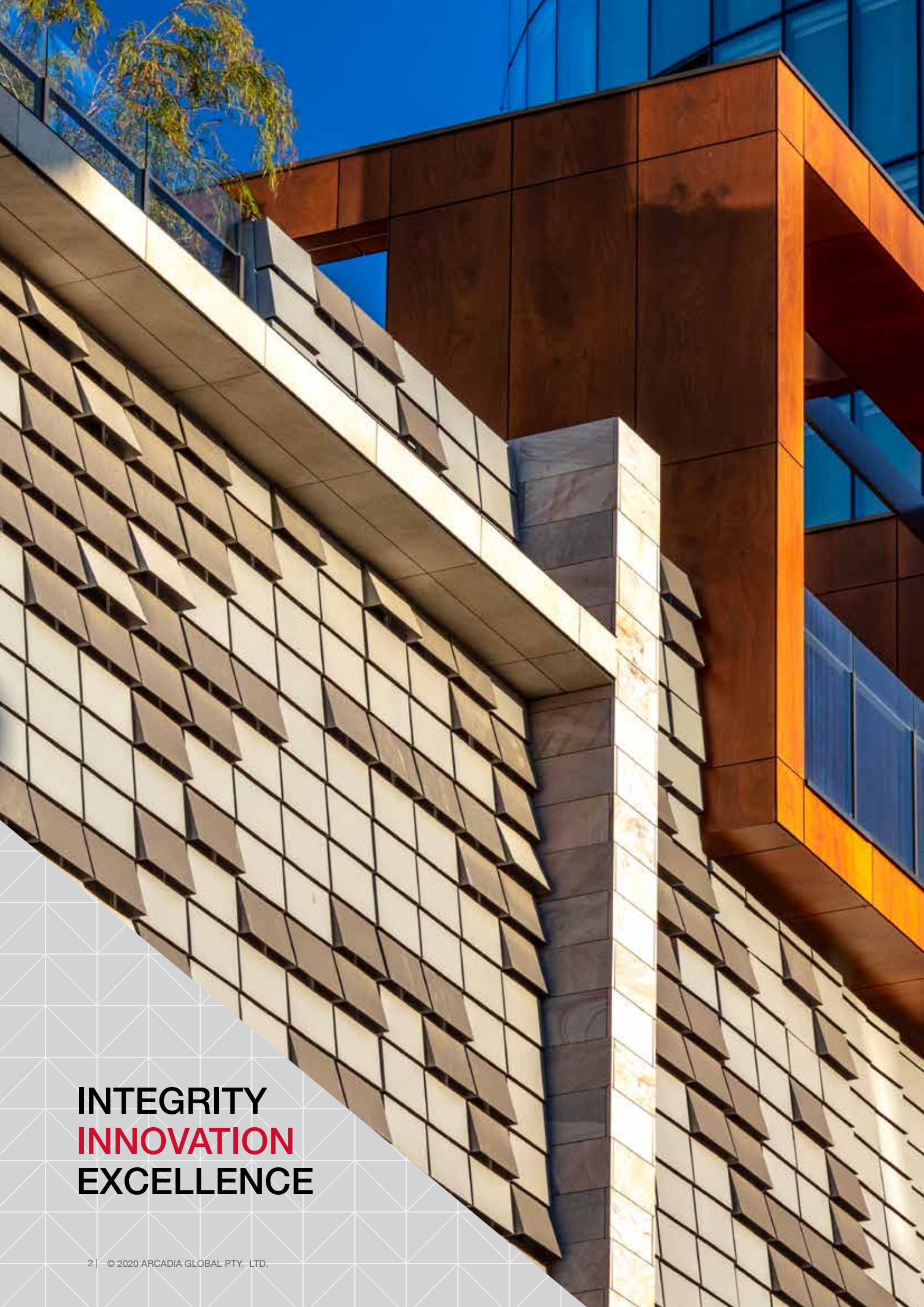




BESPOKE CAR PARK FACADES



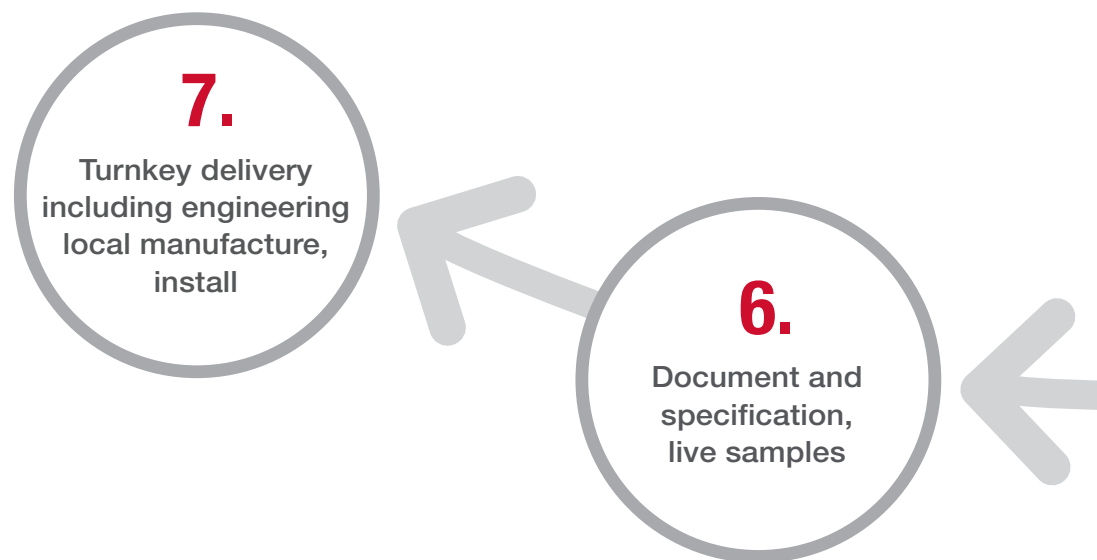
INTEGRITY
INNOVATION
EXCELLENCE

About

Arcadia is a wholly owned Australian based company subsidiary of the Arcadia Global Pty Ltd, which was founded in 1927. During the 1980's the company moved into manufacturer and supplier of building and roofing products for the construction industry.

Today, Arcadia has evolved as a leading provider of design, manufacture and installation of Facade screening, shading, bespoke facades. We are a national company with satisfied customers across Australia. We are proud to be an Australian manufacturer and provide a complete end-to-end service in house including design, engineering, manufacture, installation and service.

We **assist** you at no cost to develop your concept into a buildable, engineered and compliant design



1.

Your design concept

2.

Collaborate and understand

3.

Bringing the vision to reality through engineering, design smarts

4.

Materials and finishes selection and due diligence

5.

3D modelling and design detailing

Key considerations for crash rails and ventilation, structural AS 1170



OUR VISION

To be the preferred Australian partner for design and supply of Natural Ventilation, Louvre and Sun Shading solutions.

OUR MISSION

To create comfortable and safe environments for people to live and work in.

OUR VALUE

- ▶ **Integrity**
Our word is our bond
- ▶ **Innovation**
Creating unique solutions for every new assignment
- ▶ **Excellence**
Exceeding the expectation for every challenge

THE ARCADIA WAY

There is a difference in working with Arcadia - we believe project success comes from being “good people to work with”. We can be relied upon to deliver quality and value to every aspect of your project from concept to completion. We pride ourselves on the following;

Australian Made

- ▶ Australian owned business
- ▶ Tested and engineered to Australian standards
- ▶ Competitively priced and locally made
- ▶ All our products are locally made in our own factories

Dynamic

- ▶ We retain expertise and knowledge with a loyal team
- ▶ Broad range of project experience across industries and geographies
- ▶ Our people are passionate and determined to see projects through
- ▶ Our entrepreneurial spirit means we make decisions fast

Reliable

- ▶ 50 years+ industry experience
- ▶ Track record of delivering on what we promise
- ▶ Flexible in-house production facility
- ▶ Speed of delivery

Quality Engineering

- ▶ Design focused on speed of on-site installation
- ▶ Collaborate with clients to provide aesthetically driven design solutions
- ▶ Proven product range and satisfied customers
- ▶ Diverse product range of over 12 product categories with over 125 product variations

Safety & Accreditations

- ▶ Arcadia has a Work Health Safety management system consistent with AS 4801 OHS Safety Management Systems
- ▶ The Company conforms to the WHS Act (WA) 1984, the Fair Work Act 2010 and Fair Work Regulation 2011
- ▶ The Company provides a site Safety Management Plan for all projects to conform to the applicable legislation



Overview

Carparks are a growing infrastructure requirement as the globe seeks to reduce carbon emissions and use rail and public transport for travel from outlying communities into City Centres for work and play.

Arcadia has been collaborating with architects, engineers and designers to bring a simple concrete structure to life by designing and delivering feature, depth, texture and color to carpark Facades across Australia.

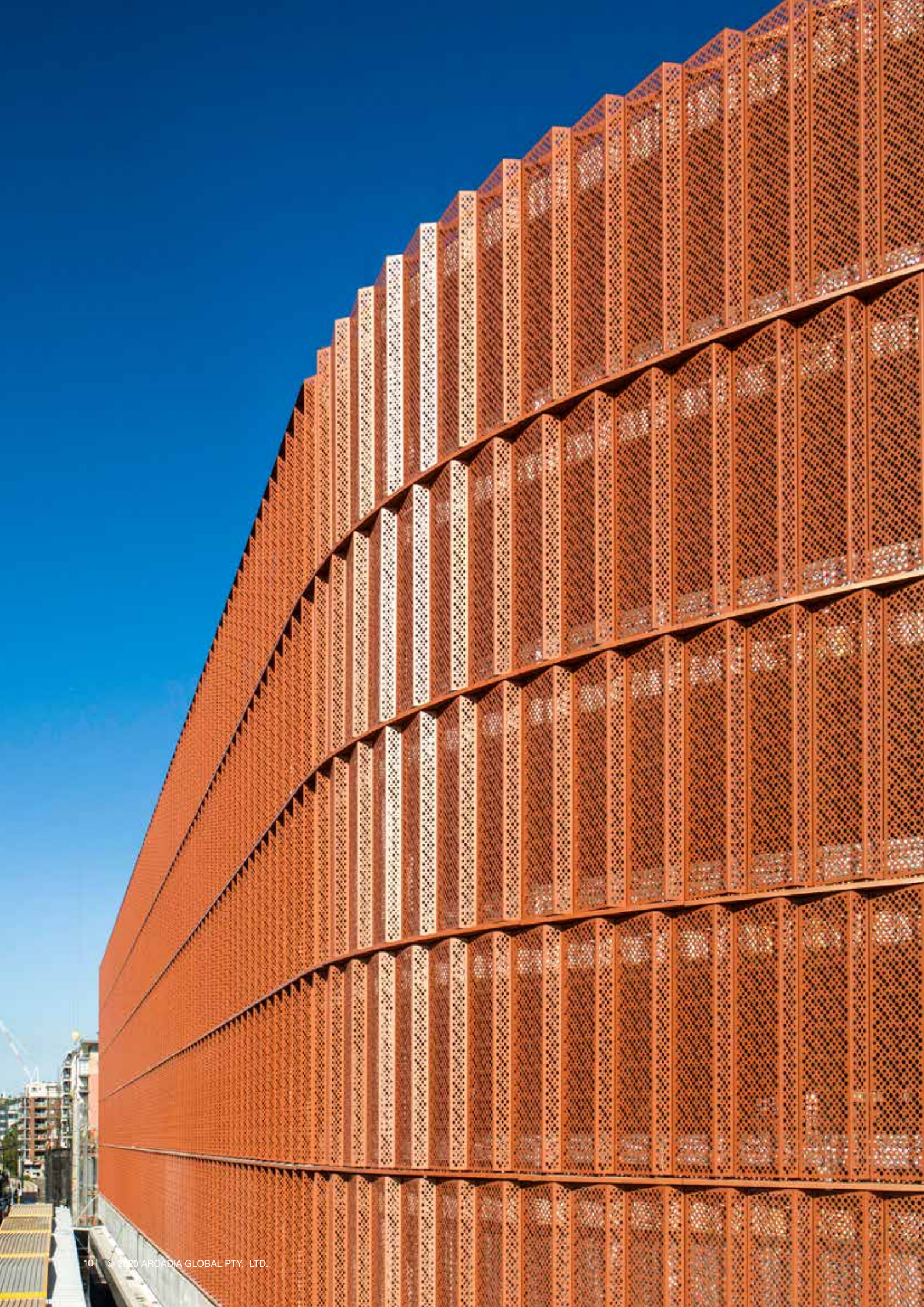
Although the finished product always looks amazing, the depth and detail of knowledge required in the design phase is often under estimated and even misunderstood. Having a partner who can assist through this phase is so important.

Expertise can be found in-house at Arcadia and our team is available to cover the following standards and engineering elements;

- ▶ Balustrade loading
- ▶ Car impact loading
- ▶ Floor loading and movement
- ▶ Wind loadings
- ▶ Aero-acoustics
- ▶ Facade fire and flammability
- ▶ Ventilation requirements

A successful project must consider these areas early in the design phase to ensure seamless delivery which exceeds the expectations of design and budget requirements. Our National Team can be contacted on 1300 458 458





MUSE®

Perforated Facades

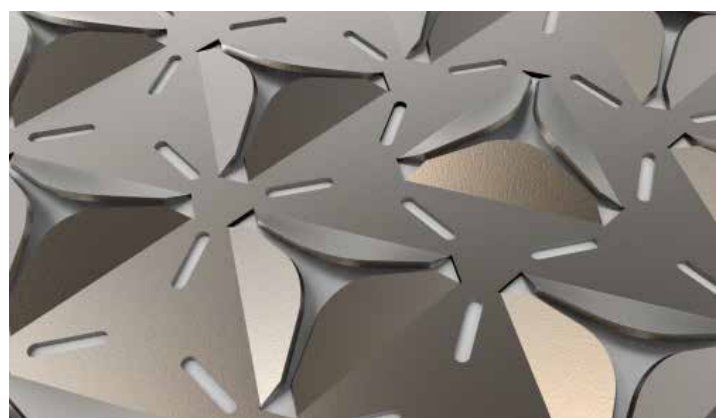
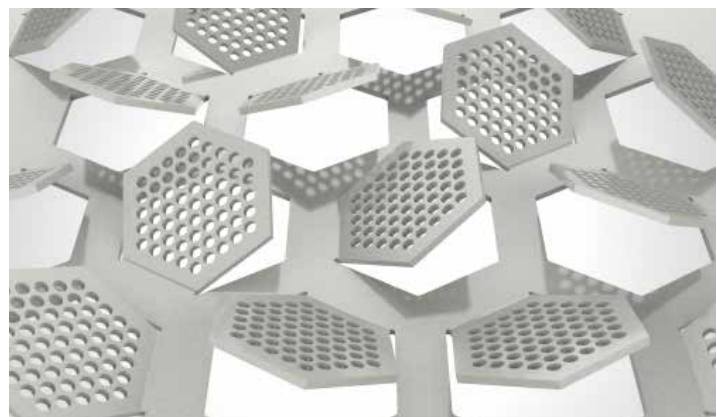
Arcadia's Muse® Perforated Facade System is a fully engineered solution commonly selected by designers because of its simplicity yet ability to create decorative imaging, feature and 3 dimensional effects whilst is a unique cassetted system that is compatible with any substrate of the company's two principal materials: expanded metal, or perforated metal.

The Arcadia Muse® Perforated Facade System is ideal for integrating with a car parking application, and is the only system of its kind on the market that is capable of integration with a crash rail system. The unique advantage is the reduced penetration into the slab system which is often a challenge for engineers and builders when designing car parks.

Arcadia Muse® Perforated Facade System is non-combustible and Fire tested to AS 1530 as well as tested to meet the structural requirements of AS 1170. The permeable surface allows for optimum ventilation and airflow, safety, and build-ability, balancing high functionality with an outstanding aesthetic outcome. Our system is highly customisable and can be adjusted to meet any specific requirements which allows designers to tailor the facade.

This has led to the integration within the facade of artwork and Indigenous history whilst simultaneously reducing light pollution and contribution.

The above features allow designers to deliver results beyond the scope of a standard multi-storey car park.





BENEFITS

- ▶ Elliptical, Bullet, Square and Rectangle profile options
- ▶ Fixing supports to mount horizontally and vertically
- ▶ Operable option with manual and mechanical control
- ▶ Natural ventilation and ambient lighting control
- ▶ Australian designed and manufactured by Arcadia

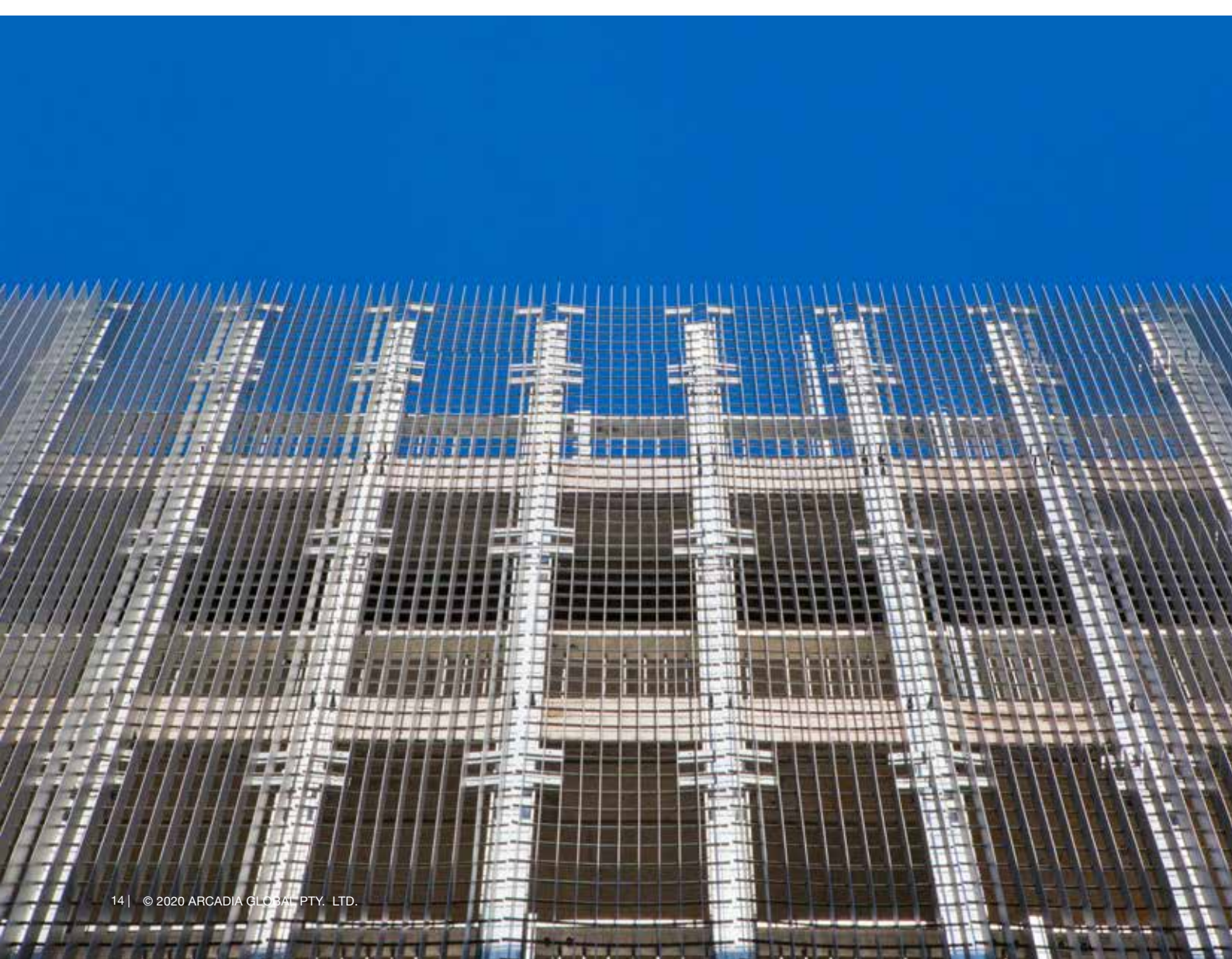
ZEST®

Batten Blade Facades

The Arcadia Zest® Batten Blade System has been integrated within many car park facades across Australia. Clean lines, variable angle and pitch configurations deliver functional and flexible design, allowing designers the ability to create striking and standout looks to suit the surrounding environments.

Zest® batten blades are an extruded aluminium product able to be finished in either powdercoat or anodised finish making this ideal for corrosive environments required to withstand harsh environments. Having excellent spanning capacities the Zest® system is often integrated to act as balustrading system which makes this a cost effective and economical solution.





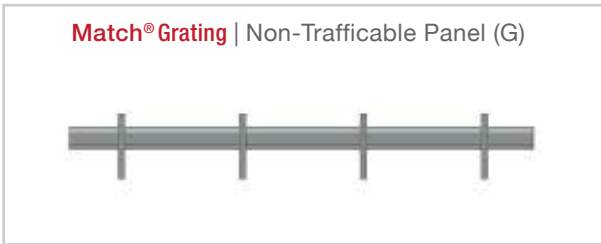
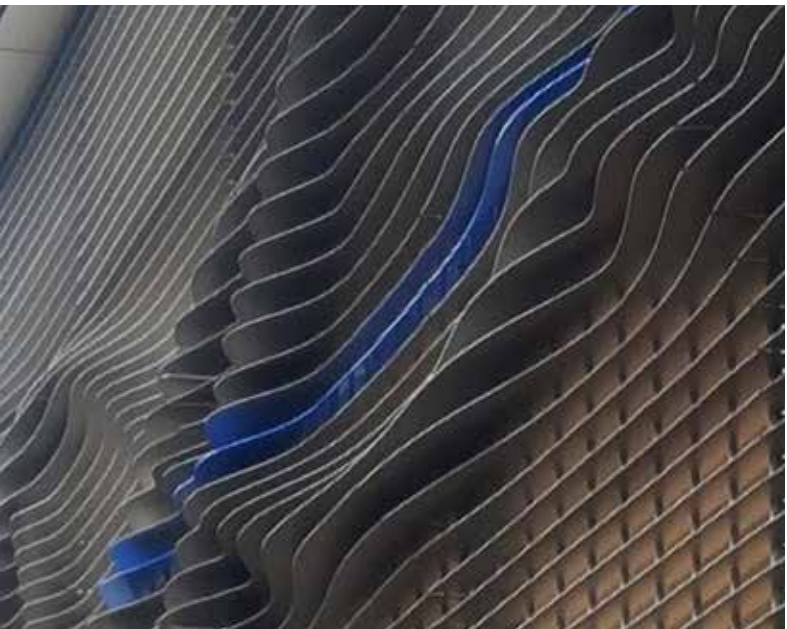


MATCH[®]

Grating Facades

Arcadia Match[®] Grating System delivers a unique look and feel and is available in a range of profile angles and sizes. This solution provides very high levels of free area comparatively and has been widely used on multistorey cararks across Australia. This system uses extruded aluminum material which is swaged together making it tough and able to withstand the elements. A range of powdercoat and anodise finishes are available.

We now have the unique ability to integrate 3 Dimensional illusion based on variation of the blades as shown in diagram 1 below. This can be coupled up as artwork or imagery to enhance public appeal for your project. Based on the orientation of the system it is able to vary and change the amount of privacy or natural light.





SPUR®

Louvre Facades

The Arcadia Spur® Fixed Louvre System is easily integrated by engineers and building designers into commercial and industrial projects. A successful application of Spur® Fixed Louvres can provide a building with natural ventilation, air intake, air exhaust, privacy screening and facade aesthetics whilst offering a high level of rain defence. A suitable design solution is to incorporate a louvre system that balances a level of ventilation, pressure drop and rain defence.

Arcadia offers a comprehensive range of base materials and finishes to enable the integration of the Spur® Fixed Louvre system in any application. All louvre types can be manufactured to specific designs to meet wind load requirements in all regions. Spur® Fixed Louvre profiles are arranged in three categorised louvre types: Single Stage, Two Stage and Three Stage with various sizing across each category. With Arcadia's diverse selection of louvre profiles and fixings, the possibilities are infinite with the Spur® Fixed Louvre System.



Crash Barrier Rails

Whilst parking a lot of vehicles into a car park is a great idea, often we fail to sufficiently consider the dangers and how to prevent accidents.

Arcadia have taken a proactive approach to ensure we offer everything from the outside to the inside when designing car parks. Our offering includes complete range of internal handrails and crash rails. These systems are used for pedestrians, and vehicles. AS 1170.1 and AS/NZS 2890.1 are both relevant in such circumstances, and require barriers or fences wherever there are drops of 600mm or more adjacent to stationary or moving vehicles and wherever pedestrians are at risk of falling from heights of 1m or more. The standards also dictate the need for anti-climb barriers wherever the car park is at a height of 4m or

greater. Outside of the Standards, safety barriers between pedestrian and vehicle areas are able to clearly define users' respective zones

A well designed system offers pedestrian anti-fall protection wherever there is a height difference, as well as prevent cars from intentionally or accidentally driving off of the edge of the car park floor plate. Furthermore, crash rail systems may be mounted onto that enclosure, distributing the impact in the event of a collision to prevent a rupture or other damage.





ARCADIA PROVIDES HEAVY DUTY,
HIGH CONTAINMENT CAR PARK
CRASH BARRIER SYSTEMS



THE STORE

ARCHITECT Bates Smart

BUILDER Bloc

PRODUCTS Muse®



This monumental car park facade in the centre of Newcastle NSW spans over 6 floors high and incorporates over 3500m² of facade. Arcadia worked closely with the architecture and construction team to manage and design the bespoke facade

system which when placed side by side these stylised mesh panels create an elegant concertina effect. The powder coat colour featured in this project is Interpon Ordos Sable.



SWAN CARE

ARCHITECT Iredale Pederson Hook

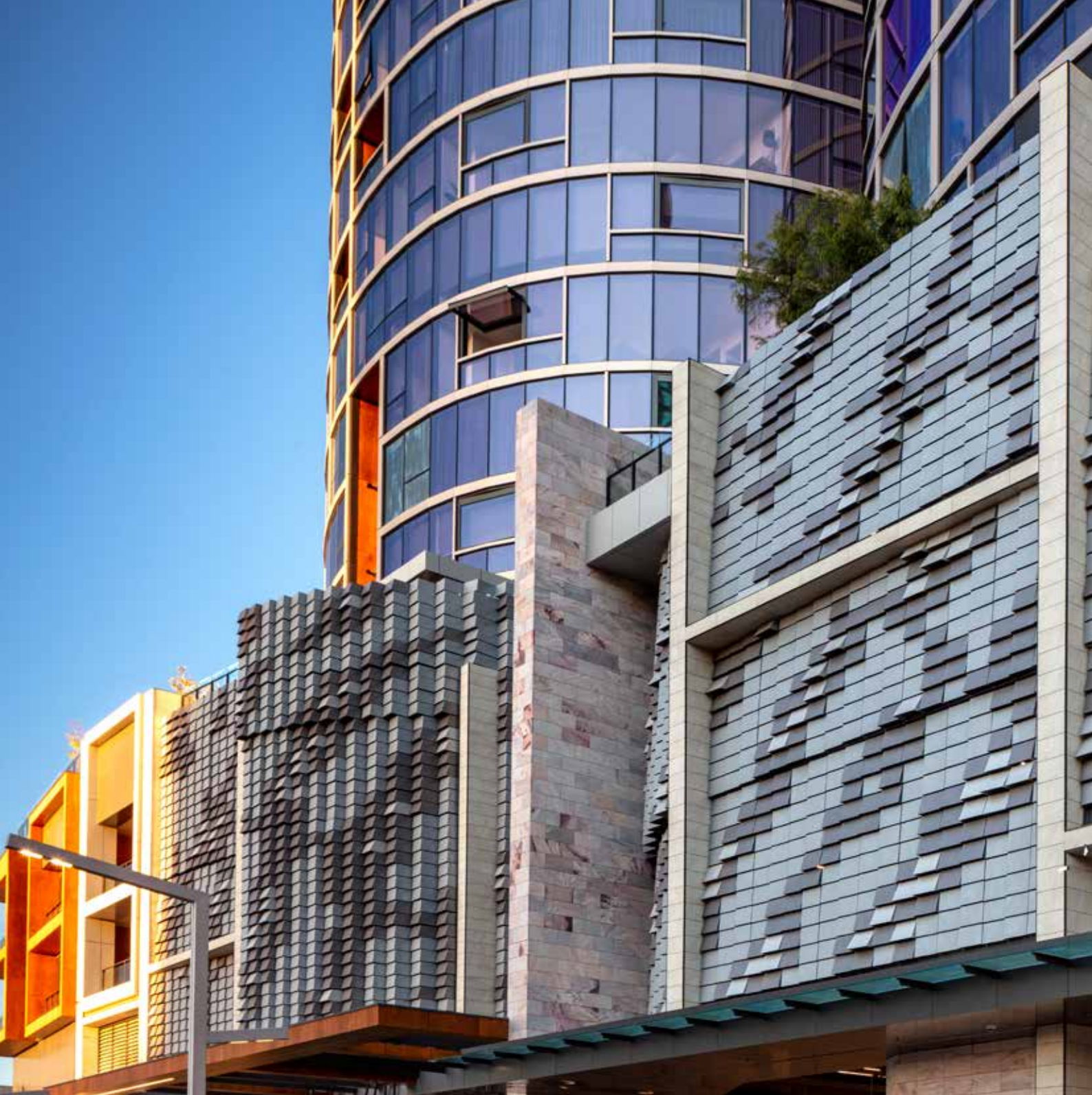
BUILDER Adco Construction

PRODUCTS Muse® Expanded Mesh



With some challenging engineering and loading requirements, Arcadia was able to provide a simple but effective car park facade using a mesh system which is an ideal structure for climbing plants - the perfect combination of nature and steel.

The design has a curved face with 3 bands of powder coat colours that compliment its surroundings. This project uses an integrated crash barrier system.



RITZ CARLTON

ARCHITECT Cottee Parker

BUILDER Probuild

PRODUCTS Custom Cobble Facade



Working with Cottee Parker Architects and Probuild, Arcadia was engaged for the complete design, engineering, manufacture and installation of the complex and custom facade at the iconic Ritz Carlton project. This custom cobble effect was an important piece of the buildings architecture and required over 7500 individual panels with a range of differing powdercoat colours, angles and depths. Whilst

looking striking, the facade element was required to provide the necessary natural ventilation for the car park beyond the facade. In addition Arcadia carried out the design manufacture and installation of Solar Shading, Perforated Facade Elements and Mechanical and Weatherproof Louvre Systems across two buildings, ranging from ground floor to the plantroom areas at Level 23.



**GERRINGONG
AGED CARE**

ARCHITECT Morrison Design Partnership

BUILDER Richard Crookes

PRODUCTS Match® Grating Screens



This unique pattern has been created by the effective placement of the Match® Grating System on the Gerringong Aged Care Facility car park. Arcadia provided a secondary

structural support system to support the facade with up to 4.0 metre spans. The Match® Grating System allows high airflow and creates excellent privacy.



CAPITAL SQUARE

ARCHITECT Cox Architecture

BUILDER Multiplex

PRODUCTS Zest® Elliptical Blades



Arcadia worked closely with Cox Architecture to create a louvre facade system that was used over a car park facade area and also across large areas of a mechanical plant facade. This enabled a universal look across two separate design elements

of the building. The Zest® system with a hidden glove bracket to support the blades creates clean long uninterrupted lines which look architecturally striking for a facade.



**VERDANT
STIRLING**

ARCHITECT MJA

BUILDER BGC

PRODUCTS Zest® Batten Blades



A great way for designers to add some flare to their building is the use of colours across the facade. In this case Arcadia provided vertical Zest® Batten Blades that provided car park screening whilst allowing the required airflow and ventilation requirements. In this instance different size profiles were also

used to provide contrast and depth to the facade elements. Arcadia's range of efficient profiles allows this to be done cost effectively and provide a complete facade and crash barrier system in one.

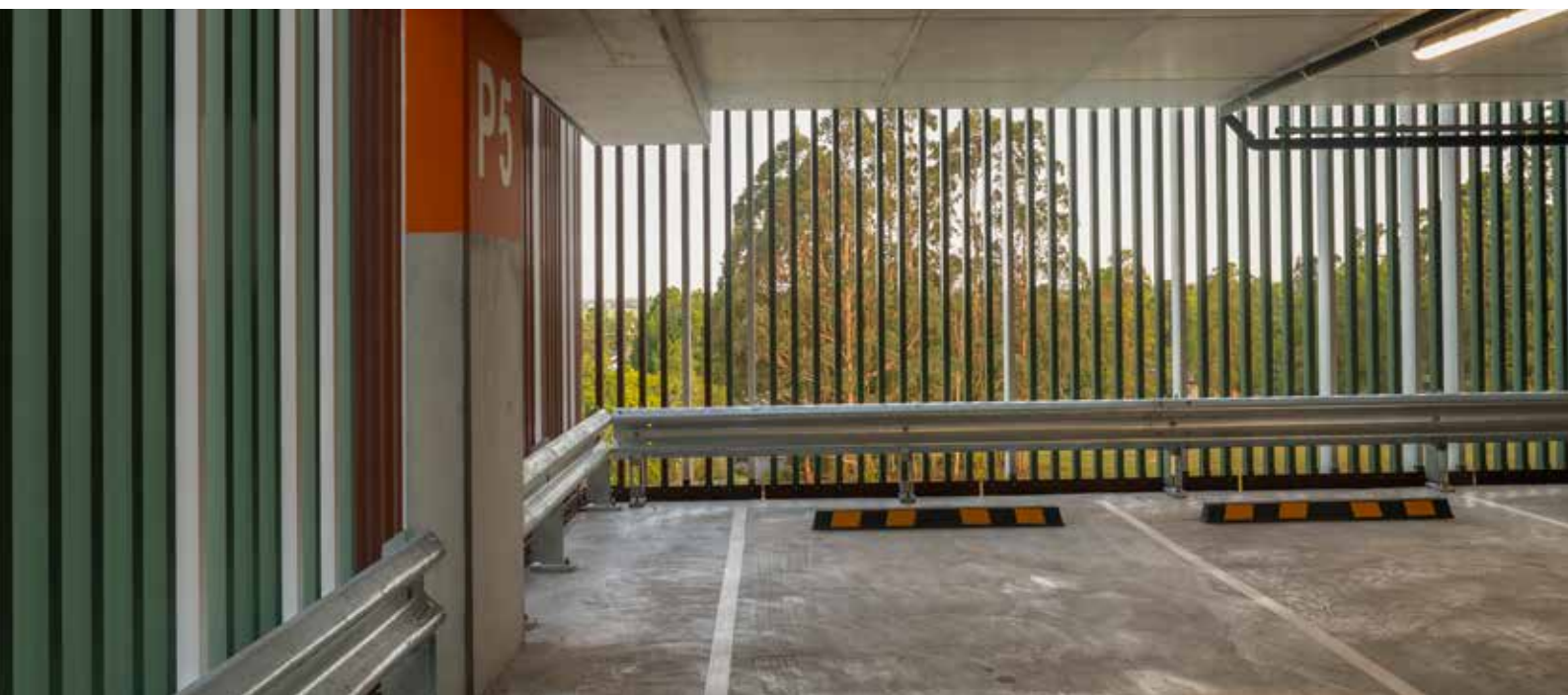


SHOALHAVEN HOSPITAL

ARCHITECT MAPP Architects

BUILDER Project Coordination

PRODUCTS Zest® Batten Blades



A custom facade solution for the Shoalhaven Hospital car park facade which includes a range of vertical batten blade profiles to create depth and texture to the large facade. In addition a range of colours from the powder coat range can be selected to create a striking look. Our system also caters for inbuilt

lighting strips into the vertical battens which compliments the facade at night. Arcadia provided a complete facade solution which included an integrated safety crash barrier rail system, balustrading and Zest® batten blades.



QEII HOSPITAL

ARCHITECT Design Inc

BUILDER Probuild Construction

PRODUCTS Spur® Fixed Louvres



Arcadia were provided with a challenging brief on the QEII Hospital car park. Achieving the brief meant that mechanical systems for airflow and ventilation would not be required which reduces cost and maintenance during the building life cycle. Our design engineers met the brief and created a custom

Spur® Louvre system to achieve the requirements of high free area whilst maintaining good levels of rain defence to avoid water within the car park.



**VENTURA
HOME GROUP**

ARCHITECT JMA

BUILDER BGC

PRODUCTS Spur® Fixed Louvres



**BROOKVALE
HEALTH CENTRE**

ARCHITECT MSJ Architects

BUILDER Adco

PRODUCTS Match® Grating Screens

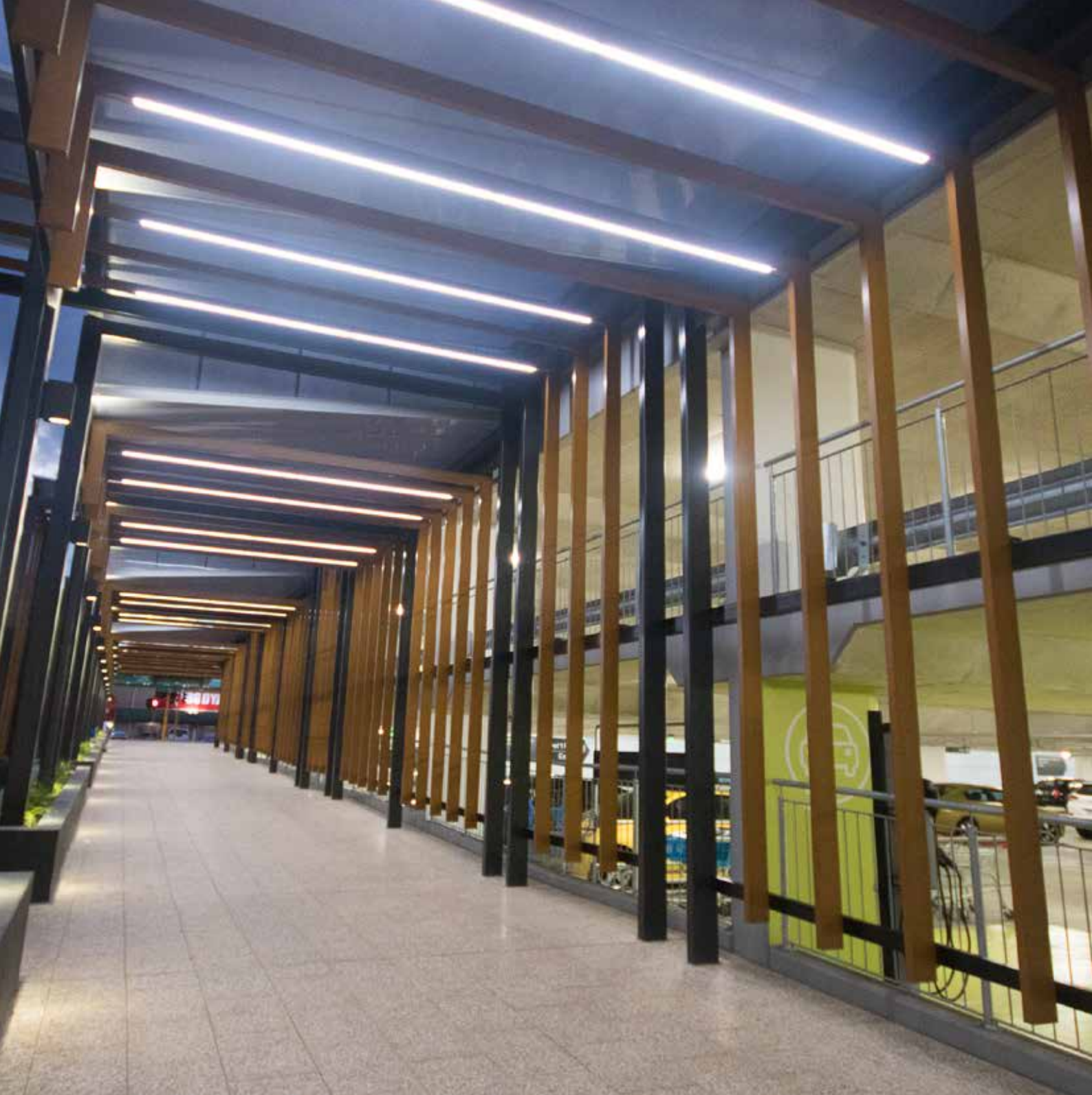


**VICINITY
SHOPPING
CENTRE**

ARCHITECT Hames Sharley

BUILDER Multiplex

PRODUCTS Muse[®] Expanded Mesh
& Zest[®] Batten Blades



Arcadia is pleased to have worked closely with Multiplex and Hames Sharley architects on the refurbishment of the Vicinity Shopping Centre which is spread over 63,000m². Arcadia provided a large range of Muse[®] expanded mesh car park screening, external and internal Zest[®] timber-look feature blades and ceiling battens, and Spur[®] mechanical plant

enclosures and louvre screens. The aluminium expanded mesh screening to the car park is powder-coated in a range of bright greens providing a feature facade component. The timber battens have integrated LED lighting and provide feature to the entries and shopping mall ceilings.

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SOLAR SHADING



LOUVRES



BESPOKE FACADES



PERFORATED FACADES



FACADE BATTENS



BALUSTRADES



FIRE & SMOKE



NATURAL VENTILATION



ACOUSTICS