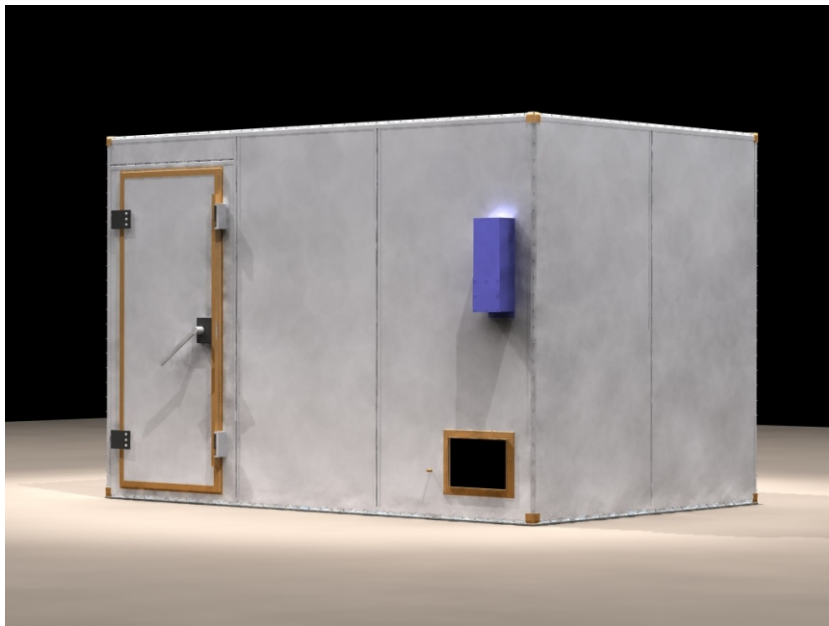


QuietShield-MOD



The Raymond RF Modular R.F. Shielded Enclosure System combines our exceptional shielding products to create a high performance R.F. Shielded Enclosure suitable for virtually any shielding application. With superior design flexibility and an extensive list of options, Raymond RF can design, install and certify the perfect Modular R.F. Shielded Enclosure System to satisfy even the most stringent client requirements.



Key Features

- Full Turnkey Solutions
- Complete line of options
- Versatile Design Capabilities
- Wide Range of Applications
- Easy Installation
- Complies with Industry Standards
- 2-Year Limited Warranty
- Standard R.F. Shielding Effectiveness:
- 100 dB from 1 Mhz to 60GHz

Full Turnkey Solutions

We offer the Raymond RF Modular R.F. Shielded Enclosure System as a full turnkey solution starting from the design phase through to the on-site installation and R.F. Shielding Effectiveness certification complete with any electrical, HVAC, life-saving system or seismic requirements.

Our basic Modular System consist of solid core panels, made from two 28 gauge galvanized steel panels laminated to a high density wood core, clamped together using a 1/8" galvanized roll-formed framing system. Special tri-lobular rolling/thread-forming TORX fasteners set on four inch centres of the framing system ensure an RF-tight seal while providing even compression down the entire length of each piece of framing. Corners are sealed using bronze cast tetrahedral corner caps.

From the original designer of the QuietDoor, The standard R.F. Shielded Door for our Modular System is our manually-operated QuietDoor-MOD, which can be easily integrated into our System

QuietShield-MOD



Complete Line of Options

- R.F. vestibules for maintaining enclosure integrity during personnel entry and exit
- R.F. power line filters for bringing AC or DC power into the enclosure
- Full internal electrical distribution including load centre, power outlets and light fixtures
- R.F. signal line filters for bringing control voltage in and out of the enclosure
- Honeycomb waveguide air vents for heating, ventilation and air conditioning including dielectric ductwork canvas collars for properly connecting incoming parent building ductwork to the air vents
- Brass bulkhead connector panel
- R.F. connectors and filtered feedthroughs
- Copper screen panels for viewing windows (reduces overall R.F. shielding effectiveness)
- Waveguide pipe penetrations for water- or gas-based fire suppression systems
- Waveguide pipe penetrations for bringing fibre optic cables into and out of the Enclosure
- Absorber and ferrite tile lining
- Cosmetic finishes including drop ceiling, commercial-grade vinyl floor tile, raised computer floors and cosmetic wall finishes
- Functional finishes including ESD floor tile, acoustic wall finishes and sound-proofing panels

Versatile Design Capabilities

Our Modular System can be expanded or reduced to meet virtually any size requirement while maintaining its R.F. Shielding Effectiveness performance characteristics. Smaller modular enclosures are designed to be free standing structures whereas larger enclosures can be easily tied into parent room walls and ceilings where support is required. For seismic locations or locations where support from the parent building is not possible, enclosures are supported with specially designed and engineer-approved support structures that meet local zone ratings.

Our highly experienced team of engineers and draughtsmen works directly with the client to ensure optimum room layout and conformity to both client and industry specifications. The proposed layout is then modeled using the latest 3D CAD software package allowing us to provide highly accurate and realistic drawing packages to our clients for their approval prior to manufacturing.

Wide Range of Applications

Our System is suitable for practically any size enclosure, ranging from our 4' x 6' x 7' QuietStation-MOD R.F. shielded workstation to 3000 sq. ft. IT departments and aircraft hangars.

Typical applications include:

Government Security Areas
EMC Product Compliance Testing
Instrumentation Repair and Calibration
Production and Quality Product Line Testing
Cellular and Paging Service Centers
Wireless Product Testing

Metrology Labs
Magnetic Resonance Imaging (MRI)
Medical Equipment and Instrumentation
Biomedical Engineering Labs
Embassies and Consulates

QuietShield-MOD



Easy Installation

Raymond RF employs some of the most experienced Installation Specialists in the industry with extensive experience installing our full turnkey Systems including complex electrical, mechanical and architectural components.

The materials for our Modular System are pre-cut in our factory as per client-approved assembly drawings prior to delivery to the client site. This ensures a quick installation process with minimal interruption at the client site.

Complies with Industry Standards

Our Modular R.F. Shielded Enclosure System meets or exceeds the following industry standards:
MIL-STD-285 Method of Attenuation Measurements for Enclosures, Electromagnetic Shielding, For Electronic Test Purposes. 1956

IEEE-STD-299 Standard Method for Measuring the Effectiveness of Electromagnetic Shielded Enclosures. 1997-12-09

2-Year Warranty

All Raymond EMC Modular R.F. Shielded Enclosure Systems come with a 2-year limited warranty against defective materials and craftsmanship and to retain the specified RF shielding effectiveness.

QuietShield Shielding Effectiveness Levels IEEE-299 / MIL-STD-285

Plane Waves: 100dB from 1MHz to 1GHz

Microwaves: 100dB from 1 GHz to 60 GHz

Upgradeable to:

Plane Waves: 120dB from 1MHz to 1GHz

Microwaves: 120dB from 1 GHz to 60 GHz