

# What to Look For In An Industrial Modular In-Plant Building

When evaluating an industrial modular in-plant building, it's important to assess several key factors to ensure the structure meets your operational, safety, and scalability needs. These modular units are often used for offices, cleanrooms, control rooms, break rooms, or equipment enclosures within factories or warehouses. Here's some of the things to look for:



## 1. Structural Quality & Durability

Frame & Panel Construction: Check if it uses steel framing and high-quality insulated panels (typically steel-skinned with a core like polystyrene, polyurethane, or mineral wool).

Load-Bearing Requirements: Confirm it can support any roof loads, HVAC units, or equipment installed above.

Seismic & Wind Load Compliance: Ensure it's engineered for your local building department structural codes, especially if its a two-story or rooftop unit.

## 2. Code Compliance

Building Codes: Make sure the system complies with IBC, NFPA, OSHA, and any local authority having jurisdiction requirements.

Fire Ratings: Check for 1-hour or 2-hour fire-rated walls, particularly if the unit is near flammable processes or in a manufacturing zone.

ADA Compliance: Required for any units with handicap personnel access.

## 3. Modular Flexibility

Reconfigurability: Can walls be moved, added, or adjusted later? Is it easy to expand or relocate?

Plug-and-Play Features: Look for systems that allow quick MEP connections and easy access to utilities for future changes.

## 4. Installation & Downtime

Lead Time: Evaluate how quickly the modular structure can be fabricated and delivered.

Onsite Disruption: Choose systems with minimal onsite cutting, welding, or disruption to production activities.

Turnkey Installation: Consider suppliers who handle delivery, erection, and connection to existing systems.

## 5. Insulation, Acoustics & Environment Control

Thermal Performance: Important for break rooms or labs—check the R-value of walls and ceilings.

Soundproofing: If used for offices, ensure panels are rated for acoustic control (STC rating of 35+ is typical).

HVAC Integration: Ensure it includes or can be connected to HVAC suited for the interior size and intended occupancy.



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## 6. Interior Fit-Out & Amenities

Electrical and Lighting: Built-in raceways, LED lighting, emergency lighting, etc.

Finishes: Are the interior walls, flooring, and ceiling tiles durable and easy to clean?

Fire Suppression: Sprinklers may be required—either plumbed from existing systems or standalone misting or dry systems.

## 7. Safety & Access

Exits: Multiple egress points, with proper panic hardware and signage.

Visibility: Windows or observation panels for visibility into and out of rooms.

Security Options: Locking doors, badge access, or surveillance integration.

## 8. Maintenance and Warranty

Ease of Repair: Are wall panels or doors easy to replace if damaged?

Warranty Terms: Look for manufacturers offering 5+ year warranties on structure and systems.

## 9. Cost Transparency

All-Inclusive Pricing: Ensure estimates include delivery, installation, electrical, mechanical systems, and permitting support if required.

Life Cycle Costs: Modular buildings can save long-term by reducing downtime and offering tax advantages through faster depreciation.

## 10. Reputation of the Manufacturer

Certifications: Look for ISO-certified manufacturers or those with proven experience in industrial settings.

References: Ask for past industrial clients and request to see installations if possible.

Support Services: Availability of planning, engineering, and project management support.

If you're integrating this into a larger offsite or prefab strategy, also consider how it interfaces with broader facility workflows and automation systems. Let me know if you'd like a checklist template or vendor evaluation matrix.



Innovative Space Management Solutions (ISMS) designs, manufactures, and installs smart access, storage, and modular space systems for virtually any space challenge. To learn more contact: Brodie Forrester, President [brodie@innovativespacemgts.com](mailto:brodie@innovativespacemgts.com), [innovativespacemgts.com](http://innovativespacemgts.com)

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