



MEGA STRUCTURES



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CONTENTS

— 03

INTRODUCTION

— 04

REVOLUTIONARY BUILDINGS

— 05

BENEFITS

— 06

OVERSIZED DESIGNS

— 07

FEATURES

— 14

STRUCTURE TYPES

— 16

PROJECTS

— 18

CONTACT



INTRODUCTION

Australian Temporary Structures is a proven, long-standing provider of modular building products, with an international delivery footprint in Australia, New Zealand, and the Pacific.

With the company's cost effective, flexible, responsive and fully integrated approach has made us a business leader in the modular structure marketplace since 2009.

Australian Temporary Structures offers sustainable modular buildings that provide fast and effective solutions for many industries.

The offsite manufacturing process minimises disruption onsite, and the structures are fully operational shortly after installation.

Our experienced operations team support customers through every development phase, offering a full turnkey solution for building modular facilities, including site preparation, offsite construction of modular components, and onsite delivery and installation.





MEGA

Revolutionary Buildings

When it comes to accommodating large commercial projects that require multiple uses and extra-large clear-span space, Mega Structures provide a perfect solution for your business. These structures provide a robust, secure environment that can be tailored to meet your exact needs.

At Australian Temporary Structures, we prioritise competency and innovation in everything we do, particularly when it comes to large-scale infrastructure projects.

Our team works closely with major contractors on the full spectrum of the project lifecycle, from structural design and offsite fabrication to module delivery and onsite installation.

Our impressive portfolio features a range 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.

MEGA

Benefits

The Mega Structure is a revolutionary construction solution. It is crafted with hard-pressed aluminum, a lightweight and robust material capable of enduring extreme weather conditions without corroding. Designed by German and Australian engineers, these structures meet the highest ISO compliant standards in the industry. With all-weather endurance, these structures can brave harsh elements, including extreme heat, cold, and winds of up to 175km/h, while maintaining a 100 kg/m² snow load.

The Mega Structure system is constructed to meet strict specifications and can be customised to fit individual country requirements.

In addition to their durable materials, the Mega Structure also employs prefabricated components to decrease construction waste while promoting reuse and repurposing.

The materials are also designed for disassembly, allowing for the recovery

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.



MEGA

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.





MEGA

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

MEGA

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

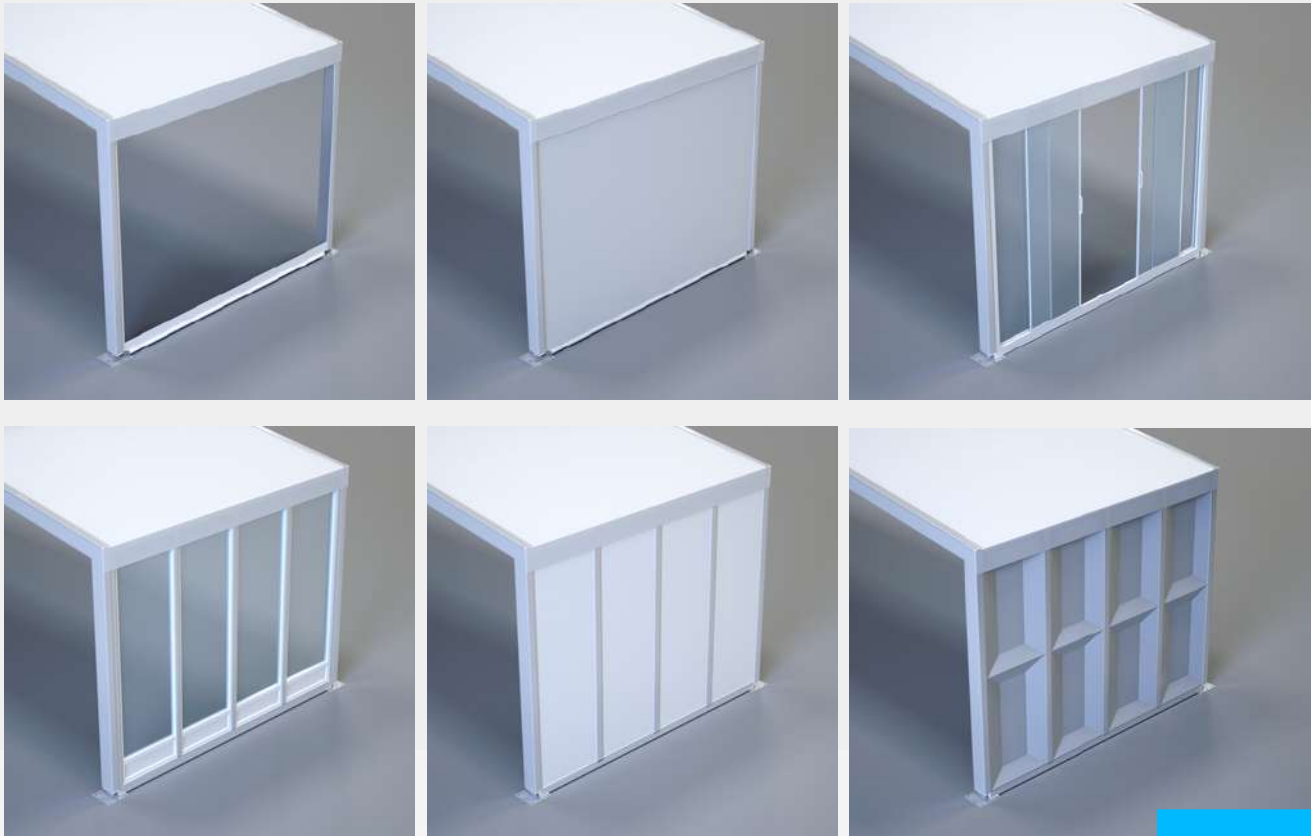
Gables come in translucent and opaque in either PVC or Poly Glass.

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.

MEGA

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

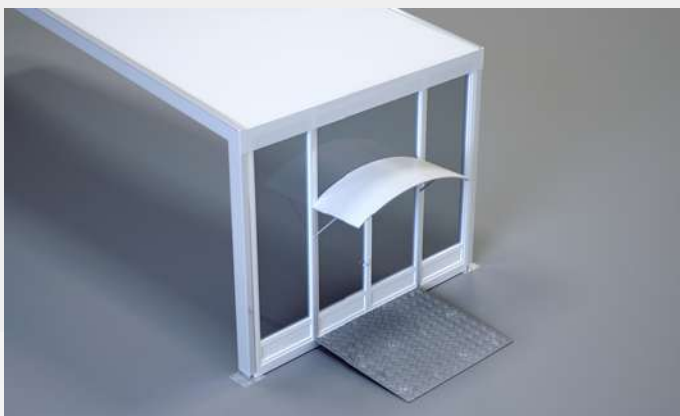
The flame-retardant PVC Covers according to DIN 4102-B1 is available in a range of colours, both translucent and opaque.

PolyGlass Side Awning

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

MEGA

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

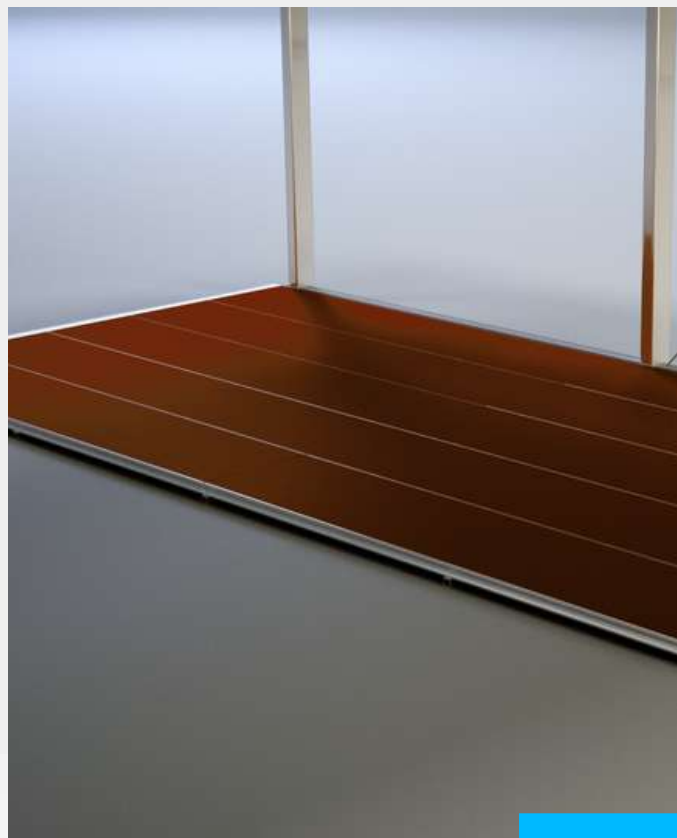
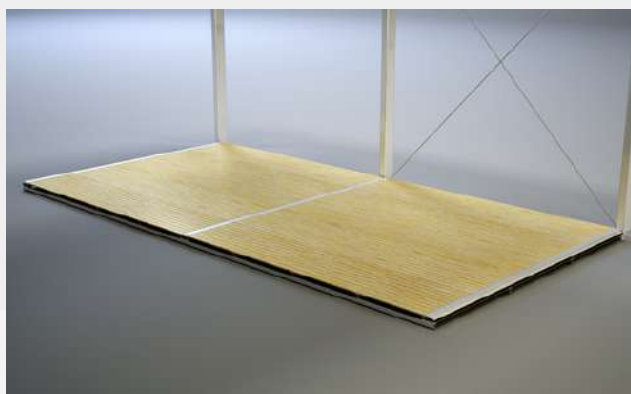
Various canopies are available separately from our doors, which visually complete your entrance area and offer weather protection for this area.

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.

MEGA

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.





MEGA

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.



aie
Institute

ats
australian temporary structures

MEGA STRUCTURE
AIE INSTITUTE CONCEPT
40.00m x 75.00m x 8.00m



MEGA STRUCTURE
HAMILTON AIRPORT CONCEPT
Thermo Roof | 40.00m Hangar Door

PARTNER 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.





Build Your Next Project





CONTACT US



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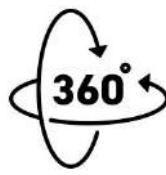
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OPTION



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