PANEL BUILT INCORPORATED

Did You Know?

Modular Construction is GREEN!

Off-site, factory-built construction is a more controlled, "greener" building process. The centralized construction location also allows for much greater reuse and recycling of materials.

Panel walls are made with gypsum, which incorporates recycled materials.

Material waste due to weather damage is decreased as the construction process occurs in weather protected facilities.

Traffic and air pollution is reduced as workers drive shorter distances to the factory versus traveling to various job sites.

Materials for multiple jobs can be purchased in bulk quantities and delivered to a central location, thus minimizing the cost of materials and the number of deliveries.

In-plant offices and mezzanines maximize existing space, which can eliminate the need for facility expansion, take up a smaller real-estate footprint, and frequently utilize existing facility HVAC systems.

Metal products can be powder coated, which not only increases the durability and lifespan of the products, but is much more environmentally friendly. Liquid paints require the use of chemical solvents, and can release petroleum, latex and other hazardous substances into the environment. With powder-coating, unused or over-sprayed powder is contained within the production area and can be recovered, so that any waste is minimal and can be disposed of easily and safely.

Unlike traditional construction, modular building systems can be moved, re-used, and reconfigured to meet changing needs.

These are just a few of the reasons modular building systems are an excellent choice when you are looking for an economical and efficient way to expand the usable space in an existing facility, or make a new, more environmentally-friendly facility.

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Modular inplant offices

A great way to maximize your workspace

One, two and three story in-plant offices from Panel Built can accommodate any space need. Available in a variety of cores and surface finishes, these versatile structures go up in a fraction of the time and cost of traditional “stick-built” construction.

Up to three stories!

Superior construction includes studs made of high strength, extruded aluminum with painted finish on all exposed parts. Non-progressive construction means panel sections can be removed without disturbing adjacent panels.

Standard models include:

- Three inch insulated wall panels in choice of three colors.
- 22 gauge steel top decking and suspended acoustical ceiling
- Framing and all connecting hardware.
- 20 gauge steel right or left swing door with 16 gauge frame, 20”x30” window and hardware.
- Electric package includes junction box, breaker panel, light switch and duplex outlets, and 2’x4’ four lamp fluorescent fixtures. Modular wiring available.
- Step by step installation manual and drawings.

Practical Design

Our panel system is connected with aluminum binder posts, for both stability and utility. Electrical wiring can be run down the center of the post.

Core Types

VALUE CORE

Economical and efficient polystyrene core

MINERAL WOOL CORE

Hybrid and one hour fire rated panels

MODULAR OFFICE SYSTEMS

Modular inplant offices are a great way to maximize your existing workspace, providing a clean, safe area for personnel.

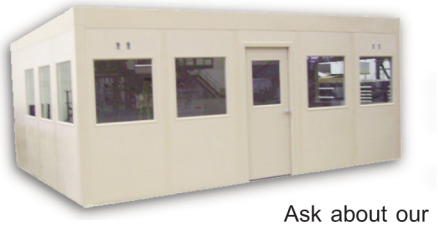
From a basic 10x10 inplant office to an environmentally controlled clean room or a multi story office complex, Panel Built can custom engineer a building inside and out to suit your specific needs.

Ask about 2-Day Quick Ship on basic models.

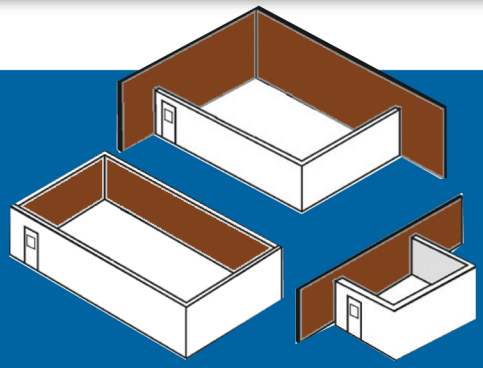
- Cost Effective Alternative to Conventional "Stick-built" Construction.
- Minimal Disruption to Surrounding Areas
- Fast and Easy Installation
- 100% Reusable and Relocatable
- Large Variety of Panel Surfaces Available
- One Hour Fire Rating Capability

A Panel Built Modular Office System is an efficient and economical choice for a variety of applications including:

- Administrative Offices
- Shipping & Receiving Offices
- Cafeterias & Break Rooms
- Conference Rooms
- Sound, Paint & Dust Enclosures
- Plant Foreman's Office
- Computer & Engineering Labs
- Clean Rooms
- Laser Cells
- Much More



Ask about our
One Hour Fire Rated Systems



Endless possibilities

Panel Built offers a wide variety of layout possibilities, with our freestanding four-wall designs, as well as two- and three-wall systems that utilize existing walls to save space and money.

Different systems

We have different core types, each has its advantages. We can help you choose.

VALUE CORE

Has an economical polystyrene core. This cost-saving system is connected with binder posts. Electrical wiring is run down the center of the post.

ONE HOUR FIRE RATED

Panel Built's One Hour Fire Rated Panel is constucted of a mineral wool core with 26 gauge steel suds and gypsum board.

The structure of a typical Panel Built building:

Quality components and solid construction are found in every Panel Built building. Our standard 3" thick wall is available in different core systems. This diagram illustrates a standard polystyrene system and the basic components of a building.

VALUE CORE
Polystyrene core with a Binder Post system

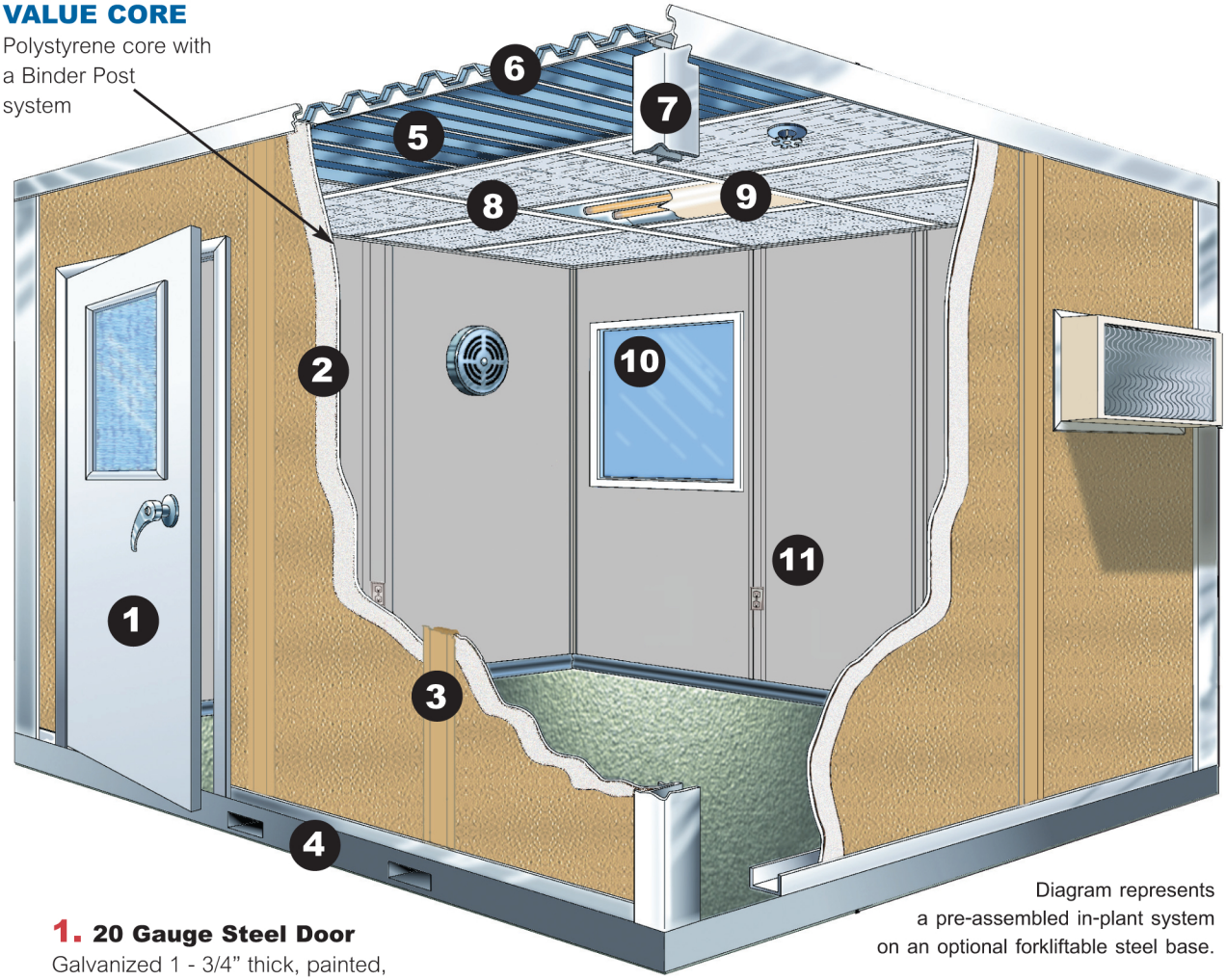


Diagram represents a pre-assembled in-plant system on an optional forkliftable steel base.

1. 20 Gauge Steel Door
Galvanized 1 - 3/4" thick, painted, with tempered glass window.

2. Value Core Panel
Polystyrene core permanently bonded to one of many available facing materials.

3. Binder Post System
Binder post connects the panels with receptacle and electrical wiring run down the center.

4. Fork/Crane Liftable Base
Optional heavy-duty welded structural steel base with full-depth fork pockets or crane mounts.

5. Steel Dust Cover
22 gauge 1 - 1/2" deep ribbed steel B-deck.

6. Foam Gasket
Provides added sound and weatherproofing.

7. Painted Aluminum Extrusions
Top and bottom channels and corner posts.

8. Acoustical Drop Ceiling
Pre-painted metal 2x4 grid accepts standard fixtures and acoustical tile.

9. Fluorescent 2'x4' Light Fixture
Includes 4-lamp fixture with acrylic lens.

10. Windows
Fixed or sliding 1/4" thick tempered glass.

11. Duplex Receptacle
Located in Binder post for Value Core systems. Data and phone also available.

Office Performance Series™

Never paint again when you use our commercial grade vinyl coated Office Performance Series. Constructed of vinyl clad 1/2" gypsum for fire and sound control, this 3" wall is perfect for offices, light duty warehouses or moderate industrial applications.

WALL	USES	INTERIOR & EXTERIOR SURFACE	BENEFITS
G/G*	interior	4-mil vinyl laminated to 1/2" type X fire rated gypsum both sides	Economical wall partition. Good for Insulation, Sound and Fire. Polystyrene or Mineral Wool Core

High Performance Series™

Panel Built's High Performance Series introduces higher durability facings to complete a 3" wall thickness, providing premium performance in structural capabilities, fire ratings, sound deadening, thermal insulation, impact resistance and durability. **Our metal facings are available in steel or aluminum.**

WALL	USES	INTERIOR & EXTERIOR SURFACE	BENEFITS
S/S*	exterior interior	.021 stucco-embossed steel; .021 stucco-embossed steel.	Attractive & durable. For limited harsh environments. Easy to clean. Weather proof surface.
S/FRP	interior	.021 stucco-embossed steel .090 fiberglass reinforced plastic	Cleanable, attractive steel. FDA approved.
S/G*	interior	.021 stucco-embossed steel; 4-mil vinyl and 1/2" type X fire rated gypsum	Attractive vinyl covered interior with steel exterior to accept harsh exposure in many environments.
AB/A*	exterior interior	.021 aluminum to 1/8 inch hardboard .021 stucco-embossed aluminum.	An economic panel with shock plate underneath for extra durability.
AB/BA	exterior interior	.021 aluminum to 1/8 inch hardboard .021 aluminum to 1/8 inch hardboard	Strong, versatile panel. Withstands heavy abuse inside and out.
AB/B FRP	exterior interior	.021 stucco-embossed aluminum FRP laminated to 1/8 inch hardboard	Very durable exterior panel with FRP interior. Great for restrooms or kitchens.
AB/BG*	exterior interior	.021 aluminum to 1/8 inch hardboard 1/8" hardboard laminated to 1/2" gypsum	Attractive, strong and durable. Built to meet most building codes. Weather proof. Great for exterior buildings.
AB/FRP	interior	.021 aluminum to 1/8 inch hardboard .090 fiberglass reinforced plastic	Lower cost interior panel. Great for restrooms.
SB/G*	interior/ exterior	.021 steel to 1/8 inch hardboard vinyl and 1/2" type X fire rated gypsum	Durable as an exterior or as an in-plant office for harsh manufacturing environements
AG/GA*	interior	.021 aluminum to 1/2" fire rated gypsum .021 aluminum to 1/2" fire rated gypsum	Our best sound panel with a class A fire rating.
FRP/ FRP	exterior interior	Standard 1/8" thick fiberglass reinforced plastic. Stucco or smooth.	Impact/scratch resistant, easy to clean. USDA approved. Doesn't support mold or mildew growth.
FRP-B/ B-FRP	interior	FRP laminated to 1/8 inch hardboard FRP laminated to 1/8 inch hardboard	Extremely durable panel often used for cleanrooms.
S/G*	interior	26 gauge steel, 4 mil. vinyl laminated to 1/2" type X fire rated gypsum	Durable steel exterior with good sound deadening interior.
S/S*	interior	26 gauge steel 26 gauge steel	Steel on both sides; great for clean rooms, very durable and easy to wipe down.
SB/BS*	interior	26 gauge steel laminated to 1/8" hardboard 26 gauge steel laminated to 1/8" hardboard	Our strongest steel panel.
1 Hr Fire Wall	interior	5/8" Vinyl coated gypsum with PBI exclusive interior system.	Safety, sound, and insurance rating code acceptance.

Roof Panels

A/A*	ext./int	.021 stucco-embossed aluminum .021 stucco-embossed aluminum	Strong economic roof panel, exterior applications, weather tight, easy to install.
AB/A*	ext./int	021 stucco-embossed aluminum 1/8" hardboard	The best roof panel, exterior applications. Weather tight, easy to install. Impact resistant.

All roof panels are available in 3" or 4" thicknesses, 3- and 4-ply. Roof and wall panels can provide additional strength by adding a steel reinforcing channel inside our panels at the factory. Roof and ceiling assemblies are available.

* **Class A-Fire Rated**

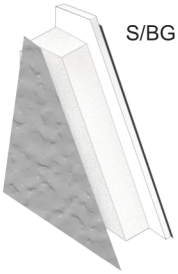
Just a few of the many surface treatments and wall types we offer.

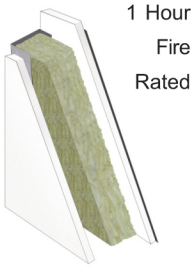
Standard Steel Colors

Beige | White

Standard Vinyl Colors

Off White | Grey | Cream





We have the system you need!

MULTI-STORY OFFICES

Elevate your office on a mezzanine to utilize wasted high-ceiling space, or gain even more space by completely enclosing your system to create a two- or three-story office complex.

Panel Built's stackable multi-story offices can provide a clear view of the facility and convert unused overhead space into productive work environments.

Multi-Story Designs:

- Provide clear view of the facility
- Maximize existing space
- Go up quickly with minimal disruption
- Meet major building codes
- Tax depreciate over 7 years
- Alternative to costly expansions
- Relocatable and expandable
- Free-standing or utilize existing walls

Office Complex with Mezzanine:

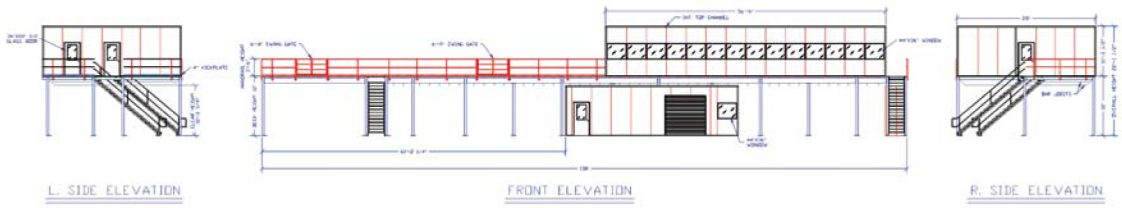
This 4,500 square foot office complex was built for Cessna Aircraft. It includes eight executive offices and a new training production line on the second level, with a break room, clean room and additional storage room on the ground level.

1. Build a mezzanine.

2. Now it's a one-story system with a load bearing roof.

3. 2nd story completed with stair system access.

The CAD drawing below illustrates the Cessna office and mezzanine complex pictured at left.



EXTERIOR BUILDINGS

A Panel Built exterior building comes pre-assembled or ready to assemble, with a complete, insulated wall system. The panels are finished inside and out, with stucco embossed steel or aluminum on the exterior side and vinyl on the inside.

We can ship your building anywhere in the world.

Advantages:

- Room to Grow: Expandable and relocatable, Panel Built's exterior wall system allows for future growth and mobility.
- Easy to Ship and Assemble: Our exterior building components can be transported by truck or shipped in sea containers and easily assembled at their final destination.
- Custom Capability: A wide selection of finishes, roof choices, accessories and custom construction allows us to tailor a building system to meet your specific needs.
- Crane or Fork-liftable: Built to heavy-duty industrial standards, our pre-fabricated structures offer a full-depth fork-liftable welded structural steel base.

Pre-Assembled Buildings

We offer a variety of prefabricated guard booth enclosures, as well as specialized electrical equipment and sub-station enclosures.

Crane-Liftable and Fork-Liftable prefabricated enclosures

Specialized custom enclosures

Powder-coated mezzanines

Utilize the wasted overhead space in your facility

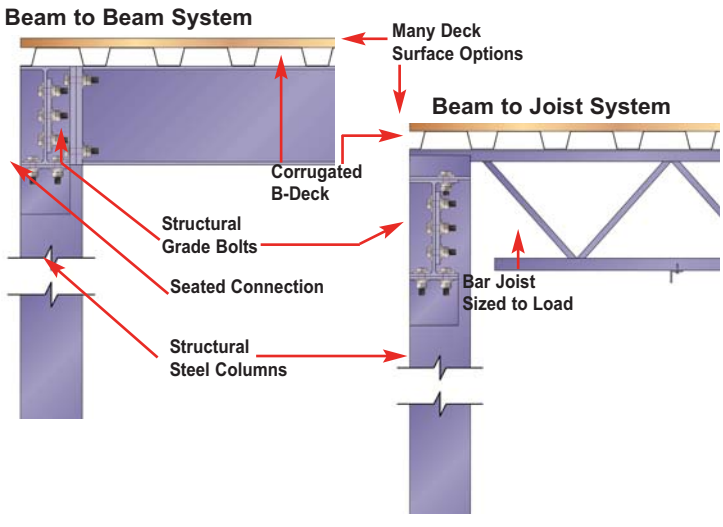
Panel Built's steel line fabricates powder-coated structural steel mezzanines and stair systems to your specifications—with custom sizes, heights, spans, decking materials and landings. Heavy-duty and long-lasting, Panel Built is your single-source mezzanine system provider.

Panel Built Mezzanines feature:

- Modular bolt-together systems
- 3-point connections vs. in-shear
- A variety of decking materials
- Sturdy handrail with 4" kickplate
- Heavy-duty columns & baseplates
- Heavy-duty prefabricated stairs and accessories
- 4-MIL powder coated steel components provide a superior level of durability against abusive, corrosive applications

Add a Panel Built modular office system for even more versatility!

We manufacture free standing structural steel mezzanine systems, pre-fabricated stairs, handrails, swing gates, openings, cantilever decks, landings, and ladders. Choose from a variety of decking materials including ResinDek, AdvanTech, bar grating and more.



CUSTOM SOLUTIONS

We are industry leaders in innovative, problem solving design. Many of our current best customers came to us when other modular manufacturers were unable to meet their needs with a custom product.

Panel Built can do the “cookie-cutter” stuff too, but we aren’t afraid of a challenge. We consistently provide unique custom- engineered solutions to meet the needs of our customers.

A three story modular office system.

Custom sliding tall-wall equipment enclosure

Challenge course with rappelling towers.

A four story air-attack training tower

Crane-liftable tilt wall operator booth with a 130 mph wind load rating.

Custom 1/2 height glass office cubicles.

Why Choose Modular?

Good Question!

The decision to choose modular over conventional construction is a good one.

By designing, pre-engineering and prefabricating in an automated controlled environment, we are able to provide you greater value over conventional construction methods.

How can modular, prefabricated buildings produce greater value?

- *Controlled factory environment* – no on-site weather problems, vandalism, theft, or set-up time.
- *Purchasing power* – bulk buying and pre-inspection of material by trained personnel.
- *Trained production workers* – more efficient than mobile and untrained field construction workers.
- *Quality control* – Inspection for pre-established tolerances and quality standards.
- *Organized production labor* – Set-up time is minimized, limiting sub-contractor coordination.
- *Engineering and designs* – produced with standards that are set forth prior to starting production.
- *Value adding designs* – standardized for the most economical solutions and fast production process.

MODULAR CONSTRUCTION	CONVENTIONAL CONSTRUCTION
Pre-designed.	Requires architectural time and expenditure.
Pre-engineered.	Requires engineering time and expenditure.
Complete detailing package: including specifications and all components necessary to place order at no charge.	Bid packages or a professional spec writer is time consuming and costly–and a poorly communicated project could be a disaster.
Quality inspected and approved materials. Volume purchasing power for lower cost.	Building materials and quality vary day to day. Increased costs due to numerous trips or additional orders for building supplies.
Prefabricated to minimize an interruption of production. (Less Time—Less Mess–Less Noise)	Interrupted operations and increased construction time, not to mention wet paint, sheet rock dust, debris, and noisy tools.
Easily expandable system manufactured to match in appearance and to accept additions.	Difficult to match existing construction after time. Added levels could require more reinforcement in structure.
Relocatable by fork-lift or crane–Disassemble and reassemble—Don't lose capital investment.	Requires demolition resulting in debris removal and higher reconstruction costs. Longer construction time.
Longer lifetime of material such as steel, aluminum, etc., for more exact fits and tolerances.	Construction materials have a distinctively shorter lifetime than materials used in modular construction.
Single source.	A reliable contractor or multiple trades must be located and coordinated for each project.
Interchangeable panels, doors, windows and other parts.	Contractors rarely use the same materials project to project.
Fast, easy and cost effective installation.	Environmental delays, plant down-time, union labor etc. can add costs to the project

Just some of the many advantages of modular construction