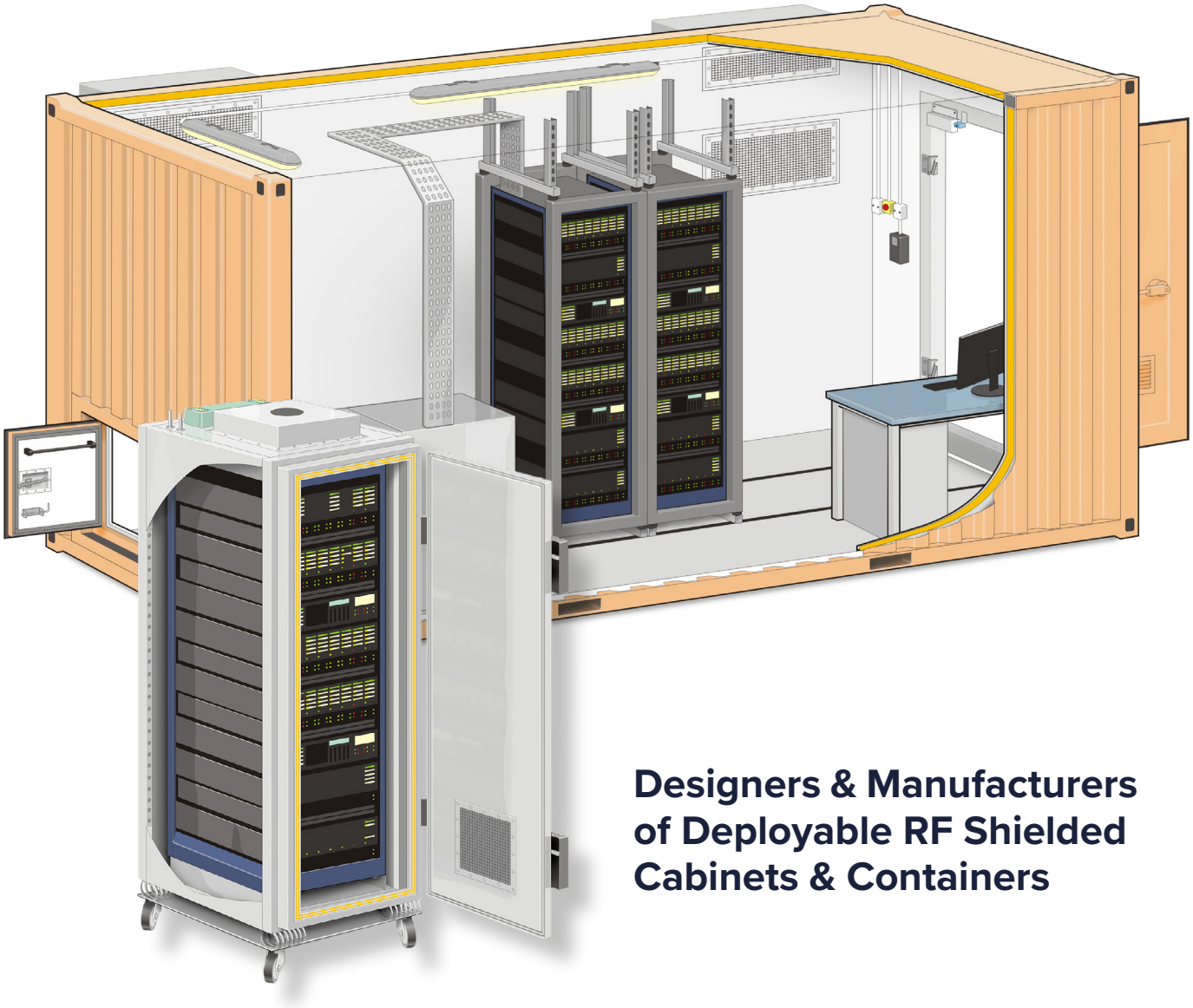
European EMC Products Ltd

DEPLOYABLE RF SHIELDED CABINETS & CONTAINERS

EEP



Designers & Manufacturers of Deployable RF Shielded Cabinets & Containers

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MADE IN THE UK

CYBER ESSENTIALS CERTIFIED PLUS

bsi ISO 9001 Quality Management Systems CERTIFIED
Certificate No. FS38901

JOSCAR REGISTERED

DEPLOYABLE RF SHIELDED CABINETS & CONTAINERS

European EMC Products (EEP) have over 25 years of experience designing deployable Radio Frequency (RF) shielded cabinets and containers.

EEP possess extensive knowledge and expertise in the designing of modular RF shielded cabinets and RF shielded containers using the latest in 3D software to create bespoke designs to meet customer requirements.

Shielded cabinets and containers are widely used to protect critical systems and infrastructure from modern day threats such as EMP attacks.

The shielded cabinets, generally supplied with a 19" internal rack system are all designed and manufactured to meet MIL-STD 188-125.

Shielded containers are fully welded and form the primary RF shield. They can be designed to either be standard ISO compliant or fully bespoke.

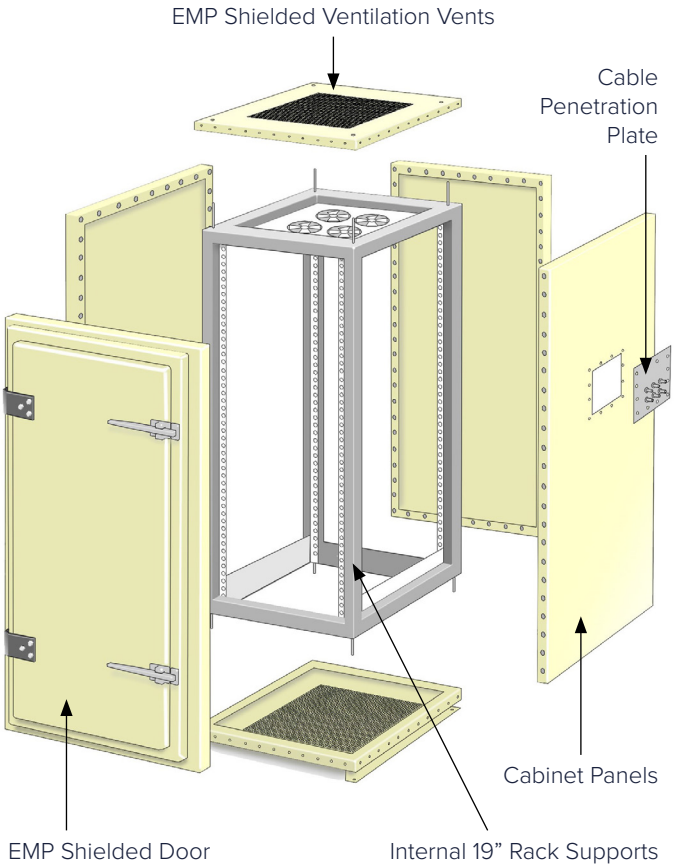
DESIGN

EEP's internal design team create bespoke RF shielded solutions, preparing full manufacturing drawings and project managing the solution from design concept through to completion. All EEP's design team are security cleared, which allows them to work on sensitive, classified and confidential projects.

MANUFACTURE

Once design drawings have customer approval, EEP commence manufacture. Using the latest in welding technology, skilled fabricators piece together each cabinet or container within the UK factory.

Each piece is then painted to the customers specification prior to the installation of any internal equipment.



RF SHIELDED CABINETS

EEP's RF shielded cabinets are designed to offer high levels of shielding attenuation typically for EMPP (Electromagnetic Pulse Protection) or TEMPEST requirements.

All cabinets are built to specific end users' requirements and as such can include features such as power, telecoms and data filtering, ventilation, power distribution systems and thermal insulation. Additional extras such as racking for the mounting of internal equipment, shock mounts and / or wheels can also be accommodated. The cabinets are manufactured using 2mm thick galvanised steel sheet to ensure maximum shielding performance and corrosion resistance.

Our expertise in this area means we can offer a cost effective, custom made solution for EMP & RF protected shielded cabinets.

EMP SHIELDED CABINETS

EEP design and manufacture a bespoke range of EMP shielded cabinets specific to end users' requirements for high performance applications.

This type of cabinet is typically used for commercial and military facilities requiring NEMP (Nuclear Electromagnetic Pulse) Protection.

Cabinets are constructed using 2mm thick galvanised steel panels to ensure maximum shielding performance when bolted together using EMP gasket for a long term reliable performance.

EEP manufacture these cabinets in any size from desktop to walk-in and they can be fitted with a wide range of internal fittings to suit all applications. Paint finishes and coatings for harsh or corrosive environments can also be supplied.

- Cabinets can include 19" racks, electrical distribution and internal lighting.
- EEP can supply custom designs complying with all international EMP standards.
- EEP's experience with EMP ensures we can offer advice on all aspects of design, manufacture and testing.

MODULAR RF SHIELDED DEPLOYABLE CONTAINERS

ISO type containers have transformed the world over the last 50 years. Their utility has spread far beyond the shipping industry and the humble container is now used as site huts, communication shelters and even housing.

Where EMP (Electro-Magnetic Pulse), tempest protection or RF Shielding is required, for example for military communications, EEP can use all their shielding skills and products to produce highly effective shielded containers to meet all worldwide performance standards.

EEP containers can be built to various performance specifications and fitted out to a variety of levels. Additionally, each shielded container can be prepared internally to accommodate the required equipment or personnel. This includes wall lining, flooring, electrical installation, air conditioning and ventilation.

RF SHIELDED CONTAINER DOORS

EEP design and manufacture a wide range of RF shielded doors to fit into ISO type containers, for a wide variety of applications and meet all worldwide performance standards.

An RF shielded door consists of the following:

- Single leaf knife edge door with manual 2 point latching mechanism.
- Mounting point, hasp and staple for padlock.
- Door leaf; Galvanised steel, unpainted or finished as below with hard wearing paint.
- Door frame; Mild steel primer painted or finished with hard wearing paint.
- Optional marine grade paint finish.
- Latch cover box and hinges powder coated black or match door colour where required.
- 2 Part weather seal.

WAVEGUIDES FOR RF SHIELDED CABINETS & CONTAINERS

Waveguide vents are a crucial component for any shielded cabinet or containers as they allow air to pass through whilst still attenuating radiated interference.

As such, EEP design and manufacture a wide range of steel and aluminium waveguide vents specifically for shielded applications.

POWER FILTERS

Power filters are often used within cabinets and containers.

They are manufactured to bespoke requirements and provided as part of a cabinet, container or individually. EEP manufacture Tempest, HEMP, Signal Line & Control Line Filters within the UK Factory.

INTERNAL FINISHING

EEP can provide fully fitted shielded containers including internal linings, power, lighting, furniture, safety equipment and air-conditioning.

RF TESTING

On completion of an RF shielded cabinet or container a full RF Test is undertaken to ensure conformance.

MAINTENANCE

Following delivery of each shielded cabinet or contractor, EEP can offer regular maintenance and service contracts to suit the customers requirement.

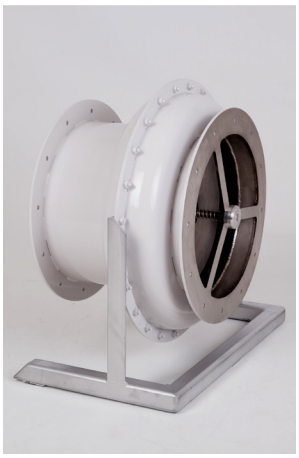
About Us

Established in 1996, European EMC Products Ltd (EEP) are an established British company whose experience and understanding of the science of shielding makes it an ideal partner in whom you can place your trust with confidence.

The purpose of installing EEP shielding systems is to protect people and equipment against the threats posed by electromagnetic and radio frequency (RF) interference, radiation, magnetic fields and electromagnetic pulses. Our diverse range of turnkey products and services, including design, installation, project management, testing and consultancy are delivered across multiple sectors to an international client base.

Security Doors

Anechoic Chambers



Blast Valves

European EMC Products Ltd (EEP) are registered to BS EN ISO 9001:2015, Certificate Number FS38901, specialising in the design, manufacture and installation of RF Shielded Structures, Blast Doors, Gas Tight Doors, Electromatic Pulse Protection (EMPP) containers, Magnetic Shields, Quench Systems for MRI Scanners, LED Lighting Systems for Medical Applications, Sound Masking and Eavesdropping Protection Systems, Power and Signal Filters.

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