



Modular

Prefabricated pan-type shielding modules made of 2 mm thick galvanized sheet steel, 20 µm minimum acc. to DIN 17162 - EN 10142 - Quality DX 52 D + Z

Thickness of the galvanization: min. 275 g/m² by chemical passivation and tolerances acc. to DIN/EN 10143

Bolted every 75 mm

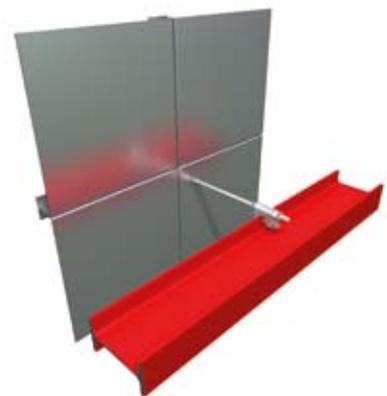
Self-supporting construction

Technical construction

Our RF-shielded rooms and anechoic chambers are designed as a modular concept. This means that we use standardized parts, which assure a maximum of flexibility in view of the possible dimensions. The various shielding components are matched in a way that variations of length, width and height as well as lateral offsets may be realized without any problem during later modifications. In order to use the maximum available space of the existing installation area, special adjusting modules are available which allow the realization of almost any dimensions requested. In the normal configuration, the individual shielding modules are bolted from the inside so that they can be installed close to the walls of the building. If required, the panels can also be bolted from outside (e.g. when chambers must be attached to each other). The panels are made of galvanized sheet steel with a thickness of 2.0 mm. The sheet steel is double-edged in order to achieve two things: self-supporting stability and assembly by screwing. The corners of the individual panels are welded and spray-galvanized. The individual shielding panels are bolted every 75 mm with a wire mesh gasket inserted into the gap. The small screwing distance as well as the precise tightening of the screws with pre-defined torque guarantees long life shielding attenuation characteristics. All chambers are self-supporting up to a width, length and height of 3.0 m. Beyond these dimensions, additional steel supports (beams, columns) are installed on the outside to stabilize the chamber.

Steel structure

The steel structure of Frankonia is made of strong steel girders which are totally self-supporting. When designing customized anechoic chambers and shielded rooms we especially take into consideration the stability of the chamber, seismic conditions as well as the achievement of a low point load to the concrete slabs of the building. Our steel girders are painted with a corrosion prevention on which we give a guarantee of 10 years.



Example of wall fixation



Screwing of shielding panels



Example of ceiling fixation