



the  
view

projects featuring  
**EDGE**  
Architectural Glazing Systems

LaTrobe Institute of Molecular Science, U-MAX™ 150 Front Double Glazed suite.

# U-max

U-MAX™, EDGE Architectural's thermally broken suite, saves energy.

The suite controls thermal conductivity within a comprehensive range of commercial framing systems. With features like thermal break and advanced water shedding, interchangeable systems, and door and sash elements, the suite offers a full range of energy smart products.

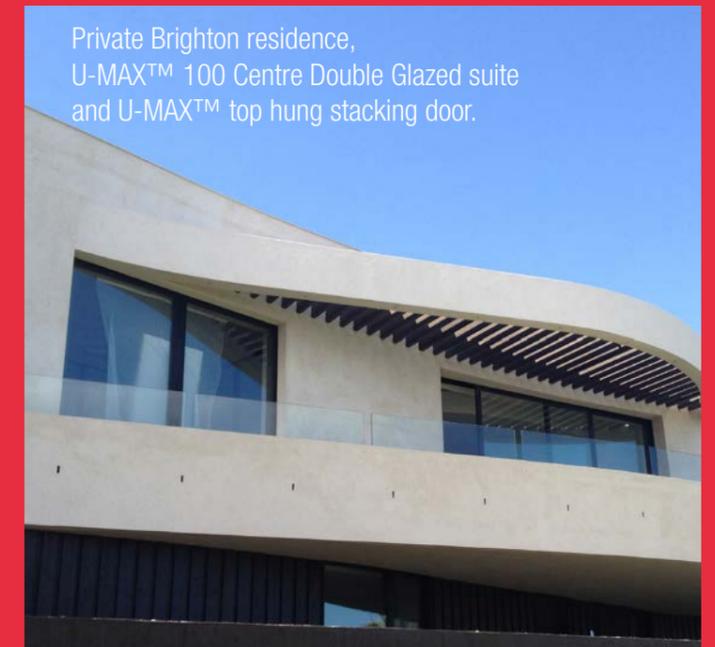
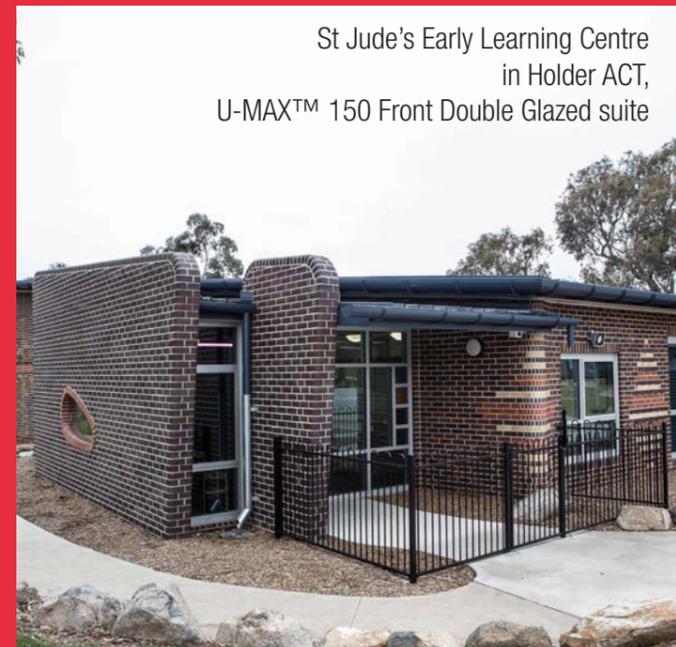
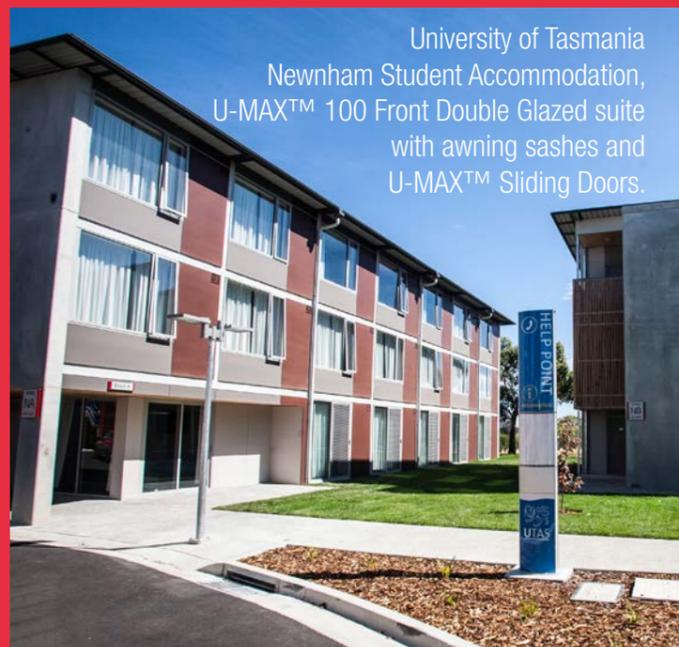
The thermal break of U-MAX™ occurs within the glazing rebate and does not interfere with the system's clean aesthetics. Suites include 100mm centre glaze and 150mm offset glaze, where the glass set back is in the same location. The 120mm structural glazed system is designed around simplicity of fabrication and fitting pre-glazed panels on site. Factory glazing ensures glazing and curing of tapes and sealants in a controlled environment preserve the integrity of the structural bond. The Pressure Bar curtain wall system includes a thermal isolator; it's a cost effective curtain wall system for low rise applications.

Beyond the thermal performance benefits it provides for builders faced with meeting the standards of Section J, U-MAX™ assists in the delivery of energy performance throughout the life of the building. Smart property investors choose to develop and purchase premium properties that deliver greater return on investment over time. Property owners can command higher rents in buildings with lower running costs, leading to higher property values.

U-MAX™, the new element in the smart building matrix.

## U-MAX™: the suites

- U-MAX™ 100 Centre Double Glazed
- U-MAX™ 100 Front Double Glazed
- U-MAX™ 150 Front Double Glazed
- U-MAX™ 150 Front Capped Double Glazed
- U-MAX™ 150 Offset Double Glazed
- U-MAX™ Structural Glazed 150 Framing
- U-MAX™ Thermal Pressure Bar System 180 Curtain Wall
- U-MAX™ Awning & Casement Sashes
- U-MAX™ Commercial Door Systems
- U-MAX™ Thermal Break Sliding Door
- U-MAX™ Bifold Door



# Springvale Botanical Cemetery, The Clarence Reardon Centre

## Sustainable design, innovative implementation

From the outset, planning of the Springvale Botanical Cemetery's new central precinct emphasised sustainable innovation and an integrated design approach. Architectural building form, engineering analysis and thermal performance were developed as one entity through the design process.

The Administration Hub serves as the principle headquarters for the cemetery's trust, featuring training facilities and amenities for employees. The Clarence Reardon Centre incorporates commercial kitchen facilities and offers clear visual and connection to the Chapel building.

When an architect or engineer wants sustainable innovation for a commercial project in Australia, they want U-MAX™ thermally broken aluminium window and door systems from EDGE Architectural.

The Clarence Reardon Centre project incorporates the U-MAX™ 150 Structurally Glazed suite with shade screen mullions for increased thermal performance and sustainable practices. The team from 808 Design worked with EDGE Consult to ensure the systems met the desired efficiency standards.

In addition to insulation performance, the window system was customised to allow for natural ventilation and air flow through the structure.

Architect:  
GHD

Builder:  
ADCO Constructions

Fabricator:  
808 Design

EDGE Architectural systems:  
150 Structurally Glazed system with thermally broken sun shade mullions



## MAX™: the suites

- MAX™ 100mm Centre Double Glazed
- MAX™ 100mm Front Double Glazed, 34mm pocket
- MAX™ 100mm Front Double Glazed, 44mm pocket
- MAX™ 150mm Front Double Glazed, 34mm pocket
- MAX™ 150mm Front Double Glazed, 44mm pocket
- MAX™ 150mm Front Capped Double Glazed
- MAX™ 150mm Offset Double Glazed
- MAX™ Structural Glazed 150mm Double Glazed
- MAX™ 200mm Front Double Glazed, 44mm pocket
- MAX™ 150mm Unitised Double Glazed Curtain Wall
- MAX™ 182mm Unitised Double Glazed Curtain Wall
- MAX™ Double Glaze Awning & Casement Sashes
- MAX™ Double Glaze Commercial Door Systems
- MAX™ Double Glaze Sliding Door
- MAX™ Double Glaze Bi-fold Door

# max

MAX™, EDGE Architectural's double glazed window framing suite, adopts all the products from the U-MAX™ range in non-broken form, complemented by additional frame selections. Like U-MAX™, MAX™ offers an array of interchangeable systems and door and sash elements to provide a complete, highly energy efficient range of products.

The outer frame elements of MAX™ generally allow either a narrow 44mm or 50mm face, but can incorporate U-MAX™ frame members which are 60mm. Suites include 100mm centre glaze and 150mm offset glaze, where the glass set back is in the same location.

MAX™ and U-MAX™ can be used together on a project for a seamless transition across facades, selecting the correct product for the required energy rating and the desired visual impact. The result is cost control in harmony

with stunning aesthetics.

The project for the Administrative Depot at the Royal Botanic Gardens in Cranbourne is one example of this blend of framing systems. Home to an amazing variety of plant and animal life, a contemporary landscape showcases the beauty and diversity of Australian flora.

Demonstrating their commitment to the environment and sustainable practices, the people at the Royal Botanic Gardens sought a high level of thermal performance for the new Administrative Depot.

In part, the building achieves that thanks to using both MAX™ and U-MAX™ systems and varying the system by the elevation. This seamless interchangeability allows the project to maximise both energy efficiency and cost control.



66 Victor Crescent  
MAX™ 150 Front Double Glazed suite.



Administrative Depot at the Royal Botanic  
Gardens, Cranbourne,  
MAX™ and U-MAX™ 100 Front Glazed suites  
and awning sashes.

# University of Tasmania, Institute of Marine and Antarctic Studies

## Science in the shed with MAX™ appeal

When the University of Tasmania sought to build a new home for the Institute for Marine and Antarctic Studies (IMAS), an organisation that aspires to be “a leading global institution for temperate marine, Southern Ocean and Antarctic research”, they wanted a structure reflective of the cutting-edge science being conducted inside. They also wanted energy efficiency, natural ventilation and sustainable features to ensure the building operation serves its community rather than draining resources.

A project by John Wardle Architects in association with Terroir Architects, IMAS officially opened in January 2014 on Hobart’s waterfront. The building is practical and inspirational. It invites public engagement.

To achieve the dynamic reflective façade and thermal performance, a MAX™ 150 Structural Glazed awning sashes in concealed winder boxes were chosen. The architect worked with team members from EDGE Consult to achieve the desired visual effect at the main entrance. They developed the MAX™ 150 Structural Glazed framing with custom split mullion with fins and achieved a fantastic result.

Referred to as “science in the shed”, due to the design of the building emulating the neighbouring wharf structures, IMAS blends perfectly with its surroundings and yet it stands out as completely unique. The glass façade facing the harbour reflects back the colour and energy of surrounding buildings, boats, docks and people, symbolically reflecting the history of the area and its maritime uses.

The building earned a 5 Star Green Star classification.

Architect:  
John Wardle Architects and  
Terroir Architects

Builder:  
John Holland Fairbrother  
Joint Venture

Fabricator:  
Commercial Windows and  
Doors (CWD)

MAX™ systems:  
150 Structural Glazed  
awning sashes in concealed  
winder boxes

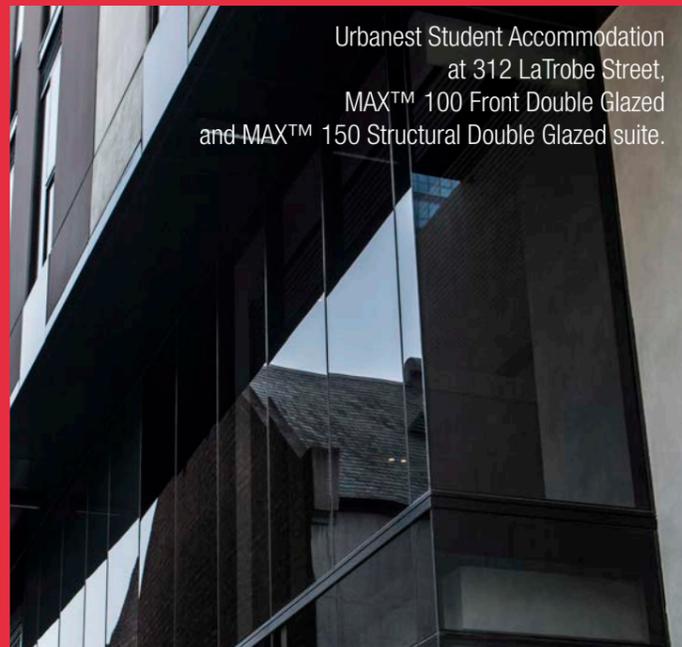
Green Star rating:  
5 Star



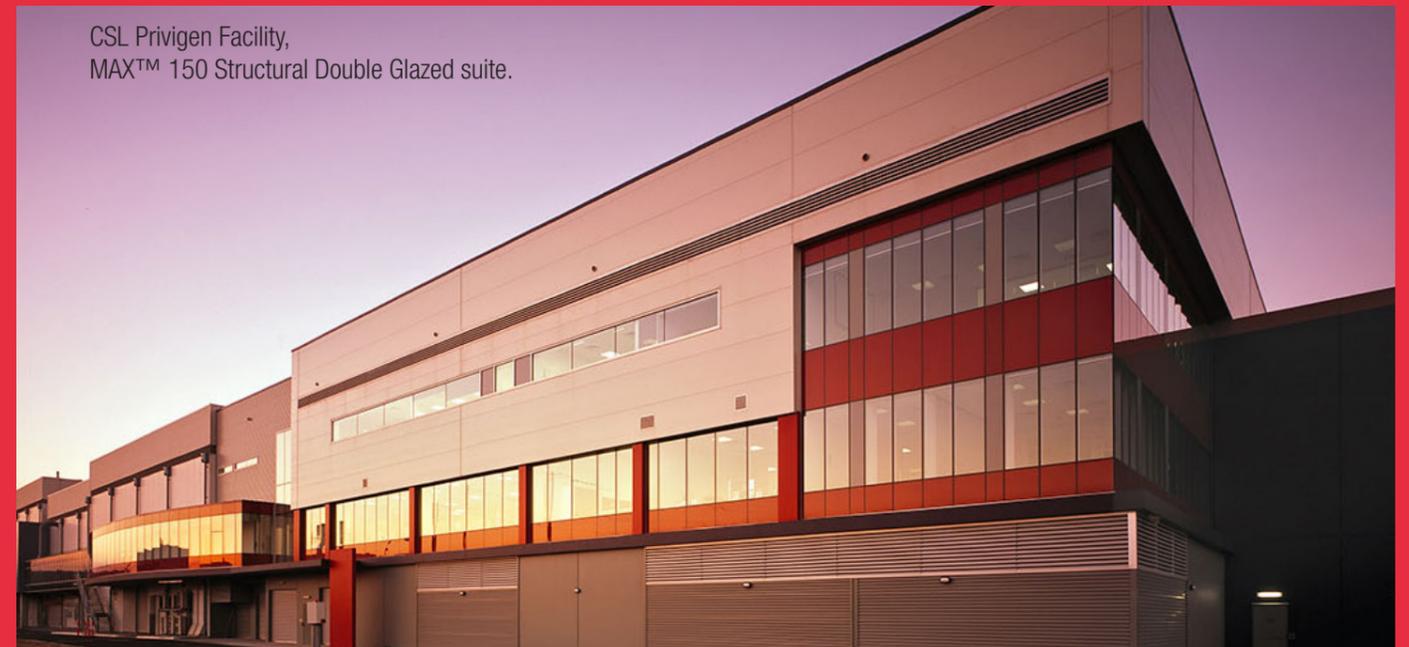
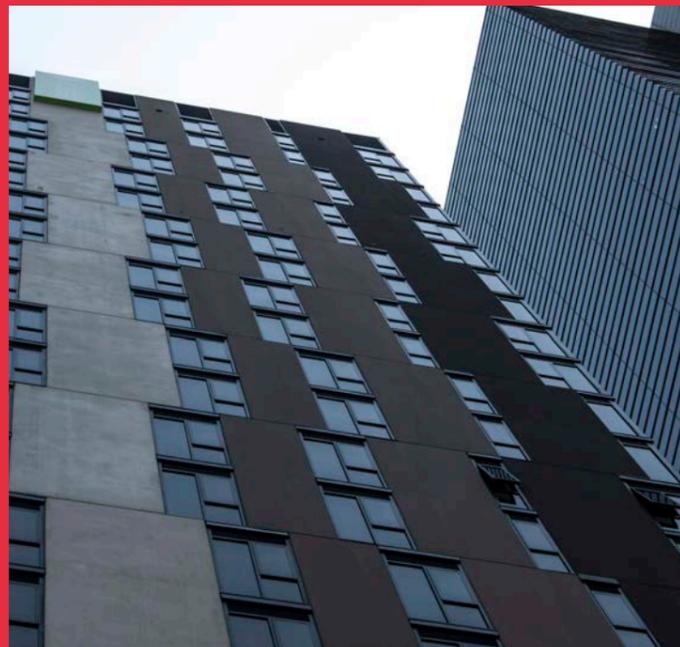
# EDGE

150 Structurally Glazed suite

- 150mm frame depth
- Same frame depth as 150 Front and Offset Glazed
- 50mm face dimensions on mullions and transoms
- Reduced head and sill sight lines to maximise the “all glass” appearance
- Accepts 24mm to 28mm IGU's
- Accepts 3M VHB structural glazing tape
- Designed for factory glazing and easy site installation
- Optional frame detail for site glazing
- Minimal external face, reduces energy loss
- Allows for vertical movement with deep sub head
- Can be installed from inside or outside the building
- Structural glazed awning sash option
- Concealed electric winder box option



Urbanest Student Accommodation  
at 312 LaTrobe Street,  
MAX™ 100 Front Double Glazed  
and MAX™ 150 Structural Double Glazed suite.



CSL Privigen Facility,  
MAX™ 150 Structural Double Glazed suite.

University of Melbourne,  
Faculty of Architecture,  
Building & Planning



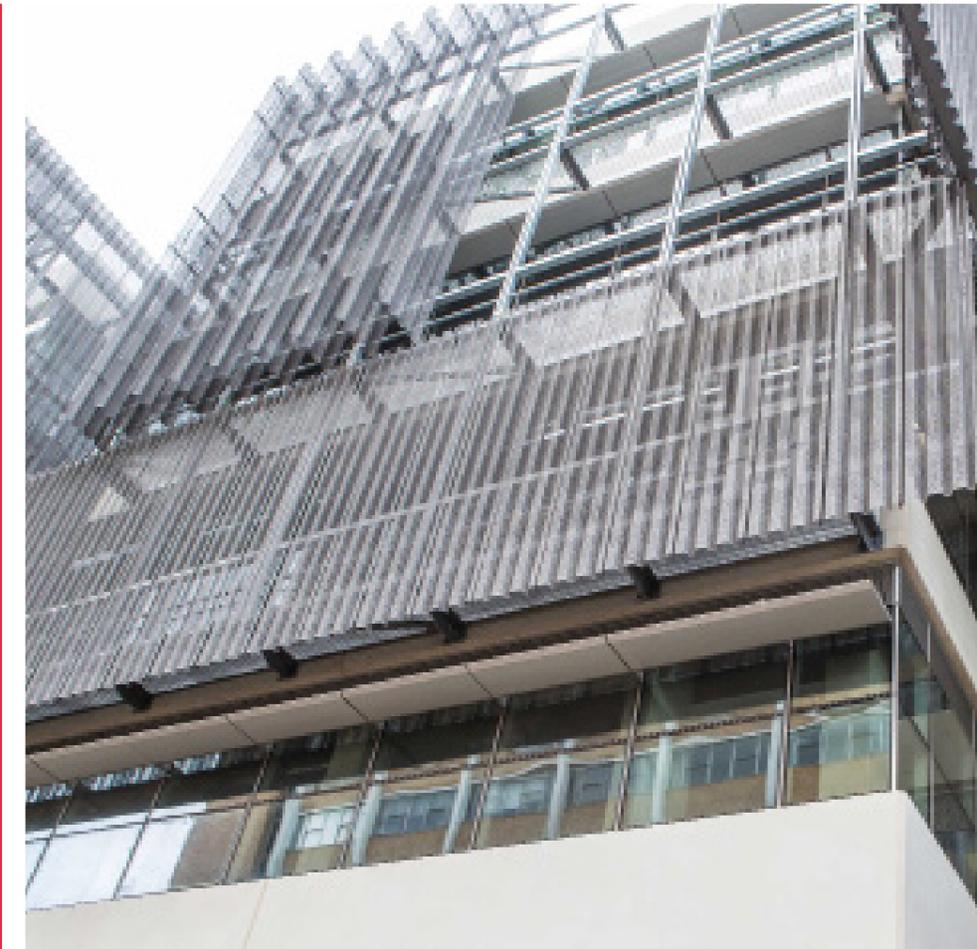
Architect:  
John Wardle Architects and  
NADAAA

Builder:  
Brookfield Multiplex

Fabricator:  
Seelite Windows & Doors

MAX™ systems:  
MAX™ 150 Structural  
Glaze with sunshade  
mullions, ventilation louvres  
and operable sashes

Green Star rating:  
6 Star



## A living building, designed to engage, promote learning

John Wardle Architects and NADAAA imagined and designed the University of Melbourne Faculty of Architecture, Building & Planning facility to inspire learning and research; the structure is itself Melbourne's pedagogical tool – using the physical spaces as resources for learning. The researcher, the student and the visitor engage with the built environment.

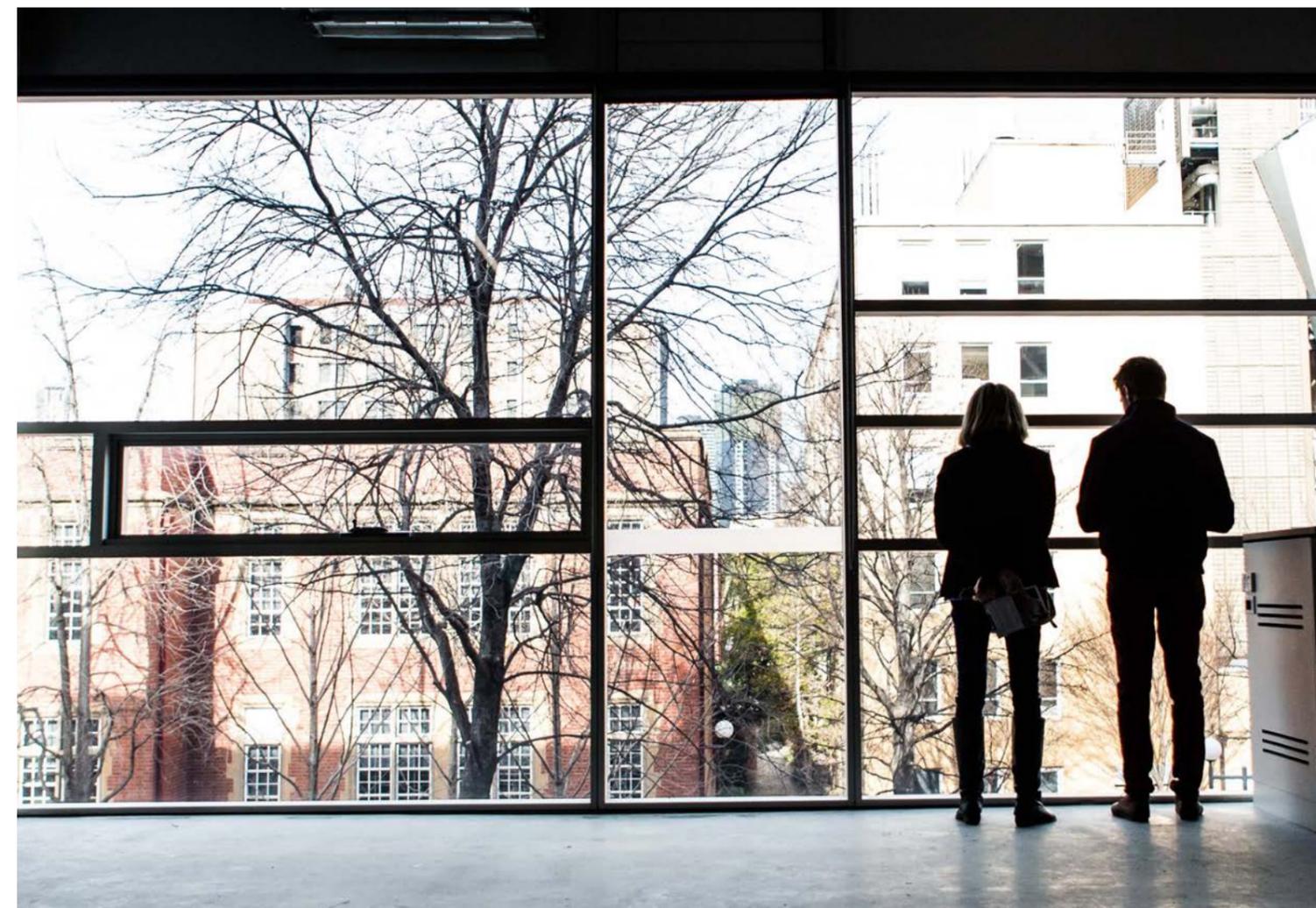
EDGE Architectural contributed to several features of the new building, including MAX™ framing systems, operable louvres, sunshade mullions and ventilation elements.

The building integrates many elements intended to help the building “breathe” by contributing to natural ventilation. The south facade features operable awning sashes that can be opened up to 125mm by individuals inside the building.

Digital manufacturing and machining of aluminium systems, including the massive glazed ceiling, was completed by our aiFAB team. EDGE Consult and Ai design talents and insight provided design and specification support, and aiPowder Coat delivered luminous finishes.

A few months before it opened, the Faculty of ABP building received a 6 Star Green Star Design - Education Design v1 Rating by the Green Building Council of Australia.

The 6 Star Rating represents ‘World Leadership’ in environmentally sustainable building practices. Only 12 buildings in Australia have received a 6 Star Green Star Education Design – v1 rating, and the ABP building is the largest to achieve this. It is also the only one to ever be awarded all 10 innovation points possible in the evaluation criteria. This speaks to the quality of the design and construction.



# LOCATION, LOCATION, LOCATION.

With EDGE Architectural, your projects benefit from local supply, local service and technical consultation, local fabrication, and locally supported warranties.



Our team imagined and developed the EDGE Architectural Glazing Systems ranges in Australia for the Australian design and building industry. We collaborated with Australian organisations to create the Australian team for energy efficient commercial window and door systems.

Choose EDGE for your next project and benefit from an ecosystem of local companies and local people that stand behind every architectural window and door frame we deliver. Our systems are comprised of local aluminium extrusions, local hardware, locally supported warranties.

Most importantly, you get a team of experts to support you throughout the life cycle of your project.

Team EDGE provides architects, facade engineers, builders and fabricators with consultative support for specification, estimation and optimisation.

Fabricators of the EDGE Architectural systems lead their industry and enjoy a reputation of excellence. EDGE Architectural's training program and ongoing support ensure they maintain a deep understanding of the systems and how the components work together for a better finished result and greater system performance.

## Rely on EDGE for capacity, reliability, flexibility

The strategic nature of the EDGE ecosystem gives us enormous capacity and great flexibility for meeting our customers' needs.

For example, we have local access to six powder coat lines and three anodizing lines. We can be nimble and responsive for large, custom or short notice projects. Our focus on finding Australian suppliers means you can rely on delivery dates and a stable supply chain.

From Mammoth's "secret formula" wheels to 3M's passion for innovation and strength, the companies in the EDGE ecosystem share our drive, dependability and dedication.

The EDGE Ecosystem - a community of people, organisations, processes and elements interacting to create a system.



## view from the EDGE

### Who is EDGE Architectural?

We are  
Problem **solvers**.  
Systems **designers**.  
Status quo **questioners**.  
Customer service **fanatics**.  
Project **partners**.  
Fresh **thinkers**.  
**Builders for life.**

EDGE Architectural Systems maintains one of Australia's most comprehensive range of shopfront and façade framing systems. Our stunning range of double glazed systems, featuring thermal break, give clients the design freedom they seek for innovative projects.

As a division of Aluminium Industries of Australia, our team of professionals all share a passion for what we do and a clear understanding that our success comes from helping our clients succeed.

We are proudly Australian yet operate with a global perspective.

**EDGE**  
Architectural Glazing Systems

A brand of Aluminium Industries

Corporate Office

160 Ordish Road, Dandenong South Victoria 3175

Phone: (+61) 3 9798 4433 | Fax: (+61) 3 9798 4499

[www.edgearchitectural.com.au](http://www.edgearchitectural.com.au)