

PREFABRICATED PLANT ROOMS

**A modern solution for efficient, scalable,
and durable plant infrastructure**



WEBSITE



VIRTUAL TOURS



**Getting you running,
keeping you safe**

entec.co.nz

TYPE 1 CONTAINERISED



Built inside modified shipping containers, these rooms are ideal for projects that require rapid deployment, frequent relocation, or rugged durability. All of our containers are "new, single-use only" which means they are in excellent condition – by the time they're blasted and painted to the required specification they are effectively brand new and built to last.

- + Cost-effective and rapidly deployable
- + Easy to relocate, standardised transport dimensions
- + Rugged and easily transportable
- + Minimal site preparation required



TYPE 2 INSULATED SANDWICH PANEL



An insulated sandwich panel room is built using composite wall and roof panels made up of two steel sheets bonded to a rigid insulation core.

These panels are lightweight, strong, and thermally efficient. Depending on the room's design requirements, the panels are either mounted on an internal support structure, or are constructed without a structure, with the



wall and roof panels themselves providing the building's strength.

- + Complete flexibility of dimensions, optimise room layout
- + Cost-effective
- + Clean external finish, corrosion resistant
- + Design life up to 25 years

TYPE 3 STEEL PORTAL FRAME



A steel portal frame plant room is a prefabricated structure built around a rigid steel skeleton. The frame is made up of structural steel columns and rafters, forming a robust and self-supporting enclosure. The building is then clad externally and lined internally to suit the application.

Our Type 3 room is the ultimate in strength and longevity. Our clients specify Type 3 rooms for the more demanding applications, such as high seismic



or wind loads, long design life, or arduous fire-rating requirements.

- + Long design life (up to 50 years)
- + Seismic and wind speed performance up to Importance Level 4
- + Large internal spans with no internal columns
- + Exceptional strength and rigidity, minimal deflection for switchboards

The Process



Concept design
& estimate



Constructability
review & GA's



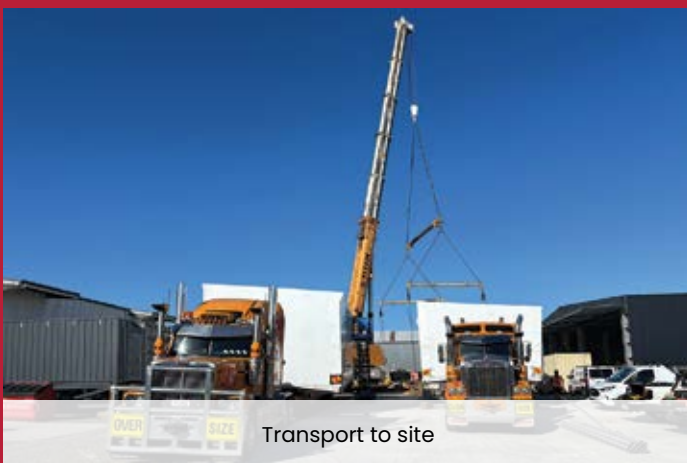
Detailed design
& quotation



Fabrication
& fit-out



Factory Acceptance
Testing



Transport to site



Installation & commissioning

We manage the entire process in-house, including the manufacture of switchboards, MCCs, and control panels through our TCE Controls division. This vertical integration means fewer moving parts for you —and a smoother project delivery.

Benefits of Prefabricated Plant Rooms

In today's fast-paced construction and industrial environments, the demand for rapid deployment, structural integrity, and long-term reliability is higher than ever. Entec's prefabricated plant rooms offer a cutting-edge solution that meet these demands.

01 SPEED OF DEPLOYMENT

Prefabrication allows for simultaneous site preparation and off-site manufacturing. This parallel workflow significantly reduces project timelines. Once delivered, the plant room can be installed and commissioned in a matter of days, not weeks.

03 REDUCED SITE DISRUPTION

On-site construction can be noisy, messy, and disruptive. Prefabricated plant rooms minimize this disruption by arriving nearly complete and requiring minimal on-site work.

These modular structures are engineered off-site, delivered ready for installation, and designed to house critical electrical systems in a secure, weatherproof, and scalable environment.

02 QUALITY CONTROL

Manufacturing in a controlled factory environment ensures consistent quality, precision engineering, and adherence to strict standards. This reduces the risk of on-site errors and rework.

04 DESIGN FLEXIBILITY

Entec's prefabricated plant rooms can be customized to accommodate a wide range of equipment layouts, access requirements, and environmental conditions. Whether you need a single-room unit or a multi-bay complex, the modular nature of these structures allows for scalable and adaptable solutions.

Design and value engineering

Entec's in-house design team delivers detailed 2D layouts factoring in all equipment within a room, along with 3D CAD models of rooms and associated equipment.

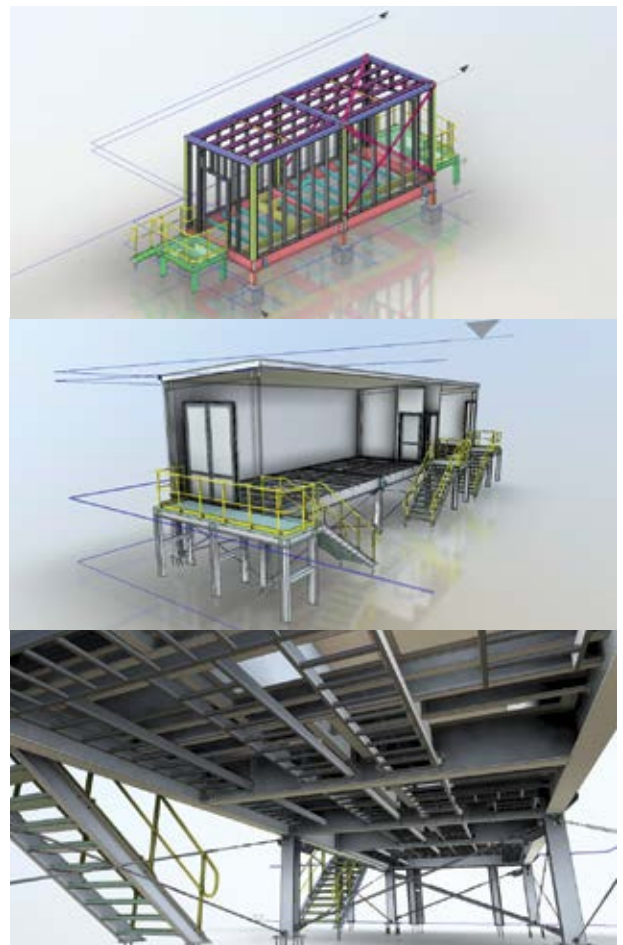
Our drawings span from general arrangements to small power layouts, fire system layouts, and elevation drawings.

We can tailor room designs to meet specific client build requirements or take the lead in developing practical prefabricated solutions for clients pursuing less technical input.

We also operate within a full BIM environment using Autodesk Revit, providing comprehensive modelling, structural data, and calculations to support complete room fabrication and integration on site.

Unlike many builders of electrical plant rooms, Entec brings its extensive experience as an industrial electrical installation contractor into the design phase. We understand what's required in order to achieve designs which are compliant, user-friendly and neither over-sized nor over-engineered.

Entec's value engineering input in the early stages of a project can lead to substantial savings in cost, space required and schedule.



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