



Acoustic Test Facility with suppressed flanking transmission for **Partitions** and **Walls**

Technical Data

Test facility P2 with suppressed flanking transmission

Suppression of the radiation from flanking elements by two separating joints

Installation frame:

width: 4,25 m
height: 3,11 m res.. 2,95 m
depth: optional

Surface area of test object's area S: 12,54 m²

Room volumes V*:

source room: ca. 66,0 m³
receiving room: ca. 76,0 m³

* depending on position and thickness of the test object

Dimensions of access doors:

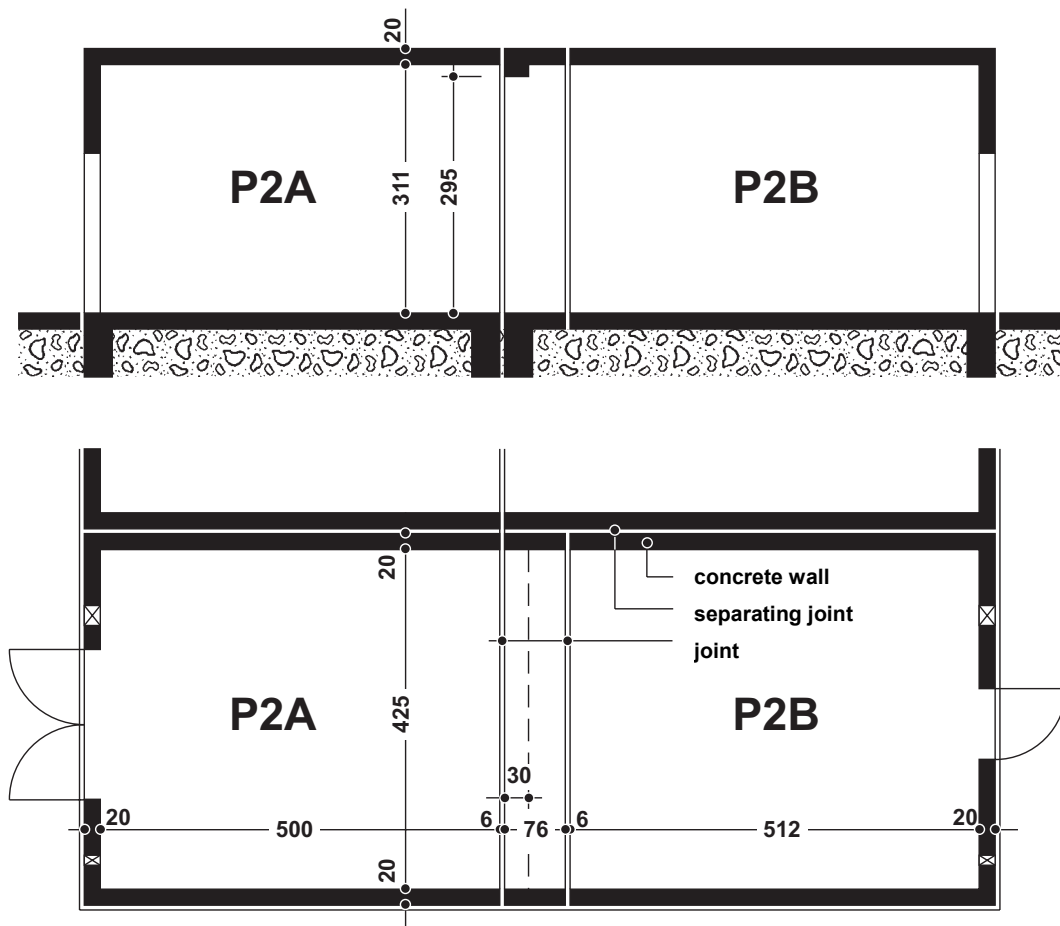
source room: 1,950 m x 2,02 m
receiving room: 0,835 m x 1,99 m

Maximum measured sound insulation with a multi-layer light weight partition wall ($R'_{\max,w} \geq 86$ dB), and a solid wall with additional linings on both sides ($R'_{\max,w} \geq 89$ dB).

The test facility with suppressed flanking transmission of the accredited laboratory (according to DIN EN ISO/IEC 17 025) fulfils the requirements of the Standard DIN EN ISO 140, part 1 and DIN EN ISO 140-12. The suppression of the flanking transmission is provided by two joints.

The test facility is used for measurements of airborne sound insulation of walls and façades as well as for measurements of airborne and impact-sound insulation through access floors according to standard DIN EN ISO 140-12

The measurements are carried out in rooms with volumes of more than 50 m³. Third-octave noise is used as test sound. For the determination of the spatial and temporal averaged sound pressure level, two microphones are moved along inclined circular paths inside the source and receiving room. A dodecahedral loudspeaker is moved along an inclined straight path inside the source room.



Dimensions in cm