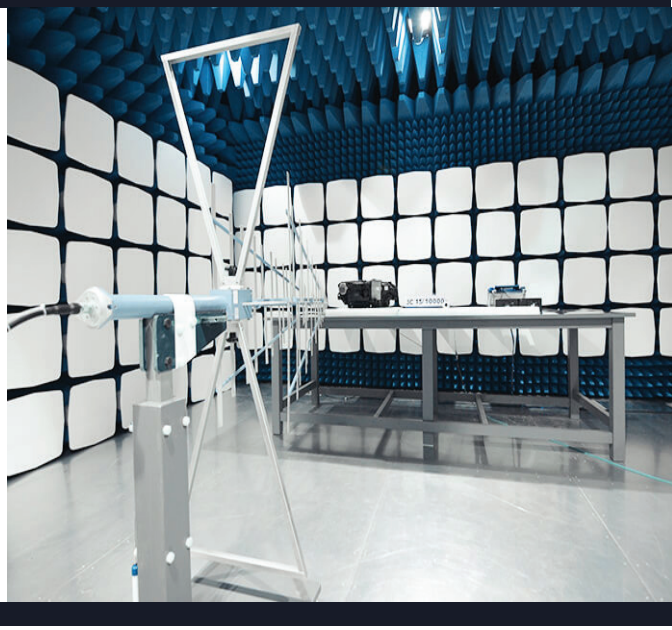
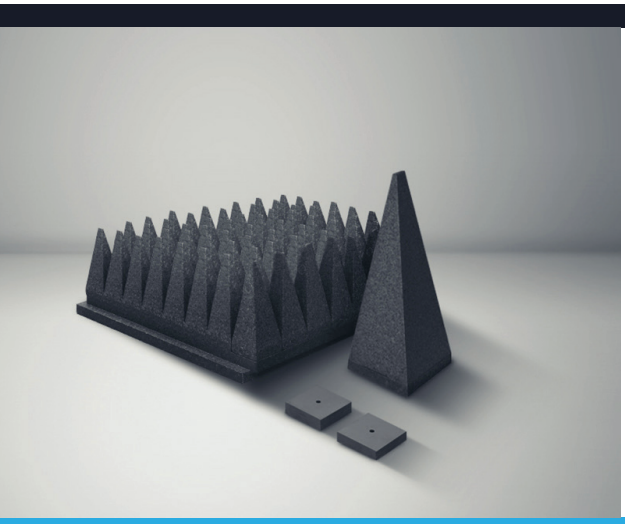
MIL-STD-461 Military Test Chamber

GLOBAL EMC
ELECTROMAGNETIC SHIELDING & ANECHOICS EST. 1994

This Product Features

Testing facility for performing compliant tests to MIL-STD-461 and DO-160. The chamber can be designed to test small electronic equipment to very large military vehicles. Communication and electrical equipment, armaments, aircraft equipment and vehicles are all examples of what can be tested.
The anechoic pyramidal absorber, bespoke to this standard increases the internal space within the chamber and helps reduce the overall cost. Due to the varied requirements of the equipment to be tested, all MIL-STD-461/DO-160 chambers are designed and manufactured to exact requirements.
This chamber can also be adapted to meet the requirements of DEF STAN 59-411 upon request.





High Performance Anechoic Lining

Ferrite tiles & Absorbers - The walls and ceiling of the test chamber are precisely lined with the latest generation gapless hybrid pyramidal absorbers and ferrite tiles. The Pyramidal absorbers are precisely doped to ensure a smooth transition between the high performance of the Ferrite tiles at lower frequencies to the Pyramidal Absorbers in higher frequencies. The “plug-in” base system of the absorbers means that individual absorber cones can be replaced if accidentally damaged during operation of the test chamber. This reduces the cost of repairs and time taken for the test chamber to become fully operational again.

Frequency Test Range		*Minimum Dimensions*		
Height	*Part Number*	*Length*	*Width*	*Height*
650mm	*RLT-650*	*Custom Size*	*Custom Size*	*Custom Size*

CHOOSE THIS TEST CHAMBER FOR

RTCA DO-160

RTCA DO-160 (Aerospace) test procedures; a standard for the environmental test of avionics hardware.

Shield Attenuation

Fully compliant emissions testing to EN 507147-1, a BSI standard for validating shielding effectiveness.

Military Testing

Built to MIL-STD-461 standards for the control of electromagnetic interference (EMI).

MIL STAN 461

MIL-STD-461 testing ensures that products meet the stringent requirements for products used in rugged military environments. This covers, but is not limited to, the electromagnetic compatibility characteristics of equipment and systems.

Military

Specifically relating to UK defence standardisations.

EMC

Electromagnetic compatibility or EMC testing gives the manufacturer of a product the ability to demonstrate the ability of their product.

Test Facility

An EMI/RFI shielded room, using a Faraday cage principle.

This is to stop unwanted signals from the ambient environment entering the chamber and causing interference whilst tests are being performed.

MIL-STD-461 MILITARY TEST CHAMBER

Anechoic performance in accordance to MIL-STD-461 at 80MHz and greater than 10dB at 250MHZ.

Shield effectiveness to EN50147-7.

1m measuring distance.

Designed and manufactured to the highest standards in Great Britain.

Bespoke solution upon request. Test facility can be configured to your exact requirements.

Industry-leading low maintenance shielded door with copper beryllium knife edge seals.

Moulded polystyrene pyramidal Hybrid Absorbers to all walls, ceiling and partial floor covering. (Absorber coverage as far as physically possible).

Latest Technology high-performance GF 102 ferrite to all walls, ceiling and partial floor covering.

Specialist filters are available.

Conductive test bench grounded to the chamber to requirements.

External Dimensions
To customer requirements*.

Shielded Pedestrian Door (Clear Opening)
1000mm (W) x 2000mm (H)*

Steel Structure
Self-supporting structure to industry standards.

Shield
Modular 2mm steel “pan” shield.

Honeycomb Vents
4 x 300mm (W) x 300mm (H) (Static Air).

Penetration Panel Connectors
2x Precision N type, & 2 x Fibre

Additional Options Include:
Mast, Fire detection, Vehicle Sliding Doors, Air conditioning (HVAC), CCTV, Test benches, Vehicle fume extraction, Whitecaps to absorbers, Lighting, Power, Turntable, Heavy floor loadings, DC Sockets, Filters & Audio Communication.
*All dimensions can be altered upon request (Subject to compatibility)

SCAN ME

MADE in BRITAIN