

INC Panl-Wall® Modular Acoustical Metal Panel System

Pre-Engineered • Flexible Modular Design • Predictable Performance • Built To Last



Our Panl-Wall® product line consists of pre-engineered, modular acoustical components ... *building blocks* ... that can be configured and assembled into a wide variety of structures used to control and reduce excessive noise in industrial, commercial, institutional and community environments. Panl-Wall® is an excellent choice for these three most common approaches to noise control:

- Enclose or isolate noisy equipment or operations
- Enclose or isolate personnel, operators and technicians
- Create controlled test and measurement environments



Typical Applications

Using the modular acoustical panel as the basic building block combined with our full range of components and accessories including acoustical doors and windows, removable access panels, ventilation and electrical systems, and all required joiners, trims, supports and hardware ... the possibilities for noise control solutions are limited only by imagination and the laws of physics.



- Machine Sound Enclosures
- Quiet Rooms
- Sound Booths
- Control Rooms
- Pulpits
- Soundproof Partitions
- Noise Barriers
- Factory Offices
- QC Rooms
- Pressurized HVAC Plenums
- Generator Enclosures
- Outdoor Noise Barriers
- Printing Press Enclosures
- Dynamometer Test Cells
- Pre-Assembled Structures
- Product Testing Chambers
- Sound Walls
- Rooftop Equipment Screens
- and many more

Let INC Design a System That Fits Your Needs and Budget



401 Airport Road • North Aurora, IL 60542
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www.industrialnoisecontrol.com

Panl-Wall[®] Pre-Engineered Components

THE BASICS

With these basic components, you can design an almost unlimited range of noise control structures. Contact INC and we'll help you explore the possibilities!

Modular Wall & Roof Panels

Prefabricated welded panel modules are used to form the walls and roof of any structure. Available in a variety of thicknesses and acoustical performance ratings, panels of like size and type are fully interchangeable making assembly and modifications easy.

Panel Joiners

Panel modules are connected using one or more of our unique joiners to form an acoustically and structurally robust joint. Our standard method is a one-piece formed H-Joiner. For greater design flexibility we also offer a bolt-together H-Joiner assembly that allows any panel to be individually removed from the structure, and T-Joiners. INC also manufactures two distinct styles of interlocking panel designs that do not require separate joiners.

Assembly & Finishing Trim Components

A complete array of additional pre-engineered assembly components such as base & top channels, corner trims, wall channels, aprons and flashings are available to make the structure complete.

Doors & Access Points

Single and double leaf acoustical hinged doors as well as manual and automated sliding doors are available to provide personnel and parts entry and exit wherever needed. In addition we offer a full compliment of access plugs and removable panels for local access.

Viewing Windows

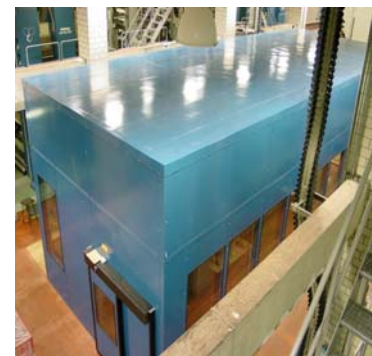
High performance double glazed window units are available in a wide range of sizes and glazing materials to suit the most critical requirements. Our windows can be sized and arranged to provide unlimited viewing access.

Silenced Ventilation

Fully silenced acoustically compatible ventilation systems are available to integrate with any Panl-Wall[®] structure. We offer a variety of ventilating fans and air conditioners along with acoustically and aerodynamically designed silencers, baffles and vent panels.

Lighting & Electric

For general lighting and convenience electrics we offer basic components for either surface or concealed mounting.



Versatility • Choices • Selection • Performance • Satisfaction

Panel-Wall® Design & Assembly Features

Modular Panel Styles & Options

To provide solutions for the widest variety of applications, Panel-Wall® features an array of related components providing high performance acoustical characteristics combined with rugged structural integrity and design flexibility. A range of basic panel constructions and joining methods are offered each providing a unique combination of acoustical and mechanical features to best meet your specific requirements.

Design Choices

INC offers three distinct panel designs to meet any application

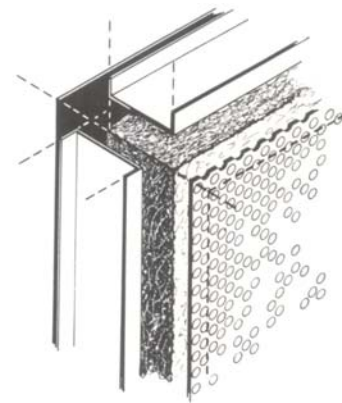
H-Member Joint

Tongue-and-Groove Plenum Style

Outdoor Interlock

Construction Options

- Standard panel thicknesses of 2" and 4"
- Panel modules available up to 48" wide X 15' long
- Standard panel performance up to STC-52 and NRC=1.05
- Standard material is electro-galvanized steel, available in G90 galvanized steel, cold rolled steel, aluminum and stainless steel
- Standard panel exterior is 18 gauge steel
- Standard panel interior is 22 gauge perforated steel
- Heavy duty construction material gauges up to ¼" steel plate
- Standard acoustical fill is 4LB mineral wool ... optional materials and protective polyethylene film encapsulation available
- All panels meet ASTM E84 Class I fire rating ... fire resistive panel construction available in 60 and 90 minute designs based on ASTM E119 criteria



Panel Construction (exploded view)

Assembly Features

- Panels and components of like type are fully interchangeable providing the greatest degree of design flexibility
- Basic standard panel assembly method utilizes our square edge panel style and one-piece formed H-Member joiner suitable for most general applications ... very easy assembly
- Roll formed tongue-and-groove panel design available for air and water tight pressurized plenum applications or where a sleek, flush joint appearance is important ... very attractive.
- Horizontal interlocking panel design available for use as outdoor noise barriers, roof top equipment screens and other structures requiring a water-shed joint design and easy installation
- Corners are built-up using our individual corner flashings and connectors or can be made using our one-piece formed corner panels for superior strength
- Several removable access panel options are available including T-Joints, bolt together joiners, and key or plug panels
- Structures greater than 15' high are assembled by stacking multiple tiers of panels
- Factory pre-assembled structures also available using Panel-Wall®



Panel-Wall® Doors and Windows

Acoustical Personnel Doors

We offer a variety of hinged and sliding doors to accommodate most personnel access requirements. Our doors are fully compatible with all Panel-Wall® components both structurally and acoustically.

Door Performance Ratings of STC-30 • STC-40 • STC-47 • STC-52

Standard Door Features & Available Options

- From 2' to 4' wide single leaf swing
- From 6' to 10' wide double leaf swing
- Standard units from 6', 7', 8' and 10' high
- Single and double sealed units
- Magnetic and compression acoustical seals
- Lift-off and level swing hinges
- Several latch and lock styles
- Panic egress hardware
- Viewing Windows
- Door closers
- Automatic door operators
- Single and bi-parting slide doors
- Custom sizes and configurations available
- Doors available in all construction materials to match panels



Acoustical Viewing Windows

Available as either integrated factory glazed units or as modular windows sized and designed to meet your requirements.

Window Performance Ratings of STC-45 • STC-52

Acoustical Window Features & Available Options

- From 12" x 12" up to 48" x 96" window size
- Double glazed using leak proof automotive grade gasket
- Moisture absorbing desiccant eliminates fogging
- Available in tempered, safety or wire reinforced glass up to 1/2" thick
- Polycarbonate or Lexan® available
- Impact resistant units available to UL Level 3 bullet resistance
- Custom shapes, slanted and cantilevered windows available



Panl-Wall[®] Options & Accessories

Factory Finishes

INC can apply expert high quality factory finishes to any of our Panl-Wall[®] components and systems including:

- Industrial duty air-dry enamel paint systems
- Catalyzed epoxy and chemical cure paint systems
- UV inhibited paint coatings
- Themec Endurashield[®] outdoor coatings
- Textured finishes

Local Access

You won't have to compromise on local access for maintenance, parts loading or unloading, inspection or other requirements with our array of options.

- Access plugs
- Removable panels
- Hinged access ports

Ventilation

A complete range of silenced ventilation packages are readily available to meet most requirements and are fully compatible with your completed Panl-Wall[®] structure.

- Ducted and non-ducted exhaust fans
- Silenced vent panels, baffles, and plenums
- Ducted and non-ducted air conditioning units
- Acoustical louvers and silencers

Lighting & Electric

A variety of electrical accessories are available that can be incorporated into your system including:

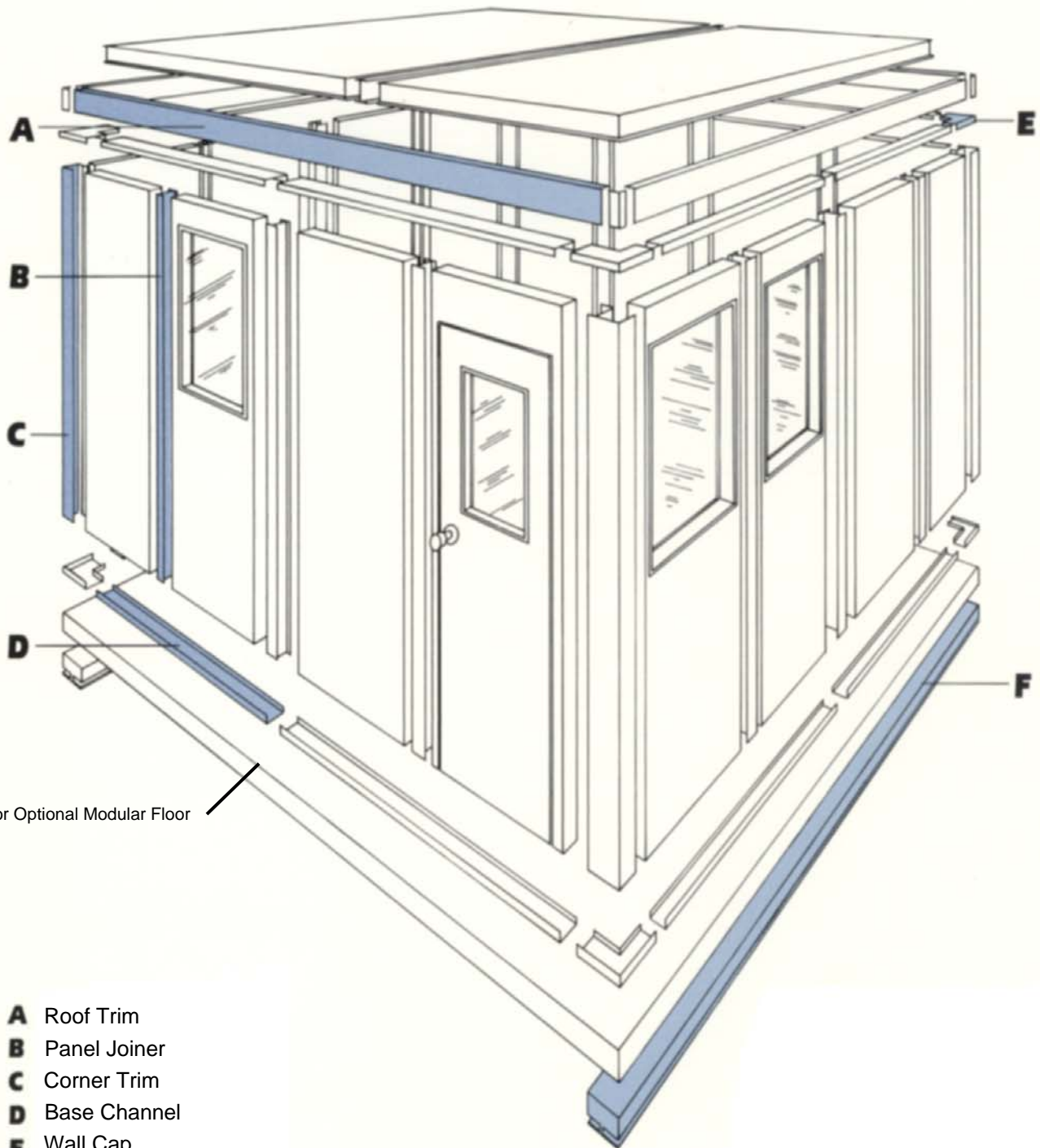
- Convenience wall receptacles and switches
- Several styles of lighting including fluorescent with discreet ballasts
- Load and distribution centers
- Exposed or concealed wiring packages
- Telephone & data lines

Structural Integrity

Panl-Wall[®] components are designed to be structurally robust resulting in typically self-supporting structures that meet all normal use codes. For applications subject to increased load bearing requirements such as outdoor structures subject to wind and snow loads, seismic applications, or for very large expanse or unusual structures, INC can design and manufacture a completely integrated structural support system that will meet the project criteria.

Standard Options Custom Results!

Panel-Wall® Easy To Assemble Components



Base or Optional Modular Floor

- A** Roof Trim
- B** Panel Joiner
- C** Corner Trim
- D** Base Channel
- E** Wall Cap
- F** Optional Vibration Rail
(For Use With Modular Floors)



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