



Acoustic Test facility  
for **Doors**  
and small components

## Technical Data

### Test Facility for doors with suppressed flanking transmission

Volumes: 62 m<sup>3</sup> and 54 m<sup>3</sup>

heights: 3,08 m and 3,08 m

widths: 5,00 m and 4,73 m

lengths: 4,00 m and 3,74 m

Dimensions of the test aperture: 1000 mm x 2000 mm

Dimensions of the test object \*): 985 mm x 1985 mm

Maximum sound insulation based on the dimension of the test aperture:  $R'_{max,w} = 61$  dB

Access through the facility doors 0,87 m x 2,02 m and 1,92 m x 2,04 m

Compressed air and electric power available

\*) larger objects can be tested in the test facilities for walls or facades.  
(Adaption to the test facility needed).

The test facility for doors is located within a laboratory accredited according to DIN EN ISO/IEC 17 025 and fulfils the requirements of the Standard DIN EN ISO 140, part 1. Besides the acoustical measurements of functional doors, the sound insulation of door leaves or components can be tested for dimensions up to 1000 mm x 2000 mm.

The facility consists of a cuboid room with lime sand brickwork boundaries, which is subdivided by a double leaf lime sand brickwork.

The ceiling consists of reinforced concrete. The test rooms are acoustically separated from its surroundings. The walls of the source room have additional linings. The test aperture is situated at the partition which separates the subvolumes.

For the determination of the space and time averaged sound pressure level, a microphone is moved along an inclined circular path inside both the source and receiver room. Inside the source room a dodecahedral loudspeaker is moved along an inclined straight path.

