

Sound insulation index to DIN EN ISO 10140-2010**P-BA 146/2016**

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

Results sheet 1

Subject:

Movable wall (test item S 10967-10), type Variflex 88, with two full-wall elements and one telescopic element, clad on both sides with 10 mm thick, coated MDF boards; element cavity filled with 40 mm thick mineral wool.
The movable wall (partition) was in a fully functional condition.

Element configuration:

10 mm coated MDF board, mass per unit area: approx. 7.4 kg/m²
68 mm element cavity filled with 40 mm thick loosely packed mineral wool (product name Knauf Insulation Universaldämmwolle Classic D-O40 insulation wool, length-related flow resistance $r \geq 5 \text{ kPa} \cdot \text{s/m}^2$; density: approx. 30 kg/m³)
10 mm coated MDF board, mass per unit area: approx. 7.4 kg/m²

Thickness of wall: 88 mm

Mass per unit area of wall: 24 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 $V_S = 51.5 \text{ m}^3$

Receiver $V_E = 63.2 \text{ m}^3$

Type: Test stand

Rel. humidity: 42% $\pm$ 2%

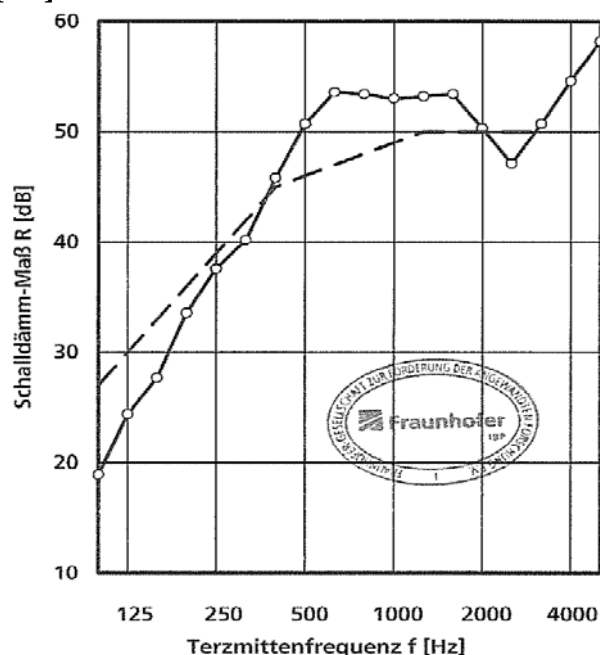
Air temperature: 21.2°C $\pm$ 0.3°C

Static air pressure: 970 hPa $\pm$ 1 hPa

Test sound: Pink noise

Date of test: 2 Dec. 2015

f [Hz]	R [dB]
50	-
63	-
80	-
100	18,9
125	24,4
160	27,7
200	33,6
250	37,6
315	40,2
400	45,8
500	50,7
630	53,6
800	53,4
1000	53,0
1250	53,2
1600	53,4
2000	50,3
2500	47,1
3150	50,7
4000	54,6
5000	58,2

**Sound
reduction
value R
[dB]**

Third-octave centre frequency f [Hz]

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

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

46.6 $\pm$ 1.2 (-3; -9; -2; -9) 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: