Institute of Fluid Mechanics
and Engineering Acoustics

Technische Universität Berlin

Anechoic Room

Application area	☒ Facility ☐ Mechanical Property measurement ☐ Physical Property measurement ☐ Acoustical Property measurement
Parameter What can be measured with this method	Various parameters including sound power, sound directivity patterns, etc.
Principle/Method:	Anechoic Room
Standard/Reference: Literature documenting this method	Sound power measurements according to ISO 3745
Manufacturer:	G+H
Technical specifications: (Dimensions of rooms, size of the test-rig, working frequency range...)	Large size anechoic room, free volume 1070 m^3, walkable area 126 m^2, lower frequency limit 63 Hz

Description:

The large size anechoic chamber absorbs sound in all directions. Thus, it is a fully anechoic chamber without a hard surfaced bottom. The room is equipped with a net to walk on and to place light equipment. There is also a removable grid in the center of the room for placement of heavy equipment, like cars. There is also a ventilation for exhausts. The size of the grid can be varied. Additionally to the large opening door in front of the grid there is a second opening to the adjacent window testing facility. Thus, sound transmission loss measurements with a reverberant sound field on one side and a free sound field on the other side can be performed. Equipment can also be hung via small openings through the ceiling.