

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

P-BA 428/1995  
**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  
68 mm void  
16 mm outer cladding of wood particle board

Movable wall thickness: 100 mm  
Mass per unit area: 24 kg / m<sup>2</sup>  
For further description,  
see text on Page 2

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

**Test rooms:**

Volumes: V<sub>S</sub> = 68.7 m<sup>3</sup>  
V<sub>R</sub> = 76.3 m<sup>3</sup>

Type: Laboratory  
Condition: Empty

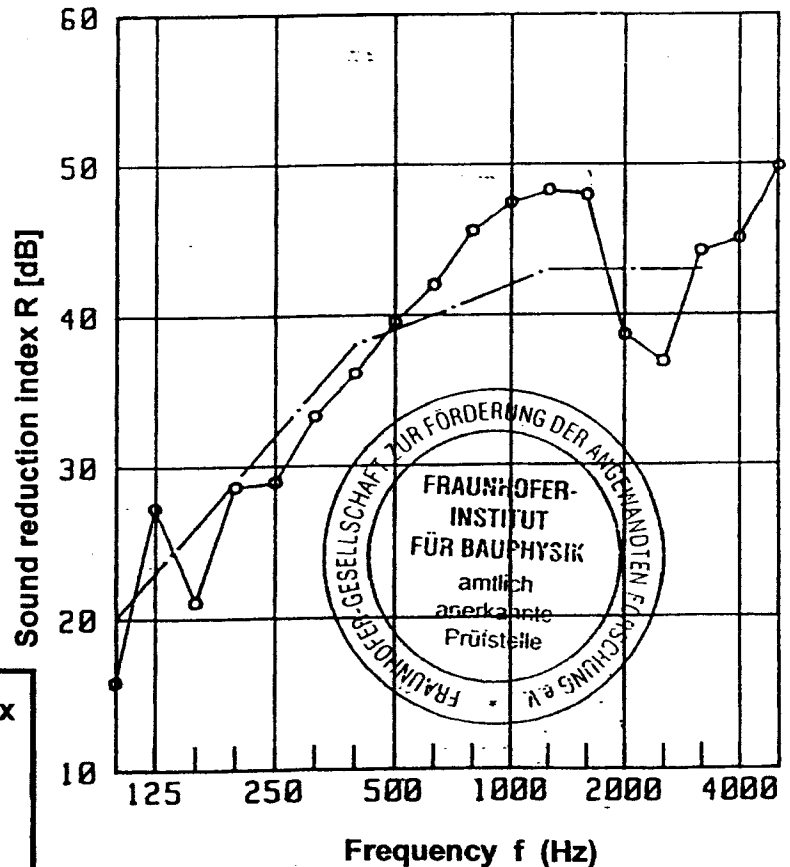
**Test conditions:**

Ambient air temperature: 19° C  
Relative humidity of air: 46 %

**Date of test:** 10 May 1995

**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>) =  
39 (-2; -6; -1; -6) dB



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12 September 1995

**Fraunhofer-Institut für Bauphysik**



Test facility director:  
Dr.-Engineering W Scholl