the view

projects featuring

EDGE

Architectural Glazing Systems

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

U-MAX

EDGE
Architectural Glazing Systems

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.

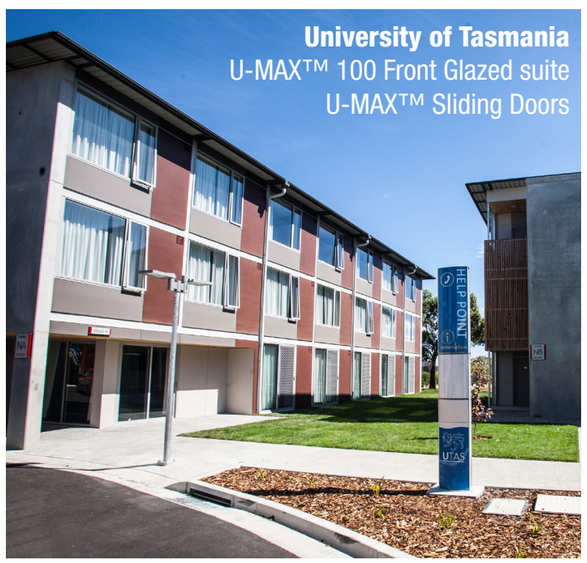
The thermal break of U-MAX™ occurs within the glazing rebate and does not interfere with the system's clean aesthetics. Suites include 100mm centre glazed and 150mm offset glazed, where the glass set-back is in the same location. The 120mm structural glazed system is designed around simplicity of fabrication and fitting pre-glazed panels on site. Factory glazing ensures glazing and curing of tapes and sealants in a controlled environment, preserving the integrity of the structural bond. The Pressure Bar curtain wall system includes a thermal isolator: 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 purchase and develop premium properties to 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™ 150 Structural Double Glazed
- 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



University of Tasmania
U-MAX™ 100 Front Glazed suite
U-MAX™ Sliding Doors

Interactive Data Storage
U-MAX™ 150 Front Glazed suite
U-MAX™ 150 Front Capped suite

Community Hub @ The Docks
U-MAX™ 100 Centre Glazed suite

Mandelville Centre
U-MAX™ 150
Structural Glazed suite

The Clarence Reardon Centre, Springvale Botanical Cemetery

Sustainable design, innovative implementation

From the outset, the planning of 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 throughout the design process.

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

Architect:
GHD

Builder:
ADCO Constructions

Fabricator:
808 Design

EDGE Systems:
U-MAX™ 150 Structural Glazed with thermally broken sun shade mullions

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

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

MAX™: the suites

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

max

MAX™, EDGE Architectural's double glazed framing suite, adopts all the products of the U-MAX™ range in non-broken form. 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 glazed and 150mm offset glazed, 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 gives 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 interchangability allows the project to maximise both energy efficiency and cost control.

Caribbean Park
MAX™ 150 Structural Glazed suites with custom-designed sunshades

Miya Apartments
MAX™ 100 Centre Glazed suite

Royal Botanic Gardens
MAX™ and U-MAX™ 100 Front Glazed suites and awning sashes

Panorama Apartments
MAX™ 100 Centre Glazed suite

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 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, inspirational, and invites public engagement.

To achieve the dynamic reflective façade and thermal performance desired, 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 and custom split mullion with fins to achieve 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 yet 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 from the Green Building Council of Australia.

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

The University of Tasmania, Institute of Marine and Antarctic Studies

GEN

EDGE
Architectural Glazing Systems

Singled glazed window and door systems enter the 21st Century.

GEN™ is Australia's new generation of single glazed architectural framing systems.

GEN™ embodies the same DNA as EDGE's U-MAX™ and MAX™ double-glazed systems. It has the same Watershed™ rainwater evacuation system with concealed transom drainage. The same captivated glazing beads which can't unseat over time. The same high performance Santoprene co-extruded gaskets, and all the other EDGE product benefits.

The design of GEN™ incorporates a larger glazing pocket than most other single glazed systems; it accepts glass from 6mm to 13.52mm. This allows for the potential of greater thermal and acoustic performance, whilst still maintaing the efficiency of a single glazed system.

A strong framing system in it's own right, we've designed GEN™ to connect seamlessly with MAX™ and U-MAX™ products. This extends project options, and allows for incorporation into building areas which require differing performance values.

Ideal for internal glazing or apartment developments, the GEN™ framing suite brings single glazed systems into the future.

GEN™: the suites

- GEN™ 100 Centre Glazed
- GEN™ 100 Front Glazed
- GEN™ 150 Centre Glazed
- GEN™ 150 Front Glazed
- GEN™ Awning & Casement Sashes
- GEN™ Inner (Jockey) Sash
- GEN™ Acoustic Framing
- GEN™ 76x35 Centre Glazed
- GEN™ 100 Base Front Capped
- GEN™ 150 Base Front Capped
- GEN™ 45 Glazed Commercial Door
- GEN™ 45 Beaded Commercial Door

The Jam Factory
GEN™ 150 Front Glazed suite

Collingwood Community Centre
GEN™ 150 Front Glazed and MAX™ 150 Front Glazed suites

Collins & Queen Apartments

Where elegance and efficiency interact

Designed by Rothe Lowman architects for BPM property developers, Collins and Queen apartments is all about contrast.

Built in the heart of Essendon, the building was made to captialize on the current enthusiasm for city-edge living. Featuring 116 apartments, 6 retail tenancies, 2 carpark levels and a communal courtyard, the project seeks to help evolve the Essendon area.

The building's aesthetic appearance is one of its main focal points. Striving for the perfect balance of urban and sophisticated, the exterior is a carefully sculpted creation of glass, steel and aluminium. The layering of windows and voids in the facade helps create a visual texture, bringing the building out from the surrounding areas.

Architect:
Rothe Lowman

Builder:
LU Simon

Fabricator:
Pacfic Shopfitters

EDGE Systems:
GEN™ 100 Centre Glazed & 100 Front Glazed suites

Due to the strong emphasis on visual appeal, GEN™ Centre Glazed was selected as the framing product. A premium single glazed framing system, GEN™ gives Collins & Queen a distinctive and refined elegance. Long-lasting durability and good structural performance for our GEN™ frames are guaranteed, without losing the efficiencies of a single glazed system.

EDGE
Architectural Glazing Systems

Structural Glaze: features

- 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

EDGE 150 Structural Glazed suite

With reduced head and sill sight lines to maximize the full glass appearance, our 150mm Structural Glazed suite is one of our most popular framing systems.

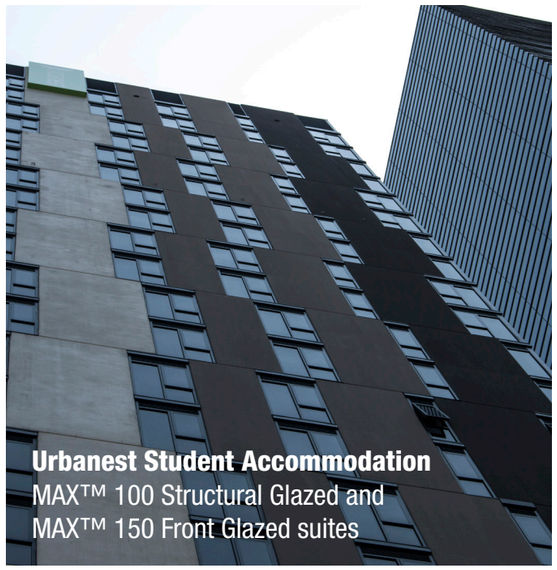
Designed to be factory glazed for optimum production consistency, our SG suite can save the costs and variabilities of site glazing. Concealed jambs allow the easy installation of pre-glazed frames without any visible fixings, and frames are able to be installed from either building interior or exterior.

In addition to SG’s sleek and smooth aesthetics, structurally glazed systems can provide a number of benefits over framed systems.

Less external metal translates to improved U-values, allowing SG systems to deliver better thermal performance over time.

Accepting 24mm-28mm IGUs within the standard 34mm pocket, our Structural Glazed system benefits from being of the same footprint as our 150mm framed systems, and can couple to framed systems as well as to hinged and sliding doors where needed. Available in both standard double glazed and thermally broken formats, it can be mixed and matched to meet different U-values on different building fronts, giving true design control.

EDGE also has a 182mm Structural Glazed suite with 40mm rebate - see our website for details.

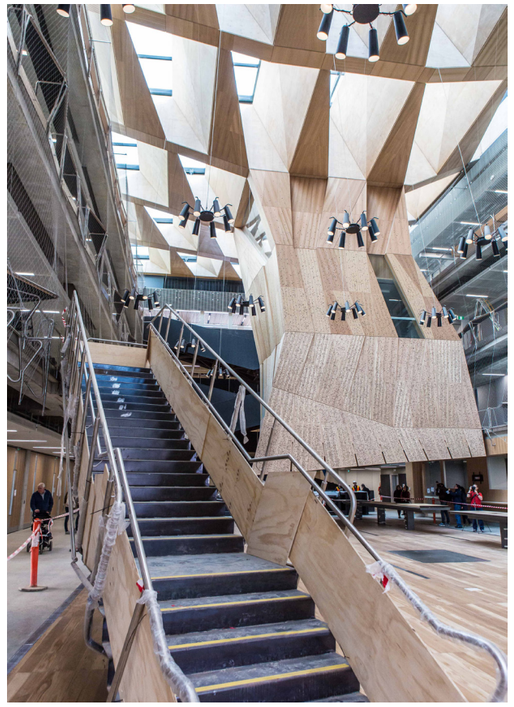


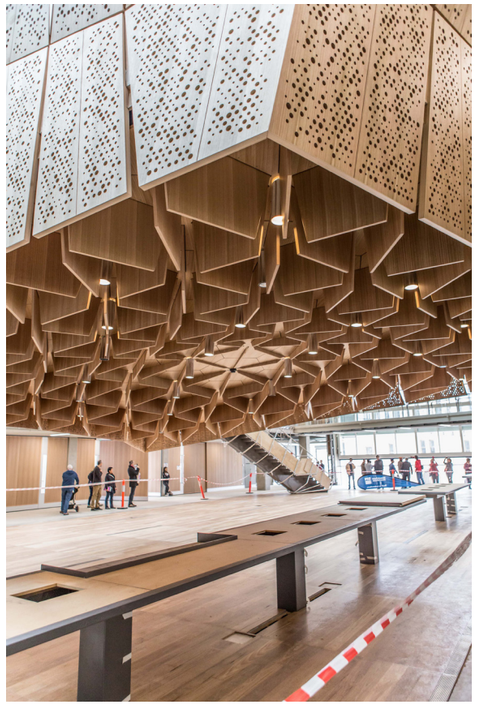
Urbanest Student Accommodation
MAX™ 100 Structural Glazed and MAX™ 150 Front Glazed suites

Lucia Apartments
MAX™ 150 Structural Glazed suite and MAX™ sliding doors

Narre Warren Business Park
MAX™ 150 Structural Glazed suite

990 Whitehorse Road, Box Hill
MAX™ 150 Structural Glazed suite with custom sunshade fins





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 and promote learning

The University of Melbourne's School of Design was designed by John Wardle Architects and NADAAA to inspire learning. The building serves a pedagogical function – the physical structure itself is a resource for research, a fantastic example of the school's possibilities. The researcher, the student and the visitor are invited to engage with the built environment.

EDGE Architectural was chosen to contribute several features of the new building, including MAX™ Structural Glazed framing systems.

MAX™ aluminium frames were selected for the improved comfort and energy efficiency that EDGE's double glazed framing suites offer. Specifically, structurally glazed frames were chosen: as well as the undeniably appealing aesthetic look, having less external metal on the facade translates to improved U-values, allowing better thermal performance over time.

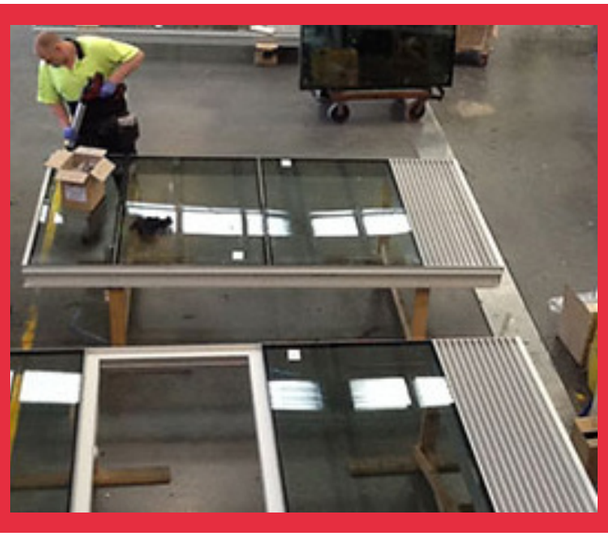
The structure also integrates many elements which contribute to natural ventilation, helping the building "breathe". The southern facade features operable awning sashes that can be opened up to 125mm by individuals inside the building. EDGE operable louvres and sunshade mullions were also incorporated.

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

A few months before it opened, the 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 16 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.

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 our energy-efficient commercial window and door systems.

Choose EDGE for your next project and benefit from an ecosystem of local companies and local people who 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.

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 count on our 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.

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

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