



Reverberation Room P20

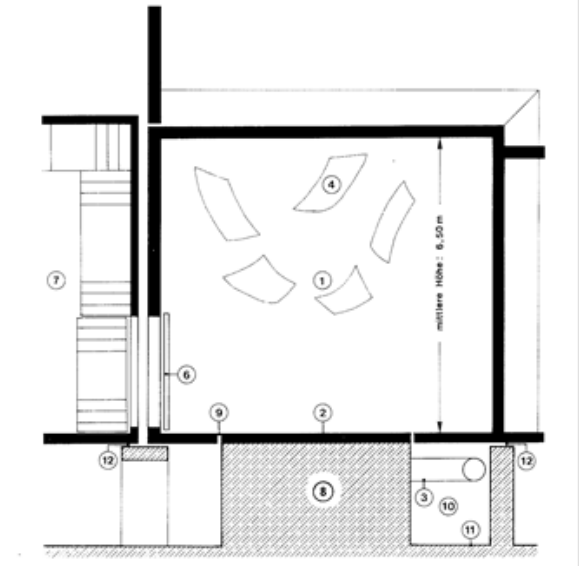
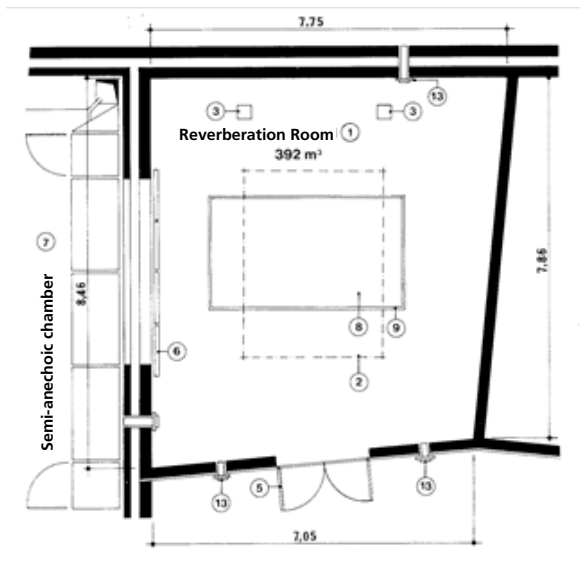
Measurement	sound power, sound absorption coefficient (at diffuse incidence)
Standard	DIN EN ISO 3741, DIN EN ISO 354
Measuring objects	Machinery and equipment, for example of ventilation and air-conditioning systems, air terminals and other noise sources, sound absorber, suspended ceilings, wall linings, office partitions, furniture, seats, panels, textiles, noise barriers
Technical data	
Floor area	60 m ²
Room volume	392 m ³
Entrance door (H x W)	2,4 m x 2,2 m
Connection to a semi-anechoic room	Measurement of sound insulation and sound absorption of elements between reverberation and anechoic room
Size of the connecting door	3,8 m x 2,35 m

Further information

- Low vibration doors with high sound reduction
- Separate plinth to measure the sound power of machines etc.
- Flexible storage in the room to reduce impact sound introduction.
- Controllable air-condition system for the adjustment of temperature and humidity
- Test surface area to determine sound absorption: 12 m² to max. 18 m², aspect ratio between 0,7 and 1
- Compressed air and electric power available

With the adjacent semi anechoic room (model room) the Fraunhofer Institute for Building Physics offers the opportunity to install large-size machine unit, to simulate systems and building complexes as well as for the transition from a free field to a diffuse field by means of a round 10 qm opening. Flanking transmission can be practically excluded.

Floor plan and section of test facility (dimensions in m)



1 reverberation room	4 diffusors	7 model room	10 basement	13 closable wall opening
2 test surface area	5 doors	8 plinth	11 floor	
3 ventilation and air-conditioning system	6 sliding doors	9 joint	12 steel springs	

The test laboratory of the Fraunhofer IBP has been granted flexible accreditation according to DIN EN ISO/IEC 17025 by Deutsche Akkreditierungsstelle GmbH (DAKKS).