

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

P-BA 268/2001  
**Illustration 5**

Applicant: Franz Nüsing GmbH & Co KG  
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**Test specimen:**

Twin shell, movable partition wall of wood panel construction (Test Sample S 9066-07), 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/m<sup>2</sup>
- 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/m<sup>3</sup>)
- 5 mm acoustic mat (fixed with staples), mass per unit area: 12 kg/m<sup>2</sup>
- 16 mm outer cladding of wood particle board

Movable wall thickness: 100 mm

Mass per unit area: 54 kg / m<sup>2</sup>

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

**Surface area of wall:** 12.5 m<sup>2</sup>

**Test rooms:**

Volumes: V<sub>S</sub> = 68.6 m<sup>3</sup>  
V<sub>R</sub> = 76.4 m<sup>3</sup>

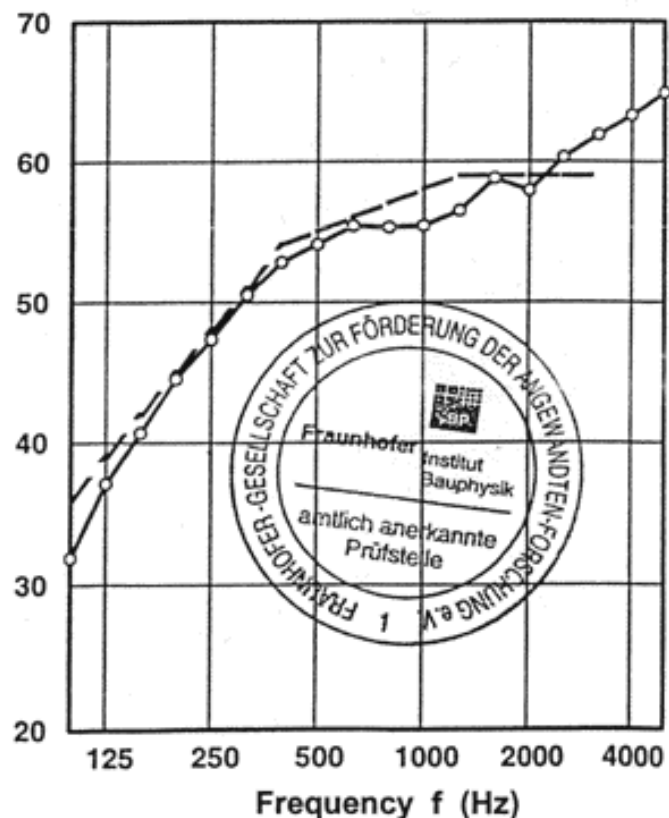
Type: Laboratory  
Condition: Empty

**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<sub>w</sub> (C; C<sub>tr</sub>; C<sub>100-5000</sub>; C<sub>tr 100-5000</sub>) =  
55 (-1; -6; 0; -6) 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)