

# Acoustical Enclosures Modular Systems

## Modular Systems, Modular Walls & Enclosures, Tongue and Groove Systems

### Modular Systems

The IES-2000, Inc. modular system:

- Guaranteed acoustical performance (single source responsibility)
- Easy and quick to install, move or reconfigure
- Standard components-custom solutions
- No construction mess
- Tax benefits

IES-2000, Inc. technical support personnel and representatives have the experience necessary to assist you in the design, supply and installation of your noise control solution. Submittal packages include drawings and easy to follow, step-by-step instructions to allow your personnel to install any modular system. We can also offer professional installation service or supervision of your crew.

### Modular Walls & Enclosures

- Modular Wall and Enclosure Systems
- Mylar, Polyethylene, or Fiberglass Cloth Lining
- Framed Cutouts/Opening
- Primer or Finish Paint
- Different Panel Constructions are available
- Different Material Construction; i.e. Stainless Steel
- Standard & Custom Doors: Hinged, Sliding, and Automatic
- Application Driven Designs – User Friendly

### Tongue and Groove Systems

IES2000 standard Acoustical/Thermal Panels are fabricated with an 18 gauge G90 galvanized solid steel outer skin, and 16 gauge galvanized solid steel channel frames filled with mineral-glass fiber acoustic/thermal fill.

#### Options:

- Tongue & Groove
- Mylar, Polyethylene, or Fiberglass Cloth Lining
- Framed Cutouts/Opening
- Primer or Finish Paint
- Different Gauge Construction
- Different Material Construction; i.e. Stainless Steel
- Special Configurations: Perf/Perf, Solid/Solid, Perf/Solid/Perf
- Different Insulation Materials and Densities

Panels are protected by an inner skin of 22 gauge G90 galvanized perforated steel sheet with 23% open area (3/32" holes on 3/16" staggered centers). Available with various insulation materials, densities and gauge construction.





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## Modular Walls and Enclosures, Tongue and Groove Systems

### Modular Systems Product Data

#### Flexibility:

- Unlimited size, design and features
- Multiple panel types to meet your specific requirements
- Interior or exterior use
- Electric posts available for outlets and switches

#### Accessibility:

- Single leaf and double leaf doors
- Sliding doors, pocket doors and bi-fold doors available
- Hinged and removable access plugs
- Removable panels
- Single glazed or double glazed windows

#### Modular System:

- Can be used as a barrier wall
- Can be used as a two- or three-sided enclosure tied into existing building walls
- Can be used as a four- sided enclosure
- All design configurations available with or without roof
- System flexibility permits angled walls
- Isolated floors are available
- Silenced ventilation systems are designed to meet your specific requirement
- Enclosures can be relocated or reconfigured at a later date
- Pre-engineered modular system "kit" includes all components necessary to complete your noise control solution
- All materials are non-combustible
- Panels and connectors are constructed of A60 "paint- ready" Galvan-

neal steel

- G90 spangled galvanized construction is available
- Prime painting or finish polyester powder coat paint available in a wide selection of color

#### Modular Solutions to Noise Problems

- Machinery Enclosures
- Test Cells
- Printing Plant Quiet Rooms
- Barrier Walls
- Quality Control Test Areas
- Thermal Spray Rooms
- Coordinate Measuring Machine Rooms
- Process Enclosures
- Factory Offices
- Control Rooms
- Power Plant Offices
- Guard Houses
- Quiet Rooms-Single or Double Wall
- HVAC Plenums
- Blower Enclosures
- Compressor Enclosures
- Recording Studios
- Broadcasting Facilities
- Educational Study Centers
- Music Practice Rooms
- Voice Isolation Booths
- Audiometric Test Rooms
- Hearing or Speech Test Centers

### Modular Walls and Enclosures - Acoustical Performance

Product	Octave Band Center Frequencies (Hz)						
	125	250	500	1K	2K	4K	NRC
C-2"	22	24	34	45	49	52	37
D-4"	23	29	40	49	51	54	40
XHD-4"	24	31	45	53	54	55	42

Product	1/3 Octave Band Center Frequencies (Hz)						
	125	250	500	1K	2K	4K	NRC
C-2"	0.32	0.81	1.11	1.09	1.02	0.94	1.0
D-4"	0.75	1.1	1.15	1.08	1.04	1.05	1.0
XHD-4"	0.72	1.1	1.2	1.09	1.04	1.06	1.1

### Tongue and Groove Systems - Acoustical Performance

Product	Octave Band Center Frequencies (Hz)						
	125	250	500	1K	2K	4K	NRC
2 1/4" Panel (TL in dB)	22	29	40	48	54	60	41
4 1/4" Panel (TL in dB)	21	24	35	43	52	57	37

Product	1/3 Octave Band Center Frequencies (Hz)						
	125	250	500	1K	2K	4K	NRC
2 1/4" Panel (TL in dB)	0.31	0.82	1.19	1.12	1.07	1.06	1.11
4 1/4" Panel (TL in dB)	0.86	1.09	1.22	1.06	1.05	1.04	1.10



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