

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

P-BA 423/1995
Illustration 5

Applicant: Franz Nusing GmbH & Co KG
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Test of building
element

Test specimen:

Twin shell, movable partition wall of wood panel construction, Type NW 100 GP (see illustrations 1 to 4 and Table 2). The movable wall consisted of 4 individual panels, each 1022 mm wide x 2860 mm high, one of which was a telescopic panel.

Panel construction:

- 16 mm outer cladding of wood particle board
- 6 mm acoustic mat (stapled to cladding), mass per unit area: 12 kg/m²
- 59 mm void filled with 4 layers of loose laid 13/10 mm mineral fibre (Manufacturer's description: G+H, 73T 13/10)
- 3.2 mm hardboard (stapled to cladding), mass per unit area 3 kg/m²
- 16 mm outer cladding of wood particle board

Movable wall thickness: 100 mm

Mass per unit area: 46 kg / m²

For further description,
see text on Page 2

Surface area of wall: 12.5 m²

Test rooms:

Volumes: V_S = 68.7 m³
V_R = 76.3 m³

Type: Laboratory
Condition: Empty

Test conditions:

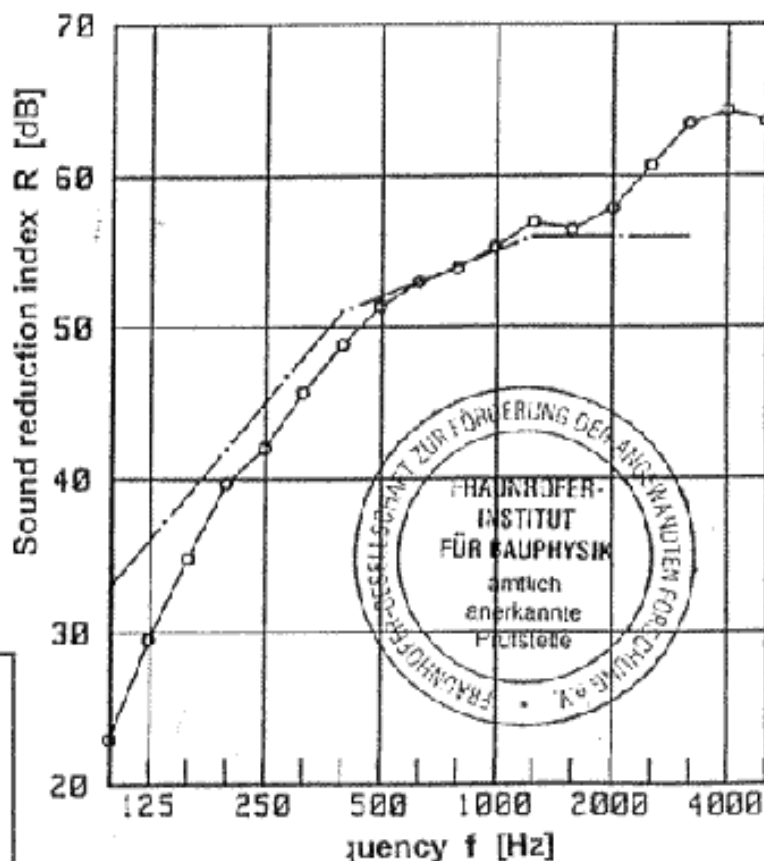
Ambient air temperature: 19° C
Relative humidity of air: 47 %

Date of test: 4 May 1955

**Weighted Sound Reduction Index
and Spectrum frequency ranges**

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

$$52 (-4; -12; -3; -12) \text{ dB}$$



Stuttgart,
12 September 1995

Fraunhofer-Institut für Bauphysik



Test facility director:

Dr.-Engineering W Scholl