

Electric Installation in Shielded Rooms

The electrical installation in the chamber (starting from mains filter) may be performed either by our electricians or by the customer himself. If Frankonia performs the installation the following standard equipment is included.

- Electrical distribution box with MCBs (over-current protection, e.g. 16 A, 32 A etc.), and RCDs (earth fault protection, e.g. 30 mA tripping current)
- Chamber illumination
- Raised floor connection boxes with trunking or dado trunking around perimeter of walls with corresponding plug installation
- Emergency Panic switch
- Battery buffered emergency lighting above the door

Electric Installation in Chambers with Absorber Lining

a) Electric Distribution

In rooms with ferrite / hybrid absorber lining, the electrical distribution box is accessible from the inside of the chamber. The door of the distribution box is lined with ferrite absorbers as well. In rooms with pyramid absorber lining, the electrical distribution box is accessible from the outside of the chamber. A shielded door can be opened easily to gain access to all MCBs and RCDs.

b) Illumination

For anechoic chambers, the standard illumination consists of halogen lamps which are preferably installed in the corner areas of the ceiling (in case of ferrite absorbers) or between the absorber tips (in case of pyramid absorbers). For large chambers (e.g. 10 m test range) a lamp lift is available as an option which allows lowering the lamps from the ceiling if bulbs must be changed. The cables to the lamps are installed behind the absorbers in metallic tubes.

c) Connection Boxes in the Raised Floor

In anechoic chambers, no installations can be made on the chamber walls. In this case the complete electric installation (Power outlets, RF connectors, DC connectors etc.) as well as the necessary connections to the EUT (fibre optic lines, control lines, compressed air etc.) and to the test equipment (RF-cable etc.) is placed into trunking systems under the raised floor. If a turntable is installed in the chamber / room, a box for electric supplies can be installed as integral part in the center of the turntable.



Electrical distribution box access from inside



Electrical distribution box access from outside



Lamp lift



Outlet box in raised floor