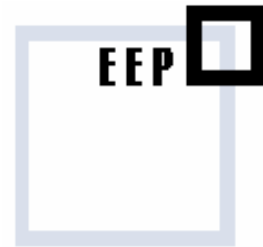


# PROJECT CHECKLIST

## SHIELDED ROOMS AND ANECHOIC CHAMBERS



European EMC Products Ltd

Details required when specifying an RF Shielded chamber, Anechoic Chamber or Architectural Shielding

### GENERAL

What is the client trying to achieve? This can generally be divided into 4 categories.

1. There is an external interference problem which is interfering with internal equipment or operations, ie computer monitors are being affected by a neighbouring factory.
2. The client will be generating interference which will cause problems to others, ie an RF dryer interfering with a CAD system.
3. The client is concerned that sensitive electronic information can be intercepted, ie military Tempest facilities.
4. The client needs to a specific quiet RF test environment to test products, ie an anechoic chamber for EMC testing.

### SHIELDING PERFORMANCE REQUIRED

Frequency range and Attenuation (dB) in:

MAGNETIC FIELD                      ELECTRIC FIELD                      PLANE WAVE                      MICROWAVE

### SHIELDED AREA STRUCTURAL REQUIREMENTS

Size: Lm x Wm x Hm                      Internal or external .  
Available clear space in host building: Lm x Wm x Hm  
Structural support: Supported from the host building or self supporting.  
Isolation: Does the structure need to be isolated from ground? If yes value.  
Doors: Quantity, size and handing  
Ventilation: Type required or specification  
Penetrations: Type required or specification  
Filters: Power, data, telephone and control line  
Lighting: Type required or specification  
Electrical distribution: Circuit required or specification  
Fire detection and suppression: Type required or specification  
Internal finishes: Floor, wall and ceiling finishes

### SHIELDING EFFECTIVENESS TESTING

Standards: MIL STD 285 or other                      Test frequencies and range:

### ANECHOIC CHAMBERS

Type of chamber: Semi anechoic, free space or other  
Frequency range of interest:  
Largest EUT (Equipment Under Test):  
Standards to be tested to:  
Radiated emissions chamber: Nominal range length, 3m, 5m, 10m or other  
Radiated emissions chamber: Deviation from NSA (Normalised Site Attenuation)  
Radiated susceptibility chamber: Field uniformity

### ANECHOIC CHAMBER TESTING

Type of testing required:                      Standards:                      Test frequencies and range:

### INSTALLATION

Complete or supervised installation:                      Site conditions:                      Off loading responsibility:  
Distance from off loading area to installation site:                      Storage area:                      Power and light:  
Site hours and working constraints:

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