



Kingspan Facades

Dri-Design Rainscreen Façade

Product Data Sheet

Dri-Design Flat, Shadow, Tapered and Perforated
Architectural Façade System



For buildings with high aesthetic appeal or requiring a perforated façade, our system provides fast build, high technical performance solutions.

We can achieve this with our range of patented SuperFast Install Dri-Design metallic rainscreen cassette system which can be installed over our Karrier System wall panel. The Dri-Design cassettes are available in highly durable powdercoat or anodised aluminium across a range of shapes and sizes.



Dri-Design Rainscreen Façade

Flat



Dri-Design Flat cassettes install at least twice as fast as most comparable systems. They are available as direct fix or ventilated cavity cassettes. No sealants, gaskets or butyl tape in the cassette joints, means no dirty streaks or a legacy of maintenance for the building owner.

Tapered



Dri-Design Tapered cassettes can be angled in any direction with varying depths and degree of slope. This freedom to design each specific cassette gives you 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.

As with all Dri-Design, the Tapered cassette is a patented design that installs much faster than most similar systems, available as a direct fix or ventilated cavity.

SuperFast Install



Project: Mill Woods Library, Edmonton, Canada | Product: Dri-Design Tapered Rainscreen Facade

Shadow



Dri-Design Shadow cassettes let you add depth and definition to any architectural design. Individual panels can be extended at varying depths to create texture or a dynamic variation in patterns, all while keeping the substrate and weather barrier in the same plane.

As with our other patented Dri-Design systems, the Shadow cassettes install much faster than most similar systems, available as a direct fix or ventilated cavity.

Perforated



Dri-Design Flat, Tapered and Shadow cassettes can be perforated using advanced computer-based manufacturing to create complex images using perforations.

By varying the size, location and density of the perforations, areas of light, dark and shades in between are created to form an image. These perforations also allow the cassette to provide needed airflow and/or shade to a structure. Since the images can be created from any digital picture, you are only limited by your imagination.

Dri-Design Rainscreen Façade Systems

Product Data Sheet

Dri-Design rainscreen facade installs at least twice as fast as comparable systems and can be direct fix or installed on a rail to form a ventilated cavity. The rainscreen cassette comes in three variations plus it can be perforated. Stackbond or Stretcher Bond patterns, horizontal or vertical orientation, designers can achieve patterns that are easily interchangeable without the need for complicated rail and bracket systems.

Cassette Types



Flat



Shadow



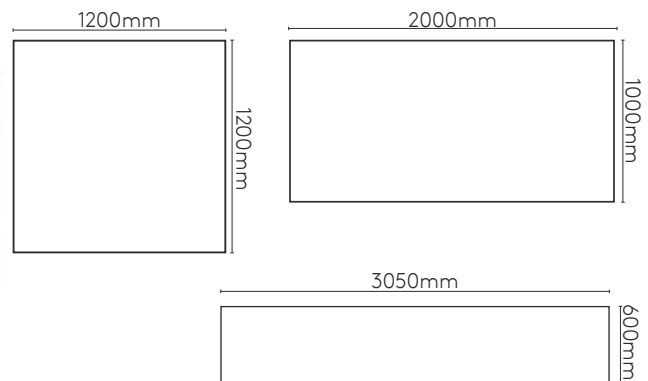
Tapered



External Corner

Dimensions

The below face sizes are maximum standard sizes for aluminium.



Note: based on 2mm aluminium

Minimum face size for aluminium flat cassettes is 390mm wide x 170mm high. These can be increased in 1 mm increments up to the above recommended maximum face size cassette guides. If the cassette you would like fits inside these appropriately aligned guides we can easily manufacture it. For larger face sizes please contact Kingspan Technical Services to discuss your specific requirements.

Materials Available

Aluminium
2.0mm

Product Tolerances

Length:
±2.0mm

Width:
±2.0mm

Thickness: Squareness:
±2.0mm

Joint Width: 14mm horizontally
16mm vertically

Flat Cassette: 32mm deep

Shadow Cassette: 33-100mm deep (1mm increments)

Tapered Cassette: 33-75mm deep from a single edge

External Corner: Max. leg length 450mm
Min. leg length 80mm
(subject to total cassette length exceeding 400mm)

Note: Internal corners are not available.

Fire

Dri-Design facades with QuadCore™ Karrier substructure has undertaken independent large-scale fire performance testing, achieving BS 8414/BR 135 compliance.

Dri-Design cassettes are solid aluminium which contain no 'core' materials.



BR 135

BR 135 to BS 8414

Aluminium Dri-Design cassette with 80mm QuadCore™ Karrier Panel has been tested to BS 8414-2.

Material Properties

Material Properties

- Standard alloy 3103 H22
- High performance alloy 5005 H34/J57S
- Coatings: anodised or powder coated

Environmental

Aluminium can be fully recycled and used for the production of new material.

Quality & Durability

Kingspan Facade components are manufactured from the highest quality materials to rigorous quality control standards, complying with ISO 9001:2000 standard, ensuring long-term reliability and service life.

Guaranties & Warranties

Kingspan Facades will provide external coating and product guarantees on an individual project basis. This is typically 15 years.

Handling

The pallets must be handled carefully during unloading. Upon delivery the pallets must be examined for any damage due to moisture (panels that have become wet must be dried to avoid any spots or corrosion forming).

Individual cassettes must be lifted off the pallet by two people holding all four corners and not dragged over each other. Carry the cassettes vertically. Wear gloves to avoid staining.

Storage

The Dri-Design cassettes are packed in a timber box. A separation layer is also placed between each set of cassettes.

Protect aluminium Dri-Design pallets during storage against rain, penetration of moisture and condensation. Avoid any condensation forming (e.g. when transporting cold cassettes to warmer rooms). Do not stack pallets on top of each other.

Storage exceeding six months should be avoided, as it may become difficult to remove any protective films. When stacking the cassettes nothing should be placed in-between them, as this could result in surface damage.



Project: Kingspan Insulation Factory, Somerton, Australia | Products: Dri-Design Flat, Shadow and Perforated Rainscreen Façade

Dri-Design Rainscreen Façade Installation

Dri-Design Flat, Tapered, Shadow and Perforated cassettes can be used in conjunction with QuadCore™ Karrier Panel, K-Roc™ Karrier Panel and other substructures.

Dri-Design's patented design installs at least twice as fast as most comparable systems and can be direct fix or ventilated cavity cassettes. No sealants, gaskets or butyl tape in the cassette joints means no dirty streaks or a legacy of maintenance for the building owner.



Dri-Design



Dri-Design on K15



Dri-Design on Mineral Wool



Dri-Design on RAB board

Dri-Design can also be installed on battens over a suitably designed and installed rigid air barrier

Installation

Dri-Design is over twice as fast as comparable systems thanks to the minimal components, simple fixing system and ease of handling. When combined with the QuadCore™ Karrier System, Dri-Design offers even greater time saving advantages over any other system.

The cassette design allows enormous flexibility in terms of patterns – Stack Bond or Stretcher Bond, horizontal or vertical orientation – cassettes are easily interchangeable without the need for complicated rail and bracket systems.



First cassette hooks onto the J Rail and fixed to QuadCore™ Karrier Panel



Subsequent cassettes hook into neighbour, next layer fixes into lower layer and neighbours.

Pattern Options

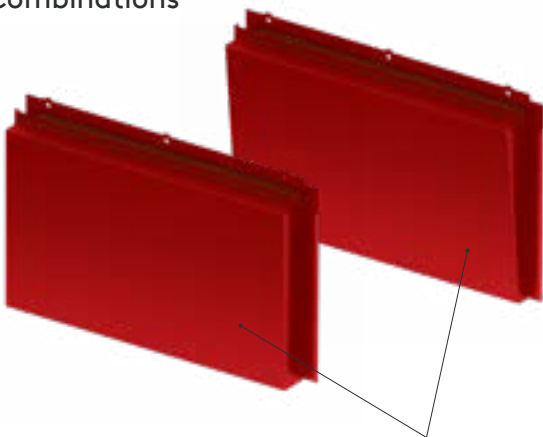


Stack.



Combined brick and stackbond.

Combinations



Increasing depth allows a 'Shadow' or 'Tapered' variation of a standard Flat cassette, which when used with the Flat cassette gives depth an texture – fixing system remains the same.



Add depth to a design by including Dri-Design Shadow and/or Tapered cassettes without complicated rail systems.

Watch the installation video <http://bit.ly/DriDesign>

Dri-Design Rainscreen Façade

Inspiration



IMC Cinema

Kilkenny, Ireland

Built on the site of a former cattle market, the new 1,400-seat multiplex cinema in Kilkenny has been designed to become an icon of the city's culture, offering the community an exciting place to come together and experience the latest films.

Product Shown

Dri-Design Shadow Rainscreen Façade

The Dri-Design Shadow cassettes, selected in a classy yet contemporary Aluminium Copper, were used to create a stepped-in effect on the façade

"The Dri-Design Shadow Façade System allowed us to deliver a high-quality finish and landmark aesthetic to the steel-framed construction in this prominent city centre location. Selecting Kingspan Facades as the supplier for the full cladding package was cost effective and simplified the process, whilst still enabling us to use a variety of materials and finishes."

Brian Dunlop, Brian Dunlop Architects

Dri-Design Rainscreen Façade Inspiration



Chinguacousy Park Ski Chalet

Brampton, Ontario, Canada

Product Shown

Dri-Design Flat Rainscreen Façade



Kingspan New Zealand Services

Product Selection Assistance

Sales representatives are available nationwide to answer queries on product options, assist with detailing, spans, colour swatches and other queries. They can also provide early stage budget estimates and co-ordinate the provision of project specifications.

Technical Assistance

Our technical team is available to provide specific advice on panel spans, product specifications, standard and bespoke detailing, panel optimisation, fire wall options, project specific acoustic solutions, panel guarantees, thermal condensation risk calculation along with general building science cladding advice.

Kingspan Technical Services can provide 'side by side' assistance with regard to project detailing, attending design meetings, providing training and undertaking site visits when required.

Area Sales Managers

Available to assist you in the appropriate selection and specification of our range of products, the Area Sales Manager can provide you with a local and responsive service.

Customer Services

The Kingspan customer services team can offer advice on lead times and minimum order quantities. The team is responsible for issuing quotes, coordinating the manufacture of your panel requirements with the production team, scheduling delivery and keeping you updated with the progress of your order.

Technical Services

Providing technical advice and support throughout the design and construction process. From the provision of project specific details through to the creation of project-specific specifications, Kingspan Technical Services can help to ensure that your building performs and complies with local building regulations.

Field Services

Free contractor training is offered on the installation of new and existing products. A site inspection service is offered throughout the construction stage and is on hand to offer advice on mechanical handling solutions.

Marketing Services

The marketing team is on hand to organise literature, samples and metal colour swatches.

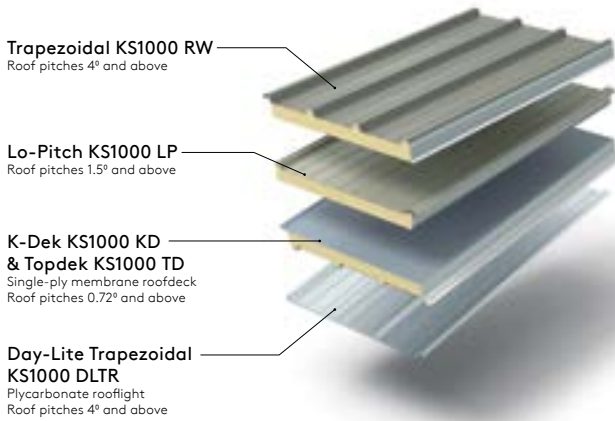


Project: Karrinyup Shopping Centre Perth, Australia

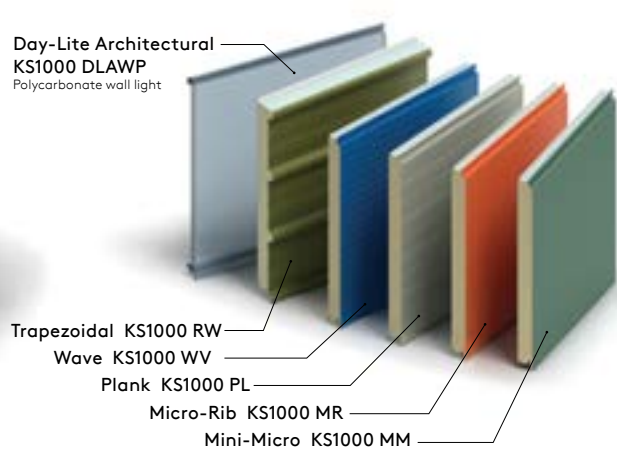
| Product: Dri-Design Flat Rainscreen Façade

Kingspan New Zealand Complete Envelope Solutions

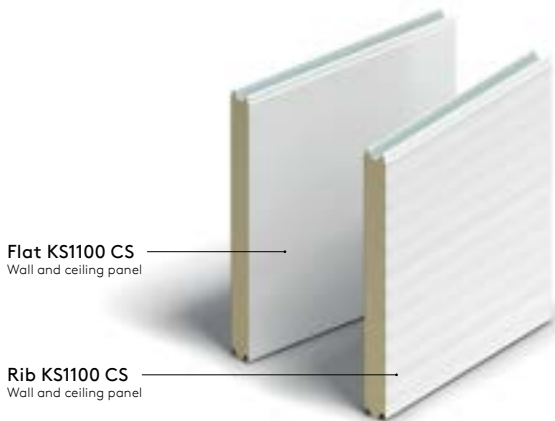
Insulated Roof Panels



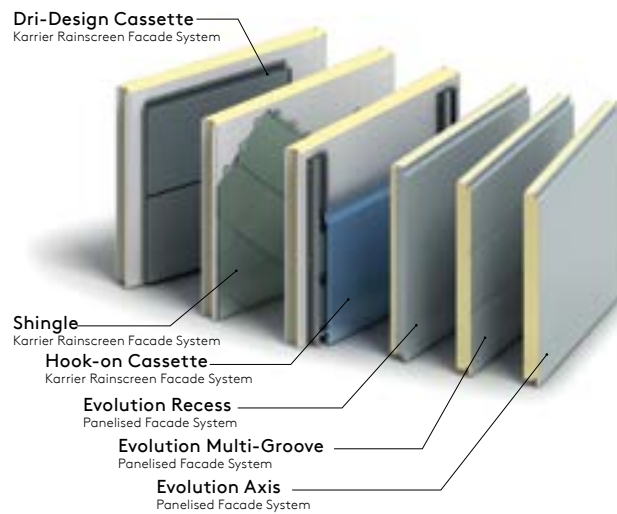
Insulated Wall Panels (horizontally or vertically laid)



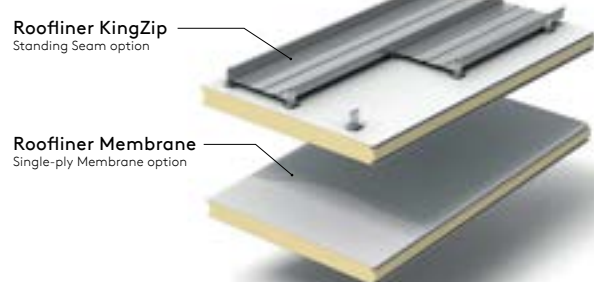
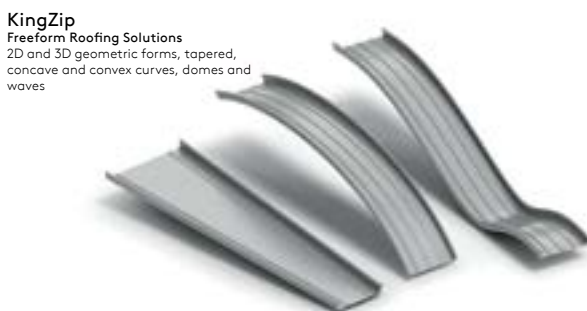
Controlled Environments



Kingspan Façade & Roof Systems



Architectural Roofing



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

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