

SHIELDING RFD-60 RF SHIELDED DOOR



RFD-60 RF SHIELDED DOOR

- Patented Hinges Allow Final Closing of Door Leaf to be Parallel to Door Frame
- Easy to Operate
- Pneumatic Option to Further Increase Ease of Operation
- Permits Normal Door Swing when Door is Opened Wide
- RF Seal Obtained by Cam Followers

ETS-Lindgren's RFD-60 RF Shielded Doors offer lightweight, easy-to-operate solutions designed for optimal RF shielding performance. Tested in accordance with IEEE-299 and MIL-STD-285 standards, these doors deliver reliable RF attenuation while maintaining ease of use.

Product Features Available Sizes

The RFD-60 doors come in two standard sizes to accommodate various enclosure needs:

- 1200 mm x 2100 mm (4 ft x 7 ft)
- 900 mm x 2100 mm (3 ft x 7 ft)

Patented Hinge Design for Maximum RF Performance

The RFD-60 features innovative hinges that allow the door leaf to close parallel to the door frame, ensuring maximum RF performance. These hinges also enable a typical swing when fully opened, providing both functionality and efficiency in environments that require frequent door usage.

Precision RF Sealing with Cam Mechanism

The RFD-60 door achieves its superior RF seal with a cam-driven mechanism located at both edges of the door. Two recessed contact fingers ensure a tight and secure seal, minimizing RF leakage and maintaining consistent shielding performance.

Smooth Operation with Bearings

To enhance ease of use, the door system is equipped with high-quality bearings, making opening and closing the door effortless. This feature is especially beneficial in high-traffic areas where frequent door operation is necessary.

Flexible Integration with Shielding Systems

The RFD-60 is designed for versatile integration, offering options for both mechanical and welded attachment to various shielding systems. This flexibility ensures the door can be adapted to suit different applications and environments, whether used in modular or welded RF shielded enclosures.

Optional Pneumatic Operating System

For even greater ease of operation, the RFD-60 can be equipped with an optional pneumatic system. This system allows the RF-tight locking mechanism to be released or secured with minimal effort, making manual operation smoother while still allowing for complete control of the door's opening and closing.

Durable and Reliable

With its robust construction and advanced sealing mechanisms, the RFD-60 provides long-term reliability in RF shielding environments. It's ideal for use in testing facilities, laboratories, and other environments where consistent RF isolation is essential.

ETS-Lindgren's RFD-60 door combines lightweight operation with strong RF performance, offering an efficient, user-friendly solution for RF shielded enclosures, ensuring both functionality and RF integrity.

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Standard Configuration

- Door Available in Two Standard Sizes
- Patented Hinges
- Door Frame with Beryllium Copper Fingerstock

Options

- Peumatic Operating System
- Custom Size Available

Technical Specifications

Performance

Magnetic Fields	20 dB @ 1 kHz; 56 dB @ 10 kHz; 100 dB @ 200 kHz, 110 dB @ 500 kHz
Electric Fields	60 dB @ 1kHz, 110 dB @ 10 kHz to 30 MHz
Plane Waves	110 dB @ 30 MHz to 1 GHz
Microwaves	100 dB @ 10 GHz

Performance when tested in accordance with the procedures of MIL-STD-285, NSA 65-6/NSA 94-106, MIL-STD-285/IEEE 299 or EN 50147-1.

