

MEGA



LARGE COMMERCIAL MODULAR BUILDINGS



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INTRODUCTION

Australian Modular Structures has established itself as a reputable and enduring modular construction company, operating across Australia, New Zealand, and the Pacific region.

The company's cost-effective, adaptable, and comprehensive approach has positioned us as a frontrunner in the modular construction industry.

Australian Modular Structures delivers sustainable modular buildings that offer swift and efficient solutions for various sectors.

The offsite manufacturing process reduces onsite disruption, and the structures become fully operational soon after installation.

Our skilled operations team assists customers throughout all project stages, providing a comprehensive turnkey solution for constructing modular facilities. This includes site preparation, offsite fabrication of modular components, and onsite delivery and installation.





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Large Scale Commercial Buildings

For accommodating extensive commercial projects that demand multiple uses and extra-large clear-span spaces, Mega Structures offer an ideal solution for your business. These structures offer a sturdy and secure environment that can be customised to suit your specific requirements.

At Australian Temporary Structures, we place a high value on competency and innovation across all our endeavors, especially in large-scale infrastructure projects.

Collaborating closely with leading contractors, our team handles every aspect of the project lifecycle, including structural design, offsite fabrication, module delivery, and onsite installation.

Our remarkable portfolio showcases a variety of national and international infrastructure projects.

Mega structures provide a wide range of cost-saving advantages. Their flexibility, with permanent, semi-permanent, and relocatable options, means that they require limited foundation requirements.

This makes them ideal for a variety of uses, including sporting complexes, airport terminals, rail projects, maritime ports, mining, energy, international exhibitions, film studios, and much more.



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Advantages

The Mega Structure presents a groundbreaking construction innovation. It is constructed from hard-pressed aluminum, a durable and lightweight material that can withstand severe weather conditions without corroding. Engineered by a collaboration of German and Australian experts, these structures adhere to the industry's strictest ISO standards. Resilient to all weather conditions, they can endure extreme heat, cold, and winds up to 175km/h, while supporting a snow load of 100 kg/m².

The Mega Structure system is designed to meet precise specifications and can be tailored to meet the specific requirements of each country.

Incorporating durable materials, the Mega Structure system utilises prefabricated components to reduce construction waste and encourage reuse and repurposing.

The materials are also engineered for disassembly, facilitating the recovery process.

and reuse of building materials at the end of the project's lifecycle.

The Mega Structure's modular design makes it an ideal choice for a range of functions, from airport terminals to maintenance facilities or extra-height capital equipment storage.

Its flexible configuration allows for various large-scale commercial developments, making it a top choice for any project.



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Design Concepts



Good 3D visuals are an important part of any project, our designer, Ziggy Ziegler, brings his skills to the table to provide just that. A true craftsman dedicated to making ideas come to life, Ziggy brings 30 years of experience in visualising concepts and translating ideas into reality.

Working extensively in film, TV, theatre and events, before architecture and construction, gave him the ability to listen and comprehend functional and artistic concepts and how they relate to the people that use them.

This first-hand experience gained onsite in the real world lets Ziggy literally see a project in his mind and be able to translate that into visuals that make sense. Considering all the stake holders and their requirements in the project, whilst remaining focused on creating inspired solutions at the same time.

Bringing projects to life in visuals is a passion that has been yielding amazing results across several industries in a large array of projects. Since starting incREDible Studios 5 years ago his focus has been on making these projects shine in a unique way.

From golf courses in the USA, glass structures in Dubai, terminals in New Zealand, airports in Australia, film studios in Japan, outdoor stadiums, shopping centres, race tracks, concert arenas, and retail Ziggy welcomes projects of all sizes with one specific goal, to get it right and make you smile.

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From Design to Completion

We work tirelessly on ensuring we provide the best experience in the industry. We focus on our workflow ensuring every aspect is covered and delivered to your expectations. Enabling us to provide a turnkey solution for your design needs right through to installation.

This is known as our Concept to Installation process, and it commences with you at the forefront.

We exchange insights and make an effort to comprehend your plans, collaborating to reach your envisioned results.

Based on your brief, Ziggy Zeigler formulates the concept. Crafting these designs enables us to combine our skills with your visions, resulting in the ideal space creation.

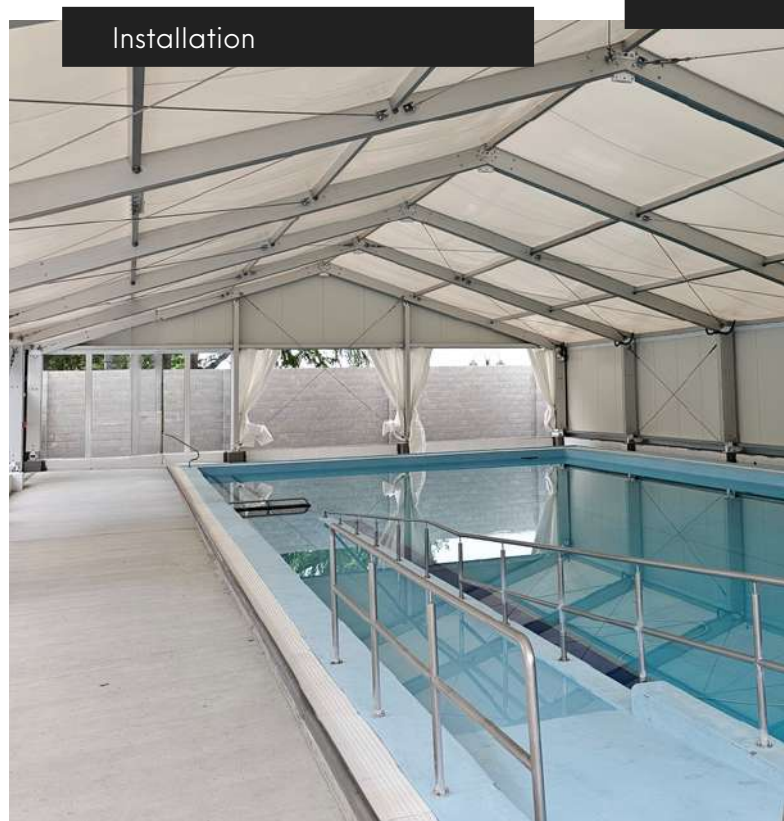
Our architects specify and document all design elements for submission to all relevant parties. One being our German engineering partners, HR Structures GmbH who manufacture the building framework, while our project management team source materials, building documentation through to installation. We provide a holistic approach to delivering your project.

We offer an ongoing maintenance program, ensuring your completed and installed building looks just as good as it did the day of install.

Concept



Installation





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Over-Sized Design

Mega Structures feature a ridge height of 8.00m, with customised heights available to meet your specific requirements. These structures have a span that ranges from 10.00m to 70.00m, with unlimited lengths of 5.00m bays. Designed with durable aluminum profiles and fireproof wall panels, our structures are built to last, meeting the highest Australian and European safety standards.

Tailor your Mega Structure package to meet your needs by selecting from a range of additional features including stage platforms, gantries, lighting, soundproofing, climate control, thermal insulation, heavy-duty floors, large roller shutter doors and ramps.

Our mezzanine system is the perfect solution for maximising floor space. By lifting functions to a second level, you can create additional space for a variety

of purposes, such as cafes and meeting areas. This not only maximises the available square footage but also provides the added benefit of covered indoor and outdoor terrace space.

Mega Structures are flat-packed for easy transportation, reducing haulage requirements and minimising our environmental footprint.



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Specifications

- Bracing System: Internal high-level bracing giving open & clear span spaces.
- Frame Construction: Hard pressed 4 groove aluminium cube profile.
- Profile Size: Profile sizes relative to situation requirements.
- Roof Covers: Steel Sheet, insulated Sandwich Panel or Thermo System
- Wind Loading: Structures are all calculated to withstand wind loading based on the physical site location, and to meet Australian and European safety standards.
- Walling: Steel-clad sandwich panels, steel sheet, facade walling system, vertical or horizontal glass walls, ABS solid wall
- Floor options. Heavy duty systems, cassette flooring.



Span Width
10.00m - 70.00m



Length
Unlimited in 5.00m bays



Side Height
Up to 8.00m



Wind Load
To site specifics



Custom
Fixtures & Dimensions available



Anchoring
As site specifically requires



Loads
Suspended loads up to 6 tonnes



Area
Free standing area over 5000 sqm



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Features



Roof Cladding

Single Layer PVC Covers

PVC Covers are flame-retardant according to DIN 4102-B1, and come in translucent and opaque, and are available in a wide variety of colours.

Poly Glass Roof PVC Covers

Our transparent Poly Glass PVC Covers allows for natural light and is an exceptional alternative to the white PVC Covers.

Gables

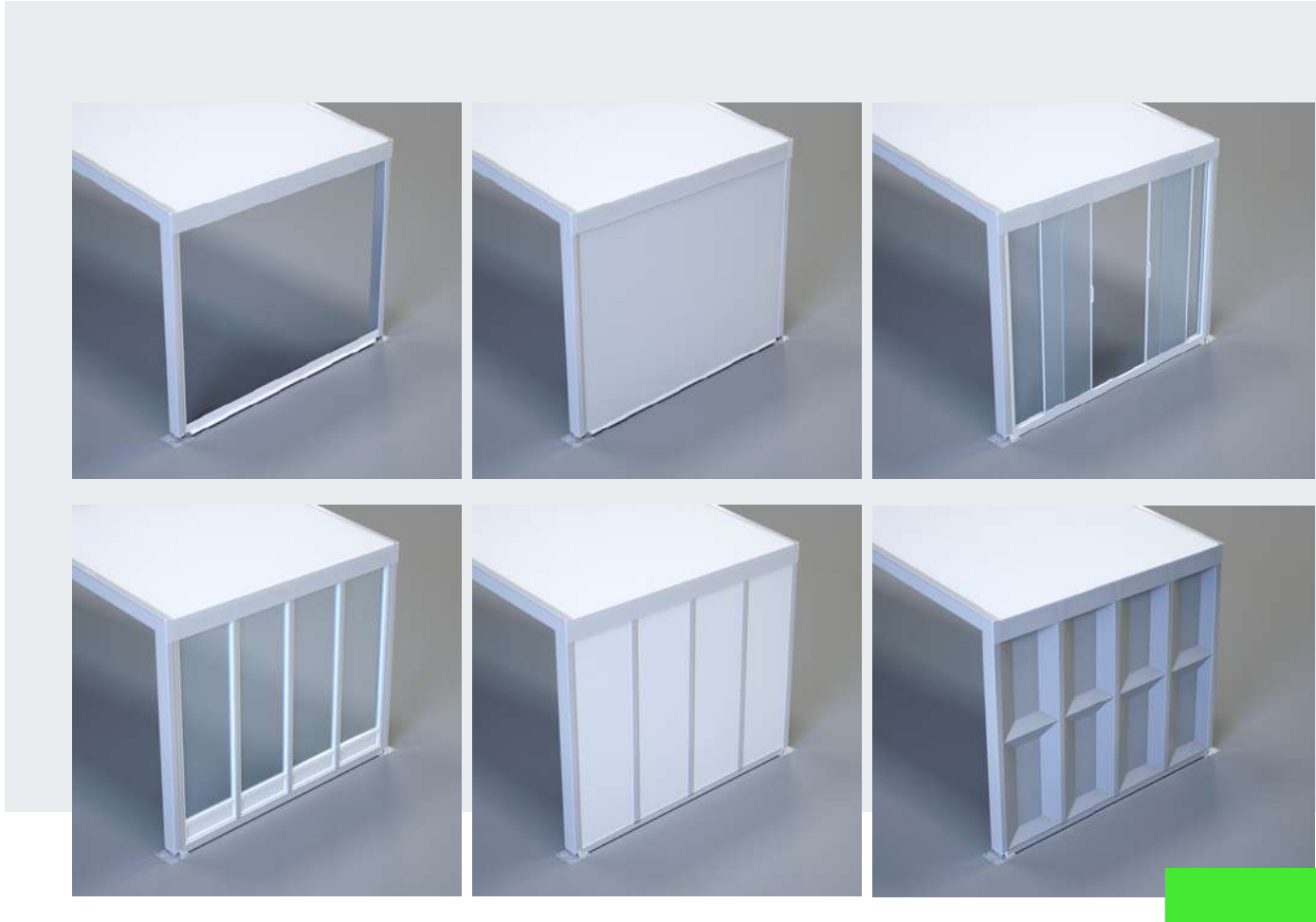
Gables come in translucent and opaque in either PVC or Poly Glass.

Sandwich Panel

The insulated sandwich element is suited for insulated structures. Available in different material thicknesses and suitable insulation values with PUR foam or mineral wool filling. Different exterior colours are also available.

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Features



Wall Panels

Vinyl Facades

The Vinyl facade ensures a higher-quality side appearance and, thanks to its strength, offers better burglary and weather protection.

Insulated Facade

The insulated facade not only ensures a higher-quality side appearance, but in addition to its better protection against burglary and weather, it also offers additional thermal insulation.

Glass Facade

Available in a variety of designs, such as vinyl or aluminum frame, uninsulated or insulated glass, in various colours and tints.

Glass Sliding Walls

Entrances and exits or window elements in various facade systems, the glass sliding walls can be installed in our facade systems and visually adjusts to match the side paneling.

PVC Side Walling

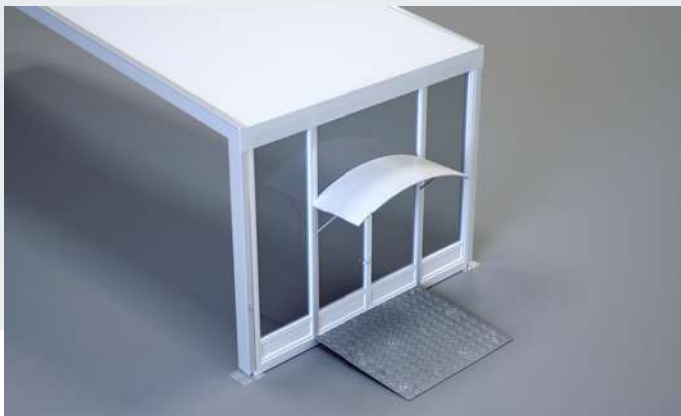
The flame-retardant PVC Covers according to DIN 4102-B1 is available in a range of colours, both translucent and opaque.

PolyGlass Side Awning

Our transparent covers for even more light is an exceptional alternative to the white PVC Covers.

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Features



Doors & Accessories

Single Leaf/Double Leaf Doors

Entrances and exits in various facade systems, the single and double-leaf doors can be installed in our structure systems and visually adjusted to match the rest of the side paneling.

Indoor/Outdoor Ramp

To enable barrier-free access to our structure systems, we offer various entry and exit ramps made of steel and aluminum.

Overhead Door Canopy

Various canopies are available separately from our doors, which visually complete your entrance area and offer weather protection for this area.

Transport Racks

Our transport racks offer optimal protection for loading and storing all structure and accessory parts.

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Features



Flooring Systems

Cassette Flooring

The visually appealing cassette floor is available with different wooden coverings and, with its lightweight aluminum substructure, has a traffic load of 350 and 500 kg/m².

Steel Substructure

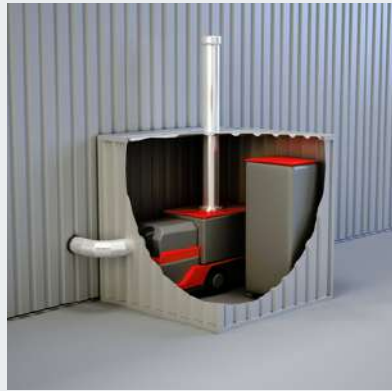
The steel substructure with wooden laying panels is a proven, solid and cost-effective flooring system that is available with a traffic load of 350 and 500 kg/m².

Heavy Duty Flooring

The heavy-duty floor is the most efficient floor system in our range, which can be quickly installed using a forklift or crane. In addition, it has a low transport volume compared to other flooring systems.

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Features



Miscellaneous Accessories

Lighting

Lighting systems including electronics are available for additional lighting in the interior of the structure.

Heating & Cooling

Mobile heating & cooling systems enable energy-saving benefits to the Mega structure.

Guard Rail

The guardrail protects the Mega Structure from external influences such as approaching vehicles.

Rain Gutter

Drain away rainwater in a controlled manner, our rain gutter includes the associated downpipes.

Stairs

We offer indoor and outdoor stairs in a variety of sizes, shapes and designs.

Internal Partitions

Internal gable partitions can be installed and connected using doors and rollers.

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Features



Anchoring

Soil Nails

Soil nails are the simplest and most cost-effective solution for temporary anchoring, as this variant can be used to fasten our structures to a wide variety of surfaces without foundations.

Dowels

Dowels are mostly used in connection with permanent buildings and concrete foundations to ensure a secure and long-lasting stability of the structure.

Floor Sealing

When closing the floor using a facade and end plate, there are different variants and options for sealing. Depending on the surface, appropriate finishing options are available.

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Structure Types

Airport Terminals & Hangars

Modular structures have several possible applications in airport expansion, including baggage claims, waiting areas, terminals, hangars, and administrative or security offices. These structures can enhance efficiency and provide a better experience for passengers.

Film Studios

We specialise in designing and constructing film studios that meet international filming industry requirements. The Mega Structure offers a quick and cost-effective solution to creating studio space, including feature-film and television production studios, as well as ancillary structures for workshops and offices.

Rail Terminals

Mega Structures are a cost-effective way to replace outdated railway station facilities and minimise site disruption during construction.

Maritime Ports

The Port and Marine industry needs the flexibility to adapt to changing priorities and to adjust to challenging location needs. Port authority buildings often require extra-large clear-span space to accommodate multiple uses, including cruise terminals, navy terminals, baggage handling, container terminals, cargo centres, warehousing, and bulk storage buildings.





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Structure Types

Sporting Complexes

Mega Structures are ideal as sporting complexes that include swimming pools, spas, sports halls, basketball courts, and gymnasiums. We can add specialised flooring, temperature-controlled installations. Our designs also incorporate office suites, administration space, cafes, break-out areas, and hygienic installations for physiotherapy and treatment rooms.

Exhibitions

We offer contemporary exhibition centre design with floor to ceiling glass elements and white panel walls that can connect to an existing convention centre. Our energy-efficient structures feature a thermo-roof solar installation with a large loading capacity suitable for events.



CONNECT WITH US

Your Innovative Partner in Modular Building

Modular buildings offer a sustainable and flexible approach to construction, allowing companies to reduce their environmental impact and promote recycling. They are ideal for companies interested in greening the building process.

Modular construction is a highly streamlined process that can see project times reduced as the structure components are manufactured offsite. And the insulated structure ensures a more consistent R-value rating.

Modular structures reduce the use of new material resources, demolition waste, construction time, and transportation costs. They also have the advantage of serving a new purpose beyond their expected lifespan.

Structures can be moved and repurposed for different functions including commercial and industrial applications such as offices, hospitals, warehouses, airport terminals, and sporting facilities. Their flexible configurations adapt well to different applications.



Discover the Future of Modular Building





CONTACT US



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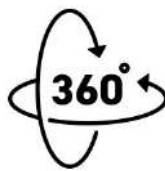
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OPTION



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