

Test Laboratory for Floating Floors and Floor Coverings P9/P10

Measurement	Impact sound insulation, sound insulation
Standard	DIN EN ISO 10140
Measuring objects	Floating floors, floor coverings, laminate floors, parquet, stone slab floors,
Technical data	
Room volume	P9 A (EG): 62 m ³ , P9 B (UG): 54 m ³ P10 A (EG): 70 m ³ , P10 B (UG): 61 m ³ :
Entrance doors (H x W)	P9 A, (source room): 2,05 m x 1,91 m P9 B (receiving room): 2,05 m x 1,89 m P10 A (source room): 1,95 m x 0,83 m P10 B (receiving room): 1,99 m x 0,84 m
Installation surface area (L W)	P9: 4,70 m x 3,70 m P10: 5,00 m x 4,00 m
Floor	P9: 0,14 m (reinforced concrete solid floor) P 10: ca. 0,19 m (reinforced concrete solid floor)
Max. sound reduction (related to the max. size of test sample)	$R'_{\max,w} = 75$ dB (P9)

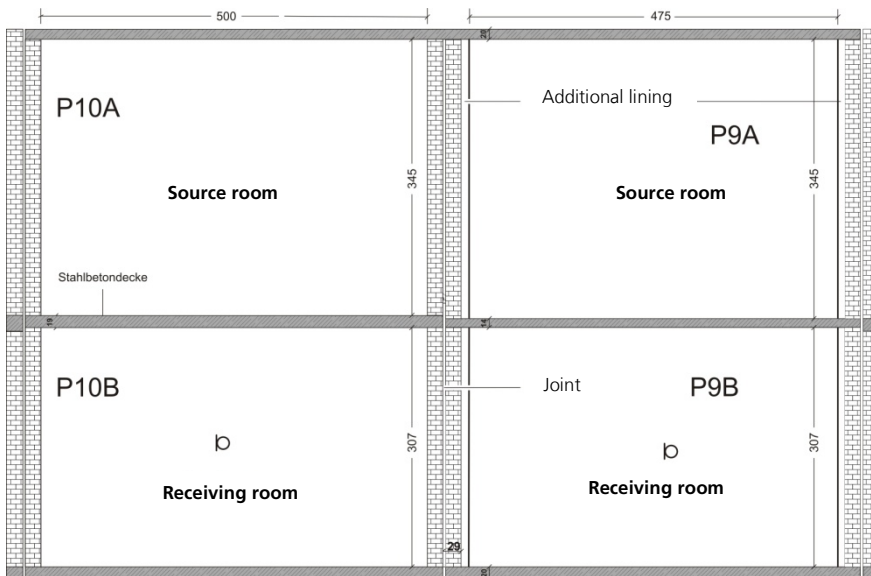
Further information

- Additional lining for the suppression of flanking transmission in the source room and receiving room of 9.
- The surface of the floor is specifically polished to allow the application or adhesive bonding of thin and flexible coverings. The impact sound reducing effect of this kind of coverings can be determined in this way.
- Apart from the impact sound in the receiving room the noise generated in the sending room (walking sound) can be measured and weighted.
- Pneumatically movable loudspeaker in the source room of P9.

Floor plan of test facility (dimensions in cm)



Vertical section 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).