Standard**DOOR**

Soundproofing RF-door « Standard »

Sandwich door structure with insulating core, RF contact fingers and two acoustic edge seals

The reliability door

An RF door needs to be much more resilient than your front door. Apart from the main task of providing access through the RF shielding, it must ensure permanently high shielding values despite the mechanical stress. The door must open and close smoothly while providing a high level of acoustic insulation. The IMEDCO RF door fulfils all these requirements. This means that our standard RF doors is a part of our **SilentSHIELD™** Solution

Our RF door has proved its worth over decades and has, of course, been constantly optimised in terms of its soundproofing. Laboratory tests provide insight into the acoustic insulation qualities of a door. Therefore, we are proud to be able to guarantee you excellent insulation values of $\mathbf{R_w = 40\ dB}$. Unpretentious aesthetics and the clear-cut design complete the overall concept.

Why **SilentSHIELD™**

A symphony concert, a chainsaw or disco music are somewhat comparable to the noise level of an MRI device. This noise should be reduced as much as possible. In addition to the structural measures, the components of the RF shielding also play a vital role. The double shell construction with integrated acoustic insulation as well as the circular acoustic seals significantly reduce the noise level outside the RF shielding. That results in a relaxed working atmosphere for your staff and prevents conflicts with noise regulations in the workplace.

The ideal acoustic insulation

Despite the particular importance of the RF door for acoustic insulation, it can only fulfil its purpose as part of an overall concept designed for noise reduction. For further details about our acoustic solutions please refer to our **SilentSHIELD™** brochure.

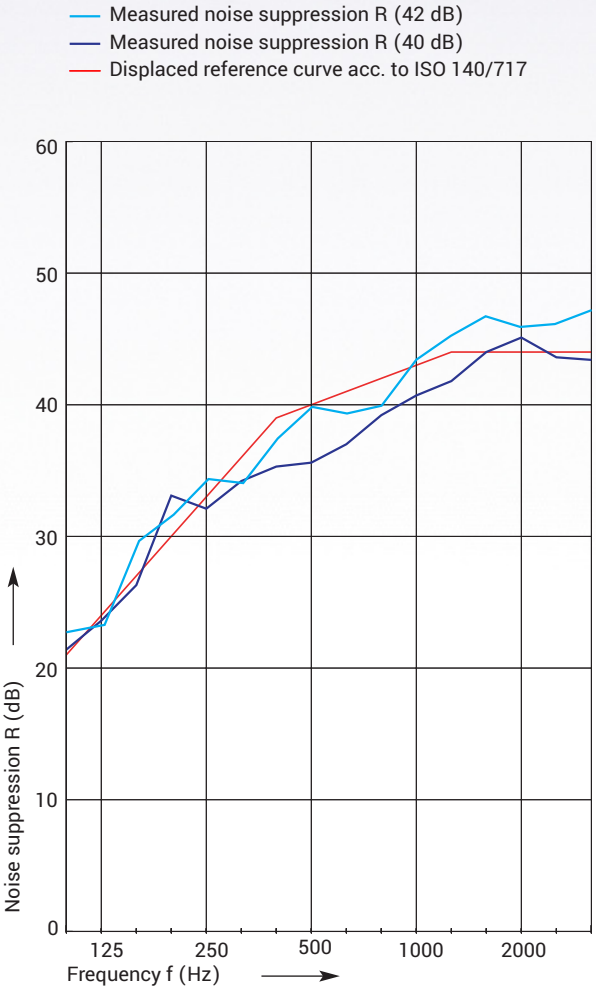
The perfect soundproofing

IMEDCO also offers windows, ceilings and walls in sound-absorbing **SilentSHIELD™** construction. The IMEDCO sound insulation system **SilentSHIELD™**, was tested by an independently Institute. Talk to us when it comes to acoustic issues, radiofrequency or magnetic shielding. Profit from our know-how and the decades long experience as well as from several thousand successful installed RF shields all over the world.

Features and your benefits

- RF shielding attenuation according to MR specifications
- Laboratory-tested insulation value **R_w = 40 dB** / optional **R_w = 42 dB**
- Tested according to EN ISO 10140-1 + 717-1
- Standard size: 1200 × 2100 mm
- Special sizes available

RF door **SilentSHIELD™** Noise suppression in relation to frequency



Standard RF attenuation

Magnetic field	15 MHz	100 dB
Electric field	10 kHz 30 MHz	100 dB 100 dB
Plane waves	30 MHz 100 MHz 130 MHz	100 dB 100 dB 100 dB

Other attenuations on request

Noise suppression

Attenuation of door including frame	R_{f1600} = 44 dB R_w = 40 dB	R_{f1600} = 46 dB R_w = 42 dB
Permissible variation	4.4 dB at 500 Hz	