

Sound insulation index to DIN EN ISO 10140-2010**P-BA 141/2016**

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

Results sheet 1

Subject:

Movable wall (test item S 10967-03), type Variflex 100, with two full-wall elements and one telescopic element, clad on both sides with 16 mm thick, coated chipboard sheets, each with 1 x 2.5 mm thick heavy-duty matting adhesive-bonded on their internal faces; element cavity filled with 40 mm thick 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/m ²
2.5 mm	heavy-duty matting, full-face adhesive-bonded, mass per unit area: 5 kg/m ²
68 mm	cavity filled with 40 mm thick loosely packed mineral wool (product name Knauf Insulation Universaldämmwolle Classic D-O40 insulation wool, length-related flow resistance $r \geq 5$ kPa·s/m ² ; density: approx. 30 kg/m ³)
2.5 mm	heavy-duty matting, full-face adhesive-bonded, mass per unit area: 5 kg/m ²
16 mm	coated chipboard sheet, mass per unit area: approx. 10.8 kg/m ²

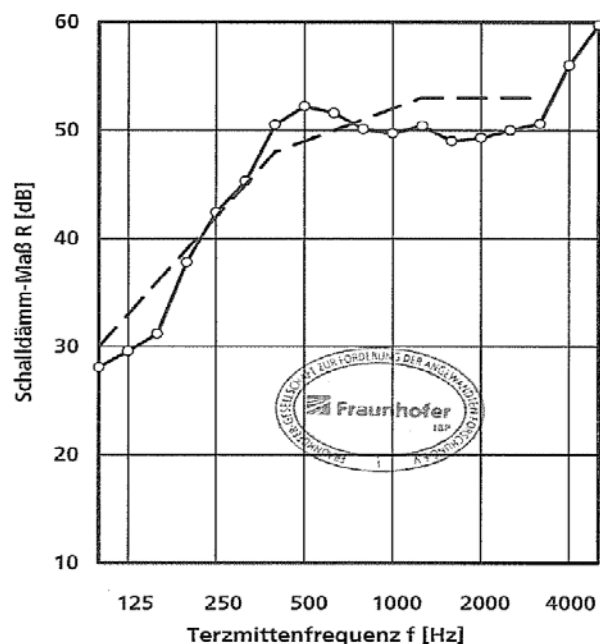
Thickness of wall: 100 mm

Mass per unit area of wall: 40 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	28,1
125	29,6
160	31,2
200	37,8
250	42,4
315	45,3
400	50,5
500	52,2
630	51,6
800	50,1
1000	49,7
1250	50,4
1600	49,0
2000	49,3
2500	50,0
3150	50,6
4000	56,0
5000	59,7

Sound reduction value R [dB]**Third-octave centre frequency f [Hz]**

Weighted sound reduction index to DIN EN ISO 717-1:2013

$R_w (C; C_{tr}; C_{100-5000}; C_{tr, 100-5000}) =$

49.1 ± 1.2 (-2; -6; -1; -6) 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: