Electromagnetic Pulse (EMP) Shielded Doors

Introduction

European EMC Products design a wide range of EMP Shielded Doors to meet all performance levels and applications, both internally and externally. This includes doors for mobile containers, anechoic chambers and Tempest applications.

In addition to providing high levels of Electromagnetic Pulse Protection, our doors can also be manufactured to provide fire resistance, thermal, acoustic, NBC (Nuclear, Biological and Chemical) and blast protection.

As most shielding projects are unique, we adapt our designs to meet your specific needs. All doors are designed for ease of use and maintenance, and comply with all UK, NATO and international security and performance standards.

Our range of bespoke EMP Doors and EMP Shielded Rooms provide the end user with a practical solution in line with technical specification and design requirements.

Knife Edge Doors

The performance of RF Shielded Door is achieved by the ‘knife’ on the door leaf making contact with Copper Beryllium contacts sitting in channels on the door frame, see below.

Performance

Mil Std 188-125 Part 1 is a military document titled HIGH ALTITUDE ELECTROMAGNETIC PULSE (HEMP) PROTECTION FOR GROUND-BASED C4I FACILITIES PERFORMING CRITICAL, TIME URGENT MISSIONS. This describes the protection and testing required for these types of facilities.
Shielding effectiveness (SE) for radiated signals

![Graph showing SE vs Frequency](image)

**Installation**

Complete or supervised installation is optional by EEP.

**European EMC Products**

European EMC Products Ltd was formed in July 1996 to supply high quality products and services to the ElectroMagnetic Compatibility (EMC) market. The emphasis being on EMP and RF Shielded Chambers and associated products and services such as RF Shielded Windows, Shielded Doors and Shielding Effectiveness and EMP Testing.

**Quality**

European EMC Products are registered to BS EN ISO 9001:2015, Certificate No. FS 38901. License scope: The design, assembly, servicing and testing of RF Shielded structures and equipment including EMI shielding and thermal management materials; Gas tight doors; and specialised mobile electromagnetic pulse protected (EMPP) containers.