

SHIELDING RFD-100 RF SHIELDED DOOR



RFD-100 RF SHIELDED DOORS

- Easy to Operate
- Made in Accordance with MIL-STD-285
- Patented Hinges Allow Final Closing Movement to be Parallel to Door Frame
- Permit Normal Swing when Fully Opening Door
- Final RF Seal Obtained by Cam Followers

ETS-Lindgren's RFD-100 Shielded Doors are engineered for high-performance RF shielding and seamless operation. Available in two standard sizes, 900 mm x 2100 mm (3 ft x 7 ft) and 1200 mm x 2100 mm (4 ft x 7 ft), these doors deliver reliability and durability in RF shielded environments.

Product Features

Precision Hinges for Enhanced RF Integrity

The RFD-100 features patented hinges that ensure the final closing movement of the door is parallel to the frame, maintaining exceptional RF integrity. These hinges also allow for a normal circular swing when fully opened, combining functionality with RF shielding performance.

Reliable RF Sealing

The RF seal is achieved using four recessed contact fingers, which are secured by cam followers at both edges of the door. This precise design ensures optimal RF shielding while allowing easy opening and closing.

Smooth Operation

The RFD-100's opening and closing mechanisms are equipped with bearings, providing smooth and effortless operation. The door can also be customized to integrate with various shielding systems, including the S81, S101, and welded enclosures.

Optional Pneumatic System

For enhanced ease of use, the RFD-100 can be equipped with an optional pneumatic opening/closing system. This system releases the RF-tight seal, allowing for easier manual operation, making it ideal for high-traffic environments.

Ferrite and Absorber Compatibility

The RFD-100 is designed to support the addition of ferrites and absorbers for enhanced shielding. The door can accommodate ferrite and short absorbers with a maximum load of 50 kg/m² (10.2 lb/ft²) and absorber lengths of up to 400 mm (15.74 in), except around the handle area. The rigid inner plate allows direct mounting of ferrites and absorbers while still allowing for easy maintenance.

This combination of precision engineering, RF sealing, and optional features makes the RFD-100 an ideal solution for RF shielded enclosures requiring durable, high-performance doors.

Standard Configuration

- Door Available in Two Sizes
- Left or Right Hinged
- Door Frame Mounting Options Available for Bolted, Clamped and Welded Construction
- Left or Right Hinged

Options

- Pneumatic Operating System
- Ferrites
- Absorber
- Custom Size Available

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Technical Specifications

Performance¹

Magnetic Fields	42 dB @ 1 kHz; 80 dB @ 10 kHz; 120 dB @ 5 MHz to 30 MHz
Electric Fields	120 dB @ 1 kHz to 30 MHz
Plane Waves	120 dB @ 30 MHz to 1 GHz
Microwaves	120 dB @ 1 to 40 GHz

¹ 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.

