

Sound reduction test to ISO 140-3, EN 20 140-3 and DIN 52 210-3

P-BA 267/2001
Illustration 5

Applicant: Franz Nüsing GmbH & Co KG
48163 Münster
Germany

Test specimen:

Twin shell, movable partition wall of wood panel construction (Test Sample S 9066-06), Type NW 100. The movable wall consisted of 4 individual panels, each 1022 mm wide x 2860 mm high, one of which was a telescopic panel. On the telescopic panel, the vertical and horizontal seals were equipped with rubber lip seal profiles. The movable wall was fully operable.

Panel construction

- 16 mm outer cladding of wood particle board
- 5 mm acoustic mat (fixed with staples), mass per unit area: 12 kg/m²
- 52 mm void containing 4 layers of loose laid 13/10 mineral fibre sheets (Product description: G+H Isover, Type 73T, 13/10. Manufacturer's stated density approx. 70 kg/m³)
- 5 mm acoustic mat (fixed with staples), mass per unit area: 12 kg/m²
- 16 mm outer cladding of wood particle board

Movable wall thickness: 100 mm

Mass per unit area: 54 kg / m²

For further description, see Page 2 of test report together with Illustrations 1 to 4 and Table 2

Surface area of wall: 12.5 m²

Test rooms:

Volumes: V_S = 68.6 m³
V_R = 76.4 m³

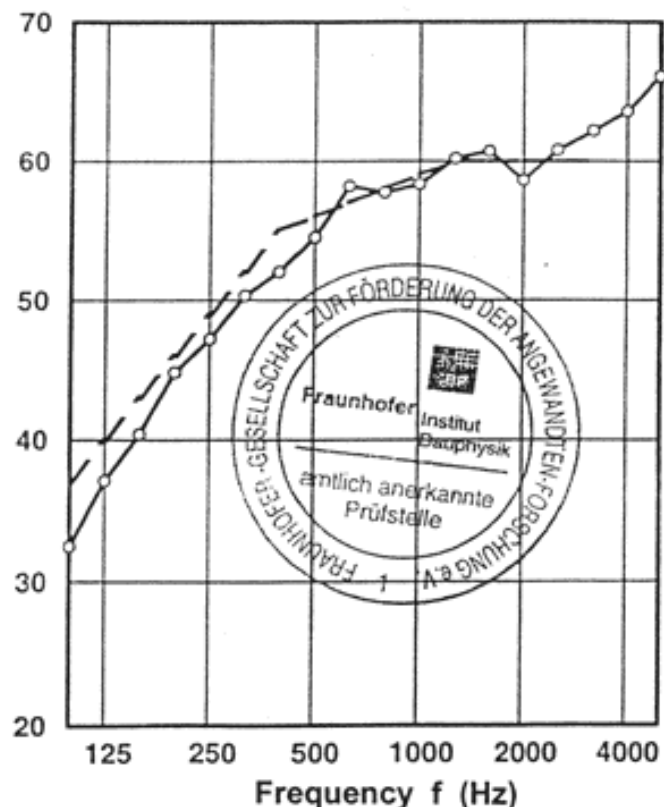
Type: Laboratory
Condition: Empty

Test conditions:

Ambient air temperature: 20° C
Relative humidity of air: 43 %

Date of test: 5 Dec 2001

Sound reduction index R [dB]



Weighted Sound Reduction Index and Spectrum frequency ranges

R_w (C; C_{tr}; C₁₀₀₋₅₀₀₀; C_{tr 100-5000}) =
56 (-2; -7; -1; -7) dB

Fraunhofer
Institut Bauphysik

The test was carried out in an IBP test laboratory, which is accredited in accordance with DIN 45001 by the DAP under Certificate number DAP-PL-2135.17. Stuttgart 11 December 2001

Test facility director: (see signature on German original)