



Wall Test Laboratory P2

with suppressed flanking transmission

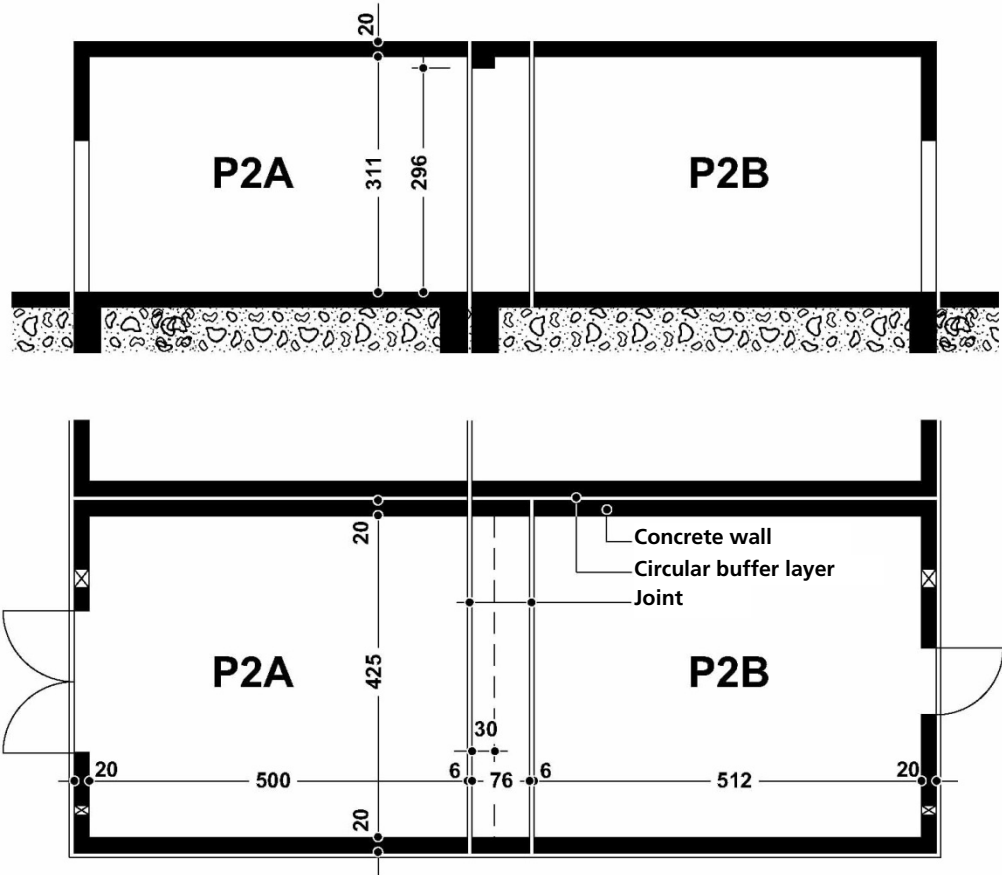
Measurement	Sound insulation, Normalized flanking level difference Normalized flanking impact sound level
Standard	DIN EN ISO 10140, DIN EN ISO 10848
Objects to be measured	Separating walls with high sound insulation, massive and lightweight wall constructions, cinema walls, facades, roofs, access floors
Technical data	
Room volume	66 m ³ and 76 m ³
Entrance doors (H x W)	1,99 m x 0,835 m and 2,02 m x 1,95 m
Dimensions of test opening (H x W)	2,95 m x 4,25 m and 3,11 m x 4,25 m
Size of test samples (H x W)	2,93 m x 4,23 m and 3,09 m x 4,23 m
Max. sound reduction (related to the max. size of test sample)	$R_{\max,w} = 89$ dB

More information

- Suppression of flanking transmission is achieved by two circular buffer layers
- Wall constructions with high sound insulation at low frequencies, for example separating walls in cinemas, can be tested in this wall test laboratory.
- Height of the walls up to the upper floor or to the lintel below the upper floor.
- Pneumatically movable loudspeaker in the source room and receiving room.
- Test facility trafficable by forklift.
- Compressed air and electric power available

The test facility is suited to measure the air-borne insulation of walls and facades as well as the air-borne and structure-borne sound insulation by access floors.

Section and floor plan of test facility (dimensions in cm)



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