



an EnerSys Company

# Transportable Equipment Buildings

Engineered for all Environments



When selecting an enclosure to protect critical equipment there are many aspects to be considered. With over 25 years experience in researching and incorporating the latest technologies, we understand the importance of design, construction, maintenance and upgrades, and can provide you with an innovative turn-key solution.

The strength of our structural engineering team enables us to be attentive to code requirements, reduce safety risks and advise you on the most appropriate design. Working collectively with our clients ensures continual improvements can be made to deliver the best available solution to fit your project requirements.

## Shelter Design Options

Our in-house production facility works with a vast range of construction materials to ensure you don't have to compromise your project. This allows us to deliver the ultimate in custom designs and construction quality for large and small scale roll-outs with precision results.



### Standard Range

We offer a standard range of low impact size shelters with various fit-out options which are available with minimal lead time to supply for your next project.



### Custom Design

Working collaboratively with the client, ICS can custom design a shelter solution to your particular project requirements with an extensive variety of construction and fit-out alternatives.



### Prototype and Engineer

From 3D modelling to prototype, ICS can also accommodate one-off designs, which are totally customised and engineered to the highest standards.



### Turn-Key Solutions

ICS has the capability to provide total turn-key solutions for your requirements, from design and engineering including sign off, through to supply and installation.

# Range of Shelters



## Slimline Shelters

Slimline Shelters are a practical alternative when space is an issue as they not only offer a smaller footprint, but maintain the ability of integrating full height OEM equipment racks. In addition to saving floorspace, the shelter can provide greater flexibility than a cabinet when an air conditioned environment is required and include double doors for easy access.



## Integrated Compound Shelter

The alternative solution for Greenfield locations where minimal site works and rapid deployment are project objectives. The integrated compound provides footings for Monopole or Tower and the entire compound can be relocated to another location in the future when required.



## Large and Modular Buildings

There is no limit to how large a Transportable Building can be and the savings from factory construction and fit-out are proportional to the size of the project. ICS can advise you on optimum sizes for transportation, as our buildings can be designed in modular components so that following fit-out it can be separated into building sections for transport to site, and re-assembled on-site back into one Large Equipment Building.



## Fire-Rated Buildings

ICS engineers and constructs our Fire-Rated Buildings in strict compliance with Australian Standards. Whether you require full rating to 120/120/120, inside to outside, outside to inside or both, we can meet your needs. ICS can also advise and assist you with Fire Suppression, VESDA systems and other options.

## Passive Cooled

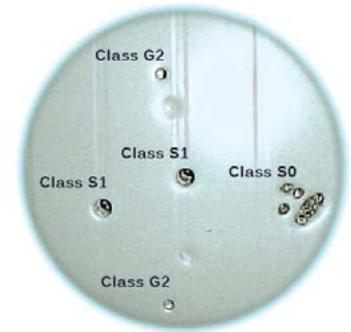
Usually required in locations where the Mains Grid power supply is either unreliable or unavailable and vented or fresh air cooling is not suitable. Passive cooling of a shelter can be achieved by installing a Thermally Transparent inner wall or establishing a Thermal Bank and then managing the airflow to establish appropriate heat transfer. ICS is able to advise on what is the most suitable method for your project, and with information about equipment heat loads and environment location for the building, we can calculate the cooling effectiveness of the Passive Shelter.



## Ballistic-Rated

ICS has developed a unique manufacturing process which ensures that these shelters comply with AS/NZS 2343: 1997, Class S0 or S1/G2. The ballistic rating is achieved through a composite layer of panels.

Alternatively, full concrete panel construction may also be used to achieve a similar ballistic rating. These shelters are typically used to house equipment in remote parts of Australia or metropolitan areas where maximum security is required for network equipment.



## Switchrooms

ICS custom builds switchrooms for the Mining, Oil & Gas Industries to house switching, control and other sensitive equipment. Often requiring cyclone rating, they contain complex electrical switching systems, advanced climate controls, internal smoke alarm and/or fire suppression systems. These shelters can be built as a complete unit and transported to site as a whole, or designed so that after construction and factory fit-out they can be separated into modules for transport to site.



## Data Centres

Our Australian manufactured Data Centres can provide you with the latest equipment, environmental controls and scalability. Our data centre facilities are engineered to support the demanding levels of security and availability for your applications, hosting, IT infrastructure and intellectual assets.



# Construction Options



## Base Frame

Whether you need to reduce costs associated with foundation work or require a lightweight shelter for better maneuverability, ICS can provide you with the following alternatives to suit your needs:

- Steel
- Concrete
- Hybrid

## Flooring

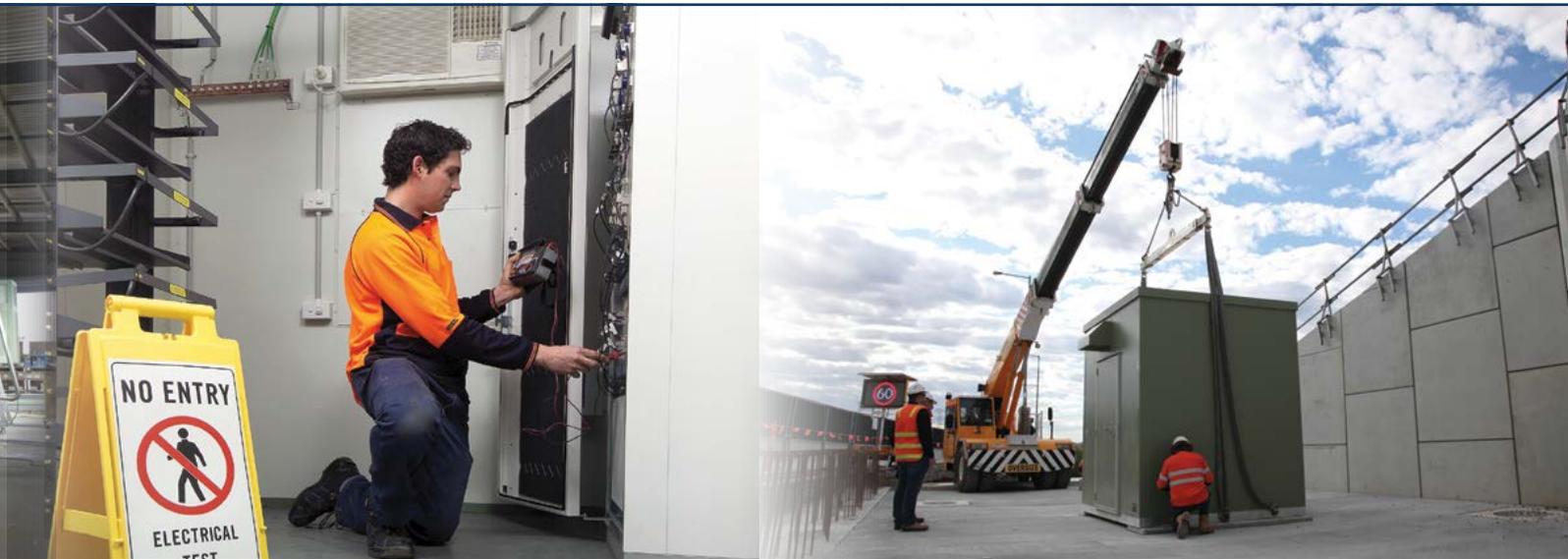
From termite resistant structural ply flooring to raised computer floors for cable access, we are equipped to accommodate an array of floor fit-out options that aligns with your overall shelter design.

- LOSP Treated
- Structural Ply
- CFC Sheet
- Computer Floor
- Vinyl
- Anti-Static Vinyl

## Walls

Depending on your shelter location and purpose, it is essential that the wall structure will satisfy your project needs regarding strength, thermal protection, security and fire protection.

- Sandwich Panel
- Steel Stud
- Concrete
- Twin Skin
- Fire-Rated
- Ballistic-Rated
- Cyclone-Rated



## Roofing

Roofing does more than keep the weather out; on the inside it provides structure for cable ladder and fibre guides, and on the outside it provides management of water flow, snow build up, solar panel mounting alignment and aesthetic blending with the surrounding environment. We are able to construct your building with a range of roofing profiles and materials.

- Skillion
- Sandwich Panel
- Pitched
- Snow Roof

## Fit-out

The internal layout and fit-out of a shelter is immensely important in achieving optimal usage of space, quality control and reducing on-site costs.

We offer specialist fit-out options for:

- Electrical Systems
- Cooling Systems
- Fire Systems
- Environmental Controls and Alarms

## Finishes

Aesthetics are important during shelter design, and selecting the most suitable external finish will complement its surroundings.

ICS can provide these following alternatives:

- Concrete
- Render
- Stone
- Heritage
- Paint
- Sandwich Panel
- Brick Tile or Faux Brick

## Electrical Options

An ICS electrical system can be specifically tailored to your requirements. We use standard, name brand components for the ultimate in reliability and ease of equipment connection.

When your shelter is installed by us, you:

- ✓ Safeguard your personnel
- ✓ Minimise the expense of on-site works and electricians
- ✓ Are supplied with factory installation and acceptance testing
- ✓ Receive a custom-designed system at pre-engineered prices



ICS also offers factory installation of customer-supplied equipment. Compared with traditional on-site installation, the result is more consistent quality, lower costs and simplified logistics. Our certified electricians and technicians can install your equipment and perform factory testing before inspection to ensure your shelter arrives on site in excellent condition and ready to connect.

## Cooling Systems

When specifying a cooling system for a specialist equipment building there are many aspects that need to be considered as internal temperature management is more critical today than it has ever been. Heat loads, rising temperatures and humidity all need to be controlled to ensure the reliability of sensitive equipment and ultimately safeguard your investment.

With over 20 years experience in developing and supplying ventilation and cooling systems for the telecommunication industry throughout Australia, we can customise a modular cooling system based on your equipment and exact requirements to activate, de-activate and cycle within your working parameters.

We can also provide you with the following key components of our Cooling Systems:



- Air-Conditioning Modules
- Economy Cooling
- AC / DC Systems
- Programmed Logic Control
- Mounting Frames
- Central Control / Management Panels
- HVAC / CRAC

# Fire Detection and Suppression Systems

## Fire Detection Systems

Advanced fire detection warning systems can be installed without the need for a special interface or software programming tools. In operation, the unique Smoke Dial display provides you with an instant understanding of a smoke event, even from a distance.

Combined with a state-of-the-art fire indication panel, this information can then be communicated to service technicians who can arrive on site fully prepared.



## Gas Suppression Systems

When protecting critical and sensitive equipment, gaseous suppression systems are a safe and environmentally friendly way to extinguish electrical fires and protect equipment. The gas suppression system delivers an automatic actuation, instantly reducing smoke and soot damage caused by fires without causing any detriment towards the equipment. The factory fit-out of your gas suppression system is specific to the shelter size and configuration, providing you with reassurance, reducing on-site costs and ultimately safeguarding your investment.

# Environmental Controls and Alarms

Protecting your building from an intruder is one thing, but optimal security involves protecting your infrastructure and sensitive equipment from environmental damage as well. Fire and water damage are enormous threats to electrical equipment.

Our control systems can be programmed to alert you to all threats that are significant and critical to your equipment.

These include but are not limited to:

- High Temperature Alarms
- Temp Sensor Fail
- Smoke Alarms
- Intrusion Alarms
- Mains Fail
- Air Con Fail
- Gas Detection

## ICS Bundled Solutions

With over 6000 specialist buildings supplied for telecommunication, mining, railway, switchrooms, fibre networks, remote monitoring, emergency services and more, all purpose designed and built by ICS.



Consultation



Design



Prototype & Engineer



Manufacture



Construct



Assemble



Fit-out & Installation



QA & Testing



Site Works



Site Delivery

*“Our vision is to be the recognised Shelter Specialist, providing equipment enclosures, associated products and solutions with professional engineering and field services Australia wide and into selected international markets.”*

# Additional Services and Support

Our Services Division can provide total care and support for your Transportable Equipment Buildings including:

- Site design, civil & electrical engineering
- Deployment, integration and decommissioning services
- Fleet management, including warehousing and logistics
- Planned & emergency services, maintenance & upgrade works

At ICS, we undertake a consultative approach towards your project. Whether you require one or all of our services offered, we can provide you with cost effective solutions to deliver consistent results.

Contact us today



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