

Architectural Facade Systems
CEME Division

Dri-Design



Charlotte Regional Realtor Association

Charlotte, North Carolina, USA

Product
Dri-Design Flat

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About us

At Kingspan our mission is to design, develop and offer innovative, sustainable and durable architectural facade solutions to meet the demand of architects and construction professionals across wide range of industries.

We are part of Kingspan Group
What defines us is our relentless pursuit for better building performance whilst being Planet Passionate in everything we do. We are committed to accelerating a net zero emissions future with the wellbeing of people and planet at its heart.

From Local Irish Roots to Global Leader
The Kingspan Group has come a long way since its founding in 1965 in Kingscourt, Co Cavan, Ireland. We have grown largely by acquisition and globalisation remains at the heart of our ongoing evolution. While we retain our heritage and culture as a family business, we've grown to be the global leader in high-performance



insulation and building envelopes. We help our customers and employees to make a difference in tackling climate change.

Kingspan Group in numbers:	
212	22 000
manufacturing facilities	employees globally
+80	5
countries	business streams

IKON is our global innovation centre located in Ireland. IKON has been built to the highest standards of sustainable design and is a showcase for Kingspan products and systems. Containing state-of-the-art laboratory and research facilities, it is crowned by the Future Space meeting and events area which features cutting-edge technology.



Planet Passionate Programme – Our Mission for the Planet

Climate change is one of the most important issues facing the world today. To protect our planet, we need to prevent a 1,5°C rise in global temperatures this century. To do this, carbon emissions need to be cut to net zero globally by 2050 – but we are currently on course to miss this goal by at least five-fold.

The built environment has a key role to play in this challenge. Today, buildings and construction together account for **36%** of global final energy use and **39%** of energy-related CO2 emissions when upstream power generation is included.

Planet Passionate – our global sustainability programme

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

- Climate change
- Circularity
- Protection of our natural world

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.



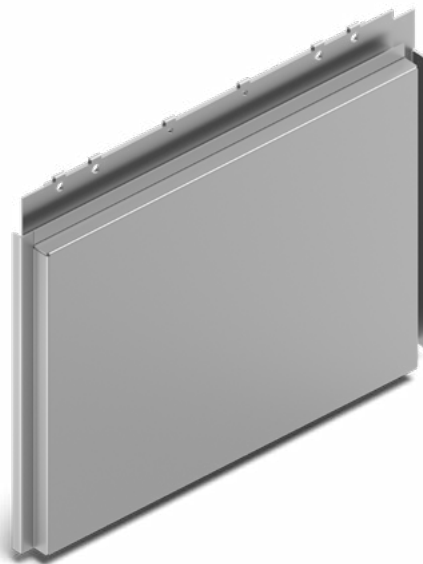
Our 2030 global commitments

 Energy Increase our direct use of renewable energy to 60% by 2030 Increase our onsite generation of renewable energy to 20% by 2030 Install solar PV systems on all owned facilities by 2030	 Carbon Net zero carbon manufacturing by 2030 50% reduction in product CO2 intensity from our primary supply partners by 2030 Zero emission company cars by 2025	 Circularity 1 billion PET bottles upcycled into our manufacturing processes by 2025 All QuadCore® insulation to utilise upcycled PET by 2025 Zero company waste to landfill by 2030	 Water 5 active ocean clean-up projects by 2025 100 mln litres of rainwater harvested by 2030
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Aluminium cassette system

– introduction

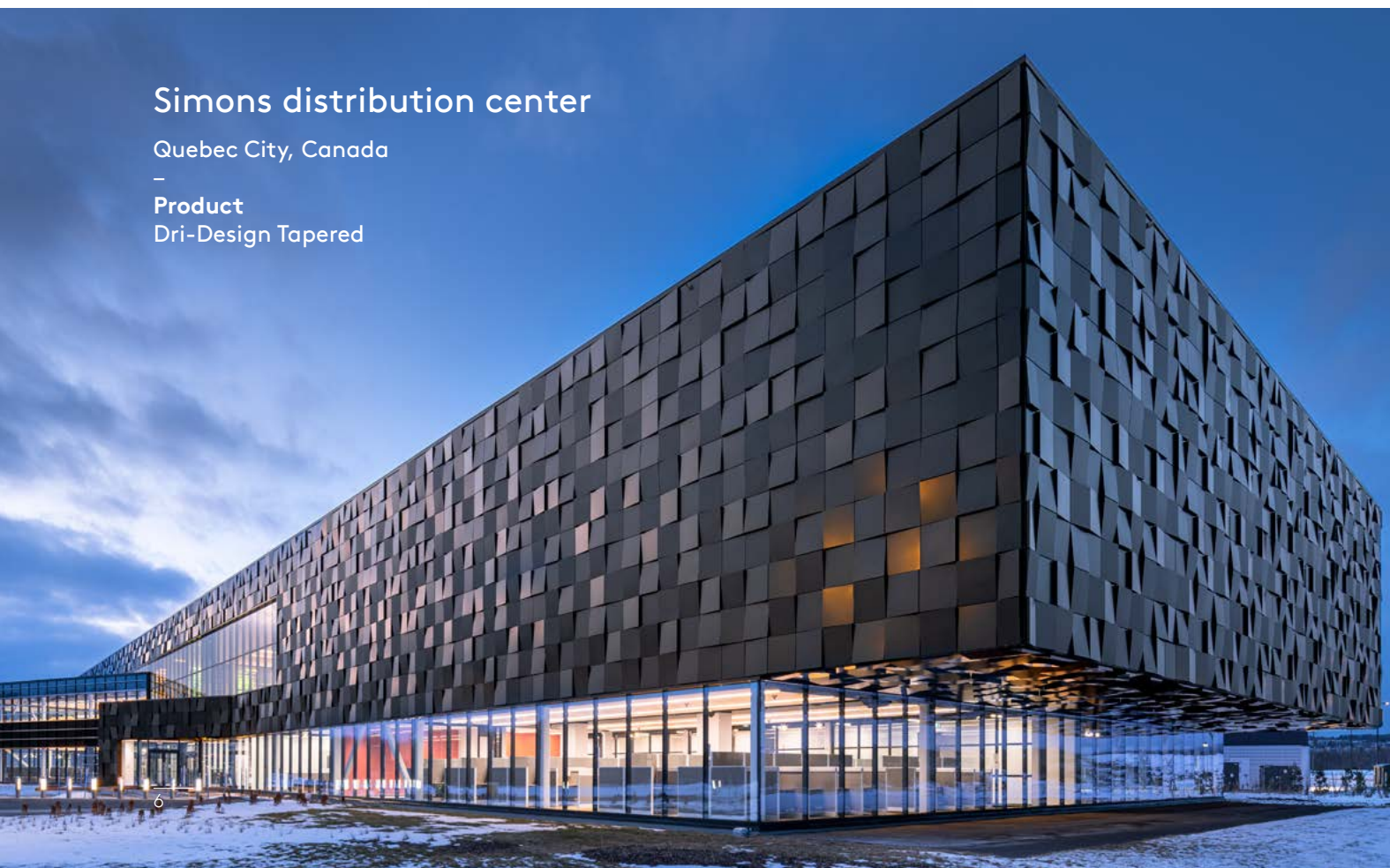
Dri-Design is an aluminium cassette based system dedicated for buildings with minimal as well as sophisticated facade design. The system combines quick and simple installation with durability and high technical performance. Thanks to different cassette types available (Flat, Shadow, Tapered) a 3D facade can be achieved. All Dri-Design cassettes are A2-s1,d0, EN13501-1 compliant.



Simons distribution center

Quebec City, Canada

–
Product
Dri-Design Tapered



Why Dri-Design?



Dry Joints

No sealants or gaskets means no maintenance legacy for the building owner, and no dirty streaks. Dri-Design is not laminated nor a composite material, so cassettes will never delaminate.



Environmentally Friendly

Aluminium composite materials can't match Dri-Design for its environmental footprint. Dri-Design cassettes are 100% recyclable and can be repurposed. Dri-Design single skin technology does not have a plastic core like other metal composite cladding materials. It uses no joint sealants or gaskets which are made with petroleum thus saving fossil fuels and future maintenance costs.



Vast Colour and Coating Range

Available in a variety of colours, structural finishes, dimensions and textures. Practically any colour is available on request depending on order quantity.



Cost Effectiveness

Dri-Design is a cost effective facade system thanks to our highly automated manufacturing process as well as quick & easy installation. Solid aluminium cassettes will maintain uniformity and excellent appearance for many years with minimum maintenance cost.



Certified and Manufacturer's Guaranteed

Dri-Design is CE mark certified and manufacturer's guarantee. Thanks to the highly automated production process, excellent quality and accuracy is achieved cassette by cassette.

Dri-Design Flat

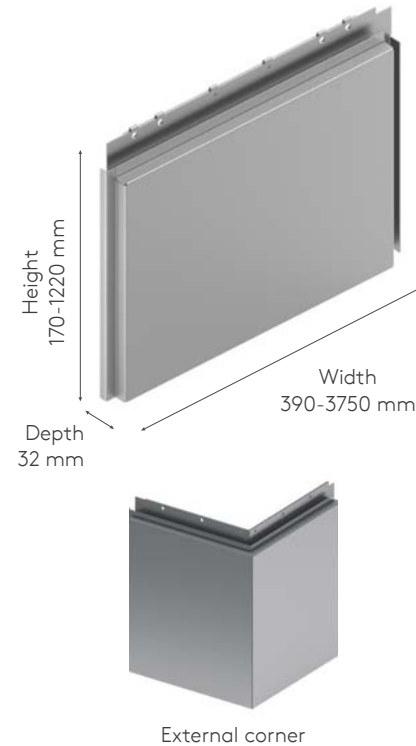
One cassette – Endless possibilities

Dri-Design Flat

- Dri-Design Flat can be easily interchanged with the other Dri-Design cassettes, Shadow and Tapered.
- Dri-Design Flat cassettes can be also perforated.

We offer external corners for every type of Dri-Design cassettes. The dimensions of the cassettes must take into account the following requirements:

- Min. /max. angle: 35° –179°
- Minimum leg in one direction: 80 mm
- Maximum leg in one direction: 500
- Both legs combined cannot be less than: 390 mm
- Both legs combined cannot exceed than: 1000 mm



Airport Square 13 office building

Linthicum Heights, Maryland, USA

Product
Dri-Design Flat

Prairie Meadows casino & hotel

Altoona, Iowa, USA

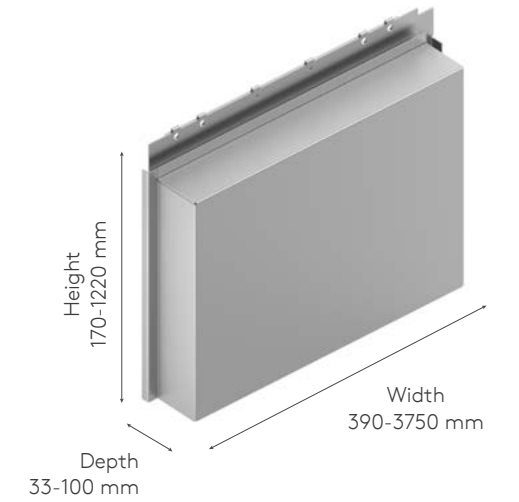
Product
Dri-Design Shadow

Dri-Design Shadow

One cassette – Endless possibilities

Dri-Design Shadow

- Dri-Design Shadow cassettes allow you to add depth and character to any architectural design.
- Each cassettes can be designed with varying depth to the to the face of the façade, creating rich textures or dynamic patterns on the building facade.
- Dri-Design Shadow cassettes can be also perforated.



Karrier panel

Dri-Design Shadow

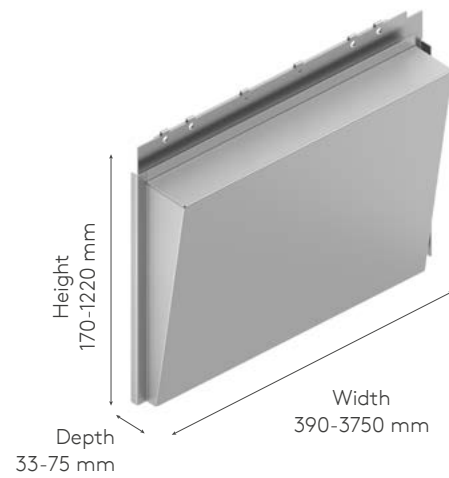


Dri-Design Tapered

One cassette – Endless possibilities

Dri-Design Tapered

- Dri-Design Tapered cassettes can be made with different slope angles depending on the depth of the cassettes.
- Freedom to design each specific cassette gives you an unlimited capacity to create a dynamic, one-of-a-kind surface on nearly any facade, without the need to modify the substrate or weather barrier.
- Dri-Design Tapered cassettes can be also perforated.



Tishomingo Health Clinic
Tishomingo, Oklahoma, USA
—
Product
Dri-Design Tapered



University of Arizona

Tucson, Arizona, USA

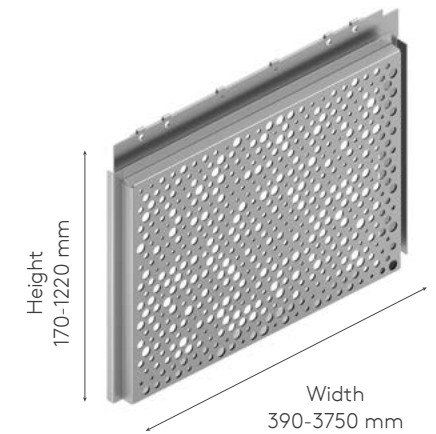
Product
Dri-Design Perforated

Dri-Design Perforated

One cassette – Endless possibilities

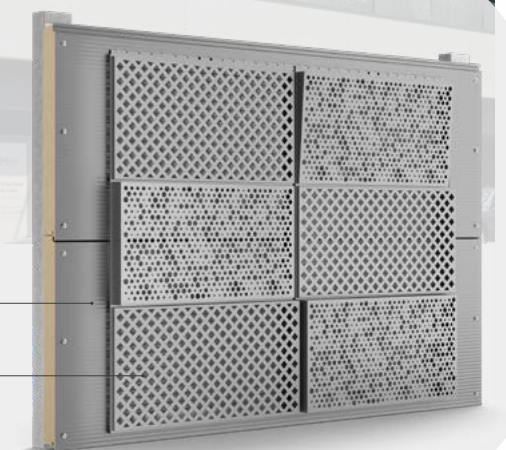
Dri-Design Perforated

- By varying the size, density and position of the perforations, Dri-Design Perforated cassettes allow for free play of light and shadow and allow any drawings or images to be reproduced on the façade.
- Perforations allow air circulation in places where it is required.
- Perforations in cassettes are available as an additional paid service. Can be added to Dri-Design Flat, Tapered or Shadow cassettes.



Karrier panel

Dri-Design Perforated

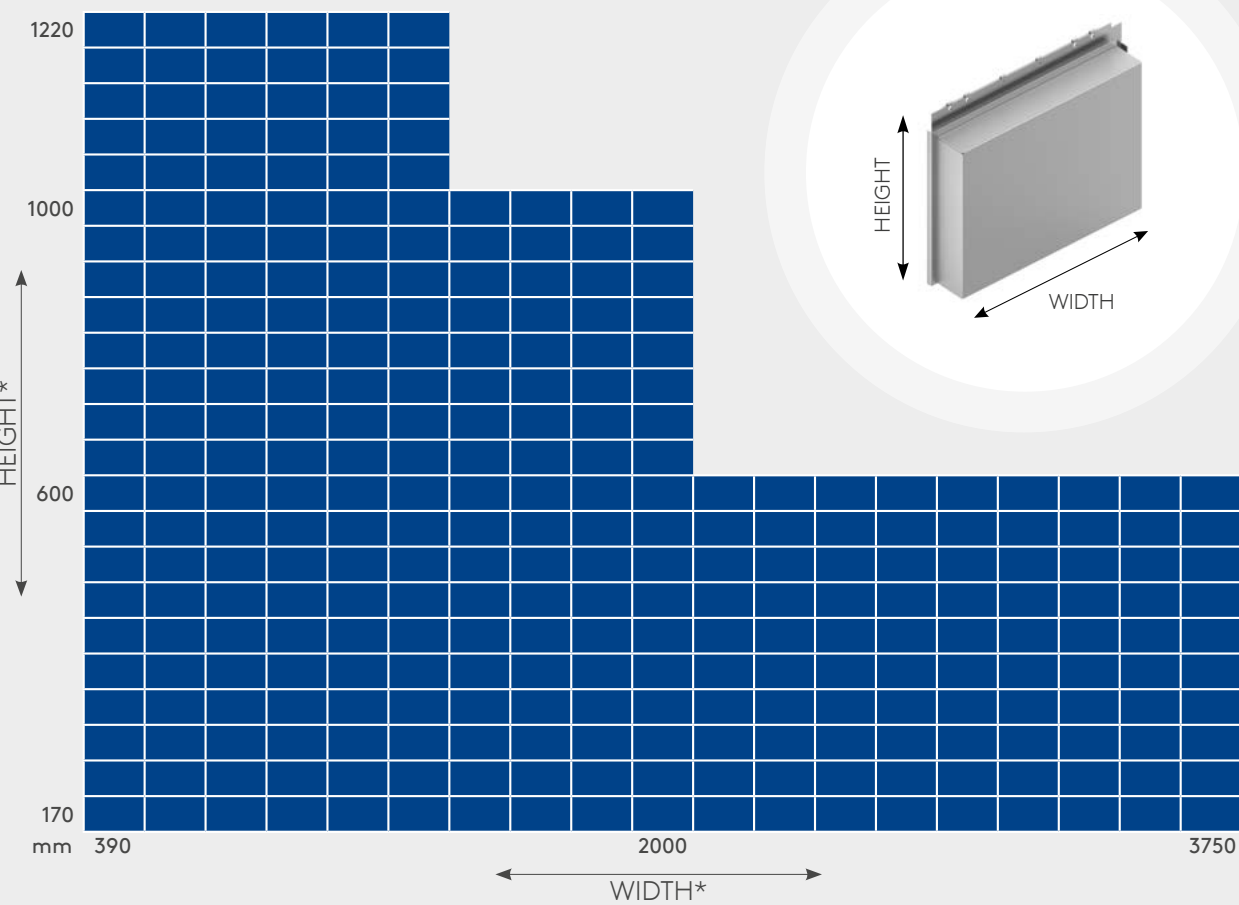


Cassette sizes

Cassettes technical specs:

- Minimal / maximal face width: 390 – 3750 mm
- Minimal / maximal face height: 170 – 1220 mm (face width to be determined from wind load)
- Depth of cassette: 32 – 100 mm according to the type of cassette
- Aluminium thickness: 2 mm
- Width of vertical joint: 16 mm
- Width of horizontal joint: 14 mm
- Finish types: polyester powder coated (PPC), anodised, mill

Dri-Design cassettes are available in the following sizes:



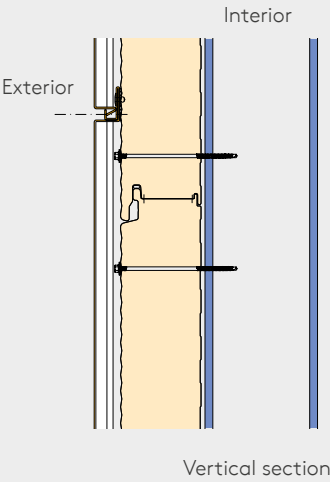
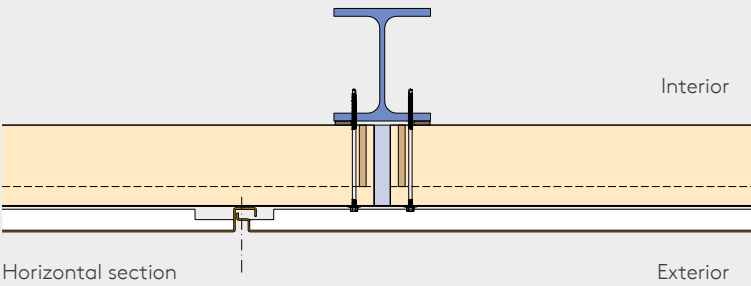
At Kingspan we research and test new Dri-Design cassettes sizes to expand the range of cassettes offered. For latest information about available sizes please visit [Kingspan.com](https://www.kingspan.com) or contact our technical support.

*Dri-Design cassettes can be made with an increments of 1 mm.

Wall installation options

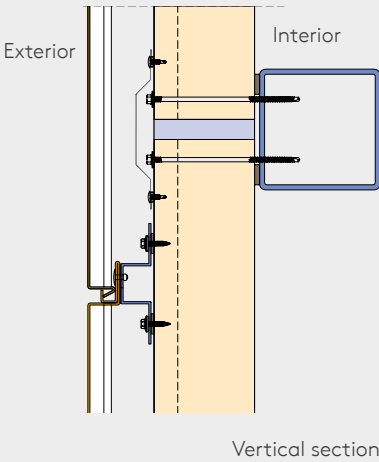
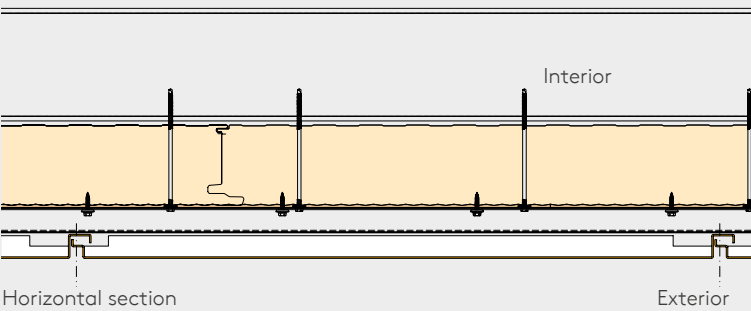
Option One

Direct Fix (Dri-Design cassette + Karrier panel)



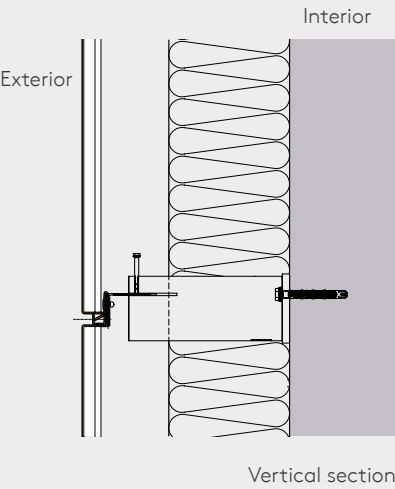
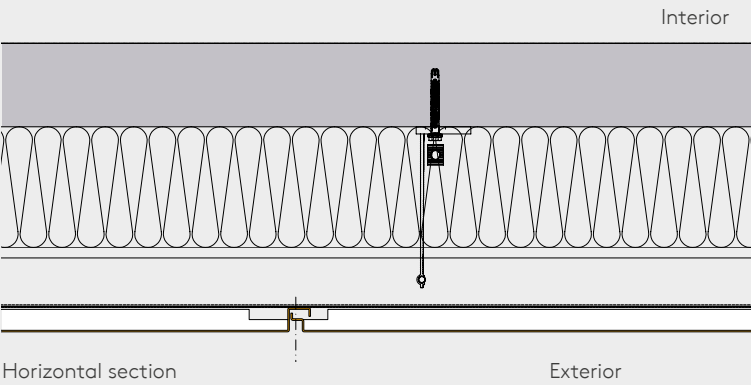
Option Two

Dri-Design installed to Karrier panels using aluminium subconstruction (Dri-Design cassette + Alu subconstruction + Karrier panel)



Option Three

Ventilated Facade (Dri-Design cassette + Substructure)



All technical information is subject to alterations.



Joint detail
(horizontal section)

Parapet detail
(vertical section)

Corner detail
(horizontal section)

Curtain wall - Head detail
(vertical section)

Curtain wall - Jamb detail
(horizontal section)

Quincy high school

Quincy, Washington, USA

Product

Dri-Design Flat

We offer a wide range
of architectural details

For more information please contact our Technical department

Colours and coatings

Standard PPC coatings

We offer an extensive colour and finishes range for our Dri-Design system.

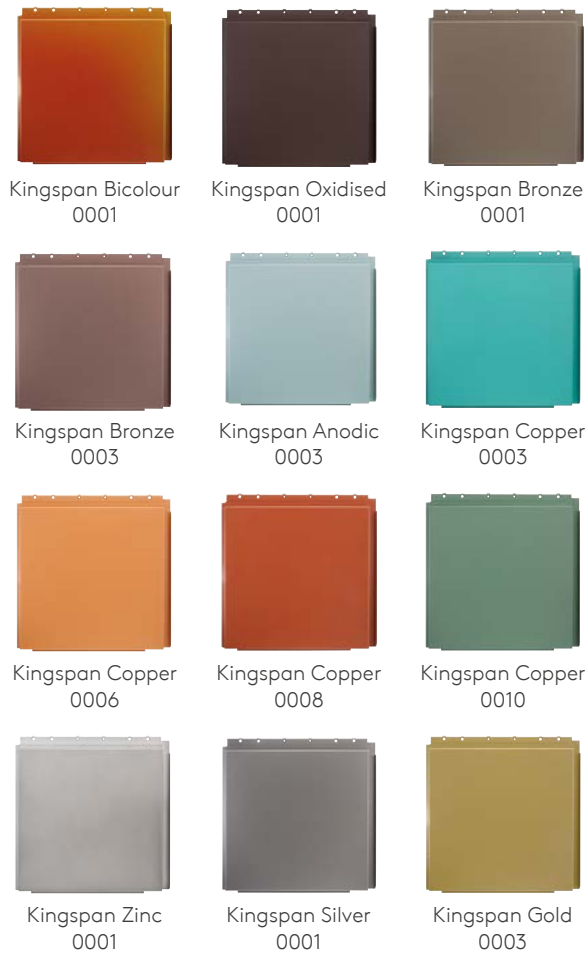
Dri-Design cassettes are available in aluminium with polyester powder coating (PPC). A brochure with all available colours and finishes is available at www.kingspanfacades.com

Our standard colours are available in a variety of gloss levels, from matt to high gloss. All colors of polyester powder coatings are available in the Class 2* standard, which is characterized by very high quality and durability.

Examples of standard PPC coatings



Examples of structural coatings



Structural coatings

Painted or anodised aluminium.

Powder coating on aluminium can replicate the appearance of other, more expensive materials like copper, zinc or corten steel giving texture and tone as well as colour.

Anodizing of aluminium takes the natural oxidation process and helps it along by adding electricity and chemicals to produce a dense surface that is integral with the aluminium.

All associated system accessories can be finished in the same range to compliment the facade.

QUALICOAT is a global quality label organisation committed to maintaining the quality of lacquering, painting and coating on aluminium and its alloys for architectural applications. Its registered office is situated in Zurich, Switzerland. QUALICOAT is the world's leading quality label for the coating of aluminium.

QUALICOAT has established Specifications defining minimum requirements for plant and equipment, coating materials and finished products. All requirements in the Specifications must be met before a quality label can be granted.

These Specifications are designed to ensure high-quality of coated products for use in architectural applications.



Licencja Nr 1013

* Class 2 powders are being recognized by a growing number of specifiers and used on prestigious projects. Class 2 powders offer a superior resistance to UV and are formulated with different compounds. These powders can offer extended life expectance with reduced maintenance.

Canopy by Hilton hotel

Tempe, Arizona, USA

Product
Dri-Design Flat

System benefits

Architect/Designer

- Beautifully simple one-piece engineering.
- Unique 3D cassette system on the market.
- Nearly endless design possibilities.
- Virtually unlimited range of colours, finishes, textures and custom perforations.
- Flashings and fabrications are manufactured and coated within the same facility thus they are fully integrated into your design.
- Free technical support.



Contractor/Installer

- Simplicity of modular system.
- Twice as fast installation time compared to other facade systems available which leads to significant savings in time and/or costs.
- No dirty or wet work required.
- Installation in virtually all weather conditions when assembled with Karrier panels.



Investor/Developer

- Functionality, low maintenance cost for minimal cleaning.
- Dri-Design can elevate the beauty of the building to a much higher level hence a higher selling price is possible.
- Manufacturer's guarantee.
- Dri-Design cassettes are made of pure aluminum and can be recycled.



The Benefits of Dri-Design + Karrier panel vs multi-component ventilated facade

up to 2.0 times

shorter installation time
with measurable savings
in overall project cost



zero

sealants, gaskets or butyl
tape in cassette joints,
means no dirty streaks and
maintenance cost reduced
to the absolute minimum

up to 2.0 times

less truck deliveries to site



up to 25 cm

thinner wall structure
leading to savings in overall
footprint and associated
development costs

28 kg

saving in weight per 1 m²
for easier and safer handling

100%

recyclable + can be reused

up to 2,5 times

lighter facade with savings
in structure and foundation

Dri-Design installs twice as fast as comparable systems with minimum components. When installed to Karrier panel leads to more lifetime energy savings plus a thinner and lighter facade solution with multiple benefits in terms of efficiency and sustainability.

* These are estimates for facade using traditional built-up system with mineral fibre and ACM, compared with a 100 mm Karrier panel and Dri-Design cassette. Accurate calculations could be achieved with more detailed project information.

Kimpton Tryon Park hotel

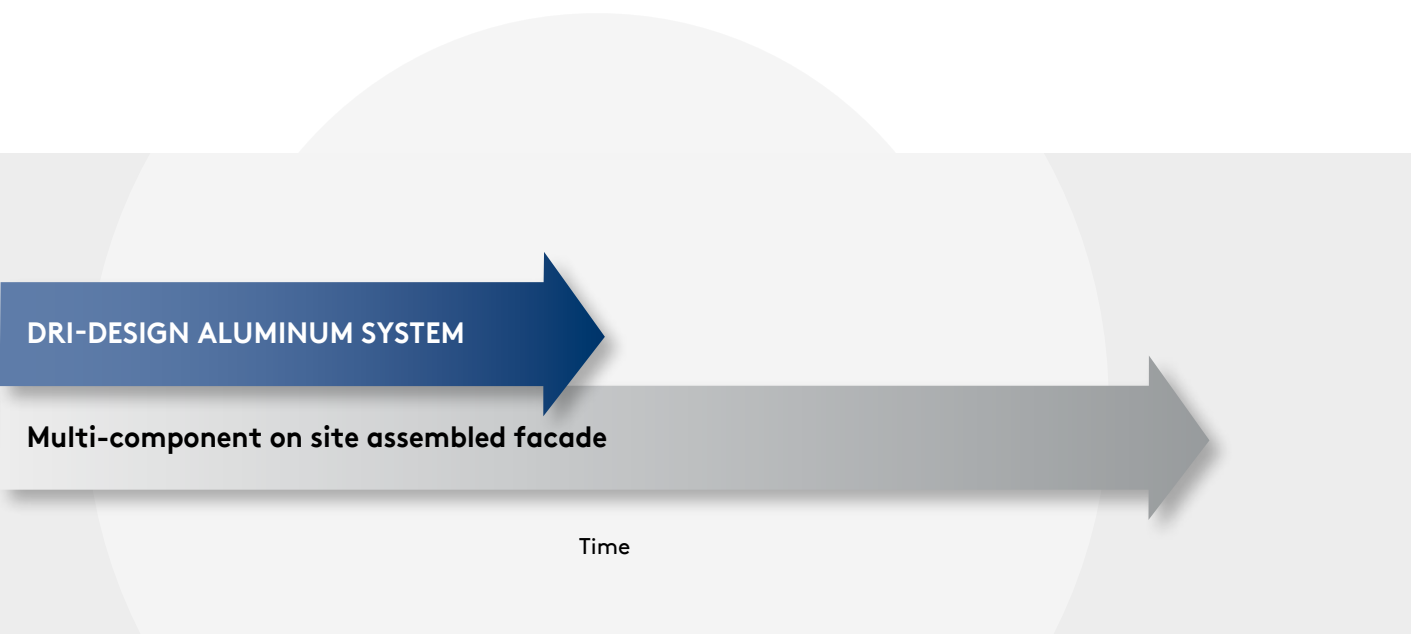
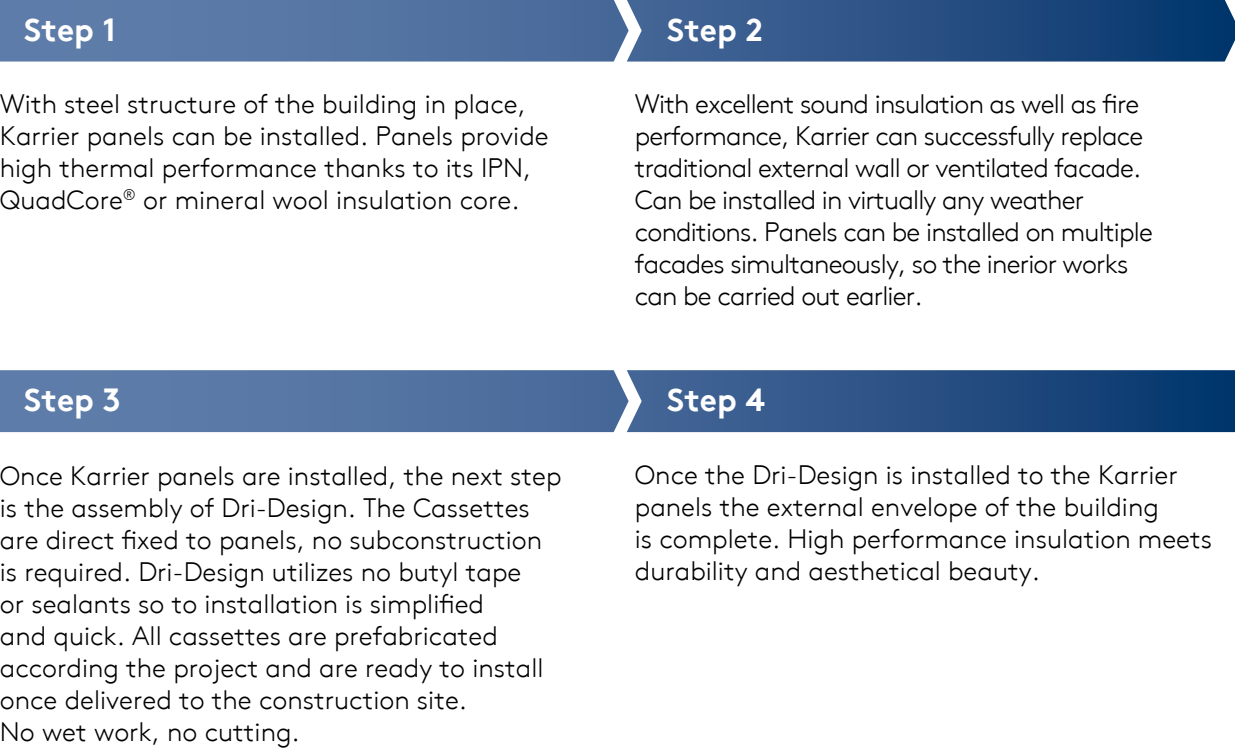
Charlotte, North Carolina, USA

Product
Dri-Design Flat



Superfast installation

Dri-Design cassettes combine superfast installation and durability. Installation of Dri-Design cassettes directly to Karrier panels is distinguished by excellent thermal performance as well as speed and this simplicity of installation. At least twice as fast compared to multi-component ventilated facade systems.



Next generation of architectural design

Lasting quality and beauty

The secret of Dri-Design's success is the interlocking system used to fasten the panels to the structure. It is a patented system that also functions as a superior solution of water management.

Thanks to this unique technology, the panels perform flawlessly in the long term. There is no delaminating, streaking or staining associated with silicone sealants, gaskets and laminated competitor products.



Robotized production process

Kingspan utilizes the latest automation technologies to streamline the manufacturing process and maintain highest quality and precision in every single cassette.



Superior sustainability

Dri-Design cassettes are made of pure aluminium and can be recycled.



Williston Basin airport

Williston, North Dakota, USA

Product

Dri-Design Flat,
Dri-Design Shadow



Technical support at every stage of the project

Technical services

Technical department in Kingspan advises and supports designers, specifiers and installation contractors in the areas of building design, product application and integration, code compliance and site-work installation practices.

We can work with you to advise and recommend wall solutions for your project from the design concept through the installation, construction and handover. We provide a fast, project specific tender bid and specification service in partnership with recommended installers and contractors.

All Kingspan products are fully supported by relevant testing, certification and accreditations to ensure compliance, and are guaranteed for operational performance and service life durability.

We provide training and support in order to guide our installers to deliver products that fulfill customers requirements and expectations.

Quotations

To receive a quote for your designs, including pricing and lead times, call the Kingspan team.

Customer service

Our dedicated team provides focused customer service for all commercial pre- and post-order administration, delivery scheduling, and installer support, ensuring a seamless, coordinated customer experience. To ensure high levels of satisfaction, we regularly conduct customer surveys to gather important feedback that help us keep a pulse on the marketplace.

Sales team

The Kingspan sales team is available to provide advice, presentations and one-to-one service. Visit the [kingspanfacades.com](https://www.kingspanfacades.com) website.

Marketing support

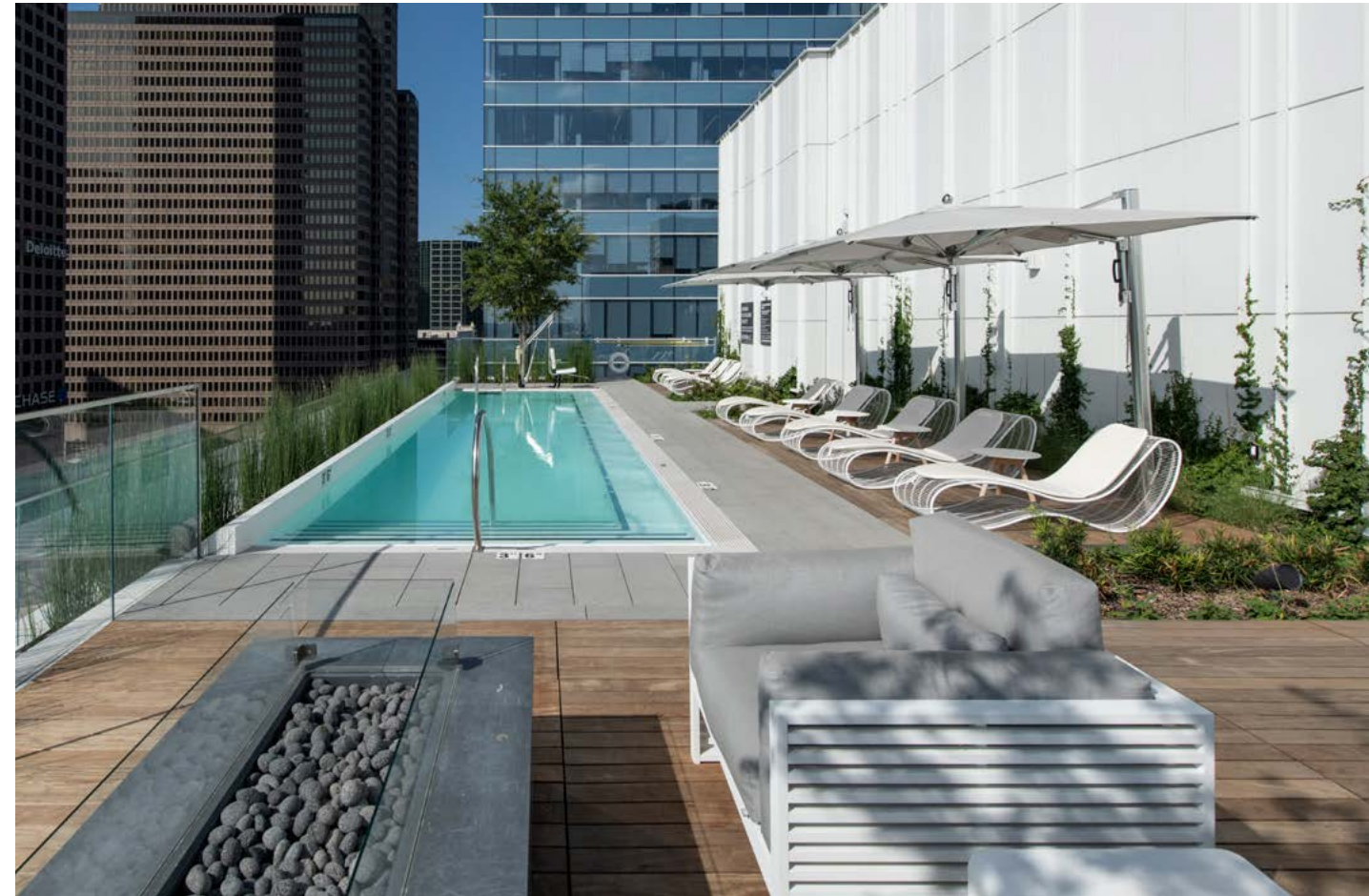
Our Marketing team aims to provide a fast turnaround on standard sample and literature requests, eliminating delays with planning and client approval of material, so that your project begins on-time. Additional marketing support is provided through the use of project case studies.

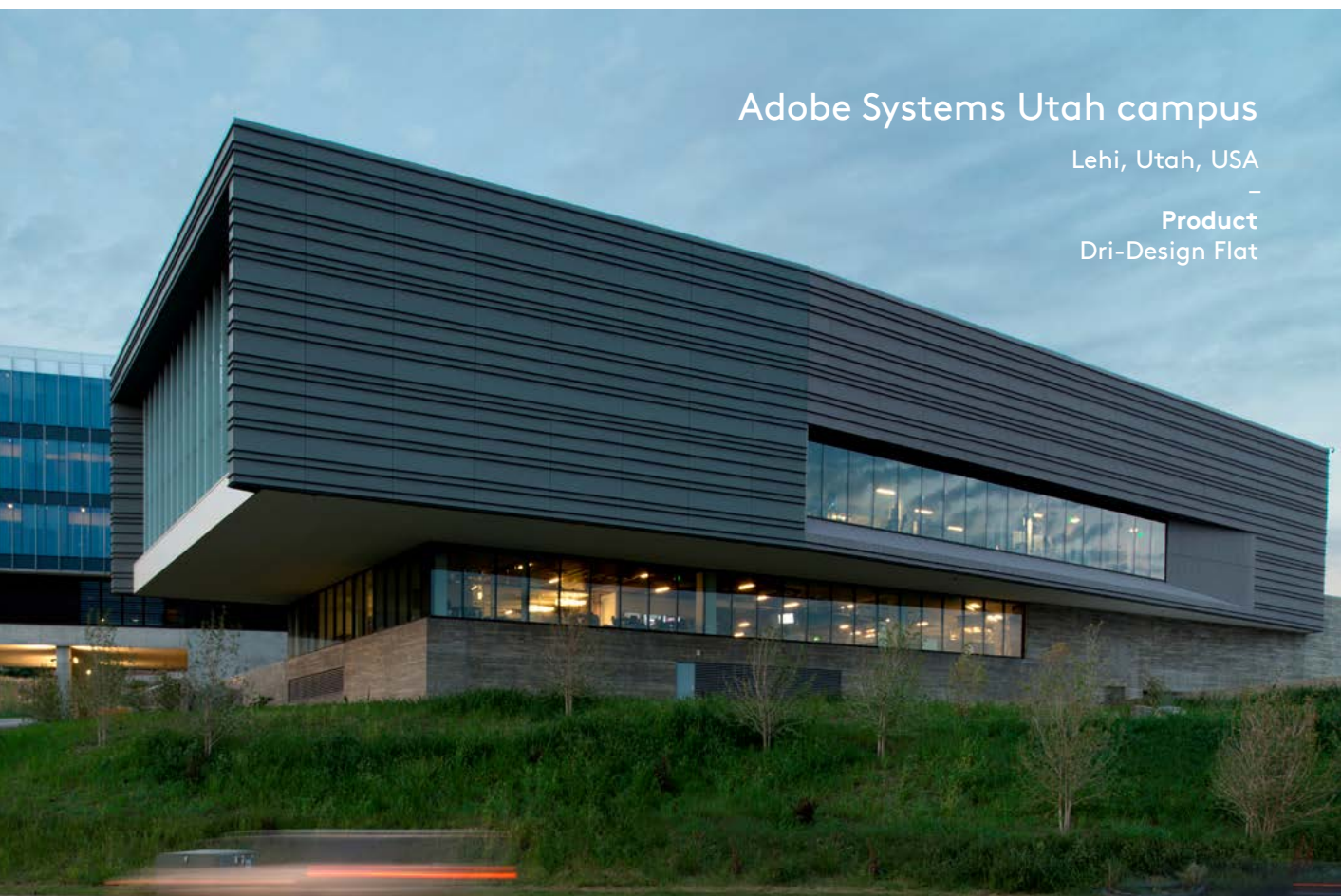
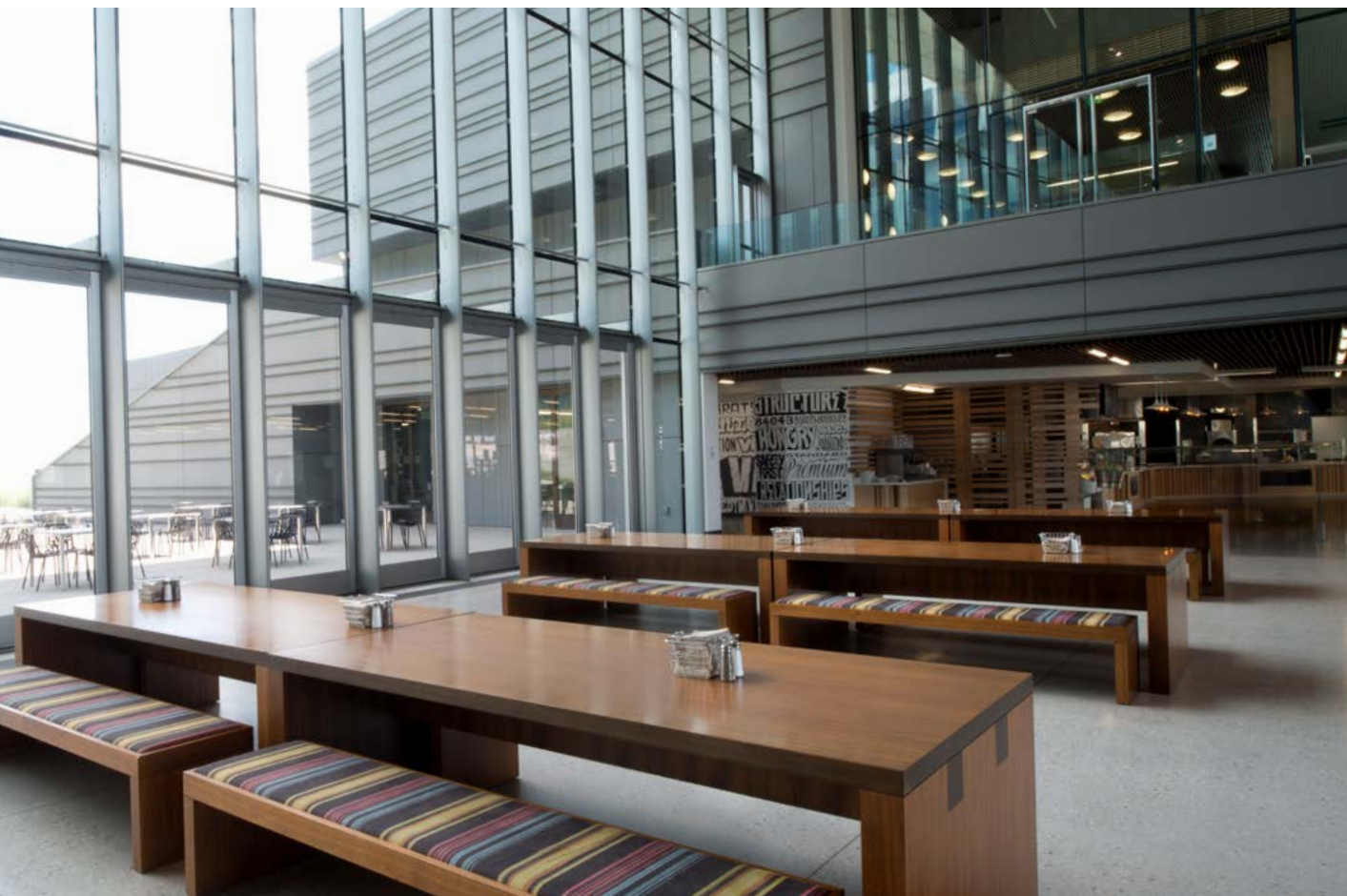
Projects gallery

Hall Arts hotel

Dallas, Texas, USA

Product
Dri-Design Flat





Adobe Systems Utah campus
Lehi, Utah, USA
—
Product
Dri-Design Flat



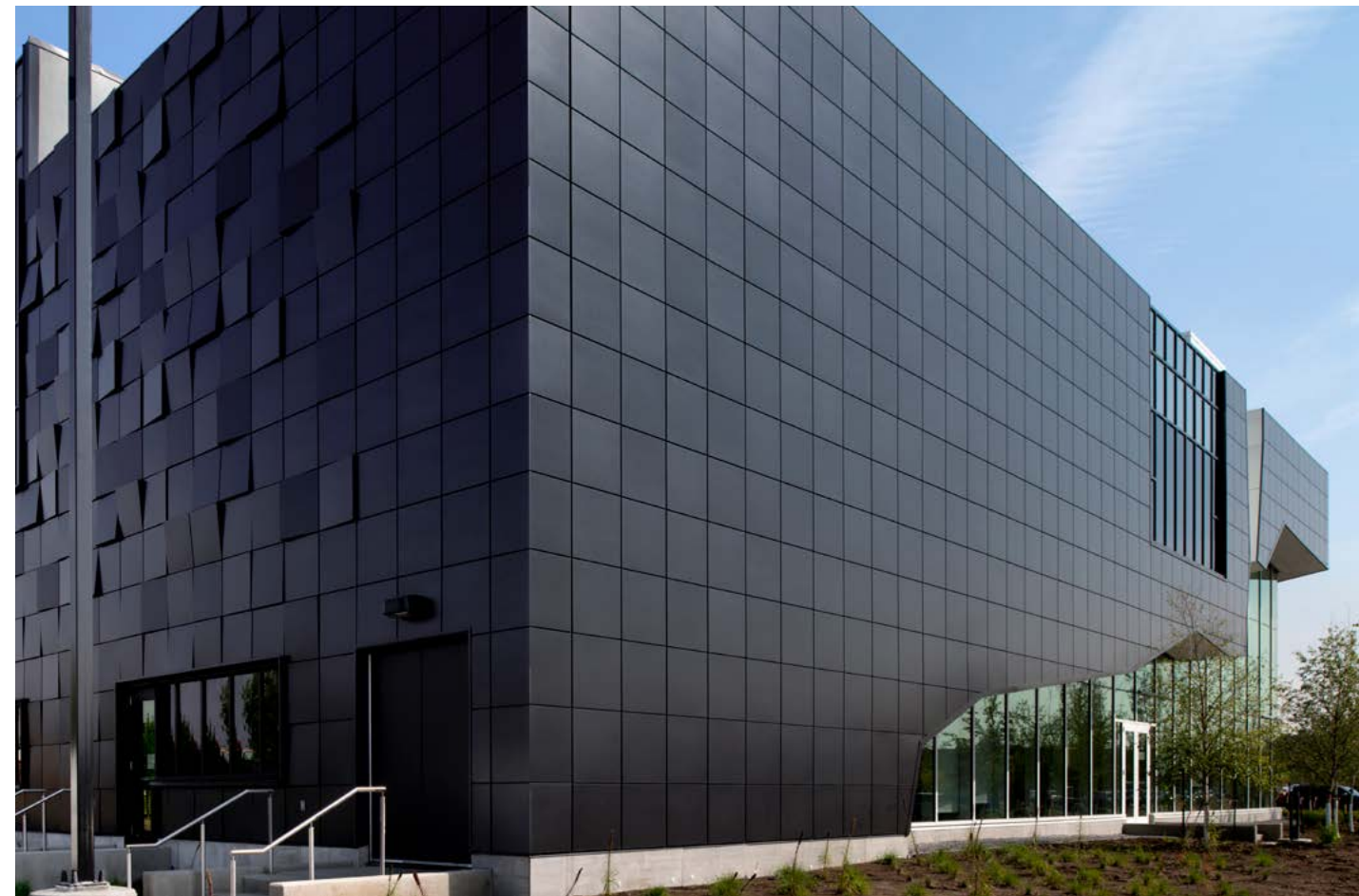


Durham City hall
Durham, North Carolina, USA
—
Product
Dri-Design Flat



Broadwater office
Great Falls, Montana, USA
—
Product
Dri-Design Flat



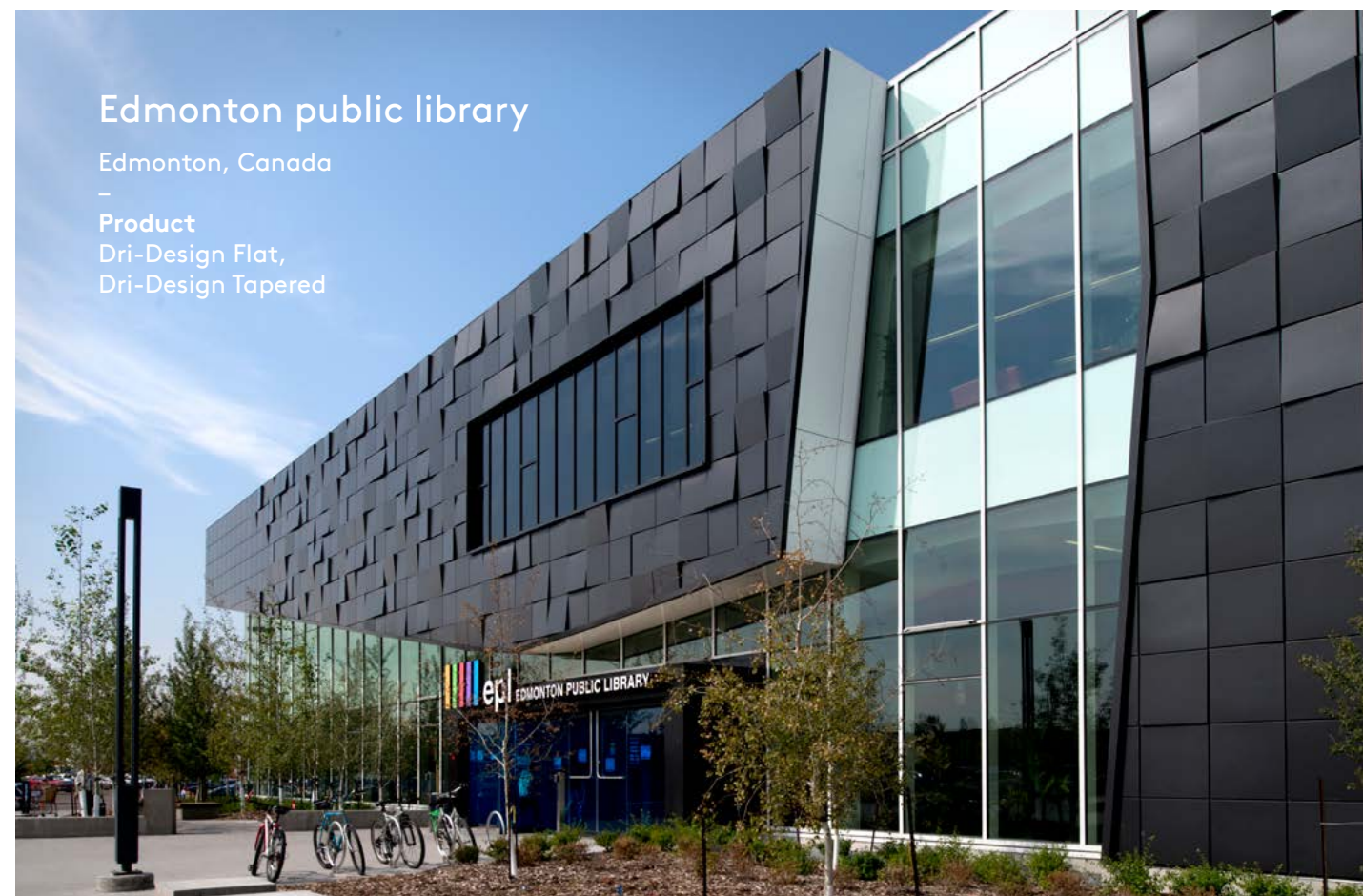


Edmonton public library

Edmonton, Canada

Product

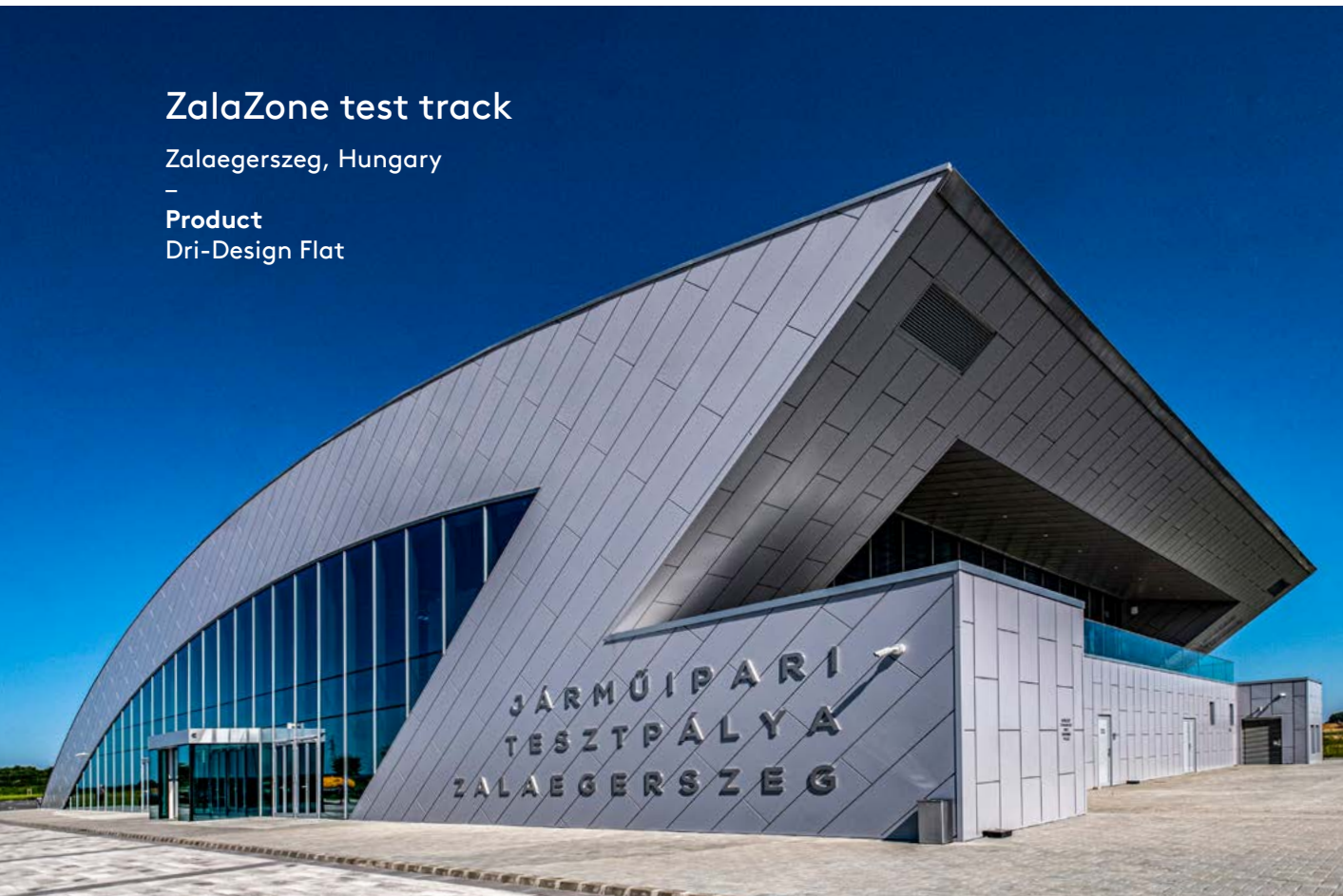
Dri-Design Flat,
Dri-Design Tapered

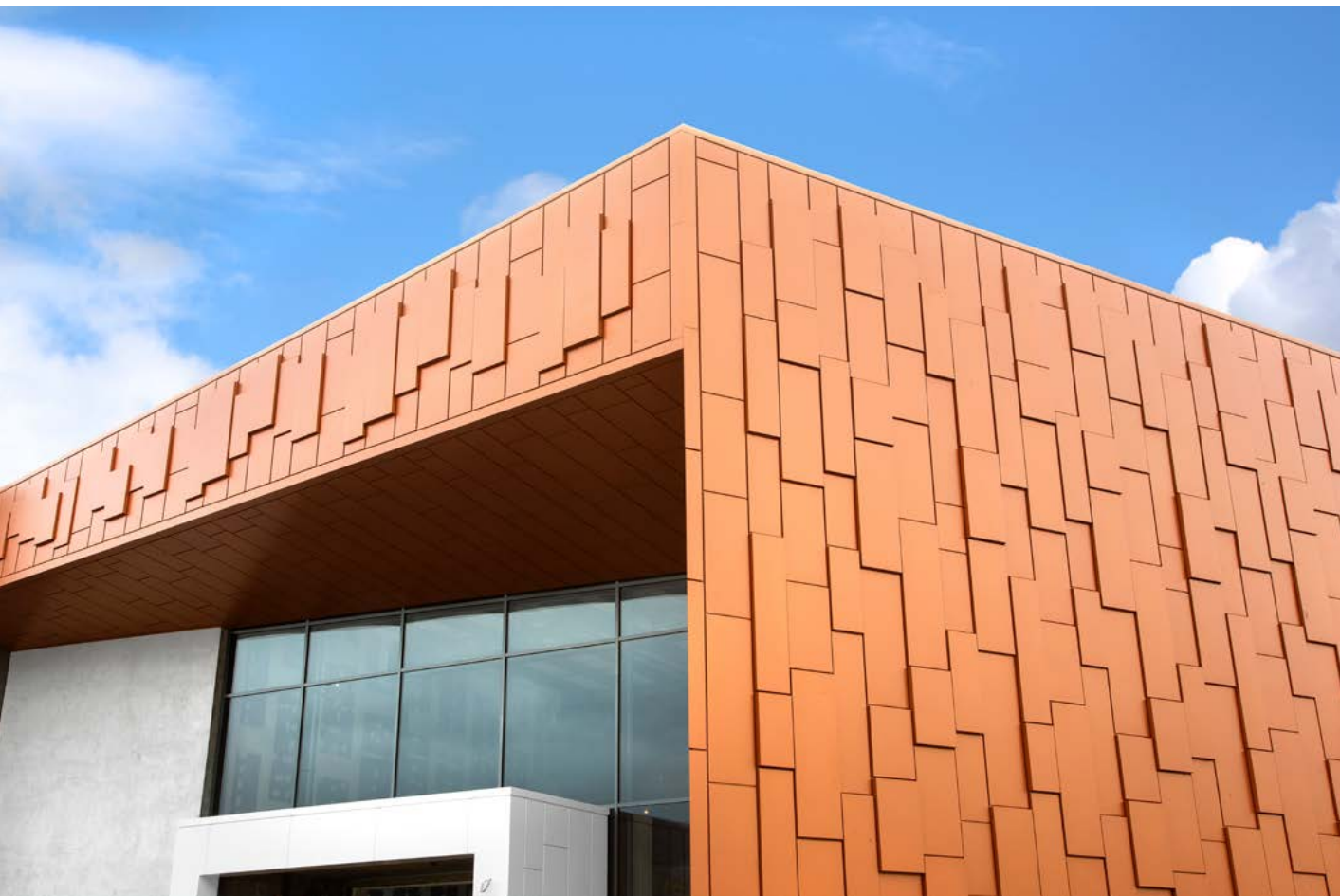


ZalaZone test track

Zalaegerszeg, Hungary

Product
Dri-Design Flat





IMC cinema

Kilkenny, Ireland

—
Product
Dri-Design Shadow



Lackland Air Force Base

San Antonio, Texas, USA

—
Product
Dri-Design Flat



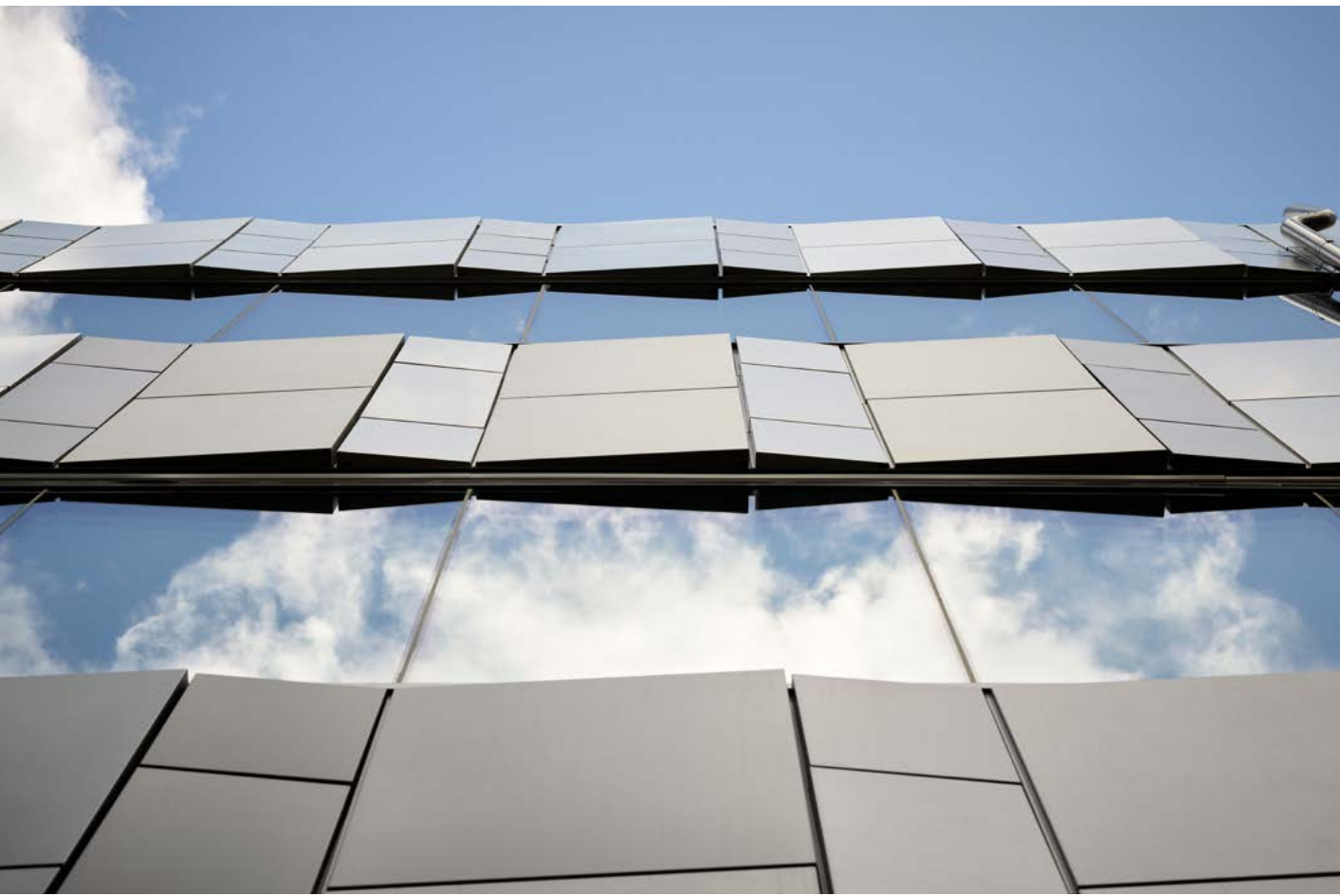


Spring Street office building

Long Beach, California, USA

Product
Dri-Design Flat,
Dri-Design Tapered





Fujirebio GoCo office and laboratory building

Mölndal, Sweden

Product

Dri-Design Flat

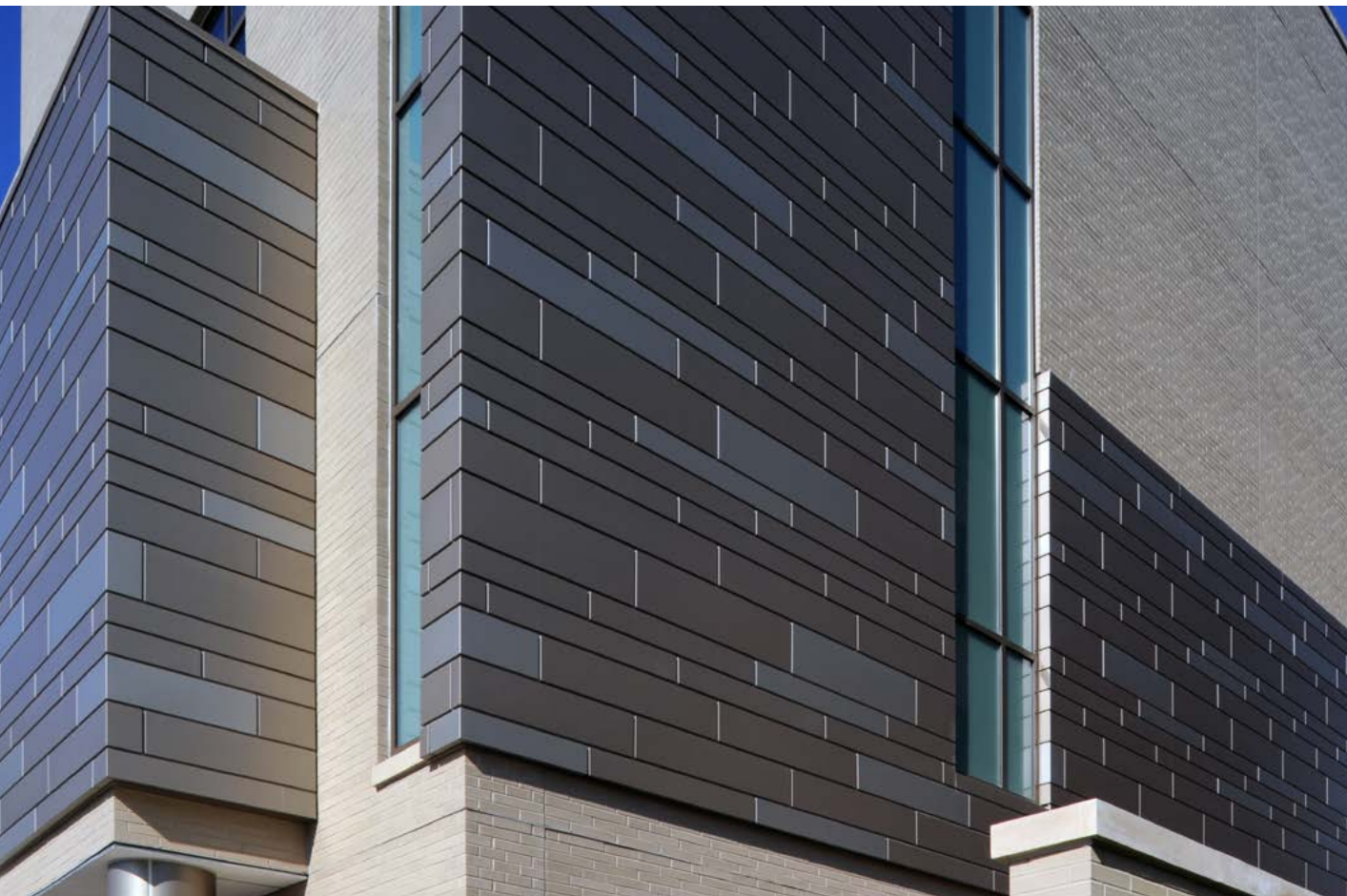
Dri-Design Tapered



Chicago Theological Seminary

Chicago, Illinois, USA

Product
Dri-Design Flat

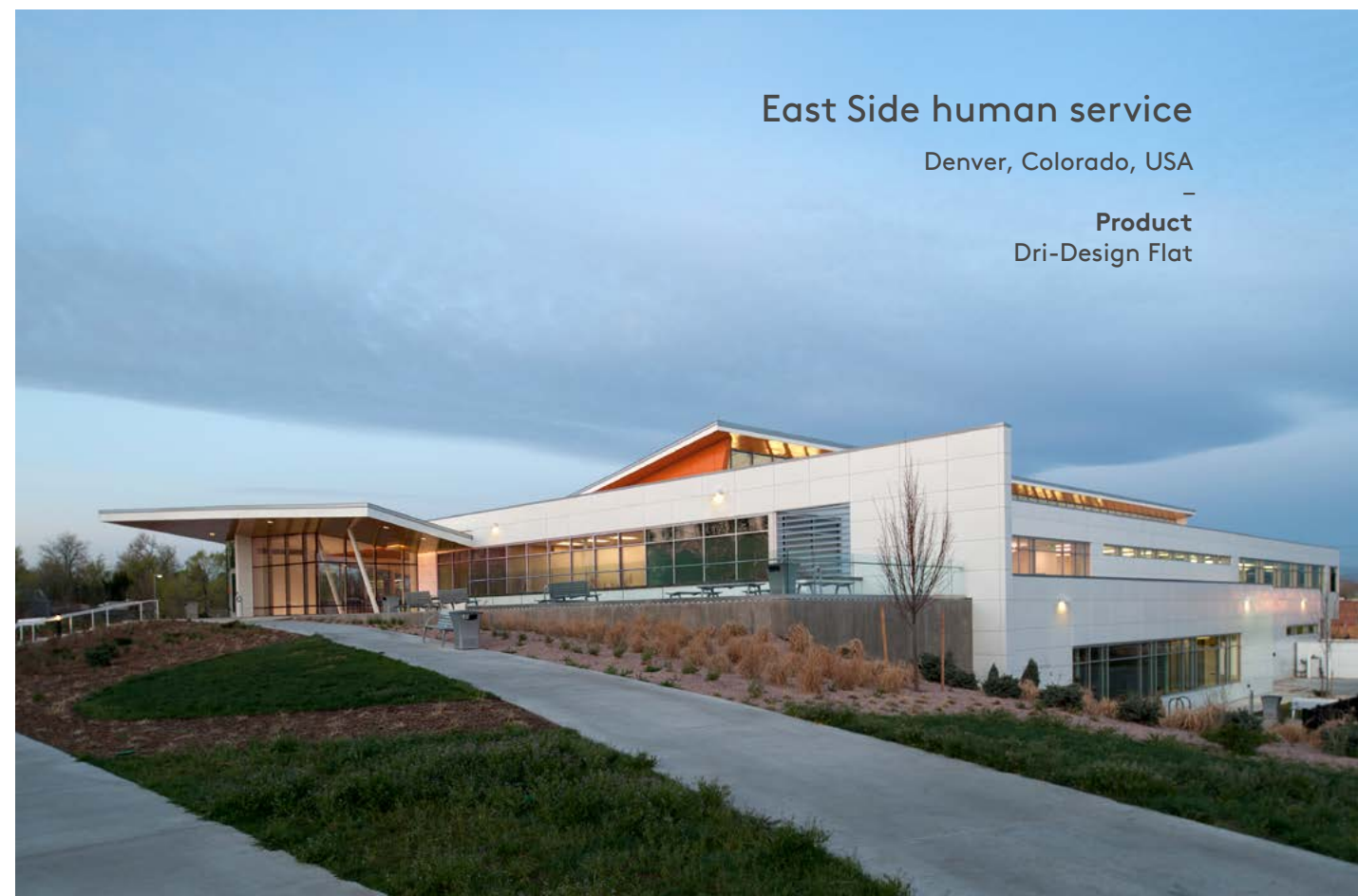


Chinguacousy ski chalet

Brampton, Ontario, Canada

Product
Dri-Design Flat

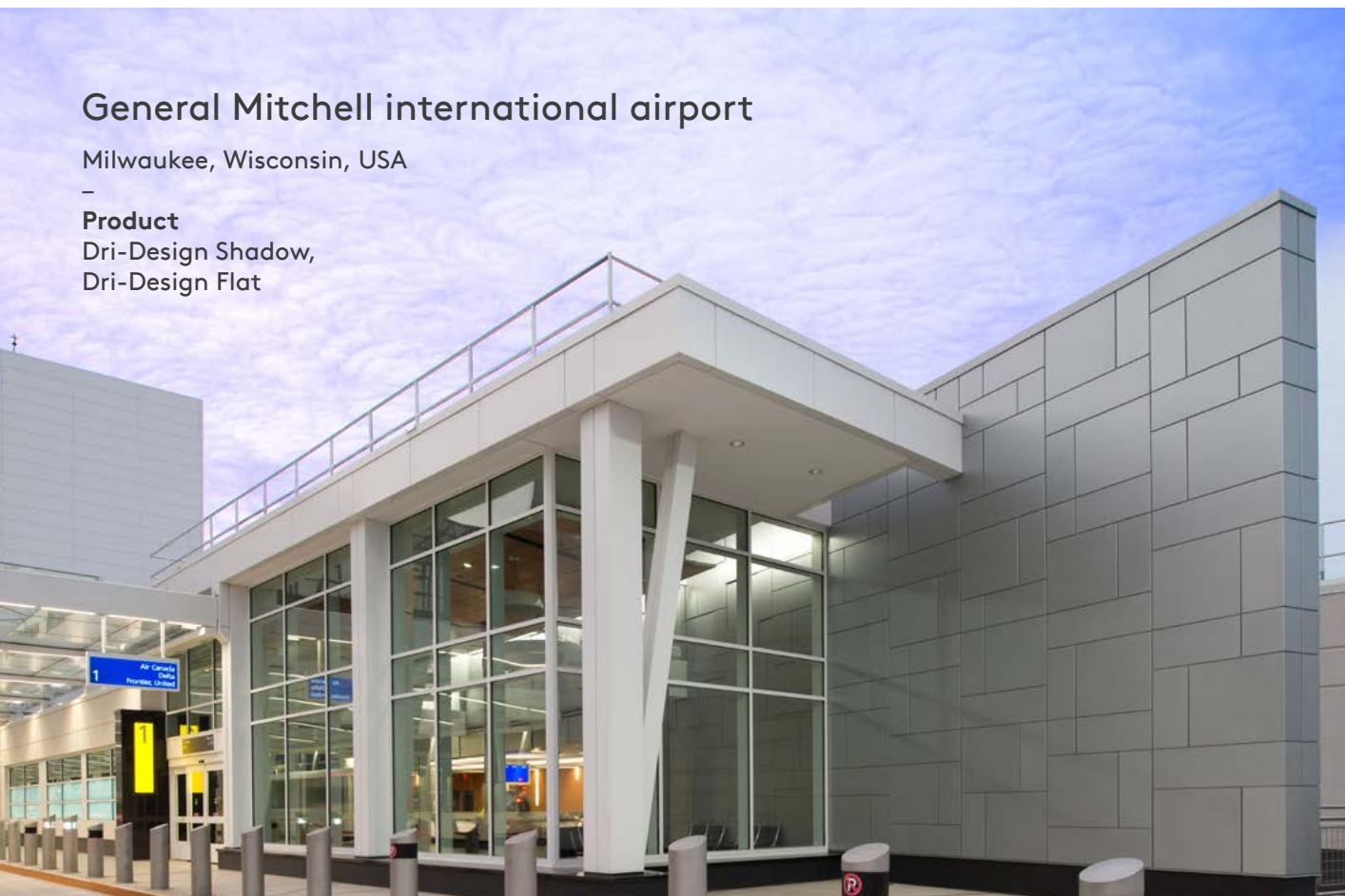




East Side human service

Denver, Colorado, USA

Product
Dri-Design Flat



General Mitchell international airport

Milwaukee, Wisconsin, USA

Product

Dri-Design Shadow,
Dri-Design Flat

A Nordstrom store in the Eaton Center

Toronto, Canada

Product

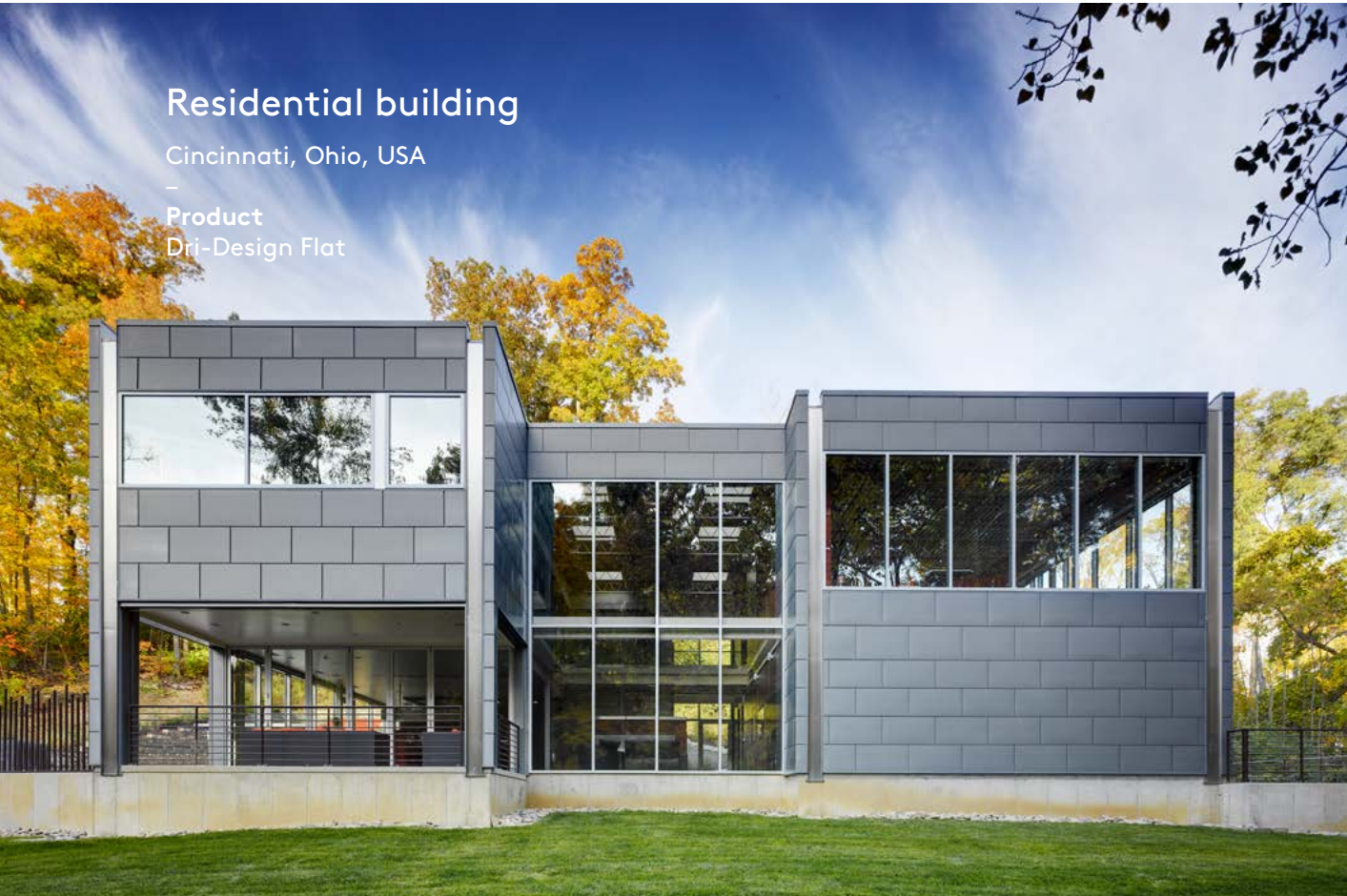
Dri-Design Flat,
Dri-Design Shadow



Residential building

Cincinnati, Ohio, USA

Product
Dri-Design Flat



HealthPartners neurological clinic

St. Paul, Minnesota, USA

Product
Dri-Design Flat



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For the latest and most comprehensive product details, please always refer to the latest information by scanning the QR code or clicking this [link](#).

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