

EMI/RFI-shielded Faraday cage doors

Infracron specializes in designing and manufacturing standard and custom EMI/RFI-shielded doors for EMI/RFI-shielded rooms and Faraday cages. High performance single and double knife fingerstrip doors in sliding, swinging and even double swinging implementations are some of the many possibilities. Our engineers will be happy to help you find the best solution possible.

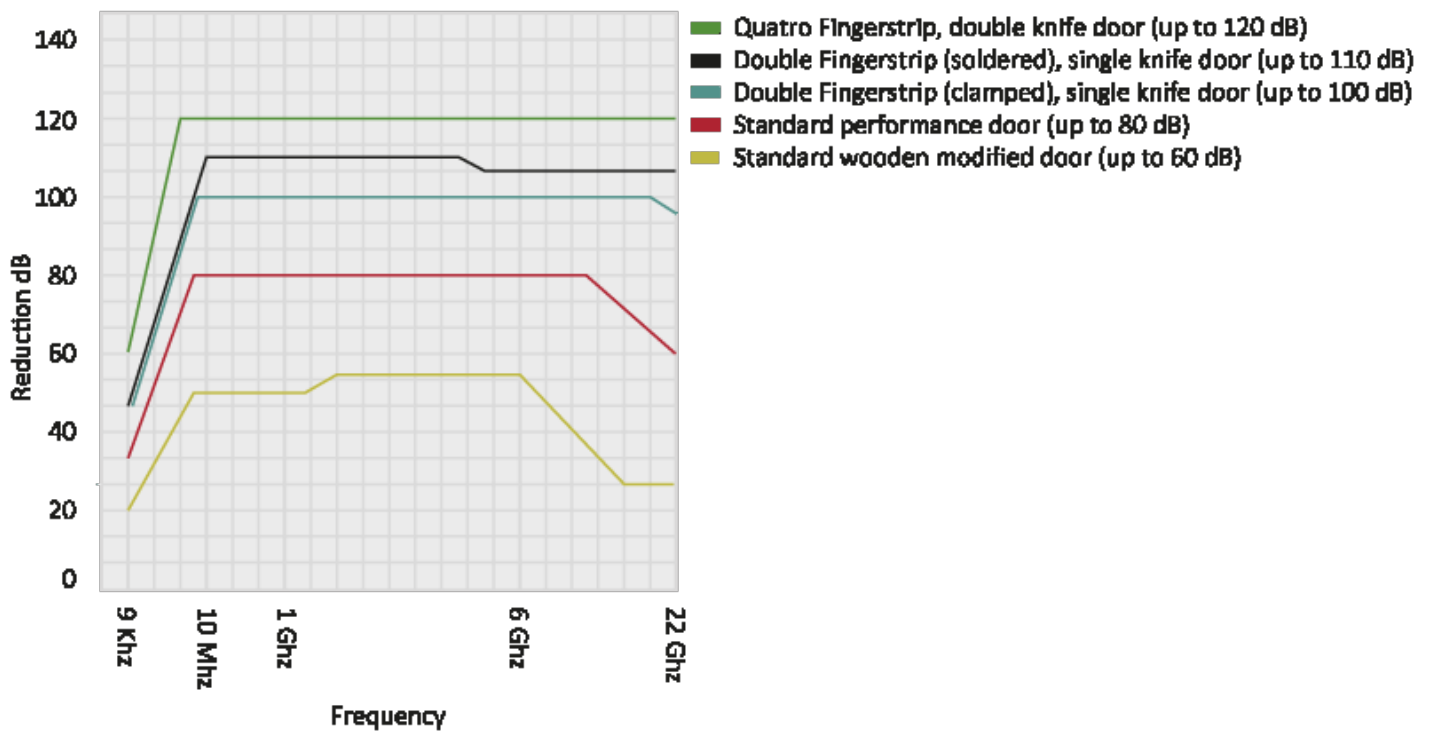
We also produce sets to shield doors with gaskets at the top and sides, while the bottom can be provided with an electrically conductive copper brush and doorstep. See Standard modified doors.

Virtually every type of door can be provided in a swinging or sliding implementation.



Double and single swinging fingerstrip Faraday cage doors

Shielding performance different shielding doors



Shielding performance of the Faraday-cage doors we produce. These values are measured under laboratory conditions. In other situations, results may differ; please read our Guarantee.

EMI/RFI-shielded sliding doors

EMI/RFI-shielded Faraday cage doors



Heavy-duty fingerstrip sliding door for Faraday cages



Heavy-duty fingerstrip sliding door locking mechanism

The fully automatic EMI/EMP/RFI-shielded sliding doors are designed for RF and EMP-tight enclosures. They can be integrated in EMI/RFI-shielded rooms and are also suitable for other types of shielding.

There are two steps involved in opening the sliding door:

- Unlatching of the contact-spring system and outward movement;
- Sideways movement of the door leaf.

The movements of the door and ramp are fully automated; they are operated electrically and pneumatically. Each opening and closing of the door has a self-cleaning effect on the contact surfaces (fingerstrips and knife of the door). Sizes range from 1 x 2.1 meters to a 'jumbo-sized' door of 8 x 12 meters.

Options

- Fireproof
- Automatic closing
- Gastight

EMI/RFI-shielded Faraday cage doors

(Automatic) locking system
Soundproof
Clean room specifications

Types

Single fingerstrip door
(fingerstrip door with soldered or clamped fingers)
Double fingerstrip door
(heavy-duty fingerstrip door)
Standard modified door with gaskets
(copper-plated wooden door, with copper brush and copper doorstep)

For shielding performance of the different doors which are deliverable, click [here](#)

Movie of a copper-plated wooden sliding door in operation:

Swinging doors



Ultra-high performance swinging doors

EMI/RFI-shielded Faraday cage doors



Swinging door locking mechanism

The fingerstrip swinging doors are well known for their high shielding performance and are used in prefab cages as well as in our Mu-Copper systems. We manufacture single fingerstrip doors for medium shielding performance and double fingerstrip doors for high shielding performance (reductions up to 140 dB). Delivery from stock is possible in various dimensions. In EMC applications, ferrite tiles can be affixed to the standard door leaf.

Options

- Fireproof
- Automatic closing
- Gastight
- (Automatic) locking system
- Soundproof
- Clean rooms specifications

To achieve the various attenuation levels required, we have several types of swinging door in our assortment.

Types

- Single fingerstrip door
(fingerstrip door with soldered or clamped fingers)
- Standard performance door for hospital use
- Standard modified door
(copper-plated wooden door, with copper brush and copper doorstep)

For the shielding performance of the different doors which are available [click here](#)

Standard sizes

Standard shielded leaf doors in steel/wooden or steel frames
Width: single 800 / 1200 mm, double 1500 / 2000 mm
Height: 2000 / 2100 / 2500 mm

Examples of swinging doors (click to enlarge)

EMI/RFI-shielded Faraday cage doors



Swinging door (open)

EMI/RFI-shielded Faraday cage doors



Swinging door (closed)



Swinging door in Faraday cage (closed)