Sound insulation index to DIN EN ISO 10140-2010

P-BA 139/2016

Applicant: DORMA Hüppe Raumtrennsysteme GmbH & Co. KG
26655 Ocholt, Germany

Results sheet 1

Subject:
Movable wall (test item S 10967-01), type Variflex 100, with two full-wall elements and one telescopic element, clad on both sides with 16 mm thick, coated chipboard sheets, element cavity without mineral wool.
The movable wall (partition) was in a fully functional condition.

Element configuration:

16 mm	coated chipboard sheet, mass per unit area: approx. 10.8 kg/m²
68 mm	cavity, not filled
16 mm	coated chipboard sheet, mass per unit area: approx. 10.8 kg/m²

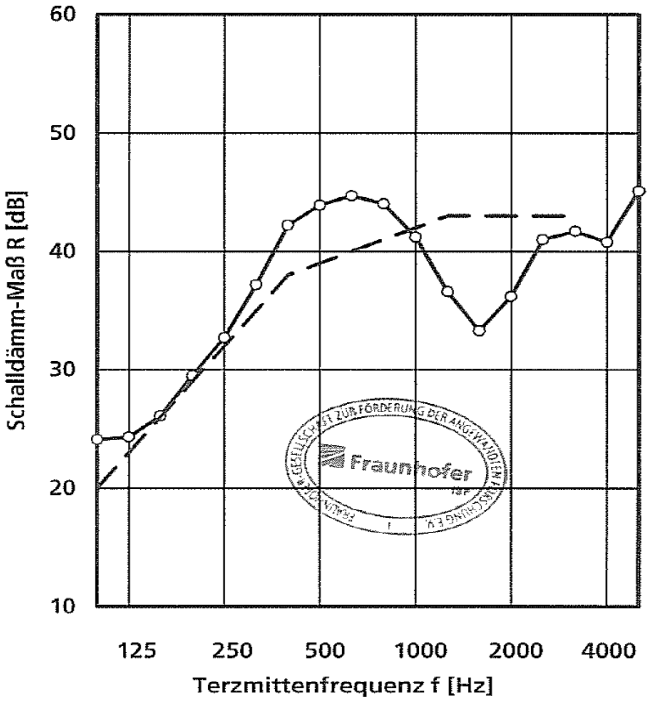
Thickness of wall: 100 mm
Mass per unit area of wall: 30 kg/m², incl. frame and mechanism

For a further description of the subject and technical data, see Table 1 and also Figs. 1 and 2.

Tested surface area: 10.75 m²
Test rooms: P6
Room volumes:
Source V_S = 51.5 m³
Receiver V_E = 63.2 m³
Type: Test stand
Rel. humidity: 42% ± 2%
Air temperature: 21.2°C ± 0.3°C
Static air pressure: 970 hPa ± 1 hPa
Test sound: Pink noise
Date of test: 21 Oct. 2014

f [Hz]	R [dB]
50	-
63	-
80	-
100	24,1
125	24,3
160	26,1
200	29,5
250	32,7
315	37,2
400	42,2
500	43,9
630	44,7
800	44,0
1000	41,2
1250	36,6
1600	33,3
2000	36,2
2500	41,0
3150	41,7
4000	40,8
5000	45,1

Sound reduction value R [dB]



Third-octave centre frequency f [Hz]

Weighted sound reduction index to DIN EN ISO 717-1:2013
R_w (C; C_{tr}; $C_{100\text{-}5000}$; $C_{tr,\ 100\text{-}5000}$) =
39.7 ± 1.2 (-2; -4; -1; -4) dB

Fraunhofer IBP

This test was carried out in a test laboratory of the IBP, accredited to DIN EN ISO/IEC 17025:2005 by the DAP with certificate no. D-PL-11140-11-01.

Stuttgart, 22 June 2016
Test department manager: