

Sound insulation index to DIN EN ISO 10140-2010**P-BA 140/2016**

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

Results sheet 1

Subject:

Movable wall (test item S 10967-02), 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 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/m²
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/m²; density: approx. 30 kg/m³)
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: 31 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%

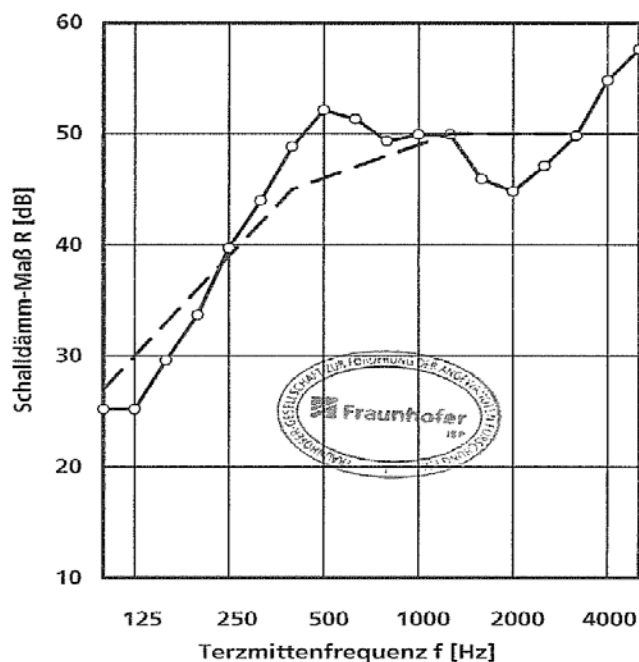
Air temperature: 21.2°C ± 0.3°C

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	25,2
125	25,2
160	29,6
200	33,7
250	39,7
315	44,0
400	48,8
500	52,1
630	51,3
800	49,3
1000	49,9
1250	49,9
1600	45,9
2000	44,8
2500	47,1
3150	49,8
4000	54,8
5000	57,6

**Sound
reduction
value R
[dB]**

Third-octave centre frequency f [Hz]

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

$$R_w (C; C_{tr}; C_{100-5000}; C_{tr, 100-5000}) = 46.7 \pm 1.2 (-2; -6; -1; -6) \text{ dB}$$

**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: