

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

P-BA 425/1995
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 KA (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

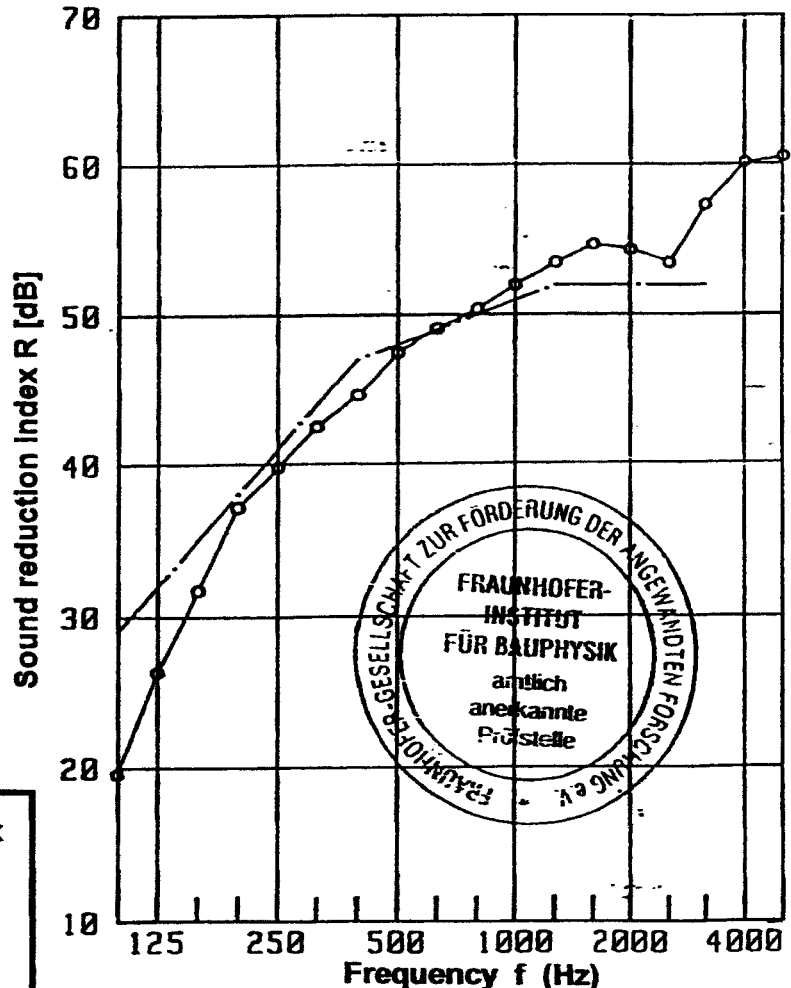
- 16 mm outer cladding of wood particle board
- 3.2mm resin bonded hardboard (fixed with staples), mass per unit area: 3 kg/m²
- 65 mm void containing 4 layers of loose laid 15/10 mineral fibre
(Manufacturer's description: G+H, 73T 15/10)
- 16 mm outer cladding of wood particle board

Movable wall thickness: 100 mm
Mass per unit area: 34 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: 20° C
Relative humidity of air: 47 %

Date of test: 9 May 1995



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

R_w (C; C_{tr}; C₁₀₀₋₅₀₀₀; C_{tr 100-5000}) =
48 (-3; -10; -2; -10) dB

Stuttgart,

12 September 1995

Fraunhofer-Institut für Bauphysik



Test facility director:

Dr.-Engineering W Scholl