

INC[®] Outdoor Noise Barriers *ONB Modular Acoustical Panel System*

Pre-Fabricated • High Acoustical Rating • Weather Resistant • Easy Installation



Our Panl-Wall[®] Outdoor Noise Barrier (ONB) product line consists of pre-engineered, modular acoustical components ... *building blocks* ... that can be easily configured and assembled into enclosures, screens, partial enclosures and barriers to provide sound attenuation for all kinds of outdoor industrial, community and environmental noise problems.



Typical Applications

Our horizontal interlocking panel design creates a sleek, weather resistant assembly that combines high acoustical characteristics with robust structural stability to stand up to the elements. Available in either a high STC sound barrier only version, or our soft side barrier absorber combination, these 4" thick modules are easy to assemble into many varying configurations.



- Rooftop Equipment Screens
- Transportation / Highway Sound Barriers
- Outdoor Utility Enclosures
- Cooling Tower Enclosures
- Chiller Screens
- Generator Enclosures
- Airport Sound Barriers
- Loading Dock Screens
- Air Conditioner Enclosures
- Transformer Enclosures
- Substation Barriers
- Deep Well Pump Enclosures
- and many more



Let INC Design a System That Fits Your Needs and Budget



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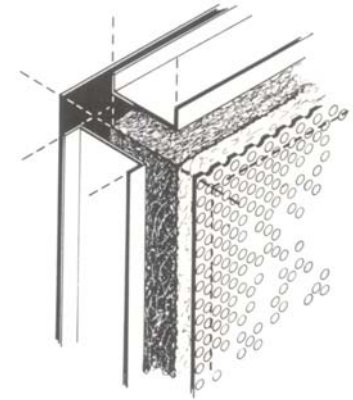
INC[®] ONB Design Features

Modular Panel Construction & Options

To provide solutions for the widest variety of applications, Panl-Wall[®] ONB Outdoor Noise Barrier System features an array of related components providing high performance acoustical characteristics combined with rugged structural integrity and design flexibility.

Construction Options

- Standard panel thickness of 4"
- Panel modules available up to 48" high X 12' wide
- 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 absorptive panel interior is 22 gauge perforated steel
- Heavy duty construction material up to 12 gauges
- Standard acoustical fill is 4LB mineral wool ... optional materials and protective polyethylene film encapsulation available
- All panels meet ASTM E84 Class I fire rating



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 horizontal interlocking tongue-in-groove panel design providing a water-shed joint design. Modules stack up between support posts.
- Corners are built-up using our individual corner flashings and connectors
- Design accommodates most required structure heights.
- ONB panels can be ground mounted upon footings, curbs, or pillars; or rooftop mounted.
- ONB barrier panels shall withstand wind velocities up to 100 MPH when installed in a properly designed support frame. Designs for specific wind and seismic loading is available.

Factory Finishes

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

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

Structural Integrity

Panl-Wall[®] ONB 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.

INC[®] ONB Applications



Airport Sound Barrier Wall



Municipal Deep Well Pump Enclosure



Variable Frequency Drive (VFD)
Sound / Weather / Security Enclosure



Gas Compressor Sound Enclosure

Standard Options Custom Results!

Additional INC Product Information

If you are considering an INC[®] ONB Outdoor Noise Barrier System you may also find these additional INC publications of interest:

- √ **INC Pre-Assembled Noise Control Structures** (Bulletin # 003-1002)
- √ **INC Test & Measurement Chambers** (Bulletin # 005-1001)
- √ **INC Tongue-and-Groove Plenum Panel Specification** (Bulletin # 002-1002)
- √ **INC Dyno Test Rooms for Powersports Industry** (Bulletin # 001-3004)
- √ **INC Flexi-Sorb[®] Noise Control Curtain Systems** (Bulletin # 006-1002)
- √ **INC Panl-Wall[®] Modular Acoustical Metal Panels** (Bulletin # 002-1006)



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