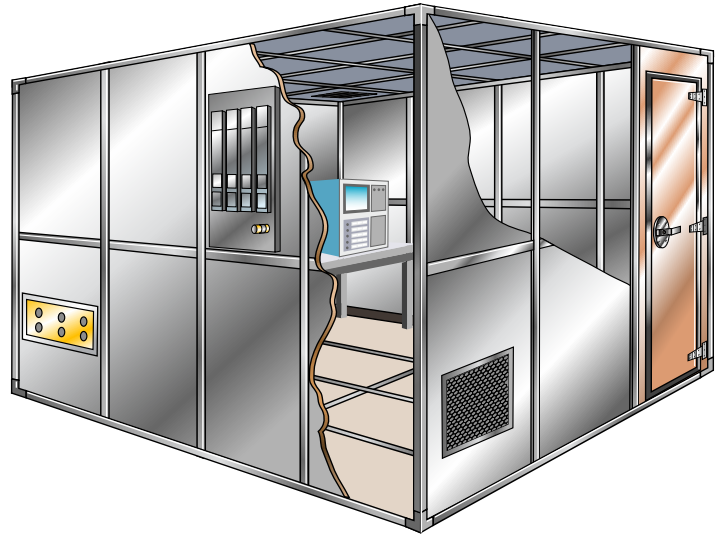


FEATURES:

- Conductive Material Lining
- 100 dB Insertion Loss From 100 kHz to 1 GHz
- Flexible shielding solution
- Excellent Low Frequency AC Magnetic Field Attenuation



Series 83 RF Shielding

THE Series 83 RF Shielding is a fully custom shielding option for specialized applications such as electron microscopes and physiological studies.

DESCRIPTION

Series 83 RF shielding is made of G60 grade, 11-gauge galvanized steel. It offers the advantages of high shielding performance, durability, and ideal electrical continuity. Each panel section provides excellent stability to airborne moisture-induced warping and structure strength that lend to its rugged structural design.

FEATURES

Series 83 RF shielding has a conductive material lining which is used for attenuating EMI/RFI signals.

Typical performance, as measured in accordance with NSA 65-6/94-106/CID 09.12, is 100 dB from 200 kHz to 1 GHz.

Because the Series 83 shielding enclosure materials can fit in with

special customer requirements, it is a truly flexible shielding solution.

The specialized construction of the Series 83 shielding also provides excellent low frequency AC magnetic field attenuation characteristics.

APPLICATIONS

- Electron microscopes
- Physiological studies
- Other custom applications

STANDARD CONFIGURATION

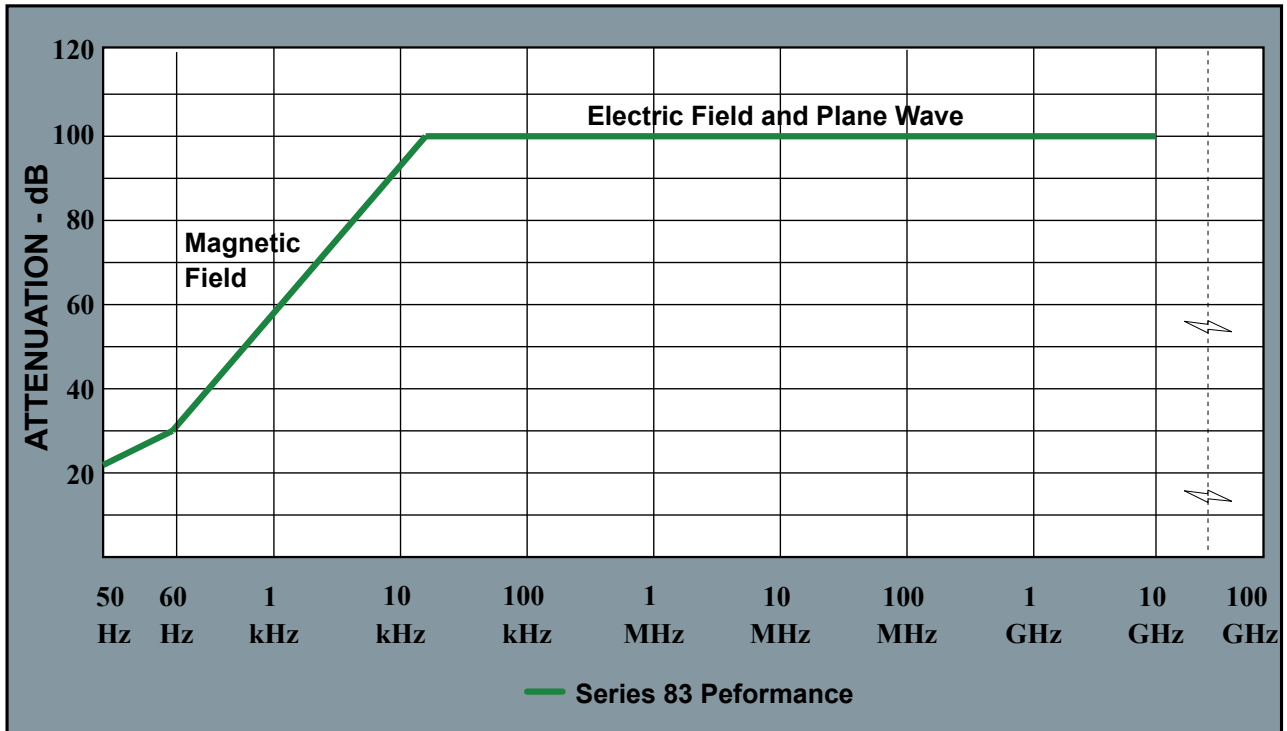
- Consists of shielded modular panel sections that are assembled with a clamping system into a self-supporting room structure.
- Sheets of 11-gauge conductive material are laminated to a 12.7 mm (0.5") high-density particle or plywood board core.
- The panels are joined together with an extruded "hat and flat" and "cove" clamping system to provide uniform and consistent

pressure contact against the shielded panel mating surfaces. These structural clamping sections are zinc plated to resist corrosion and are joined with self-taping zinc plated fasteners spaced four inches on center to ensure a secure shield.

- The corners of the shielded room are secured with precision-machined trihedral end cap sections. To maintain electrical isolation, a 6-mil. dielectric vapor barrier and 3.175 mm (1/8") dielectric underlayment are placed beneath the shielded floor panels. Counter-sunk floor screws in the clamping system ensure a smooth floor surface.
- Attractive vinyl floor tiles are applied with adhesive over the exposed steel surface as a durable wearing surface.

OPTIONS

- Various options available upon request.



Series 83 System Performance

Magnetic Field

- 26 dB @ 50 Hz
- 30 dB @ 60 Hz
- 100 dB @ 14 kHz

Electric Field

- 100 dB from 200 kHz to 50 MHz

Plane Wave

- 100 dB from 50 MHz to 1 GHz

Microwave

- 100 dB @ 10 GHz

Four Shield Double Electrical Contact (DEC) Door System

- Utilizes two layers of 24 ounce copper, two layers of 11 gauge galvanized steel and the shielding membrane to achieve the low field performance requirements of the Series 83 shield
- Employs a three-point latching system with heavy gauge phosphor bronze contact fingers
- Can be equipped with a semiautomatic latching device for areas of high usage, or where ease of accessibility is a concern
- Can be upgraded and modified to meet extended shielding performance objectives

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