

Designing, installing
and manufacturing
the world's **leading**
EMC test chambers



GLOBAL EMC
ELECTROMAGNETIC SHIELDING & ANECHOICS EST. 1994

Anechoic Test Chambers

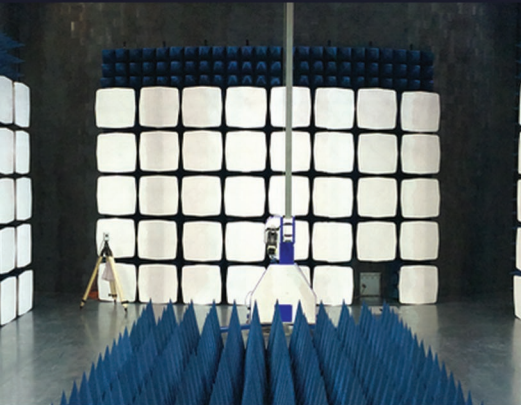
At Global EMC we offer a diverse range of anechoic test chambers. Each chamber is designed specifically to meet your test standards and application.

From pre-compliant testing, compliant EMC, automotive, military or antenna measurement, Global EMC can design, manufacture and install a test chamber to your exact requirements. Our products include:



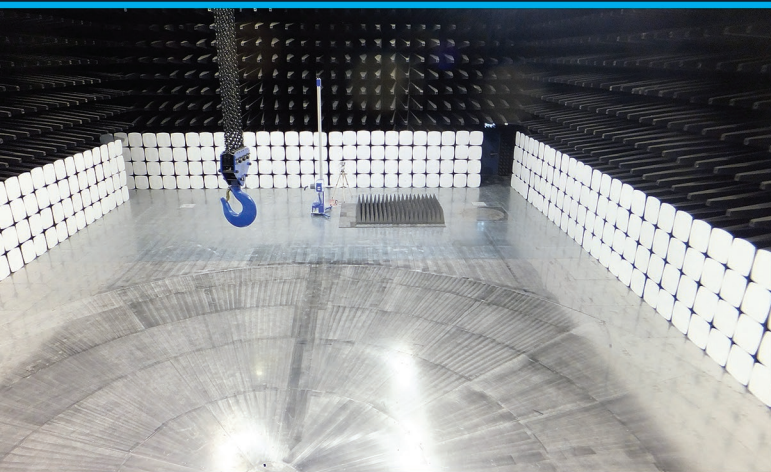
Pre-Compliant Compact Test Chambers

3m-SAC-PC is the perfect solution for a pre-compliant test chamber in a building with limited space available. Suitable for pre-compliant emission and compliant immunity testing. The 3m-SAC-PC gives a trust worthy and dependable indication that your product will pass once submitted for final approval in a compliant chamber.



3m Compliant EMC Fully And Semi-Anechoic Test Chambers

3m-SAC-C (semi anechoic) and 3m-FAC-C (fully anechoic) test chambers are suitable for compliant immunity tests and emission tests at a measuring distance of 3 metres. Designed to meet your exact requirements; typical standards include CISPR 16-1-4, EN/IEC61000-4-3, CISPR 11, CISPR 32 and military standards.



10m Compliant EMC Test Chambers

SAC-10m-LP and SAC-10m-FH are our 10m compliant semi anechoic test chambers for compliant emission and immunity testing to a measuring distance of 10 metres. Available using 2 metre long pyramid absorbers (LP) or using ferrite and hybrid absorbers (FH) our range is bespoke and tailored to meet your testing requirements and equipment under test dimensions. Typical standards include CISPR 16-1-4, EN/IEC61000-4-3, CISPR 11, 25 and 32 and military standards.

Military Test Chambers

All of our compliant DEF STAN 59-411, RTCA DO-160 and MIL-STD-461 test chambers are specifically designed and manufactured to the exact requirements of the varied and heavy-duty testing environment required by the military.





Automotive Test Chambers

Our CISPR range of test facilities are specifically designed for automotive testing. CISPR 25 Component meets the requirements of EN55025/CISPR 25 and ISO 11452-1 for testing electronic sub-assemblies.

Full vehicle testing is possible in the CISPR12/25-V and CISPR12/25-10m-V. As standard they come in two sizes. CISPR 12/25-V for smaller vehicles, and CISPR 12/25-10m-V, large enough to fit most vehicle sizes. However, all our vehicle chambers are designed and manufactured to exact individual requirements.

Faraday Cages and Shielded Enclosures

Faraday cages are referred to under a variety of other names including shielded rooms, or RF/EMI chambers.

Each creates an enclosure free from ambient signals that are present in the host building. Such as blocking mobile phone, Radio and WiFi signals. Our products include:



Shielded Rooms

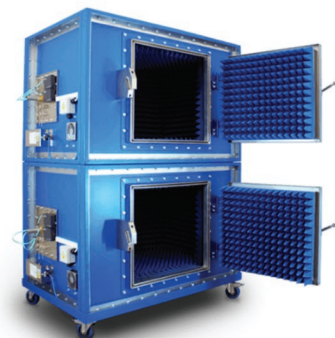
We offer a wide range of shielded rooms for RF/EMI, Forensic, TEMPEST, EMP, NEMP, HEMP shielding.

The size and application of these is almost unlimited and can be offered as part of a turnkey solution and bespoke to your specific requirements. Shielded enclosures can be designed and built from a small desktop mounted unit to aircraft hangar sized facilities.

Shielded Cabinets

Our shielded cabinets are a small Faraday cage or bench top EMC chamber.

Designed and built to your exact requirements. For research and development purposes anechoic linings are available. 5G cabinets are also available.



Forensic Shielded Rooms

Global EMC's approved and independently certified Forensic shielded rooms are designed to prevent and electronic devices inside the room from connecting to any wireless signals that are present outside the room. With over 100db of shielding, the forensic room easily isolates Wi-Fi, 5G/4G, GSM and Bluetooth signals for forensic interrogation.

VLF / ELF Magnetic Field Shielding

Global EMC offer a range of solutions to meet the requirements of DC, Quasi-DC and 50/60 Hz shielding. To reduce/attenuate these fields a highly permeable shield is installed. Our products and solutions include:



Magnetic Field Shielding - System 8000

This is a modular shield made using high magnetic permeability material Iron+®. System 8000 shielding is the perfect solution for sub-station, LV switchgear room shielding.

System 8000 reduces magnetic field emanations to acceptable levels for public exposure or EMI in adjacent rooms.

EEG Shielded Rooms

Global EMC's EEG-SR is a shielded room that is designed specifically for the use in medical environments such as EEG, to give optimised performance at VLF/ELF frequencies.

This helps protect the highly sensitive test equipment inside the room from interference. Includes sound dampening and a fully finished interior.



TEM Shielded Rooms

Global EMC's TEM-SR is a shielded room that is designed specifically to shield sensitive TEM microscopes from 50/60 Hz and Quasi-DC interference.

Through passive shielding and an active cancellation system, a shielded room is created to ensure the microscope can work at its greatest potential. Global EMC are industry experts in providing room shielding for TEM microscopes using our specially developed Iron+® shielding and active cancellation systems.

Magnetic Field Shielded Trunking

Armadillo is a specially developed shielded trunking/containment for high current LV & HV feeder cables to attenuate harmful magnetic fields to acceptable levels in line with European emission standards. Armadillo is made from very high magnetic permeability material Iron+® and is very effective at power frequencies (50/60hz) shielding. This product has a shrouded joint mechanism in every length so that there are no loose couplers.



About Us



Global EMC specialise in the production and installation of Faraday cage shielding and anechoic chambers.

We offer bespoke turnkey solutions that meet our customers' manufacturing demands; facilitating the process with precision engineering and outstanding attention to detail.

After Brexit, Global EMC can still supply EU countries at 0% import duties.



Our History

With over 25 years in the industry, Global EMC with its range and depth of knowledge is uniquely placed to understand the needs of our clients, and to work with them to identify the best solutions to the most complex of projects.

Our commitment to innovation and excellence ensures we meet our clients' needs, ensuring that solutions are implemented to the highest of standards, and long-term customer relationships are formed.

Located in central England we have successfully delivered projects in 24 countries across the globe, we have the capability and infrastructure to deliver any project from a small cabinet, right up to a 10m compliant chamber.

Proven Track Record

We have a proven track record, delivering in excellence for a range of industries including, education and research, medical and security, military and defence and the vehicle and transportation sectors.

Product Portfolio

Manufacturing to order from our 1800m² factory based in Nottinghamshire, UK, we have dedicated manufacturing areas along with full fabrication facilities and a shielded room for testing and research and development. We design and manufacture bespoke solutions for all our clients and projects. The ethos behind the whole design and manufacturing system at Global EMC is to produce the best possible product to meet our client's exact requirements. Our products include:

Applications

- Anechoic Test Chambers
- Faraday Cages
- RFI/EMI Shielded Enclosures
- VLF / ELF Magnetic Field Shielding
- High Voltage Laboratories
- Armadillo Shielded Containment

Anechoic Materials and Shielding Components

- High Power Absorbers
- Hybrid Absorbers
- Long Hollow Absorbers
- Microwave Absorbers
- Wedge Absorbers
- Special Absorbers
- Ferrite Tiles
- Filters
- Shielded Doors
- Sliding Doors
- EMI Shielding Fabric
- Ventilation Panels



**MADE *in*
BRITAIN**

We always put the customers' requirements first in everything we do; working with each individual customer to develop a bespoke solution to meet their exact specification, on time and within budget.



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EST. 1994



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