

# High performance systems for EMC and RF protection environments



## RSC - REMC Shielded Chamber

A Rainford Shielded Chamber provides the necessary RF quiet environment in which to conduct many different application testing such as EMC, wireless, automotive, military to name but a few.

**Radiated Emission: 30MHz - 18GHz**

**Radiates Immunity: 30MHz - 6GHz**

As design and manufacture of the shielded panels is carried out by Rainford EMC Systems it enables great flexibility not only in the systems employed but also in the materials used. Bespoke dimensions can be incorporated to help with any specific customer needs. As all the major components of the chamber are also designed, manufactured and installed by Rainford EMC Systems this promotes fantastic continuity in the product, smooth installation and ultimately less concern for the customers.

### Key features:

- Pre compliant for Immunity and Emission performance in accordance with **EN61000.4.3/ EN50147-1**
- RSC also meets several **ETSI** test standards (**UKAS accredited**)
- **Total turnkey solutions**, including various of Test equipment and Test systems available
- Flexible modular design enables easy site changes or upgrading
- Independently certified **100dB @ 18GHz** shielding performance (ISO17025)



### General Description:

The Rainford **RSC** chamber's designed to suit customer's needs with our strong design capability and experience gained through multiple installations around the world.

Using our SmartShield high performance, modular construction shielding system, we can offer a versatile demountable system.

A combined Managerial experience in EMC of over 100 years, to provide complete customer satisfaction.

The Rainford **RSC** is just one of a range of pre-defined designs that includes the Rainford **RCC** (Compact Chamber), **RMCC** (Mini Compact Chamber), **REMC3**, **REMC5** & **REMC10**.

High quality and long life, are guaranteed with our **ISO9001** certified production facility.

With the future in mind, Rainford EMC is certified according to the Environmental standard **ISO14001**

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## Standard Equipment

1 x 0.9m x 2.1m Personal Door  
1 x Mains Filter 240v, 32A  
Feedthrough Interfaces includes:  
4 x N-Type Connectors  
2 x BNC Type Connectors  
2 x Fibre Optic  
1 x Penetration Tube 5cm with Cap

4 x 300mm x 300mm Attenuvents  
2 x Penetration Panels  
Electrical Installation includes:  
1 x Consumer Unit  
6 x Single phase sockets  
4 x Lights

## SmartShield

The Rainford SmartShield range consists of two different systems:

- **SmartShield MS (Modular Sandwich) System**

### Technical:

Constructed from two galvanised steel plates which sandwich a wooden core of 19mm. The wooden core which can be supplied as moisture resistant or non-flammable is laminated to the steel skins by a long lasting and durable adhesive. The panels are connected to each other by means of a 'hat and baton' clamping system which is forced to the required level.

### Benefits:

- \* Low Cost
- \* Modular Construction
- \* Quick Installation
- \* Aesthetically Pleasing
- \* Penetrable (up to 50%)



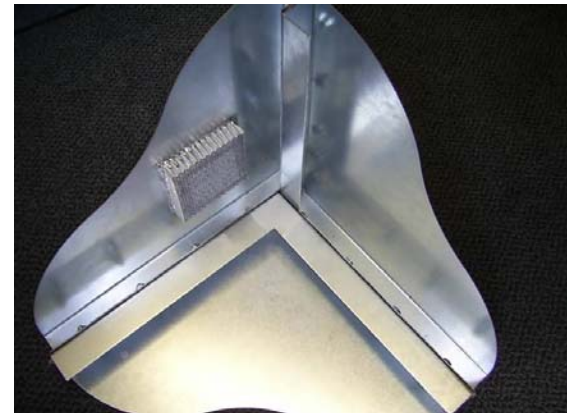
- **SmartShield HPMT (High Performance Modular Tray) System**

### Technical:

Constructed from preformed trays using 2mm thick zinc coated mild steel. The panels are connected to each other by means of a 'double P' shaped TCS (tinned copper steel) gasket which is compressed between two sheets with bolts every 100mm.

### Benefits:

- \* High Performance
- \* Modular Construction
- \* Quick Installation



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