

## SDS Radio Frequency Shielded Doors



### Radio Frequency Doors

- SDS Radio Frequency (RF) door and frame assemblies are specialized structures engineered to reduce the transmission of radio frequency or electromagnetic energy into a designated area.
- RF door and frame assemblies provide dependable shielding against electromagnetic interference, making them ideal for environments with RF-sensitive equipment or confidential information.
- RF door and frame assemblies are an ideal solution for diverse settings, such as healthcare facilities, government and military centers, and communication institutions.
- In healthcare settings, RF shielding is vital to protect sensitive medical equipment from electromagnetic interference, which could otherwise lead to inaccuracies or misdiagnoses. RF door and frame assemblies deliver the necessary protection, ensuring a reliable and secure environment for medical operations.
- With rising cybersecurity concerns, RF door and frame assemblies, often paired with STC performance, are becoming the top choice for government facilities and financial institutions handling highly sensitive digital information. These assemblies provide robust protection against digital threats, ensuring security in critical environments.
- RF door and frame assemblies are extensively utilized in the telecommunications industry and communication centers, where reducing electromagnetic interference is critical to ensuring seamless communication and uninterrupted operations.

### Configurations and Sizes

- Single or double-hinged doors, available in both standard and custom sizes, with options for manual or powered operation. These assemblies can integrate seamlessly with any shielding construction.
- Offers standard frame designs and the ability to engineer custom profiles tailored to match wall construction and architectural aesthetics.
- Available in standard and custom sizes with no limitations.

## Compliance and Performance

- Comply with ADA threshold requirements of ½" without the need for portable ramps, making them suitable for use in any location.
- Doors can be tailored to meet various performance needs, including acoustic, bullet-resistant, blast-resistant, or a combination of these features.
- We now provide radio frequency doors featuring 40 dB RF protection and an STC 51 acoustical rating, all within a 1¾" thick door panel.
- The seal avoids the knife-edge design common in other RF doors, instead using a durable weather-stripping style. This significantly extends the door's lifespan and lowers maintenance costs.

## Tests and Certifications

- Provides shielding effectiveness of ≥ 60dB across electric, plane wave, and microwave fields within a frequency range of 1 kHz to 18 GHz. Magnetic field attenuation meets the standards of NSA 73-2A, achieving 10dB at 1 kHz, 20dB at 10 kHz, 30dB at 100 kHz, 40dB at 1 MHz, and 50dB at 10 MHz
- Division 8 Standard
- NSA 65-6
- MIL STD-285
- IEEE 299 Standard

## Fire Labels and Positive Pressure

- UL 10C, UBC 7-2, UBC 7-4 450° and 650° temperature rise, up to 1½ hours UL 10C
- Smoke Labels up to 20 minutes