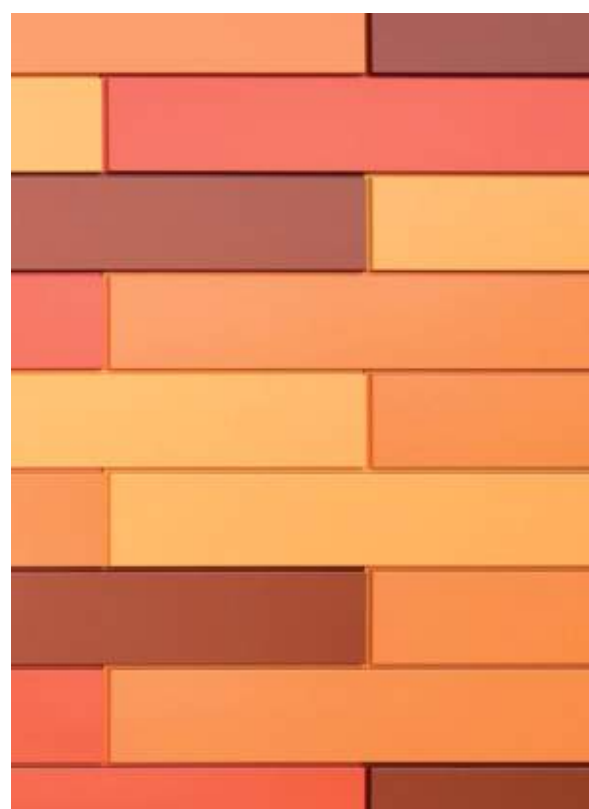
Location
UK

Product
Karrier System
& Interlocking
Plank Cassette

Material
Painted
Aluminium

Architect
Barton Willmore





Lime Apartments USA

Product
Dri-Design
Flat

Material
Painted
Aluminium

Architect
Boarman Kroos
Vogel Group



Longwater Place

Project Longwater Place	Location Massachusetts, USA	Product Dri-Design Shadow	Material Painted Aluminium	Architect Steffian Bradley Architects
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“The existing building while dated was structurally sound, and and Steffian Bradley Architects proposed an image that would be light, metal, horizontal and colourful.”

Joseph Sirkovich,
Steffian Bradley Architects.



Owners of multi-tenant properties can look to Longwater Place, Norwell, Mass., and the application of the Shadow Series from Dri-Design for inspiration on how to designate specific rental spaces while inviting customers inside. The Dri-Design Wall Cassette System created a lively and interactive exterior for the original building and an office addition.

FoxRock Properties purchased the 25-acre site that included a large parcel of land and a functional headquarters with warehouse space in 2010. Instead of demolishing the building, the group worked with architectural firm Steffian Bradley Architects, Boston, to transform the structure into sustainable leasing space. “The building had some existing tenants that were considered anchor tenants, and the cost to knock down and rebuild was an expensive option,” noted John Cummings, executive director of property and construction with FoxRock Properties. “The existing building while dated was structurally sound, and we had a vision how it would work as a campus environment with the new 24,384m² medical building that we constructed.”

An exterior face lift was part of the vision to transition from the precast corduroy concrete tilt-up cassettes that made a dark, heavy, fortress-like structure. “Because of this, Steffian Bradley Architects proposed to the owner to pursue an image that would be the complete opposite—light, metal, horizontal and colourful,” explained Joseph Sirkovich, AIA, LEED AP BD+C, a principal with Steffian Bradley Architects.

The design team was drawn to the Dri-Design cassettes because they liked the look of them on another building in the area. Ease of installation, as well as custom colours and sizes, added to the Dri-Design appeal. Building Envelope Systems, Hopedale, Massachusetts, installed the aluminum Shadow Series over Tyvek, plywood and the existing concrete cassettes. Even though the depth of the Shadow Series changes, the building remains watertight because the substrate for each cassette is at the same level.

The project required cassettes in five distinct custom colours. The different colours were used to designate the office, medical office and laboratory with three glass lobbies, exterior entrances and two atriums.

Connecting corridors run through the existing facility with a similar dramatic colour scheme and lighting. The space was ready for tenants in Autumn 2013.

FoxRock Properties’ commitment to the environment meant sustainability was incorporated throughout the building. Green items include energy-efficient windows with solar controls; skylights; a new roof; mechanical, electrical, plumbing and fire protection upgrades; natural landscaping; paver and pervious pavement sidewalks; and single stream recycling. Dri-Design cassettes are sustainable, as well, because they are made locally from domestic aluminum mills to save energy and associated costs. The cassettes do not use silicone sealants or plastic cores like competing products, and finishes do not have any VOCs. Longwater Place was recognized with a Sustainability Award for Green Construction by the Associated General Contractors of Massachusetts.



Millwood Library



Project Millwood Library	Location Alberta, Canada	Product Dri-Design Tapered	Material Anodised Aluminium	Architect HCMA Architecture + Design, Vancouver and Dub Architects Ltd, Edmonton
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"Dri-Design was selected because they offered a compelling latitude to experiment.

"We were able to create an incredibly rich and surprising effect while maintaining a rational approach and straight-forward constructability."

Michael Dub, Dub Architects Ltd.



4,572m² of aluminum Dri-Design Tapered cassettes were installed at the Mill Woods Library, Seniors and Multicultural Centre in Edmonton, Alberta, Canada. Tapered Series cassettes can be angled in any direction with varying depths and degree of slope. This freedom to design each specific panel creates an unlimited capacity to create a dynamic, one-of-a-kind surface on nearly any façade without the need to modify the substrate or weather barrier.

"Dri-Design was selected because they offered a compelling latitude to experiment. We were able to create an incredibly rich and surprising effect while maintaining a rational approach and straight-forward constructability," says Michael Dub, a principal with Edmonton-based Dub Architects Ltd., which completed the joint venture project with HCMA Architecture + Design, Vancouver.

The two firms collaborated throughout every design phase to create a strong civic presence among buildings that lack profile. Darryl Condon, managing principal with HCMA, notes: "Our strategy was focused on creating a bold form that asserts itself on the context. We wanted the public spaces of the library to be read clearly upon approach and for those spaces to have a strong visual connection with the site."

This goal was accomplished with the juxtaposition of open spaces and metal panels that blend to create a singularly strong structure. The building itself gives an open feel, allowing visitors to view interior spaces from the outside. When glancing inside, the public areas of the library appear to emerge from within the larger structure, and the support spaces of offices and meeting areas are hidden within.

Metal was a leading material choice from the beginning because it can be seen in other commercial facilities in the area, including malls and big-box retailers. The architectural team, therefore, believed metal would add to the aesthetic of the neighborhood. The civic space is defined within the area because the Dri-Design panels bring versatility, durability and texture to the centre. They also help to erode the building's large scale.

Condon explains these metal panels brought the familiar with material and colour and the unexpected with modularity and texture. "The metal panels define the character of the building," he says. "In different light conditions, they provide a varied impression of the building. At times it feels quite solid and at others quite light and ephemeral." Dub notes: "We love the way the pixelated building catches the sun differently at different times of the days. Especially when it seems to dissolve into the sky at dusk."

Sustainability drove many design decisions to serve as an example of a thoughtful public space; the building is LEED Silver pending. Dri-Design do not use joint sealants or gaskets, which are made with petroleum.

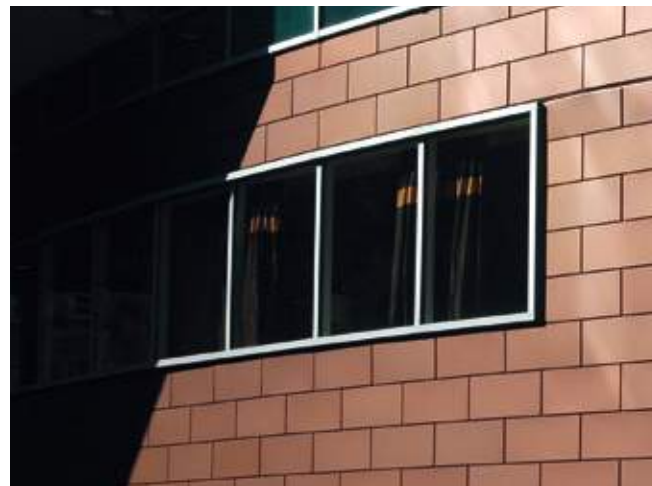
The panels also do not have plastic cores, and the coatings have no VOCs. The metal is green by nature with its recycled content and recyclability.





"Maybe the most successful and exciting of all new towers."

New Homes Magazine.



More than 10,058m² aluminum copper anodized panels were installed on the 47-story Parkview West condominiums near Lake Michigan in Chicago.

Designed by Solomon Cordwell Buenz, Chicago, the 137,160m² project includes 268 condominium units with full luxury amenities and has been described by New Homes Magazine as "maybe the most successful and exciting of all new towers" in the Chicago area. The project cost \$121 million.

The architectural firm had not used the Dri-Design system before. "We were looking for a signature statement for the building and did a survey of different types of materials including flat-lock natural copper shingles," according to Devon Patterson, principal of design with SCB. "We ended up going with the Dri-Design system because it seemed more proven for residential high rise and because of the colour consistency

for the long term. The copper anodized finish doesn't break down or patina – it preserves the colour for the lifetime of the building."

"When we originally looked at the flat-lock system of natural copper, we liked the fact that it would have a mottled look and wouldn't look like a machine-finished colour," said Patterson. "So that's why we opted for the copper anodized because it has some range to it like natural copper. It was the colour we were trying to get. It was a good compromise that turned out to be a superior solution in the end."

A Phase 2 second tower is planned and the owners anticipate using the copper anodized Dri-Design system on it, too, according to Patterson. "Parkview West is a very successful building. I think a large part of its success stems from the metal panels on the building that has given it such a distinctive look," Patterson said.



Parkview West Condos

Illinois, USA

Product
Dri-Design Flat

Material
Anodised Copper

Architect
Solomon Cordwell Buenz



Pittsburg State University
- Bicknell Family Center

Project Pittsburg State University - Bicknell Family Center	Location Kansas, USA	Product Dri-Design Flat	Material Painted Aluminium	Architect William Rawn Associates
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"The metal is interesting. We designed the cassette system to bring a warmth and vitality to the building's opaque wall surfaces."

Kevin Bergeron,
William, Rawn Associates.

10,903m² of Dri-Design Flat cassettes in four colours were installed on the Bicknell Family Center for the Arts at Pittsburg State University.

"The president did not want another brick building on campus," explains Duane Cash with ACI-Boland Architects, Leawood, Kansas. "He wanted something that stood out and made a statement."

ACI-Boland served as the architect of record with William Rawn Associates Architects Inc., Boston, acting as the design architect. The team was asked to imagine a space that could serve both the university and community. "We had to recognize that this is a university asset, but we also needed to create a space welcoming the community to a theatre built for them. The building sits on a gentle hill and overlooks the edge of campus. The lobby has a slight arc that serves to embrace people as they come up to campus. We wanted people to have full views into the space so everyone would know something special is going on in there," says Doug Johnston, FAIA, LEED AP, a principal with William Rawn Associates.



The aluminum cassettes were specified by the architects for rainscreen capabilities, available sizes and customisation. "The metal is interesting. We designed the cassette system to bring a warmth and vitality to the building's opaque wall surfaces," notes Kevin Bergeron, a senior associate with William Rawn Associates. "We used four different colours and a random installation pattern to create a highly variegated surface, and the reflectivity of the metal allows it to change in response to varying light conditions throughout the day and evening."

The four shades were installed in 14 cassette sizes in a random pattern. To ensure quality shipping standards and ease of installation, a systematic crating method was developed to correlate colour-coded shop drawings with the crate contents. This streamlined the installation process in addition to eliminating any repetition of pattern. The supplier, SGH Inc., Kansas City, Mo., and installer, Queen City Roofing, Springfield, Mo., worked with Dri-Design to create this installation approach.

Collaboration and advanced planning made this project function according to schedule and exceed expectations. Todd Bryant with SGH notes that the installation crews and others on site were impressed with the



Dri-Design product, as well, because of the speed and ease of installation. He says: "To accommodate the size of the project and the schedule required by the general contractor, the project was split into three releases. The building design required a spray-on insulation with a substrate of zees and hats for anchoring the cassettes. Due to the height of the building and the loads being applied to the panels, we had the substrate engineered appropriately to accommodate the needs of the design calcs."

The \$33 million facility is 29,260m² and sits on 14 acres. "The large building could have been overwhelming if it wasn't for the size of the metal cassettes; different sizes were selected to mimic the look of brick," Cash says. "The metal blends with the glass and prefabricated concrete that also make up exterior details."



Prairie
Meadows
Race Track
& Casino
Massachusetts,
USA

Product
Dri-Design
Shadow
-
Material
Painted
Aluminium
-
Architect
Shive-Hattery
Architecture



Spring St
USA

Product
Dri-Design
Tapered
-
Material
Painted
Aluminium
-
Architect
Ware Malcomb



MedDX Solutions

Skylon Park,
Hereford, UK

Product
Kreate
-
Material
Aluminium
-
Architect
St. Paul's
Associates Ltd



Skyway Library USA

Product
Dri-Design
Flat

- **Material**
Painted
Aluminium

- **Architect**
Weinstein AU
Architects



Premier Inn & M&S

St. Andrews, UK

Product
Karrier System
& Interlocking
Plank

-
Material
Aluminium

-
Architect
Michael Laird
Architects



"We wanted imagery that would somewhat mitigate the scale of the garage while speaking to the history of the community and involving local people."

Brad Hinthorne,
Perkins + Will.

The graphics at the street level of the new parking garage at the Franciscan Medical Building at St. Joseph Medical Center in Tacoma, WA provide a warm welcome to arriving patients and visitors. The garage is linked to the new five-story medical office building by a skybridge. The larger-than-life people images and graphics on the exterior of the 819-stall multi storey car park were created using Dri-Design's Perforated Imaging technology. By varying the size, location and density of the perforations, various areas of light and dark are created to form an image on the Dri-Design cassettes.

Approximately 1,067m² of aluminum Dri-Design cassettes were used on the parking structure.

The garage is located along a 'pedestrian corridor' as designated by the city of Tacoma. "The city had very specific guidelines for this corridor regarding signage and graphics," according to Brad Hinthorne, managing principal at Perkins + Will, Seattle, architect of record. "Several public meetings were held to get input and discuss design alternatives.



We wanted imagery that would somewhat mitigate the scale of the garage while speaking to the history of the community and involving local people."

Perkins + Will reached out to Studio SC, a Seattle-based design studio specializing in environmental graphics and identity, to help craft the "artistic graphic solution." According to Hinthorne, Studio SC was aware of the Dri-Design system and was "pretty integral to the whole design concept and execution."

Installation of the Dri-Design cassettes was done by Aldrich & Associates, Bothell, WA, the general contractor for the garage as well as the medical office building. According to George Ward, senior project manager, "We were on a pretty tight timeline to get the artwork selected. The Dri-Design folks helped the client provide the right resolution files for good reproduction. The actual installation of the cassettes was pretty straightforward. Dri-Design met all of the deadlines—everything went together like clockwork."



Franciscan Medical Building

Tacoma, WA, USA

Product
Dri-Design
Perforated
-
Material
Aluminium
-
Architect
Perkins + Will

Tishomingo Health Center



Project
Tishomingo
Health Center

Location
Oklahoma,
USA

Product
Dri-Design
Tapered

Material
Painted
Aluminium

Architect
James R.
Childers
Architect

"The folks at Dri-Design provided a panel grid that we carefully marked up to create the 'blackberry pattern' by specifying the exact direction in which each panel would taper and to what degree. The cassette really produced the desired effect."

Breck Childers,
James R. Childers Architect.



The design of the new Chickasaw Nation Health Clinic in Tishomingo, Oklahoma, reflects the proud history and heritage of the Native American tribe.

The facility strives to meet the comprehensive health care needs of the Native American population in the southeastern region of Chickasaw Nation.

A variety of materials and finishes were selected for the project and detailed to represent the textures and patterns of the rich culture and traditions of the Chickasaw people.

The Dri-Design Tapered Series metal cassette installed at the centre of the clinic and at the stair towers flanking both ends of the building emulate the texture and colour of the Chickasaw native blackberry, which has played a notable role in the tribe's history.

The Tapered Series Cassette can be angled in any direction with varying depths and degree of slopes. Approximately 1615m² of the Tapered Series aluminum cassette finished in Charcoal were utilized on the project. The focal point of the building is the main entrance atrium. In addition

to the Dri-Design cassette, the form and material selection is inspired by the sun representing life and revitalization of the soul, as well as the Chickasaw shield representing the strength of the Chickasaw Nation.

Architectural design for the clinic was provided by James R. Childers Architect, Inc., Fort Smith, AR. "This was a high-design project and the challenge was to bring it in on schedule and on budget," according to Breck Childers, project architect. "We were trying to find materials that would best represent the natural elements that were integral to the design."

This was the first time the firm had used a Dri-Design system. "We thought the looks and the design flexibility of the Tapered Series cassette would best allow us to create the representative image of the classic Chickasaw Nation blackberry," Childers said. "The folks at Dri-Design provided a panel grid that we carefully marked up to create the 'blackberry pattern' by specifying the exact direction in which each panel would taper and to what degree. The cassette really produced the desired effect."



Project
Trident
Technical
College

Location
USA

Product
Dri-Design
Flat

Material
Anodised
Copper

Architect
LS3P
Associates



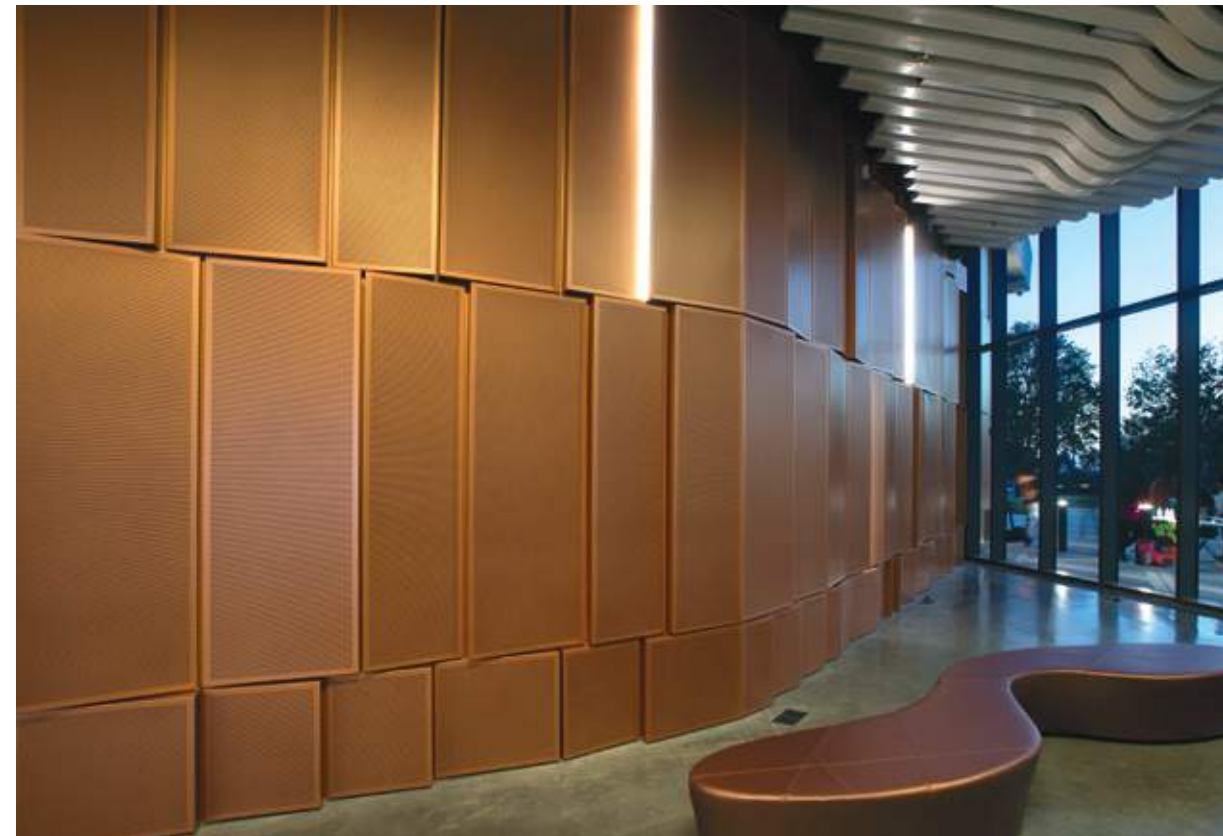
Project
Ventura
College

Location
USA

Product
Dri-Design
Tapered

Material
Anodised
Copper

Architect
Gensler





Veterinary Specialty Emergency Center

Pennsylvania, USA

Product
Dri-Design
Shadow

-

Material
Painted
Aluminium

-

Architect
PZS Architects,
Inc.

"Image was very important. We wanted to create an identity that would convey confidence and reflect the high level of care offered to pet owners as well as referring veterinarians. The exterior materials made a tremendous impact on the façade, and from a practical standpoint, the use of the Shadow Series panels really helped break up the box and deliver a nice architectural feeling. The shadow lines provide significant depth and help create interest and scale."

David Polatnick, PZS Architects Inc.



Avon & Somerset
Police Station

Project Avon & Somerset Police Station	Location UK	Product Karrier System	Material Ceramic Granite	Architect Ryder Architecture
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Waters Technology IDA

Wexford, Ireland

Product

Karrier System

-

Material

Ceramic Granite

-

Architect

O'Driscoll Lynn
Architects

Marcredo Shopping Centre



Location

Kutno, Poland

Product/Material

Karrier Panel
HPL

Architect

APA Grupa Sp. z o.o.



Piet Boon Headquarters

Location

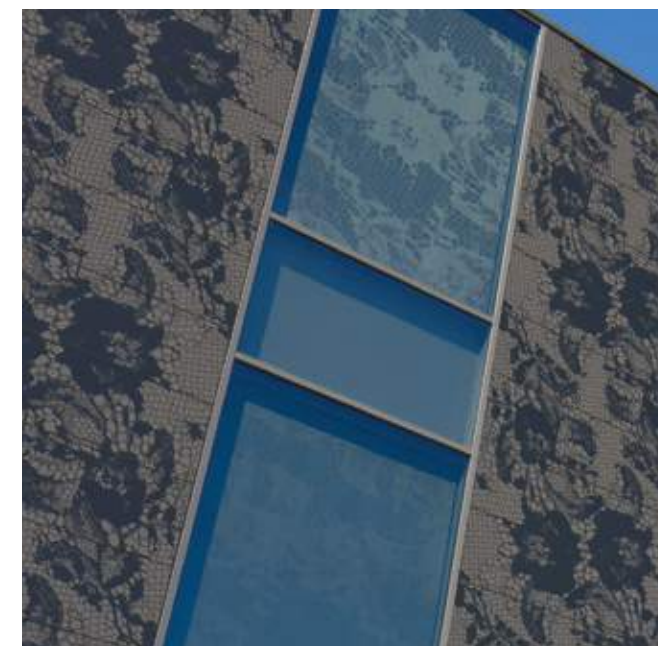
Netherlands

Product/Material

Karrier Panel
HPL

Architect

Cepezed Projecten B.V. together with Piet Boon





1611 West
Division
Apartments
USA

Product
Evolution

-
Material
Painted Steel

-
Architect
Wheeler Kearns
Architects

Aeronef Offices

Location

Tours, France

Product

Evolution Axis
Evolution Recess

Material

Painted Steel

Architect

Paralleles Architecture



Fauceille II Retail Store

Location

Perpignan, France

Product

Evolution Axis

Material

Painted Steel

Architect

Beck & Cie



IDA Business & Technology Park



Location

Athlone, Ireland

Product

Evolution Recess

Material

Painted Steel

Architect

Kavanagh Tuite & Associates



Arcomet Service NV Office

Location

Paarl-Beringen, Belgium

Product

Evolution Axis

Material

Painted Steel

Architect

Architectenbureau A-Ateljee BVBA



Australian National Maritime Museum Warships Pavilion

Location

Australia, Darling Harbour Sydney

Product

Evolution

Material

Painted Steel

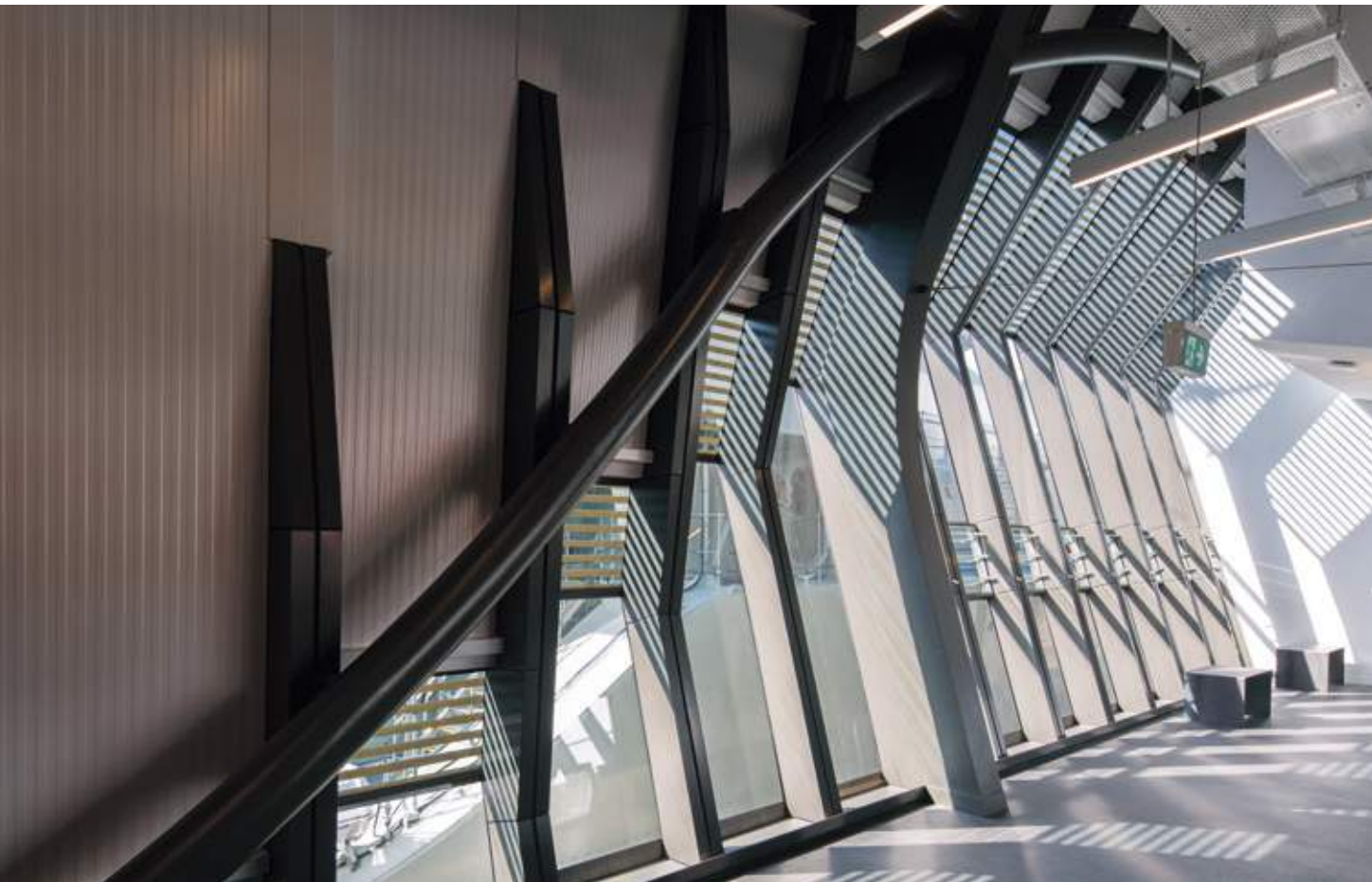
Architect

FJMT Studio

Project Overview

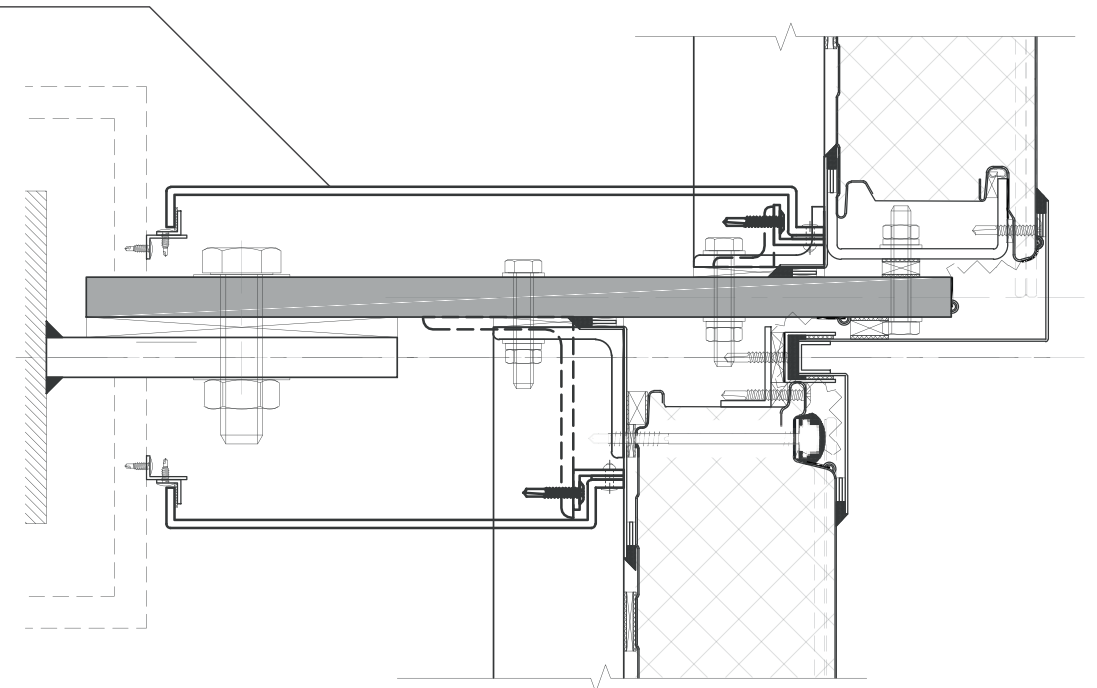
The Evolution range has been used to create a unique façade for the new Action Stations extension, housed in the Warships Pavilion, at the Australian National Maritime Museum in Sydney's Darling Harbour. Completed in 2015, to mark the centenary of World War I, the Action Stations experience is

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 narratives of maritime war to life.



Technical Illustration

Evolution



Design Stage

The project brief was for a building that made an architectural statement, yet did not overpower the vessels adjacent and integral to the Pavilion. Instead, the building was to provide a sense of welcome and anticipation for visitors approaching the wharf and the vessels, and complement the broader context of the Museum and the city.

The form was inspired by the techniques and geometrical rigour of boat building while the conceptual approach closely referenced the

wake of a boat as it passes through the water. The external and internal geometry was generated as one and the same. This was a direct outcome of using Kingspan's Evolution panels, which provided a finished internal and external surface.

The project scope required 891m² of wall panels that would be slim enough to maximise the useable internal space while maintaining thermal resistance values.

The wall panels were specified for their durability and ability to span a long distance, removing the need for unsightly joints on the façade. They also allowed modularity and repetition in the installation, and provided a single façade component with internal lining, insulation, and external lining that provided the desired performance 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 narratives of maritime war to life.



“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 fjmtstudio

Build Stage

The Pavilion façade was generated as a series of complex geometrical rotations of 1m wide panels, which were sized to maintain the efficient use of the standard width of Kingspan’s panels. The biggest challenge was using the panels to create these complex geometries of the façade while maintaining a water tight external skin at the joint intervals.

There was also an added complexity where a glass oculus, comprising of 1m wide panels of glass, was integrated and continued the geometry of the façade.

The aggressive salt air environment required a durable façade solution and the sleek, exposed façade design posed unique installation challenges. JML Engineered Facades

(NSW) closely collaborated with the consultant team during the design development stage to resolve the project’s complex joint geometry, while maintaining the integrity and unique benefits and aesthetics of the Kingspan panels.



Performance
Results

1.
The form was inspired by the techniques and geometrical rigour of boat building while the conceptual approach closely referenced the wake of a boat as it passes through the water. The external and internal geometry was generated as one and the same which was a direct outcome of using Kingspan's BENCHMARK Evolution panels.
2.
Due to the building's location on Darling Harbour, and the aggressive sea salt environment, the exterior needed to be weather proof and deliver continuity of colour despite the harbour-side environmental conditions.
3.
The wall panels were specified for their durability and ability to span a long distance, removing the need for unsightly joints on the façade. They also allowed modularity and repetition in the installation, providing a single façade component with internal lining, insulation, and external lining that provided the desired performance.
4.
Architects fjmtstudio and specialist subcontractors JML Engineered Façades (NSW) developed custom vertical joint details, and worked closely with Kingspan for its unique technical service in terms of detailing support to enable the intended complexity of the design to be realised.



"We love the material. It lasts well, it weathers well, it's got a beautiful tactile nature to it, but you either love it or hate it."

"We always wanted to take a really bold decision. We think it's fantastic when it gets a strong reaction."

"We love the material. It lasts well, it weathers well, it's got a beautiful tactile nature to it, but you either love it or hate it."

Julian Gitsham, from architects Feilden Clegg Bradley Studios.



Broadcasting House

Leeds, UK

Product
Hook-on
Cassette

-

Material
Weathered
Steel / Corten

-

Architect
Feilden Clegg
Bradley Studio



Project Bührer + Wehling	Location Germany	Product Evolution Karrier System Hook-on Cassette	Material Painted Steel Weathered Steel / Corten	Architect Bührer + Wehling Projekt GmbH.
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Project Centennial College	Location Ontario, Canada	Product Dri-Design Tapered	Material Mirrored Stainless Steel	Architect MacLennan Jaunkalns Miller Architects
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"There is consistency in the Dri-Design cassette dimensions, and they fit together well and are easily assembled."

Peter Sjouwerman,
Semple Gooder.

Centennial College Ashtonbee, Campus Toronto was recently renovated, a new Library & Learning Centre and Student Hub with adjoining Student Centre and Bookstore were clad in metal rainscreens from Dri-Design. According to MacLennan Jaunkalns Miller Architects, Toronto, "The selection of stainless-steel cassettes was inspired by the sensuous chrome engines being operated on by students."

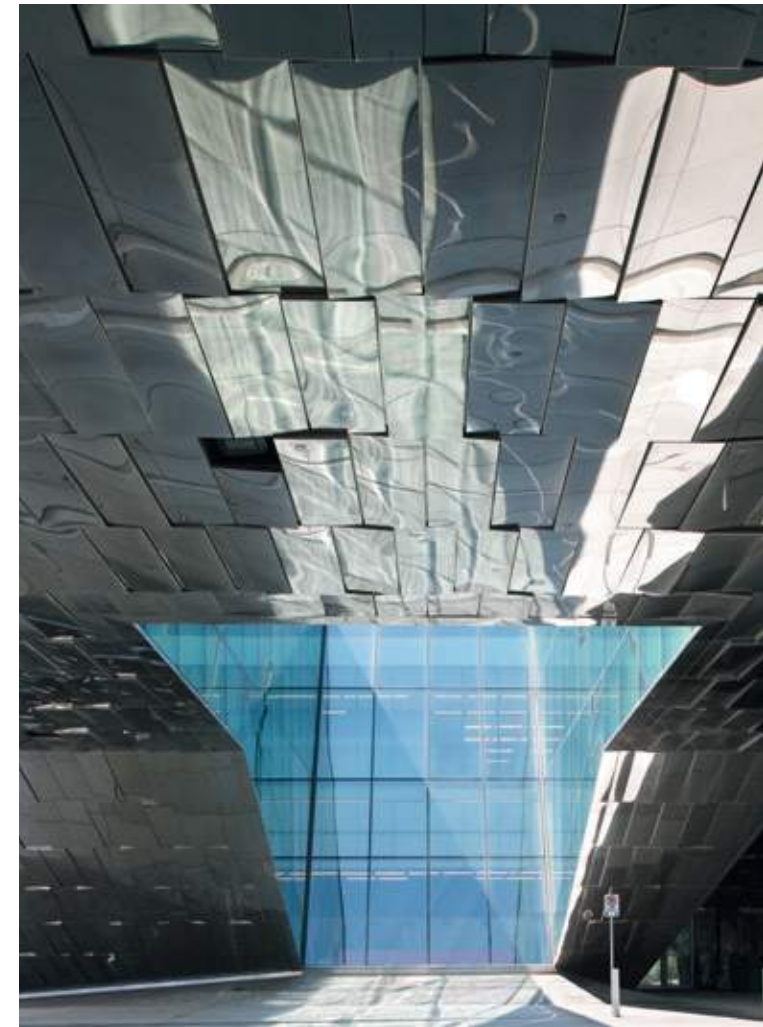
The renovations and expansion were designed to bring a renewed vitality to campus. "The college has developed exceedingly successful transportation partnerships and training programs. The campus, however, was in need of reinvestment to address safety, identity, accessibility and infrastructure issues to meet the needs of

current students," says Ted Watson, project design principal and partner of MacLennan Jaunkalns Miller Architects. "The client's primary goal was to rejuvenate the campus and deliver student-oriented services to support and evolve thriving academic programming. The system was selected because it is highly flexible, precise and elegant."

Peter Sjouwerman, manager of the metal cladding division with Semple Gooder, says, "There is consistency in the Dri-Design cassette dimensions, and they fit together well and are easily assembled."

The Tapered cassettes have a 50mm depth variation at either side. Combined with the flat cassette profile, these variations create five different cassette sizes that when laid out further reveal a shifting pattern and a playful reflection of light. The wall cassettes are brushed stainless steel, while the library soffit is polished stainless steel, creating what is called a Kaleidoscopic Campus Gateway. "This mirrored effect picks up the movement of people and cars as fragmented ephemeral patterns of colour and light," Watson says. "This creates a bold and memorable arrival onto campus."

The library and hub are highly transparent with panoramic views in and out. The library visually and literally connects the new campus with the old, serving as a bridge to the original front entrance of the 1940s Ashtonbee Building housing a renovated bookstore, a student centre and classrooms. Enrollment, student life services and continuing-education services are accessed through the hub's lobby. The Student Centre/Bookstore is located at grade across from the hub, conceptually connecting the two service spaces. The two-storey library is composed of general student library space, commuter labs, a learning centre and centre for academic English.





Elutec

Dagenham, UK

Product

Evolution Axis
Karrier
Shingle

-

Material

Painted
Aluminium
Painted Steel

-

Architect

LSI Architects



Eastwood High School



Location

Glasgow, United Kingdom

Product

Evolution Axis
Karrier System
Hook-on Cassette

Material

Weathered Steel/Corten
Painted Aluminium

Architect

Cooper Cromar



Facility Point Offices & Retail



Location

Roosendaal, The Netherlands

Product

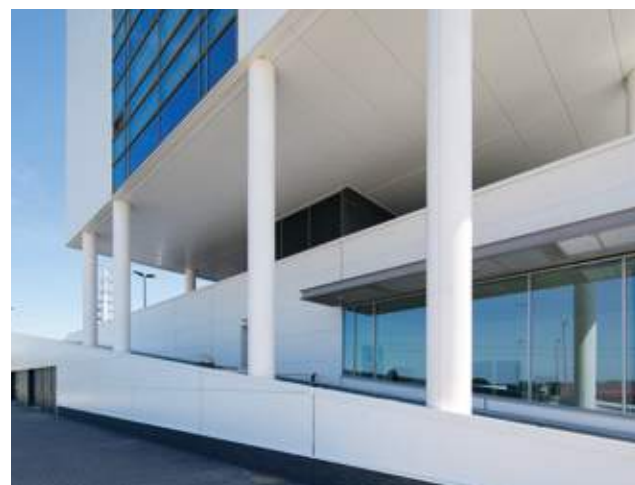
BENCHMARK Evolution Recess

Material

Painted Steel

Architect

BIAS Architecten Rotterdam





Formika Printing

Poland

Product
Evolution
-
Material
Painted Steel
-
Architect
Tremend
Sp. z o.o.



Pince Vent Shopping Centre

Chenneviere sur
Marne, France

Product
Evolution Axis
-
Material
Painted Steel
-
Architect
GM Architects

Loda Office

Location

Beerse, Belgium

Product

Evolution Axis

Material

Painted Steel

Architect

AID Architects Oostmalle



Garonor Business Park

Location

Aulnay sous Bois, France

Product

Evolution Axis

Material

Painted Steel

Architect

Atelier 4+



Henry Moore Archive Foundation

© Photographs by Hufton & Crow

Project
Henry Moore
Archive
Foundation

Location
UK

Product
Karrier System
and Hook-on
Cassette

Material
Weathered
Steel / Corten

Architect
Hugh
Broughton
Architects

"We specified Kingspan's BENCHMARK Weathered Steel/Corten Hook-on cassettes for the new archive for the Henry Moore Archive Foundation because it is a beautifully engineered system offering a timeless visual elegance that compliments very well our design intent for the project. The Weathered Steel/Corten cladding looks stunning against the backdrop of the beautiful gardens created by Henry and Irina Moore."

Hugh Broughton Architects.



Intrinsic Charter School



Project
Intrinsic
Charter School

Location
USA

Product
Evolution

Material
Painted Steel

Architect
Wheeler Kearns



Kankakee
Community College

Project Kankakee Community College	Location USA	Product Evolution	Material Painted Steel	Architect Demonica Kemper Architects
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Mosaic Village

USA

Product
Evolution

- **Material**
Painted Steel

- **Architect**
Neighbouring
Concepts



Louis Blériot High School

France

Product
Evolution Axis

- **Material**
Painted Steel

- **Architect**
Philippe
Chiossone



Northern Virginia
Community College

Project Northern Virginia Community College	Location USA	Product Evolution	Material Painted Steel	Architect Grimm & Parker
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Queen's University
Student Hub

Project
Queen's
University
Student Hub

Location
Belfast,
Northern
Ireland

Product
Karrier with
Hook-on
Cassette

Material
Weathered
Steel / Corten

Architect
Burwell
Deakins
London

"Fundamental to the design of the new Student Hub at Queen's University, was the creation of a building with a strong visual identity befitting of its status as the new 'heart' to the existing 1950's building."

Burwell Deakins Architects.



A new extension complements and contrasts with the original building.

"Fundamental to the design of the new Student Hub at Queen's University, was the creation of a building with a strong visual identity befitting of its status as the new 'heart' to the existing 1950's building.

It was also important to provide a low carbon building, which would be able to meet the needs of both current and future students. Working with Kingspan enabled us to achieve this vision, resulting in a visually striking and high quality building envelope and a highly energy-efficient building, which will hopefully be enjoyed by generations of students to come." Burwell Deakins Architects

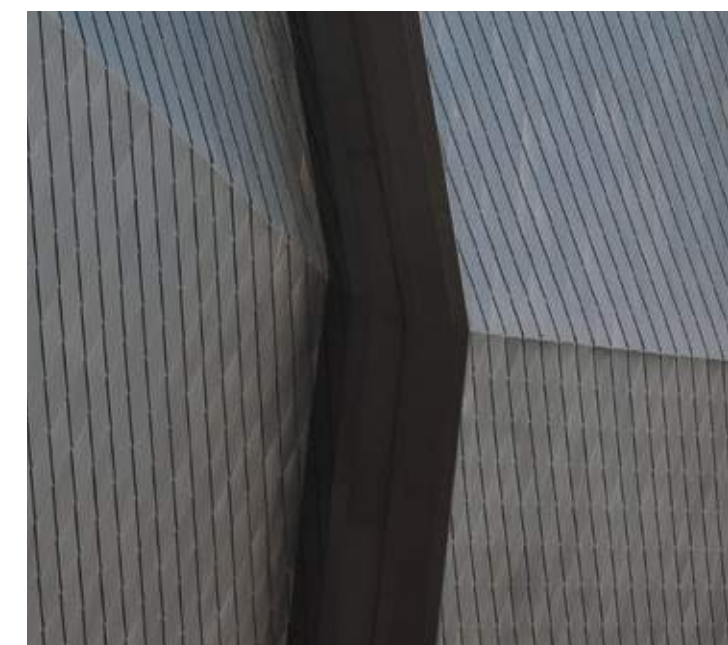
Working closely with BENCHMARK's technical team, a product solution was found to meet all of the design requirements for the building. The project design team faced a significant challenge to meet the required shape, style and performance in the specification, all within a tight construction schedule which made specifying the right products for the job vital.

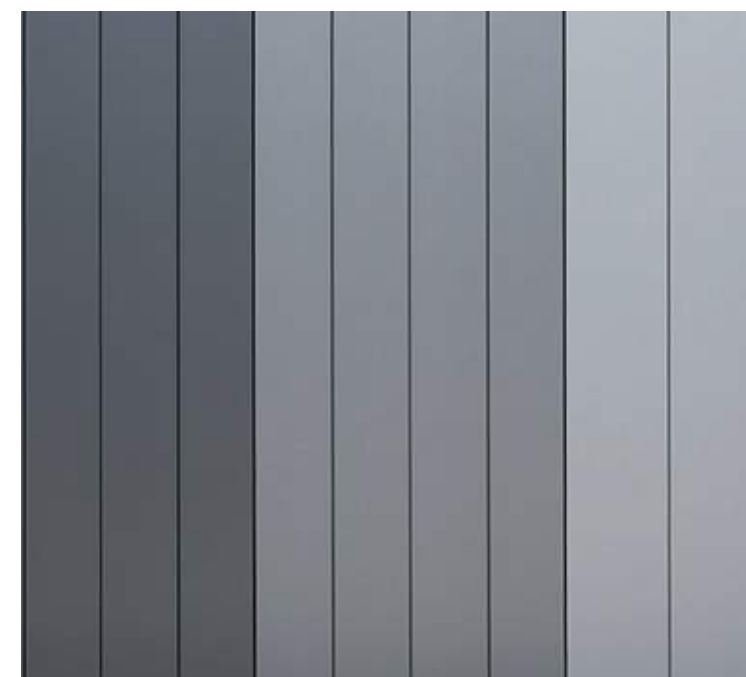
The weathered steel façade naturally rusts over time, creating a highly durable, protective coating with a striking finish reminiscent of Belfast's shipbuilding past. This made it the ideal choice for the project, as it met both the aesthetic and the functional requirements of the brief.





Project Silverburn Shopping Centre	Location Glasgow, UK	Product Karrier System and Shingle	Material Stainless Steel	Architect BDP
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Vitens Logistics Centre

Netherlands

Product
Evolution
Multi-Groove
-
Material
Painted Steel
-
Architect
IA Groep
Duiven



West Australia Institute of Sport Australia

Product
Evolution Axis

Material
Painted Steel

Architect
Sandover Pinder
/ DWP Sutors



Located in Churchlands, Australia, the West Australian Institute of Sport required a transformation in order to provide state-of-the-art training and support facilities for Olympic and Commonwealth athletes. A combination of Kingspan's Trapezoidal Roof panels and BENCHMARK Evolution panels was chosen to complete the building envelope. Trapezoidal Roof panels are high performance insulated panels which are LPCB approved. The integration of these panels with the Evolution panels unites function with aesthetics, creating a building which is architecturally superior. Through the construction of this project, the West Australian Institute of Sport now provides a daily training environment for 285 high performance athletes.



Project Adobe	Location Salt Lake, Utah, USA	Product Dri-Design Flat	Material VM Zinc	Architect WRNS Studio
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"We chose zinc because we wanted a natural weathering unpainted finish in a neutral colour."

Moses Vaughan,
Senior Architect, WRNS Studio.

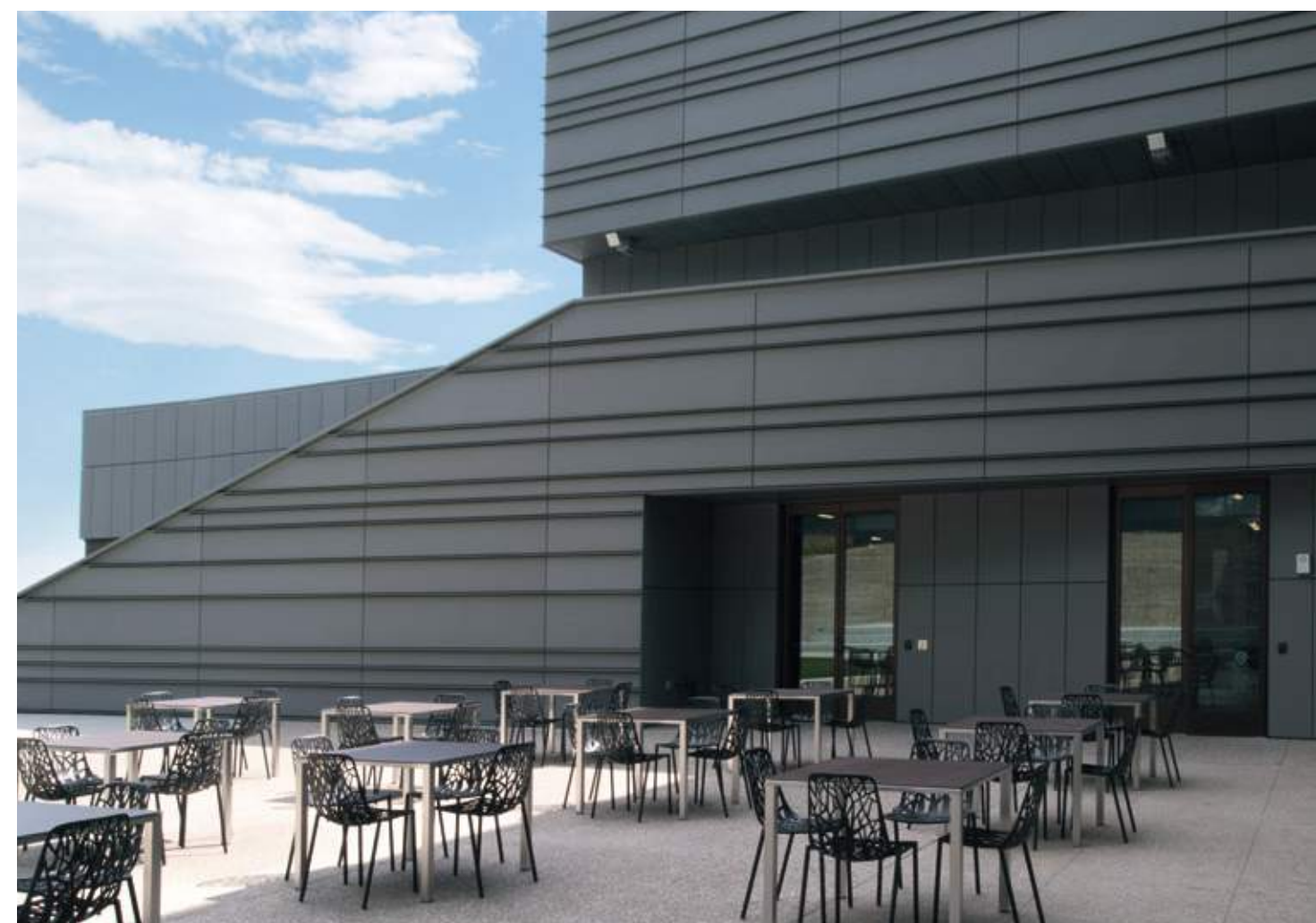
"Distinctive, awesome and bold". That was the design goal for the new corporate campus of Adobe in Lehi, Utah. The 207,264m² campus is located directly off a major highway, putting the headquarters on display with the Traverse Mountains serving as a stunning backdrop. Dri-Design cassettes made with VMZINC brought a bold statement and identity to the structure while invoking a natural connection with the surroundings.



The cassettes were installed both vertically and horizontally to bring depth to the building. Horizontal cassettes were used on a larger scale with custom shadow-fin profiles to exploit the abundance of sunlight and changing skies of Utah. The zinc cassettes also bring contrast to the glass curtainwalls used throughout the design.

The Adobe headquarters is a LEED Gold structure.

Adobe now has a 60,960m² office building; 24,384m² amenities building, including a basketball court, café and fitness center; an atrium that links the two buildings; and a campus green. Expansive views, open stairs, a flood of daylighting and natural elements are all part of the intention to bring Adobe employees a sustainable work environment that allows for a proper work-life balance. This building inspires creativity, attracts and retains employees, and provides a higher level of energetic work and play.





Chinguacousy
Community
Center
USA

Product
Dri-Design
Flat
-
Material
VM Zinc
-
Architect
MJMA Architects

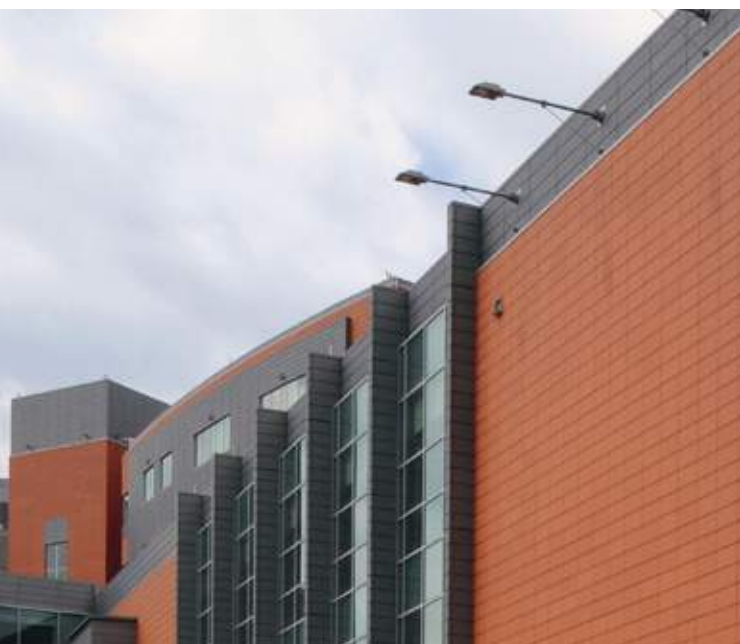
The facility was constructed in just over three years – half the time it normally takes to build a facility of its magnitude.

Opening of the massive new \$1.03 billion Fort Belvoir Community Hospital at Fort Belvoir, VA culminates five years of interservice collaboration as one of the largest and most involved medical Base Realignment and Closure (BRAC) projects.

Fort Belvoir Community Hospital includes a nine-storey main hospital building, two three-storey clinical buildings and two two-storey clinical buildings. The project has achieved LEED Silver certification and is striving to attain LEED Gold.

The Dri-Design cassettes interface with a terracotta façade which also utilises a rainscreen assembly, a limited amount of painted aluminum Dri-Design cassettes were also used on interior applications including stairwell entry areas.

With the normal 10-year procurement cycle needing to be reduced to a five-year process in order to meet the BRAC timeline, the hospital was designed and constructed using Integrated/Design/Bid/Build (IDBB). The facility was constructed in just over three years – half the time it normally takes to build a facility of its magnitude.



Fort Belvoir Community Hospital

Virginia, USA

Product
Dri-Design
Flat
-
Material
VM Zinc
-
Architect
HDR/Dewberry



SLCC
USA

Product
Dri-Design
Shadow
-
Material
VM Zinc



Henry Ford
Community
College
USA

Product
Dri-Design
Flat
-
Material
VM Zinc



Project
Lackland AFB

Location
USA

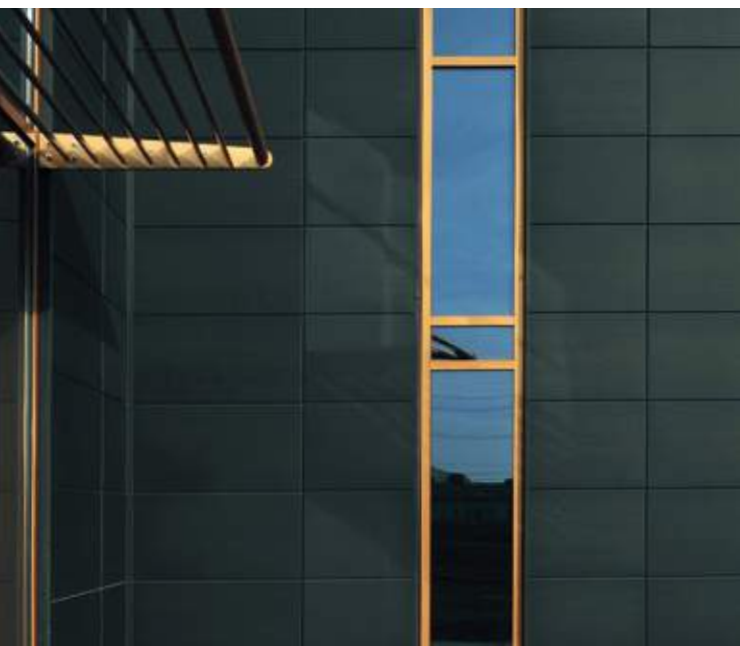
Product
Dri-Design
Flat

Material
VM Zinc

Architect
HDR, Inc.



Approximately 4,572m² of Dri-Design cassettes using two different materials were used to clad the contemporary structure.



The new Nebraska Public Power District Operations Center in Norfolk, NE consolidates four previously separate locations into one highly sustainable, green facility.

Approximately 4,572m² of Dri-Design cassettes using two different materials were used to clad the contemporary structure.

3,928m² of 1.5mm VM Anthra Zinc and 657m² of aluminum finished in Classic Copper Dri-Design Flat cassettes were used.

The building provides 13716m² of administrative space plus 12,802m² for vehicle and equipment storage. The \$20 million facility features three key alternative energy components: an expandable geo-thermal system with 128 ground source wells; the largest rotating solar collector in North America programmed to reset to the orientation of the rising sun each day; and three wind turbines of different types and sizes. Combined, the use of alternative energy sources provides a significant percentage of the facility's required energy.



Nebraska Public Power

Nebraska, USA,

Product
Dri-Design
Flat

-
Material
VM Anthra
Zinc

-
Architect
HDR, Inc

"The Dri-Design cassettes were particularly interesting to us because of the look and the superior performance."

Jose Garcia Design.



Approximately 1,646m² of Dri-Design Flat cassettes constructed with 1mm VM Quartz and Anthra Zinc were used to create a stunning design for a Cincinnati residence. Design for the upscale 1,524m². residence was provided by Jose Garcia Design, Cincinnati. The firm has used zinc before in residential design and liked it, according to Jose Garcia. "The zinc cassettes give you a fantastic look for a reasonable cost with low to no maintenance," said Garcia. "The Dri-Design cassettes were particularly interesting to us because of the look and the superior performance."

A wide range of custom cassette sizes (more than 110 different sizes) was used to create interesting detailing and reveals.



Ohio Residence

Ohio, USA,

Product
Dri-Design
Flat

-
Material
VM Zinc

-
Architect
Jose Garcia
Design

Regent Park
Aquatic Park



Project
Regent Park
Aquatic Park

Location
USA

Product
Dri-Design
Shadow

Material
VM Zinc

Architect
MacLennan
Jaunkalns
Miller
Architects

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Evolution

- Aeronef Offices
- Arcomet Service NV Office
- Australian National Maritime Museum
- Bührer + Wehling
- Elutec
- Eastwood High School
- Edinburgh Airport
- Facility Point Offices & Retail
- Fauceille II
- Formika Printing
- Garonor Business Park
- IDA Business & Technology Park
- Loda Office
- Louis Blériot High School
- Pince Vent Shopping Centre
- Toyota Liffey Valley
- Vitens Logistics Centre
- West Australia Institute of Sport
- 1611 West Division Apartments
- Intrinsic Charter School
- Kankakee Community College
- Mosaic Village
- Northern Virginia Community College

Kreate

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- Edinburgh Airport
- Skylon Park

Karrier System

- Aquatics Centre Aberdeen
- Avon & Somerset
- Bradford College Campus
- Bührer + Wehling
- Elutec
- Eastwood High School
- Friars Walk
- Henry Moore Archive Foundation
- Knightstone Housing Assoc Office
- Marcredo Shopping Centre
- One Brewery Wharf
- Queen’s University Student Hub
- Silverburn Shopping Centre
- Premier Inn & M&S
- Toyota Liffey Valley
- Waters Technnology IDA

Dri-Design Flat

- Adobe (Salt Lake, Utah)
- Balmoral Business Park
- Beth Tifloh (Baltimore, Maryland)
- Carleton College Weitz Center (Northfield, Minnesota)
- Centennial College (Toronto, Ontario)
- Central Fleet (Milwaukee, Wisconsin)
- Chicago Theological (Chicago, Illinois)
- Chinguacousy Community Centre
- Clemson Memorial Stadium (Clemson, SC)
- Fort Belvoir Community Hospital (Fort Belvoir, Virginia)
- Henry Ford Community College
- Hilton Garden Hill 7 (Seattle, Washington)
- KaTom Chef Supplies
- Lackland AFB
- Lime Apartments
- Longwater Place (Norwell, Mass.)
- Mattahunt Elementary (Mattapan, Mass.)
- Millwood Library (Edmonton, Alberta, Canada)
- Nebraska Public Power (Norfolk, Nebraska)
- Norton Paediatric
- Ohio Residence
- Parkview West Condos (Chicago, Illinois)
- Pittsburg State University - Bicknell Family Center (Pittsburg, Kansas)
- Prairie Meadows Race Track & Casino (Altoona, Iowa)
- Regent Park Aquatic Park
- Skyway Library
- SLCC
- Tishomingo Health Center (Tishomingo, Oklahoma)
- Trident Technical College
- University of Arizona
- Ventura College
- Veterinary Specialty Emergency Center (Levittown, Pennsylvania)

Dri-Design Shadow

- General Mitchell International Airport (Milwaukee, Wisconsin)
- Longwater Place (Norwell, Mass.)
- Ohio Residence
- Prairie Meadows Race Track & Casino (Altoona, Iowa)

Dri-Design Tapered

- Centennial College (Toronto, Ontario)
- Hilton Garden Hill 7 (Seattle, Washington)
- Kirkland Cancer Center (Jackson, Tennessee)
- Millwood Library (Edmonton, Alberta, Canada)
- Tishomingo Health Center (Tishomingo, Oklahoma)
- Ventura College

BENCHMARK Ideas Book

Dri-Design Perforated

- St. Joe Franciscan Medical Center (Tacoma, Washington)
- University of Arizona
- Veterinary Specialty Emergency Center (Levittown, Pennsylvania)

Hook-on Cassette

- Bradford College Campus
- Broadcasting House
- Bührer + Wehling
- Eastwood High School
- Friars Walk Shopping Centre
- Henry Moore Archive Foundation
- One Brewery Wharf
- Queen’s University Student Hub

Interlocking Plank

- Knightstone Housing Association Office
- Premier Inn & M&S

Recess Fixed

- Toyota Liffey Valley

Shingle

- Aquatics Centre, Aberdeen
- Elutec
- Silverburn Shopping Centre

Ceramic Granite

- Avon & Somerset Police Station
- Waters Technnology IDA

HPL

- Marcredo Shopping Centre
- Piet Boon Headquarters

Contact

Australia
Kingspan Insulated Panels Pty Ltd
38-52 Dunheved Circuit, St Marys
NSW 2760
Tel: +61 (0) 2 8889 3000
Fax: +61 (0) 2 8889 3099
Email: info@kingspanpanels.com.au
www.kingspanpanels.com.au

Austria
Kingspan GmbH
Office Park 1, Top B02
1300 Wien-Flughafen
Tel: +43 (0) 1 227 87 184
Fax: +43 (0) 1 227 87 200
Email: info@kingspan.at
www.kingspan.at

Azerbaijan
Kingspan Qafqaz MMC.
Azerbaijan - Baku
AZ 1025, Baku "Aga center"
Khodjali ave.55/floor 9
Baku - Azerbaijan
Tel: +994 (0) 12 464 40 85
Fax: +994 (0) 12 464 40 83
Email: info@izopoli.com
www.kingspan-izopoli.co

Belgium
Kingspan N.V.
Bouwelven 17,
Industriepark Klein Gent
2280 Grobbendonk
Tel: +32 (0) 14 23 25 35
Fax: +32 (0) 14 23 25 39
Email: info@kingspanpanels.be
www.kingspanpanels.be

Bosnia
Kingspan d.o.o.
Jevrejska bb, Lamela III/II 78000,
Banjaluka BiH
Tel: +387 (0) 51 226 190
Fax: +387 (0) 51 226 191
Email: info@kingspan.ba
www.kingspan.ba

Bulgaria
Kingspan Ltd
Street. Grigor Parlichev 2
Sofia 1000, Bulgaria
Tel +359 (0) 888 320 880
Fax +359 (0) 888 328 188
Email: info@kingspan.bg
www.kingspan.bg

Canada
Kingspan Insulated Panels
12557 Coleraine Drive
Caledon, ON L7E 3B5
Tel: +1 (905) 951-5600
Toll Free: +1 (866) 442-3594
Fax: +1 (905) 951-3944
Email: info.NA@kingspanpanels.com
www.kingspanpanels.ca

Croatia
Kingspan d.o.o.
Gorjanovičeva 22
Zagreb 10000, Croatia
Tel: +385 (0) 1 464 8051
Fax: +385 (0) 1 464 8052
Email: info@kingspan.hr
www.kingspan.hr

Czech Republic
Kingspan a.s.
Vážní 465, 500 03 Hradec Králové
Tel: +42 (0) 49 5866 111
Fax: +42 (0) 49 5866 100
Email: info@kingspan.cz
www.kingspan.cz

Denmark
Kingspan A/S
Mercurvej 12A
DK - 9530 Støvring
Tel: +45 (0) 7021 7788
Email: info@kingspan.dk
www.paneler.kingspan.dk

Egypt
Kingspan Egypt LLC.
31 El Hejaz St. Heliopolis
6th Floor Flat 31
Cairo - Egypt
Tel: +20 (0) 2 2450 74 86
Email: info@izopoli.com
www.kingspan-izopoli.com

Estonia
Kingspan OÜ
Mustamäe tee 55
10621 Tallinn
Tel: +372 (0) 651 6661
Email: info@kingspan.ee
www.kingspan.ee

Finland
Kingspan Oy
Vapaalantie 2 B 23
01650 Vantaa
Tel: +358 (0) 9 878 6080
Email: info@kingspan.fi
www.elementit.kingspan.fi

France
Kingspan sarl
Parc d'affaires Silic Paris Nord 2
Immeuble Rostand,
22 avenue des nations
BP81033 Villepinte
95932 Roissy Charles de Gaulle Cedex
Tel: +33 (0) 1 58 03 59 11
Fax: +33 (0) 1 48 63 77 15
Email: info@kingspanpanneaux.fr
www.kingspanpanneaux.fr

Gulf Cooperation Council
Kingspan Insulated Panels
Manufacturing LLC.
P.O. Box 60493
Dubai Investments Park
Jebel Ali, Dubai
Tel: +971 (0) 4 8854 232
Fax: +971 (0) 4 8854 223
Email: info@kingspanpanels.ae
www.kingspanpanels.ae

Germany
Kingspan GmbH
Am Schornacker 2
46485 Wesel
Tel: +49 (0) 281 95 25 00
Fax: +49 (0) 281 95 25 050
Email: info@kingspan.de
www.kingspan.de

Hungary
Kingspan Kft.
2367, Újhartyán
Horka Dűlő 1, Hungary
Tel: +36 (0) 29 573 400
Fax: +36 (0) 29 573 410
Email: info@kingspan.hu
www.kingspan.hu

India
Kingspan India PVT LTD.
301, Acropolis, Military Road,
Marol Andheri (East),
Mumbai-India - 400 059
Tel: +91 22 400 59 920
Fax: +91 22 400 59 922
Email: info@izopoli.com
www.kingspan-izopoli.com

Iran
#4, No. 1, 11st Vozara St.
Tehran – Iran
Tel: +98 21 8855 86 02
Fax: +98 21 8855 86 21
Email: info@izopoli.com
www.kingspan-izopoli.com

Iraq
Alwah Co.
Ronaki Street, Said Taib Building
3rd Floor No:304
Opposite West Eye Hospital
Erbil – Iraq
Tel: + 00964 751 523 2724
Email: info@izopoli.com
www.kingspan-izopoli.com

Ireland
Kingspan Limited
Carrickmacross Road
Kingscourt, Co. Cavan
Tel: +353 (0) 42 969 8500
Email: info.ire@kingspanpanels.com
www.kingspanpanels.ie

Kazakhstan
Kingspan Yapi Elemanlari A. S.
Kulan Business Center Dostyk prospekt 188.
Office 10/4. 050051 Almaty Kazakhstan
Tel : +7 727 259 76 64
Fax- Tel: +7 727 259 76 63
Email: info@izopoli.com
www.kingspan-izopoli.com

Latvia
Kingspan Latvia
Kronvalda bulv. 3-1, LV-1010 Riga
Tel: +371 2839 333
Email: info@kingspan.lv
www.kingspan.lv

Lithuania
UAB Kingspan
Neries kr. 16
48402 Kaunas
Tel: +370 (0) 37 451 883
Fax: +370 (0) 37 451 885
Email: info@kingspan.lt
www.kingspan.lt

The Netherlands
Kingspan B.V.
Lingewei 8
4004 LL Tiel
Tel: +31 (0) 344 675 250
Fax: +31 (0) 344 675 251
Email: info@kingspanpanels.nl
www.kingspanpanels.nl

New Zealand
Kingspan Ltd
97 Montreal Street
Christchurch
8023
New Zealand
Tel: + 64 (3) 260 5530
Fax: + 64 (3) 260 5539
Email: info@kingspanpanels.co.nz
www.kingspanpanels.co.nz

Norway
Kingspan AS
Grålumveien 125
1712 Grålum
Tel: +47 (0) 69 14 44 00
Email: info@kingspan.no
www.kingspanpanels.no

Pakistan
Kingspan Pakistan PVT LTD.
Suite # 202, Business Centre, Block 6,
P.E.C.H.S., Main shahra-e-faisal
Karachi – Pakistan
Tel: +92 21 34 33 00 50
Email: info@izopoli.com
www.kingspan-izopoli.com

Poland
Kingspan Sp. z o.o.
ul. Przemyslowa 20
27-300 Lipsko
Tel: +48 (0) 48 378 31 00
Fax: +48 (0) 48 378 13 30
Email: info@kingspan.pl
www.kingspan.pl

Romania
Kingspan S.R.L.
Str. Grigore Mora nr. 22
et. 1, ap. 2
Bucuresti, sector 1
ZIP code 011887
Tel: +40 (0) 212 315 089
Fax: +40 (0) 212 221 555
Email: info@kingspan.ro
www.kingspan.ro

Russia
OOO Kingspan
28A Pulkovskoye Shosse , office 1403
Saint-Petersburg, 196158 Russia
Tel: +7 (812) 602-29-40
Fax: +7 (812) 602-29-41
Email: info@kingspan.ru
www.kingspan.ru

Serbia
Kingspan d.o.o.
Beograd Partizanske avijacije 18/stan 13
11070 Novi Beograd-Bezanijska kosa
Tel: +381 (0) 11 2129 837
Fax: +381 (0) 11 2129 838
Email: info@kingspan.rs
www.kingspan.rs

Slovakia
Kingspan s.r.o.
Stará Vajnorská 27
831 04 Bratislava
Tel: +421 (0) 905 388 998
Email: info@kingspan.sk
www.kingspan.sk

Slovenia
Kingspan Slovenija
Kardeljeva ploscad 1
1000 Ljubljana, Slovenia
Tel: +386 (0) 41 630 099
Email: info@kingspan.si
www.kingspan.si

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South Africa
Kingspan Insulated Panels
Email: info@kingspanpanels.co.za
www.kingspanpanels.co.za

Sweden
Kingspan AB
Kråketorpsgatan 10 C
431 53 Mölndal
Tel: +46 (0) 31 760 2699
Email: info@kingspan.se
www.kingspanpanels.se

Switzerland
Kingspan GmbH
Teufenerstrasse 25
9000 St. Gallen
Tel: +41 (0) 71 440 21 91
Fax: +41 (0) 71 440 21 92
Email: info@kingspan.ch
www.kingspan.ch

Turkey
Kingspan Yapi Elemanlari AŞ
Çiragan Caddesi No.97
Ortaköy 34347, Istanbul
Tel: +90 (0) 212 236 60 32
Fax: +90 (0) 212 236 08 38
Email: info@izopoli.com
www.kingspan-izopoli.com

Ukraine
TOV Kingspan-Ukraine
Blvd. Bogdan Khmelnitsky 176/311
79024 Lviv
Tel/Fax: +38 (0) 032 255 10 33
Email: info@kingspan.ua
www.kingspan.ua

United Kingdom
Kingspan Limited
Greenfield Business Park No.2
Holywell, Flintshire, CH8 7GJ
Tel: +44 (0) 1352 716100
Fax: +44 (0) 1352 710161
Email: info@kingspanpanels.com
www.kingspanpanels.co.uk

United States of America
Kingspan Insulated Panels Inc.
726 Summerhill Drive
DeLand, FL 32724
Tel: +1 (386) 626-6789
Toll Free: +1 (877) 638-3266
Fax: +1 (386) 626-6883
Email: info.NA@kingspanpanels.us
www.kingspanpanels.us

