



Fraunhofer Institut
Bauphysik

Acoustic Test Facility for **Façades**

Technical Data

Test Facility for Façades P1

Dimensions:

length:	10,55 m
width:	4,45 m
height:	3,67 m
height up to the lintel:	3,47 m

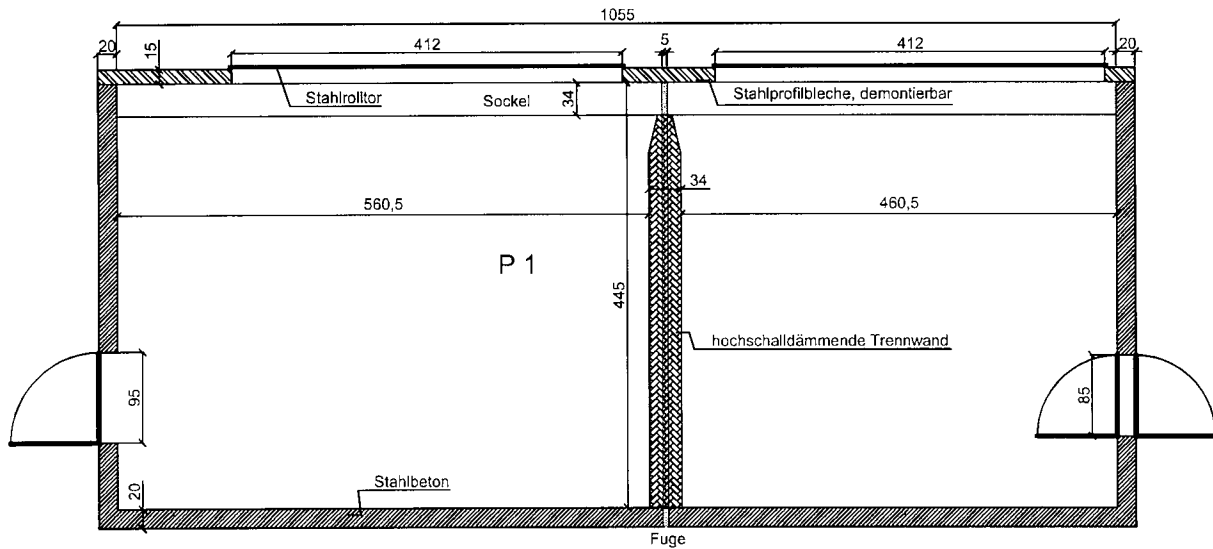
Volumes: approx. 71 m³ and approx. 87 m³

Equipment:

steel doors ($R'_w \geq 40$ dB)
1 double door (steel/wood), clear opening: 0,86 m x 1,99 m
1 single-leaf steel door, clear opening: 0,95 m x 2,02 m
outdoor opening: 3,47 m x 10,60 m,
lockable by rolling steel doors.

Maximum measured sound insulation with a multi-layer light weight partition wall ($R'_{\max,w} \geq 71$ dB).

The test facility for façades consists of a cupped room made of reinforced concrete. The room is provided with an outdoor opening of approximately 36,8 m². It is separated from the further building components and the floor of the complete building. In the area around the partition wall the test facility is provided with a continuous flexible gap.



The test facility of the accredited laboratory (according to DIN EN ISO/IEC 17 025) is used for measurements of airborne sound insulation and flanking transmission of façades and fulfils the requirements of the Standard DIN 52 210-7 with the exception of the maximum height of 3,00 m (up to the lintel 3,47 m).