

RF Shielding Opening Solutions

Frequently Asked Questions

Q. What is RF shielding?

A. Radio frequency (RF) shielding is electromagnetic shielding that blocks radio frequency electromagnetic radiation. The shielding can reduce the coupling of radio waves, electromagnetic fields and electrostatic fields.

Q. How does RF shielding work?

A. A conductive enclosure is used to block electrostatic fields. Also known as a "Faraday Cage", this cage blocks static and non-static electric fields from passing through the barrier.

Q. What materials are for RF shielding?

A. Copper is used for RF shielding because it absorbs radio and magnetic waves. A commonly used shielding method is to coat a surface with a material loaded with a suitable material, typically copper, silver or nickel in the form of very small particles.

Q. Why are RF shielded openings important?

A. RF shielded openings help ensure sensitive and confidential information is contained in commercial and government buildings. Also, RF shielding is necessary in healthcare facilities for preventing radio interference with medical equipment.

Q. Where are RF shielded openings used?

A. Medical facilities, business offices, test labs, computer data processing, security centers, financial centers, government - military facilities.

Q. Why are RF shielded openings needed?

A. RF shielding is used to help avoid computer crashes, compromise confidential information, interference from local RF transmitters: radio towers, TV broadcast, production welders, airport radar and MRI test equipment.

Q. Is there a RF shielding test standard or criteria to follow?

A. Yes. IEEE Std 299-2006, IEEE Standard Method for Measuring the Effectiveness of Electromagnetic Shielding Enclosures, the specification will call out for a RFI or EMI shielded door that meets the IEEE Std 299-2006 test standard and falls into the 40 db at 10khz-10ghz frequency range.

Q. What are the available opening sizes?

A. 2'6" x 6'8" up to 4'0" x 8'0".

Q. Can the RF shielded openings be fire rated ?

A. Not at this time.

Q. What accessories are supplied with the assembly?

A. Conductive perimeter seals, Pemko threshold and caulk.

Q. Can the RF shielded openings be ordered with other specialty requirements?

A. Yes, sound ratings up to STC 50, bullet ratings up to level 8, multiple blast levels, among other hybrid options that are available with the RF shielded openings.

Q. What hardware can be used?

A. All ASSA ABLOY branded hardware can be used.

If you have any questions please call Security Metal Products at 310-641-6690.

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