

European EMC Products Capabilities for Electromagnetic Pulse Protection (EMPP), Blast, Nuclear Biological Chemical (NBC) Filtration and Radiation Monitoring for Military Facilities



European EMC Products
Technical Datasheet



Electromagnetic Pulse Protection (EMPP)

The purpose of EMP Protection is to prevent the electromagnetic pulses from high level nuclear weapons disrupting and destroying electronic equipment.

European EMC Products can offer the following Products & Services in EMP Protection:

EMPP Design

Full EMPP design, complete with all drawings covering:

- Wall, floor and ceiling sheet layout
- Method of fixing RF sheets
- Layout showing doors and penetration panels
- Pipe penetrations for diesel, water and gases
- Ventilation grills for air conditioning
- Electrical power and telephone filters

EMPP Specialist Components

- RF Shielded Doors
- RF Shielded Ventilation Grills for Air Conditioning
- RF Shielded Pipe Sleeves
- EMP Electrical Filters

EMPP Testing

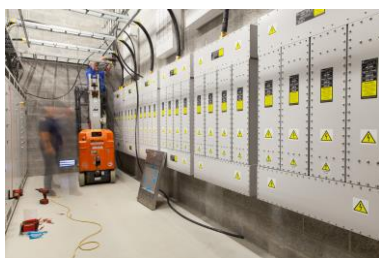
- Shielding Effectiveness Testing of EMPP Facilities to:
- Mil Std 285, IEEE 299 and Mil Std 188-125
- Pulse injection testing of EMPP filters to all NATO military standards

SELDS (Shielding Effectiveness Leak Detection System) Testing

- Design and installation of SELDS
- SELDS equipment

Earthing

- Design of EMP earthing systems



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Blast Protection

The purpose of blast protection is to provide security from the direct and rebounded effects of direct explosive weapons.

European EMC Products can offer the following services in Blast Protection:

Blast Protection Design

- Emergency procedures in the event of bomb or other threats
- Explosives hazard evaluation
- Blast loads from planned and accidental explosions
- Explosion-resistant structural analysis and design
- Structural dynamics and vibration, including inelastic response
- Conventional weapons effects
- Terminal ballistics
- Fragmentation and fragment impact effects
- Blast and impact testing
- Development of programme or test plans

Blast Protection Specialist Products

- Explosion protection valves
- Overpressure protection valves
- Gastight shut off valves
- Blast protection and gas tight doors
- Wall sleeves



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Nuclear, Biological and Chemical (NBC) Filtration

The purpose of NBC filtration and ventilation is the supply of safe air for breathing, removal of exhaust air and heating and cooling.

European EMC Products can offer the following services in Nuclear, Biological and Chemical Filtration:

- General advice on conventional and regenerative NBC filtration
- Gas and chemical type identification
- Airflow and air volume calculations
- Integration with air-conditioning systems

NBC Filtration Specialist Products

- Pre-Filters
- Gas and Chemical Filters
- Ventilation Units

Radiation Protection Capabilities

The purpose of radiation monitoring is to protect personnel and facilities from the effects of radioactive chemicals and agents.

European EMC Products can offer the following services in Radiation Protection:

- Design and manufacture of reactor control and instrumentation systems, fixed and portable radiation monitoring devices and the design and development of bespoke systems.
- Project management
- Design of specific radiation safety systems
- Obsolescence management for materials and components

Radiation Monitoring Specialist Products

- Shelter and vehicular warning systems
- Gamma radiation detectors
- Remote indication and alarming units
- Blast protection and gas tight doors
- Wall sleeves

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About Us

Established in 1996, European EMC Products (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, project management, testing and consultancy are delivered across multiple sectors to an international client base.

Quality

European EMC Products Limited are registered to BS EN ISO 9001:2015, Certificate Number FS38901.

Registered Scope: The design, assembly, installation, servicing and testing of RF Shielded Structures and equipment including EMI Shielding, Blast Doors, Gas Tight Doors and specialised mobile Electromagnetic Pulse Protection (EMPP) containers.

Radio Frequency, Magnetic Shielding and Quench systems for MRI (Magnetic Resonance Imaging) scanners.

The design, assembly and installation of Ionising Radiation Protection facilities.

The design, manufacture and installation of LED lighting systems for medical applications.

EEP Filters Limited are registered to BS EN ISO 9001:2015, Certificate Number FS38901.

Registered Scope: The design, manufacture, management of installation and testing of high performance EMC and EMP Power and Data Line Filters.

Disclaimer

NB: All the information provided within this datasheet is for reference only. Product specifications are subject to change without notice.