

# INC<sup>®</sup> Test & Measurement Chambers *For OEM Product Testing & Verification*

**Controlled Acoustic Environment • Repeatable Test Accuracy • Durable**

## Typical Users

- ✓ Universities
- ✓ OEMS
- ✓ Testing Laboratories
- ✓ Government
- ✓ Aerospace
- ✓ Medical Research Facilities
- ✓ Communication Centers

The INC Custom Engineered Solutions Group can design and manufacture an engineered test chamber that will provide a specific, controlled acoustical environment in which to perform accurate and repeatable testing of many types. From a table top chamber to a small vehicle test room, we will custom design a system specifically for your testing criteria. Our systems can provide high acoustic isolation from ambient environment, low interior noise level, with reverberation or anechoic characteristics.

## Applications

- Shake & Rattle Tests
- Automotive Parts testing
- Electrical Component Testing
- Siren QC Test
- Speaker & Sound System Testing
- Office Machine Testing
- Computer Component Testing
- Small Appliance Test
- Small Sample STC Test
- Speech Isolation Chambers
- Dynamometer Testing
- Aerospace Parts Fatigue Testing
- Military SCIF
- Impact Noise Testing
- RFI & X-Ray Shielded Chambers
- .... and many more



**Cost-Effective Testing From INC!**



401 Airport Road • North Aurora, IL 60542  
800-954-1998

[www.industrialnoisecontrol.com](http://www.industrialnoisecontrol.com)

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## Design and Construction Basics

Our general construction method will depend largely upon the design and performance criteria specified for any given project. For most generic testing applications we will typically base the design around using our modular acoustical panel system called Panl-Wall<sup>®</sup> and incorporate unique construction techniques necessary to achieve the required acoustical environment and characteristics.

For more robust structures requiring greater portability, maximum acoustical performance and resistance to severe environments, we may begin with a complete, fully welded structural sub-frame upon which we will construct walls and ceiling with either pre-engineered modular components or built-up insulated construction with steel skins.

**Design Choices** INC offers these distinct construction designs to meet any application:

**Modular Erect On-Site**

**Factory Pre-Assembled**

**Fixed or Portable**

### Available Features

- Modular or Unitized Construction
- Pre-assembled Small Test Chambers
- Source / Receiver Room Suites
- Single or Double Wall Construction
- Compatible Lighting & Silenced Ventilation
- Instrumentation Sleeves and Cable-Passes
- Variety of Doors
- Free Field Interior Using Flat or Wedge Sound Absorbers
- Diffuse Field Interior Using Damped Steel
- ASTM E84 Class I fire rating ... fire resistive panel construction available in 60 and 90 minute designs based on ASTM E119 criteria



Reverb Room Interior



Anechoic Room Interior

### Factory Finishes

INC can apply expert high quality factory finishes to any of our Pre-Assembled Structures:

- Industrial duty air-dry enamel paint systems
- Catalyzed epoxy and chemical cure paint systems
- UV inhibited paint coatings
- Tnemec Endurashield<sup>®</sup> outdoor coatings
- Textured finishes

### Performance Enhancements

- RFI / EMI Shielding
- X-ray Shielding
- Ballistic Impact Resistance
- Outdoor Weather Resistance



Factory Wiring

# INC<sup>®</sup> Test & Measurement Chambers



## ***INC Custom Engineered Solutions***

**Analysis • Design • Manufacture • Turnkey Solutions • Results**

*Uniquely Applying Our Expertise to Your Specific Project Needs*

INC manufactures and distributes a broad range of high performing products and structures used to solve the most common to the most unusual and complex noise control applications ... from a simple soundproof partition to a jet engine test cell ... INC does it all. We are unique in our ability to provide truly customized systems in a timely and cost-effective manner. With INC, your specific project needs and performance goals will never be compromised simply to fit into a standard product offering or pre-conceived solution.

Our Custom Engineered Solutions Group provides structures used for three basic approaches to noise control:

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

Our line of Test & Measurement Chambers falls squarely in the center of our Custom Engineered Solutions activity and as such, we do not have a list of standard sizes and configurations. Each is designed to meet the criteria that you require and is unique in that regard. For INC to prepare a proposal and price quotation we need you to tell us about the performance requirements you are seeking including acoustics, aesthetics, me-



## **Additional INC Product Information**

If you are considering an INC Pre-Assembled Noise Control Structure you may also find these additional INC publications of interest:

- ✓ **INC Panl-Wall<sup>®</sup> Modular Acoustical Metal Panels** (Bulletin # 002-1006)
- ✓ **INC Outdoor Noise Barriers** (Bulletin # 004-1003)
- ✓ **INC Pre-Assembled Structures** (Bulletin # 003-1001)
- ✓ **INC Dyno Test Rooms for Powersports Industry** (Bulletin # 001-3004)
- ✓ **INC Custom Engineered Solutions** (Bulletin # 016-1002)



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