

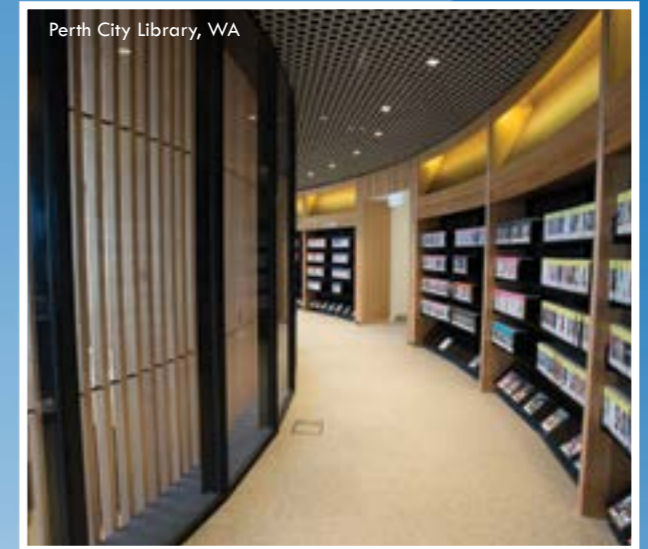
FACADES CLADDING CURTAIN WALLS

SPECIAL FEATURE

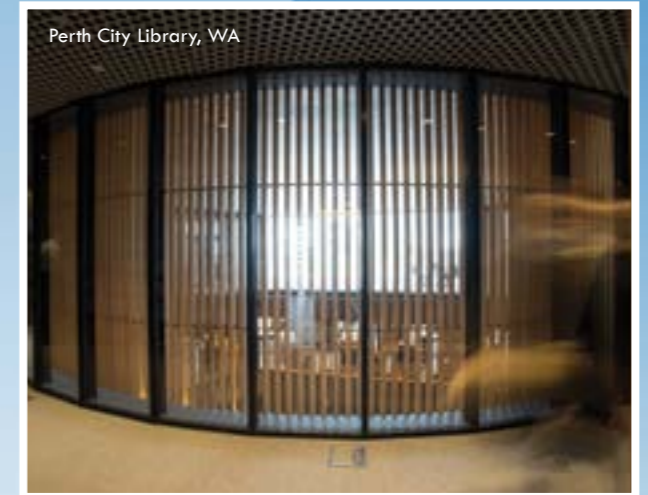
Aluminium Sheeting
Drafting Services
Fixing Systems

Precast Panels
Fire Walls
Cladding

Perth City Library, WA



Perth City Library, WA



Technical Protection Systems Pty Ltd, along with local authorised agent Fire Technologies, was proud to be the supplier of the first curved (faceted) fire rated curtain wall system in Australia, which was installed to the top floor of the internal atrium at the Perth City Library.

TPS is the Australian distributor of Forster steel profile systems, and is the authorised Australian processing plant for Pilkington Pyrostop™ and Pilkington Pyrodur™ fire rated glass, all of which are distributed throughout Australia and New Zealand via a network of companies that are experts in their field.

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LOCKER GROUP – ICON APARTMENTS

Only the best of the best could be relied upon to produce the expanded metal façade panels that give The Icon St Kilda its unique character. Locker Group Pty Ltd, industry leaders in the manufacture of expanded and perforated metal products, demonstrated its exceptional capabilities to deliver perfect panels within a challenging time frame.

A bold, avant-garde apartment building, The Icon features a dazzling multi-coloured façade across 17 levels. Working closely with the architect and builder, Locker Group manufactured to specification the aluminium façade panels using expanded metal product Sun 919A. Locker Group also manufactured and supplied products for the building's soffits, eaves, ceilings and sliding doors.

Manufacturing the expanded metal façade panels was a complex undertaking. The unique architectural design demanded every panel be a precise replica of the master sample. "All of the profiles of the panels needed to line up exactly vertically and horizontally – all the waves needed to line up," explains Ian Dunstan, Southern Regional Manager at Locker Group. "Every panel needed to be exactly the same."

Equally challenging was producing the panels to showcase the 40 different colour hues as designed by Melbourne artist Matthew Johnston. "For the powder-coating, the panels had to be made without any scratches, flaws or blemishes," says Ian.

Not only did Locker Group successfully deliver flawless panels, they achieved their manufacture and supply within an exceptionally tight time frame.

"There was an extremely short lead time due to the nature of the project," Ian explains. Managing the challenging time frame required a combination of technical expertise and a collaborative approach to installation. Joe Berkelmans, Architectural/Commercial Representative at Locker Group, describes the first step as "having the master sample made and ticked off."

Once the panels were able to be perfectly replicated, Locker Group maintained, as Ian describes, "absolute close contact with the installation company and worked closely with the engineer, who was able to negotiate the quickest possible outcome to keep installing them."

For over 55 years, Locker Group has continuously expanded through acquisition and amalgamation to become Australia's leading manufacturer of high quality metal products. Working out of several manufacturing facilities and branch offices across Australia, New Zealand and Asia, Locker Group supplies the architectural and construction industries with expanded and perforated metal panels, handrails, screening and grating, wire mesh curtains, stainless steel mesh products, woven wire products, mesh fittings and conveyor belts. Suited to both industrial and architectural applications, Locker Group's products are commonly utilised in the construction of façades, balustrades and screenings as well as interior decoration.

"The key to our success is we can design, manufacture and install in some projects," explains Ian. "We design for cost-efficiency and install-efficiency."

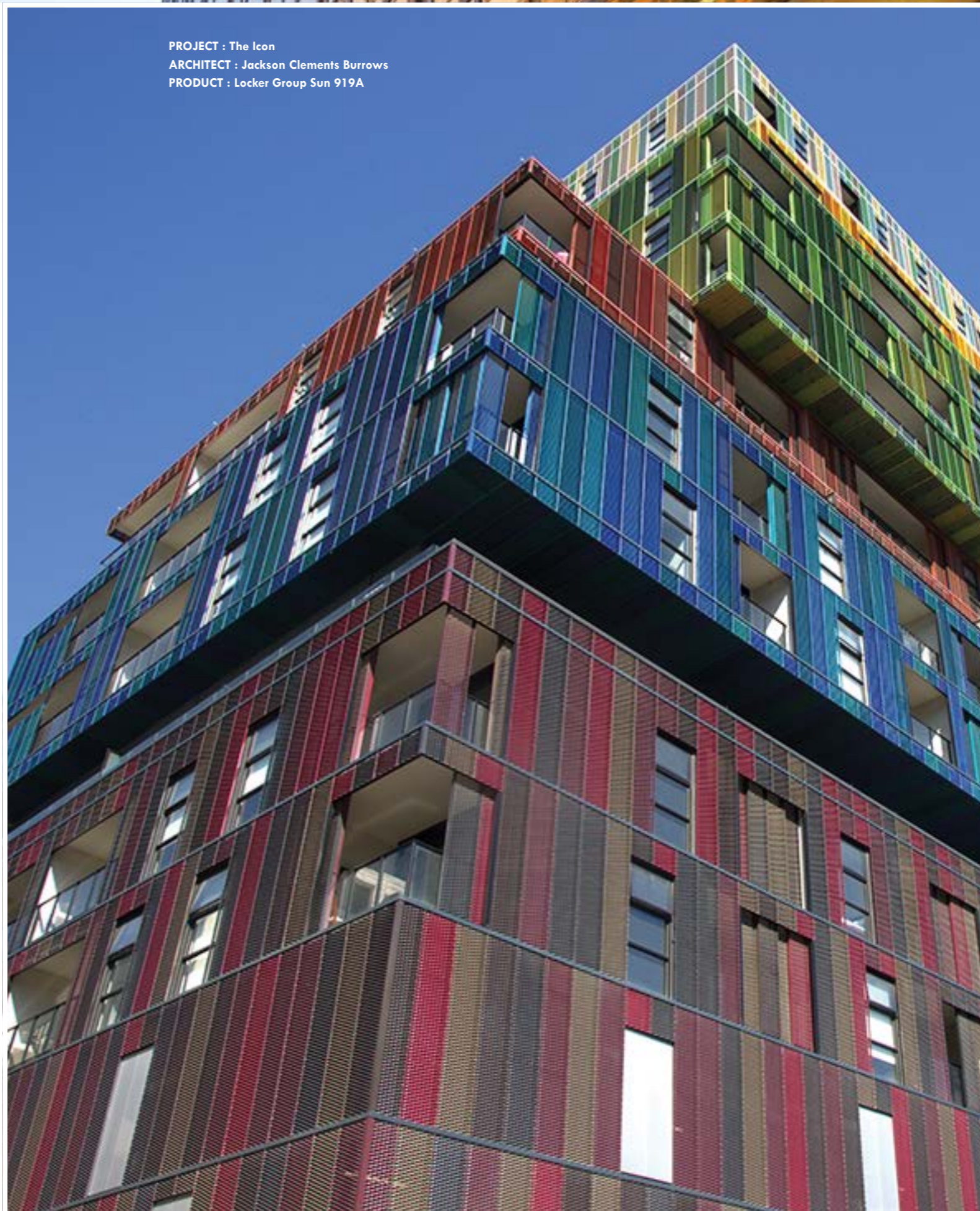
Locker Group's market reaches beyond the architectural to the engineering and infrastructure sectors where its extensive range of industrial flooring products and systems aid in the provision of safer workplaces. Developed by in-house design teams, Locker Group's industrial flooring products cater for a diversity of situations and structures including walkways, platforms and stairways. Workplaces advantaging from Locker Group's industrial flooring solutions include mining and gas, quarries, food processing, water treatment facilities and theatres.

A recent focus for Locker Group has been on creating solar shading systems. Designed to increase energy efficiency, Locker Group's range of screening media reduces the impact of solar heat gain which significantly lowers the initial and ongoing costs of HVAC. Used extensively throughout the resource sector, Locker Group's new range of poly modular screening systems have recently been launched into the mining market.

Currently, Locker Group is involved with a number of large-scale projects including Riverside Quay for Mirvac, Warragul Aquatic Centre and Parkville Freeway Apartments.

For more information contact Locker Group, 2 Cojo Place, Dandenong VIC 3175, phone 1800 635 947, fax 03 8791 1099, email sales.vic@locker.com.au, website www.locker.com.au

PROJECT : The Icon
ARCHITECT : Jackson Clements Burrows
PRODUCT : Locker Group Sun 919A

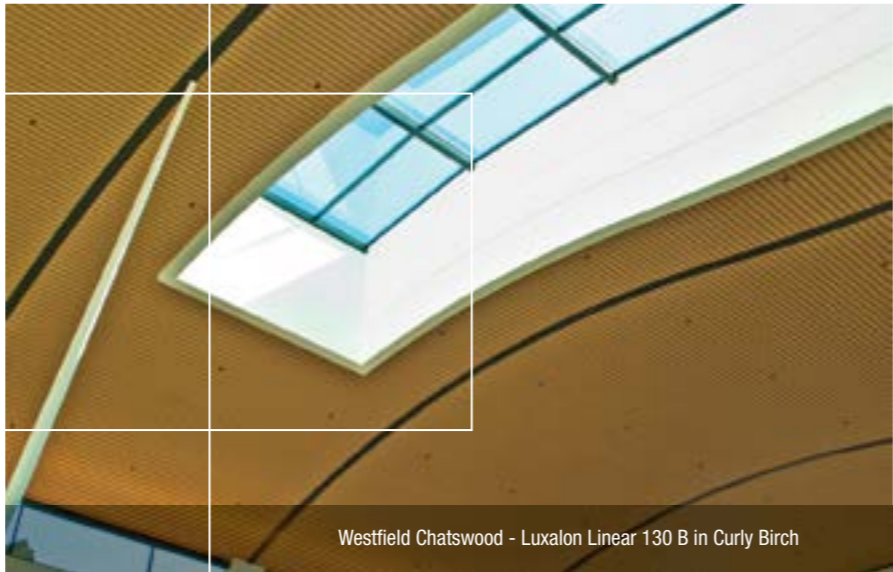




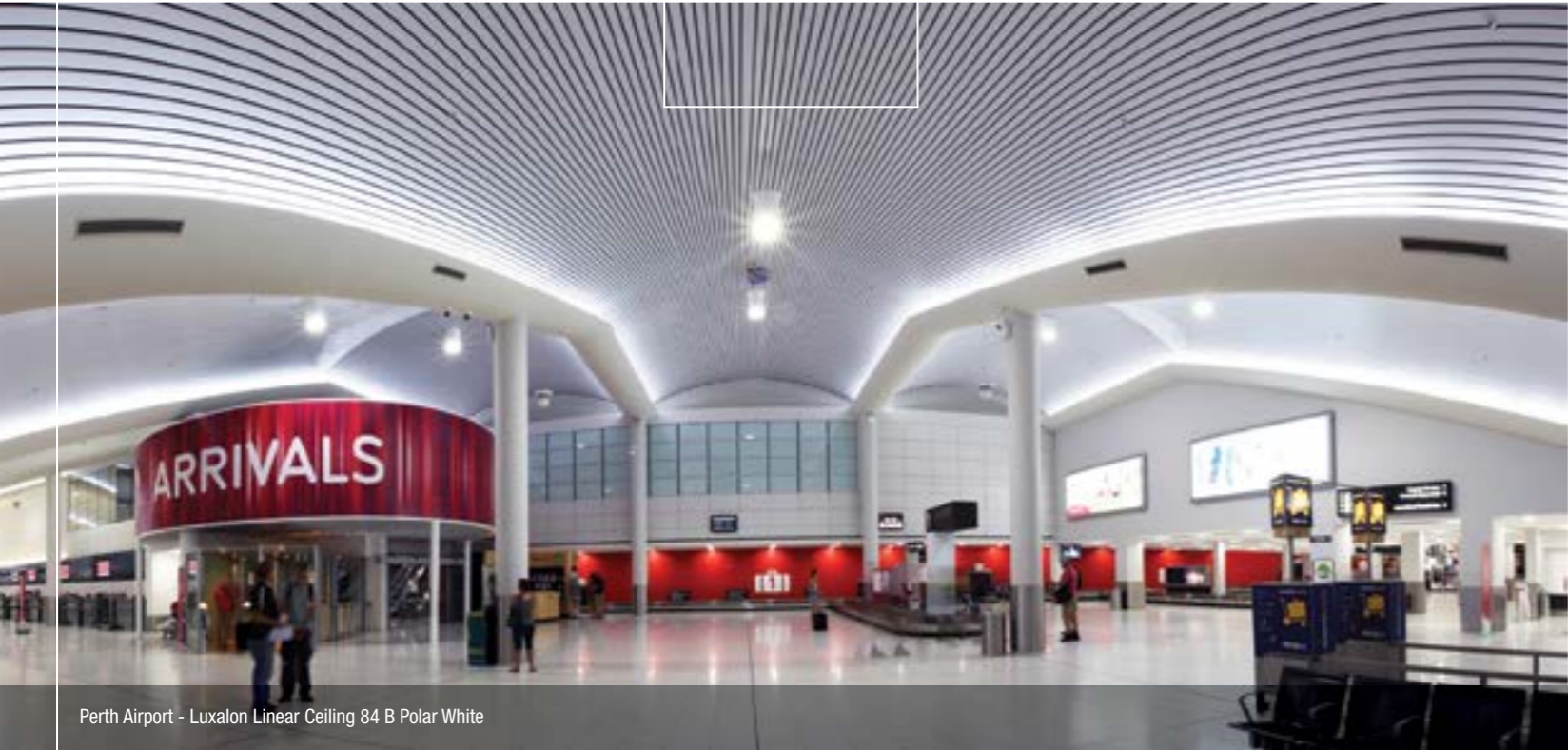
Westfield Chatswood - Luxalon Linear V100/V200 Sliding Screen in Monument



Harold Park Mirvac - Luxalon Multifacade Panel 200 F in Grey Pearl



Westfield Chatswood - Luxalon Linear 130 B in Curly Birch



Perth Airport - Luxalon Linear Ceiling 84 B Polar White

INNOVATION FROM HUNTER DOUGLAS ARCHITECTURAL PRODUCTS

Innovative solutions from Hunter Douglas Architectural Products Australia have been leveraged to enhance a range of groundbreaking projects across the country.

Perth Airport's Qantas Terminal 4, Westfield Chatswood (NSW) and Mirvac's new Harold Park residential redevelopment (NSW) have all harnessed solutions from Hunter Douglas Architectural Products to achieve leading edge outcomes, Wolfgang Hemmer, Hunter Douglas Commercial General Manager - Australia & New Zealand, confirmed.

"The designing architect of the refurbishment of Qantas Terminal 4 at Perth Airport specified the Luxalon 84B ceiling solution in Polar White to follow the curved contour of the development's substructure. The ability to curve and contour Luxalon linear ceilings has made the range a firm favourite with architects and designers," said Wolfgang.

For the Westfield Chatswood extension, the company supplied large quantities of its Luxalon Linear Ceiling 130B in a woodgrain finish, 'Curly Birch', with curved carrier rails, and Luxalon V100 and V200 in Monument, curved to meet six different radii.

Meanwhile, for the Mirvac Harold Park redevelopment, in Glebe, set to be "a vibrant residential precinct in Sydney's inner west," Hunter

Douglas used its single skin façade system to provide a Luxalon cladding solution, with MPF200 (Multipanel) profile. MPF 200, 300 and 400 is a system with a grooved extruded façade beam, fixing brackets and cladding profiles of up to 6.5m.

The concept of 'innovation through design' was a core philosophy driving Hunter Douglas' strong global profile in architectural ceilings, façade cladding and sun control profiles, Wolfgang said. "We consistently embrace new methods, materials and designs, and this strength, coupled with over 50 years experience in Australia, helps Hunter Douglas tackle some of the country's unique environmental and architectural challenges."

"Working in partnership with the building and design community, Hunter Douglas is helping breathe new life into some of the most high profile and exciting buildings in the country. And as a worldwide leader with operations in over 80 countries, we can provide the resources to manage projects of the grandest scale."

"Our profiles are made in Sydney from lightweight aluminum or steel, and protected by our own HD Color-Cote coating process. These provide effective acoustic performance, and all façade profiles have undergone testing to meet Australian standards for combustibility."





FAIRVIEW – PARKROYAL PARRAMATTA

Façade compliancy within the architecture and construction industry has certainly been a contentious subject over the past year and a half.

The 2014 Lacrosse fire highlighted not only the limitations of traditional aluminium composite panel, but also influenced comprehensive audits across each state which raised more questions than answers in respect to external cladding of commercial, multi-residential and residential buildings and National Construction Code conformance.

Throughout this, the Victorian Building Authority's extensive investigation into the Lacrosse incident deemed that the original cladding used was not fit for purpose and as such, all damaged panel was required to be removed and replaced with a compliant solution.

After a comprehensive vetting and approval process involving Melbourne City Council, the Victorian Building Authority, the Metropolitan Fire Board, independent fire engineers, a building surveyor, and the strata community management, that compliant solution was determined to be Vitracore G2.

Manufactured by Fairview; Vitracore G2 is deemed non-combustible when tested to AS1530.1 as per the requirements set out by the BCA. Visually, Vitracore G2 is the same as traditional composite panel; but what makes it different is the technology of the core, which is constructed from a 100% aluminium structure rather than combustible material.

Vitracore G2 has quickly become the go-to product for many installers, builders and architects within the industry given that the use of DTS, BCA compliant non-combustible aluminium composite panels, much like G2, remove the concerns regarding façade compliancy and fire risk. The product also provides substantial cost savings for builders and developers, due to its ability to be used as 'part of the external wall', which eliminates the need for an additional non-combustible wall lining, unlike traditional Fire Resistant (commonly known as FR or PLUS) aluminium composite panel which requires the non-combustible wall lining, so that it is considered as an 'attachment' for compliance.

However, Lacrosse Towers is just one of many non-compliant projects across Australia where cladding

was required to be removed to bring the project into compliance. Fairview recently supplied Vitracore G2 for Monash House Private Hospital in Victoria, when the Monash Council and Building Surveyor identified that the original cladding was ACP, and as such was required to be replaced immediately with a non-combustible, compliant solution.

Additionally, Vitracore G2 is increasingly being sought after for new projects across Northern Territory, Queensland, New South Wales, Australian Capital Territory and Victoria. The newly completed \$25 million extension to Parkroyal Parramatta features over 3,000m² of Vitracore G2.

Designed by award-winning Architectus and constructed by Infinity; the Parkroyal extension project involved the construction of a new 7-storey tower with a Club Lounge, as well as 40 Club Rooms and 50 Premier Rooms that offer views of the Parramatta skyline; rendering the hotel the largest in Parramatta which is a timely response to growing business demands in the city.

The team at Fairview worked collaboratively with Infinity to not only ensure that a compliant, aesthetically pleasing product that was reflective of Parkroyal's professional corporate image was delivered, but assisted in maintaining low levels of wastage; Infinity providing Fairview with panel sizes which the company then optimised for the façade installer to obtain the best possible sheet usage.

Fairview's motivation regarding façade compliancy extends beyond just providing non-combustible solutions. The company has continued to address the issue of combustible façades through an extensive collaboration with industry experts and governing bodies to assist better understanding and help dispel the myths within the market. The company has since joined forces with Mecca and Dulux Acratex to deliver a series of Formal CPD Presentations featuring two of the country's leading authorities on the issue; Dr Jonathan Barnett and Benjamin Hughes-Brown.

For more information contact Fairview, regarding seminars or to obtain the comprehensive test reports and assessments for both Vitracore G2 and the complementary Vitradual solid aluminium product, phone 1800 007 175, email helpdesk@fv.com.au, website www.fv.com.au

Composite cladding that towers over the rest

Ideal for ground floor entrances through to penthouse balcony and pool deck soffits, Urbanline's **Euro Seleкта Clad** meets all the criteria for high-rise apartments. There's no better choice for a timber look with no maintenance, installation ease, good fixing spans and appropriate fire rating.

Euro Seleкта Clad

The Highgate – Highgate Hill, Queensland

Urbanline's **Euro Seleкта Clad** is a unique, pre-finished composite cladding façade with a beautiful timber-grain-embossed surface. Designed for stability and longevity, **Euro Seleкта Clad** is eco-friendly, maintenance free and incredibly easy to install.

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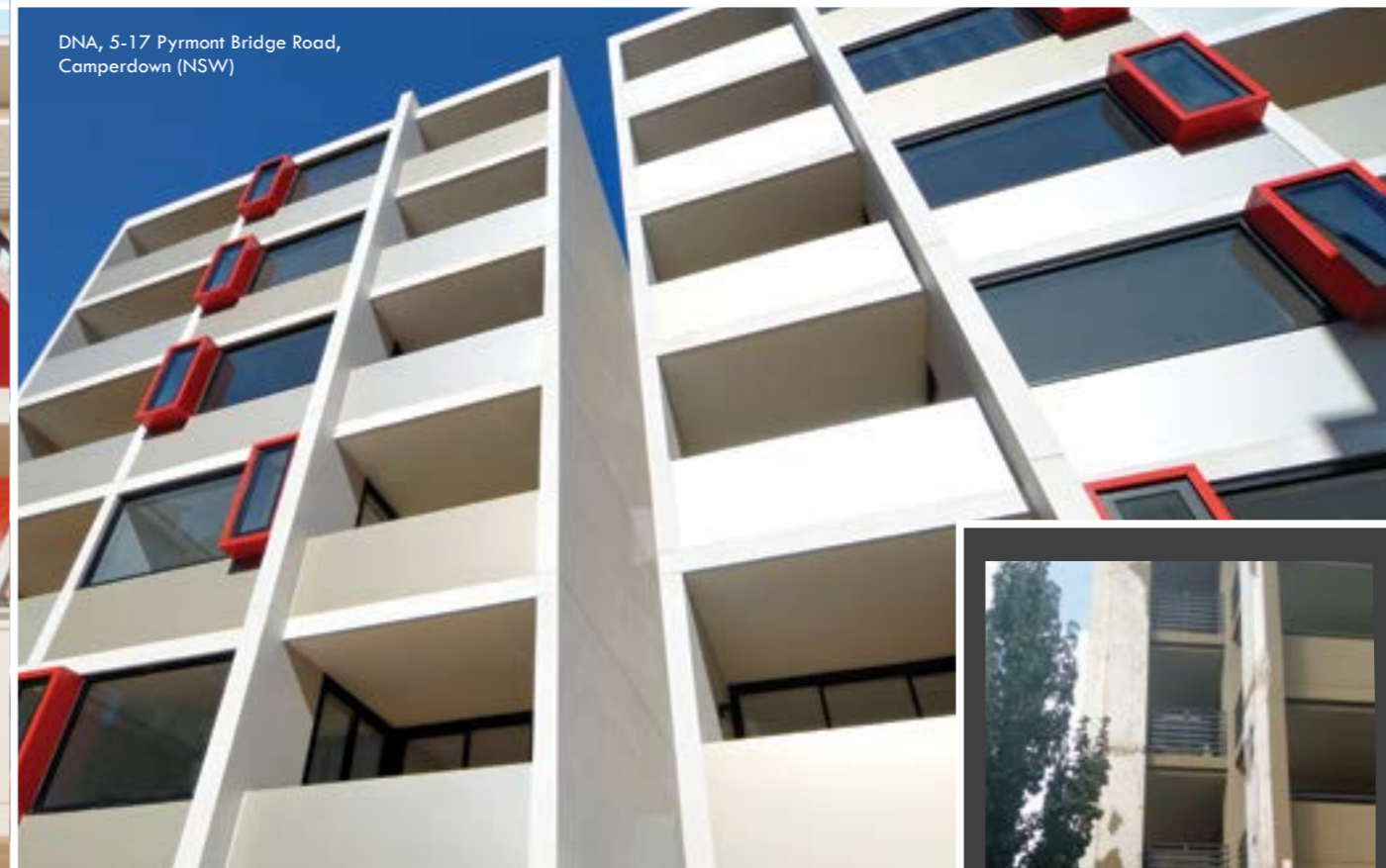
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Acrylic render applied to Dincel at 203-207 Auburn Road, Yagoona (NSW)



DNA, 5-17 Pyrmont Bridge Road, Camperdown (NSW)



THE FACTS ABOUT RENDER FINISHES

As demand for permanent polymer formwork building systems booms, confusion and misunderstanding about the rendered and painted finishes that can be applied to PVC formwork's surface may be holding it back from being specified for external façade walls.

The Australian manufactured and engineered Dincel Construction System is an innovative new building system that delivers cost effective and speedy construction, while at the same time addressing a range of building quality and certification requirements for waterproofing, acoustics, fire retardancy, site safety and the environment.

According to Burak Dincel, inventor and chairman of Dincel Construction System, **“The perception that renders cannot be applied to Dincel Construction System's PVC polymer surface is incorrect and negative perception is generated purposely to prevent unstoppable growth of Dincel.** A significant number of Dincel Construction System projects have been applied with a wide

range of finishes, including acrylic renders that have endured the test of time over many years.”

Dincel Construction System works closely with leading paint and render supply companies including Dulux, Taubmans, Astec, Novatex, and STO European Construction. These organisations have undertaken independent testing of their respective acrylic render and paint finishes, providing **warranties of up to 15 years on a range of approved finishes for application on Dincel Construction System walls**, provided they are correctly applied by an approved applicator. These renders are available in a variety of colours and textures, latex and polymer based paints, offering architects, builders and developers flexible and durable design options for exterior façades. In addition to acrylic render, latex and polymer paints, a range of lightweight wall cladding materials such as timber, aluminium, metal or fibre cement may be mechanically screwed to Dincel wall surface. Even stone and brick can be applied by using concealed ties which are mechanically fixed before or after the concrete filling of the Dincel wall forms.

Mr Dincel states, “Only 100% acrylic render finishes are suitable for polymer wall surfaces. “The key issue for rendering polymer surfaces is to use minimum 10mm render thickness. The dark coloured surfaces can reach a temperature of 88 degrees centigrade, particularly on the western facing façade walls.” If this temperature is directly allowed to transfer onto any underlying wall surface, the underlying wall material will expand. The render will then crack at random centres if the elasticity of the render is not approximately equal to the expansion of the underlying wall material.

“The render material's expansion and base surface's thermal expansion has to complement each other. The thicker render works as an insulation material to reduce the transfer of the heat to wall surface below the render. Therefore, a successful finish depends on elasticity and thickness of the render, a heat reflective top coat finish, articulation of render (particularly around window and door openings), and the choice of colour. In addition to all the above factors, workmanship skills and ambient conditions play a major role on the performance of the render.

“Some acrylic render manufacturers have made the application process even easier by adding small polystyrene balls to increase the applied render thickness of 10mm to 20mm at each application, which is an important performance and labour-cost consideration irrespective of the base wall surface”.

For conventional sand-cement based renders or modified acrylic renders which consist of considerable sand and cement, which makes the render porous and brittle, cracking is inevitable.

This is because conventional render absorbs moisture into the body of the render, causing shrinkage and temperature-related cracking. Water/moisture ingress through the cracked sand-cement render can build up moisture between wall surface and render causing render delamination and paint bubbling. **This is not an issue with Dincel, highlighted by the fact that render suppliers provide 15 years warranty on the Dincel wall.** Dincel render with significantly less brittle nature applied on a non-porous surface such as Dincel will always provide better performance than the conventional sand-cement render.

The hydrophobic qualities of Dincel Construction System polymer and panel joints, tested by the CSIRO, confirm Dincel walls and forms are 100 percent waterproof. As a completely non-porous surface, Dincel boasts many benefits over other commonly used porous formwork materials, such as fibre cement board, eliminating any risk of concrete cancer and façade delamination.

According to Mr Dincel, “Some building professionals are failing to recognise water and moisture will penetrate into a façade wall unless the base wall is waterproof like Dincel or the wall incorporates an applied membrane system, which requires regular maintenance.

However, the **AS 3600 Concrete Structure Code's current commentary for concrete walls clearly states that wall systems relying on the applied membranes instead of adequate concrete cover are outside the scope of AS 3600. This means specifiers and certifiers can be held liable for those walls reliant on the applied waterproof membranes and displaying problems such as mould and mildew, air voids, and corrosion.** Dincel always maintains adequate concrete cover



This photo shows the failure of the membrane system on an alternative wall system using porous boards as a permanent concrete formwork. The designer/certifier who is ignoring AS3600 Commentary must satisfy themselves that the claimed membrane system life is at least equal to the structural wall's life which is a minimum of 40 years since there is no legislation or consumer awareness to enforce the requirement of ongoing maintenance with such systems.

to any metal within the wall which complies with the AS 3600 durability requirement.

For more information contact Dincel Construction System, phone 02 9670 1633, website www.dincel.com.au



LORETO COLLEGE BALLARAT

The newly completed \$9 million Mary's Mount Centre at Loreto College, Ballarat (Victoria), is a state-of-the-art performing arts facility set within a historic school precinct. This contemporary centre, designed by architectural firm Gray Puksand and built by S.J. Weir, features a 500 seat auditorium, multimedia laboratory as well as spacious music and dance studios.

With its proximity to heritage buildings, the Centre is an example of modest, respectful design that coexists harmoniously with heritage structures, including the adjacent school chapel. One of the Centre's most important design features is the Exsulate® – Kooltherm® Thermal Façade System by Dulux® AcraTex®, which incorporates the Kooltherm K5 External Wall Board.

This unique CodeMark™ certified façade system, noted for its visual impact, developed jointly by Kingspan and Dulux AcraTex, is a masterpiece of 'two-in-one' multifunctionality: not only does the walling of the façade provide superb thermal insulation, but its slimline profile also maximises functional interior space.

High-performance insulation is a necessity at the school, where winter temperatures frequently fall several degrees below zero and summertime temperatures can soar well above 40°C. The Exsulate-Kooltherm Thermal Façade System achieves its peak performance from Kooltherm's unrivalled practicality, safety and resilience.

Exsulate Kooltherm K5 External Wall Boards, available in either 50mm or 80mm configurations, are CodeMark certified and fire rated to rigorous international and Australian standards and produce exceptional thermal conductivity values.

The Mary's Mount Centre is a welcome modern addition to a school of great tradition, featuring high-quality construction, world class-performance and great affordability compared with alternative façade systems.

For more information contact Dulux AcraTex, 1956 Princess Highway, Clayton VIC 3168, phone 1300 662 841, email sales@exsulate.com.au, website www.exsulate.com.au



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*Exsulate and Exsulate-Kooltherm are CodeMark certified as fully integrated Building Systems in compliance with the Building Code of Australia (Volume Two, Class 1 and 10 residential buildings). Exsulate-Kooltherm is also certified for Multi-Residential External Walls to NCC (Volume One, Class 2 to 9 buildings).
†Compliance to standard is relative to the Specification & Installation of the Full System as detailed in the relevant System Certification.

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ATELIER JV – PERTH AIRPORT

Atelier JV are an award winning Perth based, Australian owned company specialising in the full spectrum of Façade Engineering design.

Atelier JV have worked with Perth Airport since 2013 in a number of major Façade Engineering roles. The expansion of Arrivals at Terminal 1 saw Atelier JV design 8.5m tall glazing around the staircase atrium as well as glazing along the front elevation extension of the original façade.

The Atelier JV team worked closely with Built Environs on the expansion of the Terminal 1 (T1) International Departures area and the T1 Domestic Pier. There were a number of elements within the project needing to be addressed including the secondary steel support for the façade, cladding and glazing, Aerobridge links and all glazed façades on the pier.

The team worked both internally and externally on the Pier including the steel mullions, glass walls, gates and mechanical service pods, the west extension, glazed link bridge to Terminal 2, and the cladding trusses that wrap around the eaves of the Departures area.

Working in airport spaces present a number of challenges when designing façade elements. When completing external works, the team had to contend with high design wind loads prevalent at airport sites due to the open spaces, together with blast loading for façades, a criteria that is very unique in airport designs. Internally, high security, impact loading and crowd loads were constant criteria to factor in, monitor and overcome throughout intelligent design on the project.

“Atelier JV demonstrated a vast knowledge base and engineering skillset on this project, understanding the needs of a Contractor by providing practical and economical engineering solutions, I look forward to working again with Atelier JV in the future on the next construction challenge.” Sam Reinboth, Senior Project Manager, Built Environs.

Atelier JV continue to work with Perth Airport and have recently joined with Built to complete works on the Virgin Australia Check-in counters and guest lounges. They have also been commissioned to work on the retail expansion currently under construction,

altering the existing façade and canopies, and introducing new shop fronts for the upcoming new retail stores.

Atelier JV's experience with façades started with the director, Simon Jewell's glass design work in London in 2000 on the international rail terminal at St. Pancras, and has expanded to include all aspects of façade structural design in materials from timber to stainless steel and plastics to aluminium. They have the capacity to complete the design of a wide range of façades, artwork and other architectural elements.

Atelier JV are equipped to design for the full spectrum of project types in façade design that range from glass floors, fin and beams to aluminium panels, screens and extrusions.

Atelier JV are also able to complete storefronts and shop fit-outs, secondary steel work, façade acoustic and thermal performance design façade inspections and suggest materials to use for different elements for the design however diverse or unusual.

Atelier JV get involved in a wide variety of projects and are currently involved in or have recently completed work on;

- 202 Pier Street, East Perth
- Screens for Karratha Quarter, Channel 9 and the award winning Sanwell Office Building
- Roy Hill Operations Centre at the Airport precinct
- NAB, ANZ and Coles Fit Outs and shop fronts
- Yagan Square
- Forrest Chase
- 108 St. Georges Terrace glass lobby artwork

On 140 St. Georges Terrace, a recent façade inspection project, Atelier JV used their unique skills of rope access façade inspection to inspect and report on the condition of the precast concrete shrouds to the buildings main exterior columns. Over five days, staff from Atelier JV abseiled the 140m tall tower in the city to record all defects and create a detailed report on the condition of the façades, which they could then tender for the client.

For more information contact Atelier JV, 123 Aberdeen Street, Northbridge WA 6003, phone 08 9228 9120, email info@atelierjv.com.au, website www.atelierjv.com.au



Virgin Australia Guest Lounge



Departures Glazing



Departures Hall Façade



Domestic Pier



Virgin Australia Check-in Counters
Images courtesy of Perth Airport

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PANEL IMPERSONATIONS

Texture Panels are industry leaders in façade panels with incredibly realistic natural textures across a variety of designs including wood, stone, brick, fake bamboo and metal. The panels are approximately 600mm by 1,200mm and can be applied to any flat surface, weigh between 2-4kg each, are affordable, easy to install, interlock seamlessly and can be used in all climates.

The product has been on the market for 25 years and is becoming increasingly in demand for both indoor and outdoor building applications with customers across the retail, commercial and domestic markets. Texture Panels supply to both local and overseas markets.

Texture Panels' best selling product is their brick designs, with all products famous for their lightweight, easy installation. There are both interlocking and non interlocking panels available depending on the design.

Texture Panels are specifically engineered to be saw or CNC cut, drilled, routed, glued and fastened with ordinary tools, so you don't need specialised masons or tradespeople, equipment or tools to fit the interlocking or stand alone pre fabricated panels. They are easy to install for DIY and trade professionals alike and are safe for children and adults as they are produced with all water-based chemistry, with no VOC and do not "off gas" any formaldehyde.

High density polymer composites are moulded from natural products to produce the realistic, high quality, unique finished panels that come in a variety of pre fabricated sizes and over 200 designs and colours that are added to constantly to keep up with market trends. There are corner pieces to match some designs, alternatively the panel can miter cut to produce corner columns.

Texture panels are very hardy and durable and come in 15-45mm thicknesses depending on the design. The panels won't rot, crack or warp, are impervious to insect attacks and moisture, insulate and sound proof (with a 5 R rating), are waterproof and can withstand extreme weather, direct sunlight (UV protected) are environmentally sound and are

backed by a 25 year finish, 50 year material manufacturers warranty. There are fire proof and non fire proof designs available. Texture Panels even outlast real wood and interestingly, Boeing use the same material on their aircraft.

Texture Panels can produce custom colours and prototypes for design/architects/clients on request. They are used widely in a variety of indoor and outdoor building applications including store and franchise fitouts and multi-level constructions by homeowners, architects, designers and retail stores.

The panels can be used as wall coverings, for retail, commercial or creating natural shadows limited to your imaginations, true depth and realistic effects to finish off your space with class. Once installed, signs, wall displays and pictures can be screwed into Texture Panels without fear of splintering or cracking.

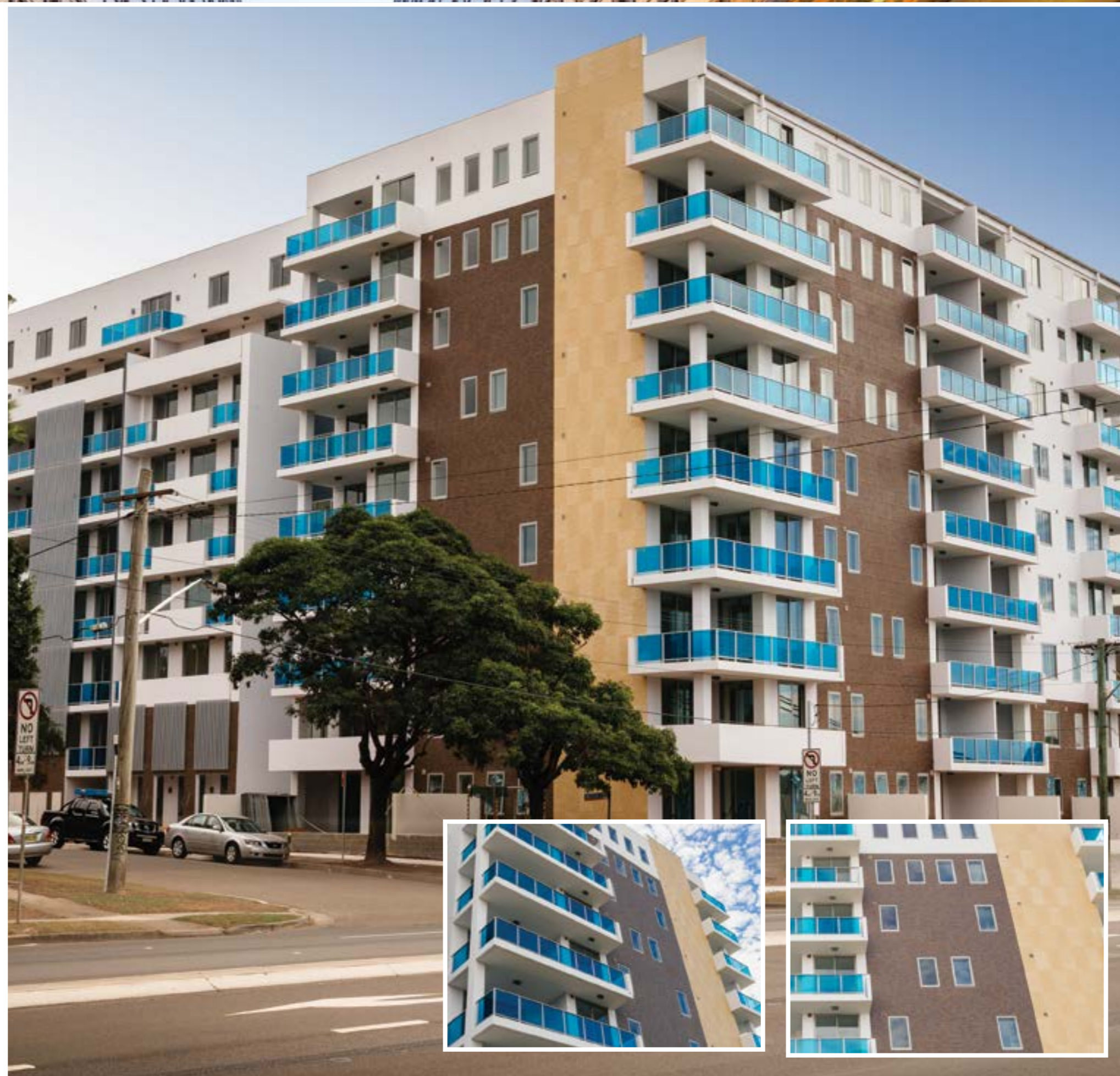
The panels can be seamlessly arranged vertically or horizontally to enhance designs and creativity and made to order on request. Since Texture Panels are so easy to handle, lightweight and cost less, they can be used in place of many traditional building materials at a fraction of the price and in a fraction of the time without compromising on quality.

Texture panels are a wholesaler not a retailer and are continuing to grow across multi-level constructions in any sector having just finished the 7-storey Western Street Apartment complex in Rose Hill, that has used the brick and slate panels.

There is no minimum order. Texture Panels ship in cartons for small orders and containers for large orders by common carriers. You can order two free 15cm² random samples by calling Texture Panels.



For more information contact Texture Panels, 2 Wesley Place, Geelong VIC 3220 (by appointment only), phone 03 5378 2588, mobile 0414 746 345, fax 03 5278 2588, website www.texturepanels.com.au





Penrith Station Carpark



Inspire Church, Liverpool



Randwick Racecourse



ASX Data Centre, Gorehill



ARV Castle Hill

PROJECT SHOWCASE:

A 1,000 car capacity multi-deck car park at Penrith Station.

ARCHITECT: HBO + EMTB.

The rectilinear shaped building features a striking façade which has taken cues from the nearby Blue Mountains. The design team took inspiration from the shapes and colours of the eucalyptus tree by referencing the many colours of the leaf throughout its lifecycle.

The façade is made of perforated powder coated aluminium, while the main structure is formed using a pre-stressed concrete system which facilitates exceptionally large spans. Aambianz design team gave this concept shape and using its state of the art manufacturing facility in South Western Sydney which includes laser, turret and cnc machines, fabricated the leaves and the paps which when combined gave the final feature of the façade.

Aambianz design, engineer, manufacture and install architectural façade screens, louvres and sunshades, working closely with the architects on the design. Aambianz was established in 2004 by a group of engineers and façade designers and has grown to a company employing 40 staff across engineering, design, manufacturing, installation and project management.

The company's capabilities include aluminium architectural, acoustic and ventilation louvers; fixed, operable and motorised sunshades; perforated and laser-cut aluminium panels; and custom-made sun-control systems. Every project they undertake is a customised solution, with 3D modelling used during the design process to enable meshing of their engineered designs with the architectural plans.

Aambianz Pty Ltd
1300 88 3011 | email info@aambianz.com.au
5/16 York Road, Ingleburn NSW 2167 | 2/52 Shelly Street, Sunnybank QLD 4109

COMPLETED PROJECTS

Arenas – Randwick Racecourse, Royal Australian Showground
Hospitals – Blacktown, Royal North Shore, Westmead, Tamworth, Dubbo, Auburn
Carparks – Penrith Commuter, Metcash, Aldi HO, Rooty Hill RSL, Merrylands RSL
Airports – Sydney International Airport, Canberra Airport Stage 1 & Stage 2
Government/Defence – RAAF 8000, ATO Aulbury, HMAS Albatross, Liverpool Police Station
Commercial – Stockland Wetherill Park, Stockland Shellharbour, Star City Casino,
Hotels – Four Seasons Sussex Street, Holiday Inn Macquarie Park

CURRENT PROJECTS

Skye By Crown Apartments, North Sydney (Crown)
Summer Hill Flour Mill Apartments (Watpac)
FV Gurner Carpark, Brisbane (BMPX)
Clemton Park Apartments (ParkView)
Honey Suckle Drive Apartments, Newcastle (BLOC)
Baptist Care Aged Care, Kellyville (Lipman)
MLC Centre, Sydney (GPT Group)
Wahroonga Adventist School (Richard Crookes)
National Archive, Canberra (BLOC)
Latrobe Hospital, Victoria (Cockram)



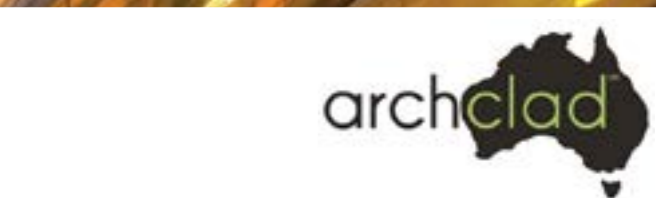
ARCHCLAD™ STANDING SEAM 25



ARCHCLAD™ EXPRESS PANEL



ARCHCLAD™ CASSETTE PANEL
1.6MM, 2.0MM AND 3.0MM



ARCHCLAD™ CLIPTRAY 25



ARCHCLAD™ CLIPTRAY 48

Architectural Cladding Australia (Archclad™) manufacture a distinctive collection of wall cladding profiles in materials designed to stand the test of time. All Archclad™ profiles are custom manufactured in Melbourne from imported European grade materials, which are then expertly profiled using the best machinery available.

Although Archclad™ started their business with Titanium Zinc, Corten and Copper, in 2008 they launched their own range of PVDF Aluminium with custom colours, to the Australian market. Solid Aluminium is a non-combustible product and should be the material of choice when considering price, longevity and thermal performance of a project. Floor stock colour range include: Satin Black, Silver Grey, Cirrus White, Antique Copper, Golden Bark, Stone Grey and Charcoal Black. The latest addition being Storm Grey special colours are also available on request and subject to MOQ.

Archclad™ wall cladding profiles include;
ARCHCLAD™ STANDING SEAM 25
ARCHCLAD™ CLIPTRAY 25
ARCHCLAD™ CASSETTE PANEL 1.6MM, 2.0MM and 3.0MM
ARCHCLAD™ EXPRESS PANEL

ARCHCLAD™ CLIPTRAY 48 (launched in 2016)

We believe there is no other Wall cladding profile available-that offers the following list of features:

- 48mm high standing seam rib
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- No substructure required for wall cladding or roofing (subject to panel width less than 350mm for roofing applications.)
- Adjustable roll-formed widths (optional)
- Tapered panels (optional) and Stiffener ribs (optional)

The maximum thickness the profile is designed for is 0.8mm, (though thinner materials can be used) we recommend all aluminium be 0.8mm and steel/ferrous in 0.55mm Commercial Grade. Testing to AS 1562.1 and AS 4040.1 and AS 4040.2 is currently underway. All materials supplied by Archclad™ are tested to AS 1530.3.

Archclad™ services include design assistance, project management and supply only.

For more information please contact Archclad™, phone 1300cladding email info@archclad.com.au, website www.archclad.com.au

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John Wardle Architects worked with Designer Panel Systems (a company of Design Group) to find a solution to a cladding system never before used on Australian construction. This cladding system involved complex custom perforating and pressing of VM Quartz finish Zinc panels. After two years and a plethora of prototypes, the panels were produced and now adorn the University of Melbourne's Faculty of Architecture building. "This innovative panel withstood the rigors of wind tunnel testing and was subjected to stress tests to determine how far the product could be pushed to achieve an engineered solution to architectural intent, explains Design Group's Dennis Rigoni.

The cladding not only forms a truly remarkable and lace like feature on the building, providing sun screening and a fabulous façade. It was anticipated the screens would be subject to detailed scrutiny from its end users. "The panels themselves, whilst they were of an ingenious design, once fabricated they needed to be mounted and installed by specialists," adds Dennis. "So the successful builder of the development, Brookfield Multiplex, engaged the services of Fabmetal Specialists

As experts in large commercial bespoke metal work projects Fabmetal Specialists Pty Ltd brings the added expertise required when

providing solutions in design, construction and installation of the most complex geometric applications in a commercial environment. "The joint venture of Designer Panel Systems and Fabmetal Specialists proved to be a winning combination for the project," says Dennis. "Fabmetal's attention to detail, coupled with their in house design team, and the employment of innovative process ensured that the finished product was completed on time to the highest architectural standards

A market leader within Victoria in the fabrication and supply of unique market leading products, Design Group comprises the companies Design Sheet metal, Designer Panel Systems, Design Bonnet Storage and Polycarb Roofing Supplies. Fabmetal Specialists located in Bayswater in Victoria and founded in 1993, provide specialist metal solutions employing around 30 people they are the fabricator of choice by Melbourne's leading construction companies

For more information contact Design Group, 196 Colchester Road, Bayswater VIC 3153, phone 03 8720 8900, website www.designsheetmetal.com.au

Or contact Fabmetal Specialists Pty Ltd, 18 Brunson Street, Bayswater VIC 3153, phone 03 9720 2177, website www.fabmetal.com.au



Orbit Tower



King Square 3



Orbis UK



T1-Domestic Pier, Perth Airport



China Complex



ECU-B34 Strip



The Royals



INTERNATIONAL Pty Ltd
A.B.N 84127571082

CONTRACT FAÇADE DRAFTING

KDK Designs International is an experienced contract drafting team specialising in the design of commercial façades. KDK have been operating for 17 years and have completed nearly 100 complex projects in Australia and the United Kingdom.

KDK strive to excel under pressure to meet programme requirements and have the resources available with a 24 hour design office, With a new design office located in Prague specialising in 3D.

Our Design capabilities extend from approval design to As Built submissions. KDK provide material & glass schedules together

with fabrication drawings for all elements Involved in the Façade from start to finish.

KDK are excited at the opportunity to extend our contract work to new Construction Companies and look forward to a successful business relationship.

Keon Hey – Director
Danny Sullivan – Director
Kane Toscano – Director

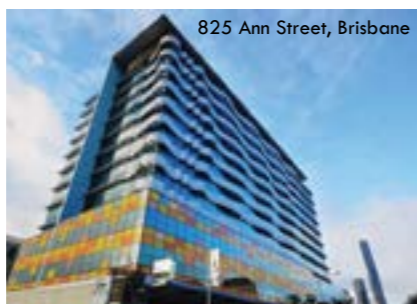
Unit 7a 365 Kingsway
Caringbah N.S.W 2229
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Diamond Windows



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Cambridge

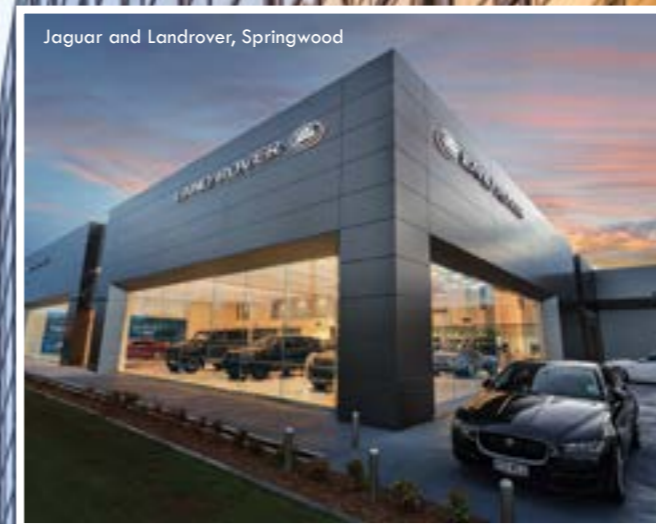


Ealing



St George Terrace

Jaguar and Landrover, Springwood



Pacific Fair Shopping Centre



Milton Residences

Auzmet Architectural is an Australian owned prestige façade management company with offices in Brisbane, Melbourne and the USA. They are experts in external façades from glass and aluminium cladding and curtain walls to window wall systems. They are well known for their ability to tackle harder projects that are a little left of field in design, construction and installation.

Auzmet Architectural have been in business for over seven years, have 40 employees here in Australia and 20 in the USA with over 30 years experience. They started a factory in Dallas Texas a year ago to maintain quality assurance and abide by timelines on particular products like glass and aluminium curtain walls, as they were finding it hard to keep products consistent and on time from the majority of façade products that were coming out of China. The feasible low labour rates in Texas was also a contributing factor to keeping product costs down.

Auzmet Architectural have recently completed an unique, elaborate Kaynemaile (architectural mesh) external façade finish at the Pacific Shopping Square on the Gold Coast, Queensland and are also working on two, 40-level student housing buildings in Buranda, Brisbane.

The exciting news is that the student housing buildings feature an Australia first and maybe even world first new glass and aluminium window wall system developed by Auzmet Architectural, that meet the technical acoustic and thermal specifications.

Shane from Auzmet Architectural said, “One of the most challenging components of the façade industry is being the last trade on the building site, which usually makes times constraints a real issue, especially with other trades also trying to finish their part of the project on time.”

Auzmet Architectural continue to evolve and develop new products and systems to keep up with the ever evolving façade industry worldwide.



For more information contact Auzmet Architectural, 2/12 Octal Street, Yatala QLD 4207, phone 07 3801 8911, fax 07 3801 8933, email sales@auzmet.com, website www.auzmet.com.au

BG&E FAÇADES CONSULTANTS

“The challenge in managing today’s façades is the risk which comes through the design, procurement and monitoring of quality,” said Practice Manager Oliver Ng.

BG&E Façades provide innovative façade solutions, specialising in façade designs that are aesthetically pleasing, energy efficient and cost effective. They develop strong relationships with builders, collaborating with them to produce outstanding results that benefit both client and the project.

A lot of their work comes from remedial and expert witness work, where their experience helps recognise and pinpoint problems in existing structures usually from sub-standard contractors and imported products.

Every project has a team led by a senior advisor with at least 15 to 20 years experience, so you know the job will be done expertly the first time.

BG&E Façades successfully serviced the \$3 billion contract for the Royal Adelaide Hospital over four years and have also worked on Medibank and AGL building above the Southern Cross station in Melbourne. They have recently expanded in QATAR and plan to open up a new office in Singapore soon to service Thailand and Vietnam more closely.



BG&E Façades
03 9652 3900
37-41 Little Bourke Street
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StoneClip is an Australian business with four decades of experience in the construction industry. We specialise in the fabrication of engineer certified stainless steel forms of mechanical fixing for the cladding of natural and manufactured stone in the local and global market.

StoneClip is patented and engineered certified including five systems that have been designed to interact with natural and manufactured stone of all weights and dimensions.

Our smallest clips work with a direct fix application and our system ranges to our larger adjustable clips with extended cavities of above 200mm. The weights and loads withheld by our system can range up to the 400kg mark and above with a range of clips as displayed in the ANZAC Walk memorial by Commercial Ceramics which was completed this April.

StoneClip has been designed to provide the solution to the installation of natural and manufactured stone in both an internal and external situation. Its stainless steel form meets the extended life requirements placed on products to be used commercially and its certification meets the demands placed by architects and engineers to meet specification requirements.

WWW.ANCR.COM.AU

StoneClip has been involved in numerous Australian Government buildings both locally and internationally, as well as many public sector developments including hospitals, casinos and resorts.

As a company we are constantly researching and developing ways in which to improve, and have recently involved our systems to create a ‘Ventilated Façade System’ which is essential in obtaining a 5 star green rating for any government project.

StoneClip is the recognised industry standard for Mechanical Fixing, we provide a detailed consultation and offer advice on any project. Being able to provide the correct product for the situation every time, as well as being able to help realise the vision of the industries’ leading architects and provide reduced labor costs for the contractor makes the product the first choice and the right choice every time.

For more information contact StoneClip, 38 Wickham Road, Hampton East VIC 3188, Daniel 0403 679 998, email daniel@stoneclip.com, website www.stoneclip.com

ANCR FAÇADES CLADDING & CURTAIN WALLS SPECIAL FEATURE 141



The modern city skyline is adorned with colour, texture and unique shapes that bring a life to the structures beneath. Façade design, and the products and systems used to create these modern architectural pieces of art, are pushing the boundaries in structural engineering and manufacturing.

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EFBS is Australia's leading supplier of SMART GREEN building materials. Enabling architects, builders and owner builders to expand the horizon of modern design, increase quality, time efficiency and energy performance.

We take a holistic view to the design, implementation and on-going support of our products through construction.

Our technologically advanced and exceptionally engineered materials meet or exceed Australian standards and are economical and easy to use and have been proven in residential and commercial structures worldwide.

We believe that the integration of green materials and components, building packages, comprehensive training and on site assistance is what sets us apart.

We specialise in remedial works such as crack injection, basements, slabs, rooftops, bathrooms, tunnel works, rising damp in brickwork and most waterproofing and remedial needs.

We also sell tile adhesives and accessories, acrylic renders, mesh, angles and textures, waterproofings, polyurethanes and tools.



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