

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

P-BA 422/1995
Illustration 5

Applicant: Franz Nüsing GmbH & Co KG
48031 Münster
Germany

Test of building
element

Test specimen:

Twin shell, movable partition wall of wood panel construction, Type NW 100 CP (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:

- 18 mm outer cladding of wood particle board
- 6 mm acoustic mat (stapled to cladding), mass per unit area: 12 kg/m²
- 62 mm void filled with 4 layers of loose laid 15/10 mm mineral fibre
(Manufacturer's description: G+H, 73T 15/10)
- 16 mm outer cladding of wood particle board

Movable wall thickness: 100 mm
Mass per unit area: 43 kg / m²

For further description,
see text on Page 2

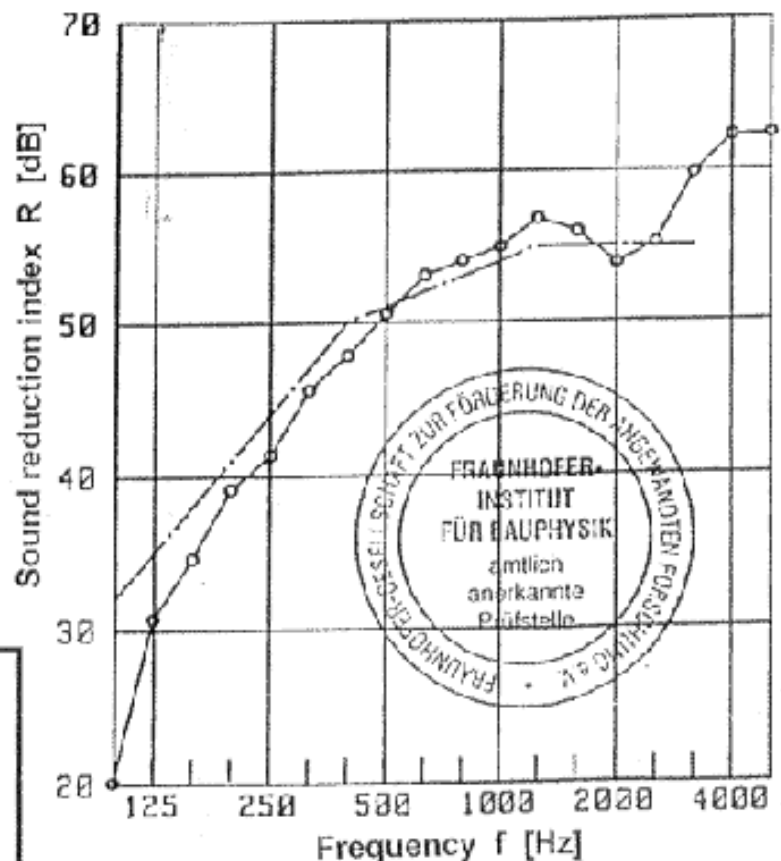
Surface area of wall: 12.5 m²
Test rooms:
Volumes: V_E = 68.7 m³
V_R = 76.3 m³
Type: Laboratory
Condition: Empty

Test conditions:
Ambient air temperature: 19° C
Relative humidity of air: 48 %

Date of test: 4 May 1955

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

R_w (C; C_{tr}; C₁₀₀₋₅₀₀₀; C_{tr 100-5000}) =
51 (-4; -12; -3; -12) dB



Stuttgart,
12 September 1995

Fraunhofer-Institut für Bauphysik



Test facility director:

Dr.-Engineering W Scholl