

Sound reduction measurement to DIN EN 20 140-3*
Measurement of airborne sound reduction of building components
in a test laboratory

TEST REPORT
99 10 26.T4

Applicant Franz Nüsing GmbH + Co. KG
D - 48163 Münster, Borkstraße 5

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Manufacturer: Nüsing GmbH + Co KG
Applicant: Nüsing GmbH + Co KG
Test specimen installed by Nüsing GmbH

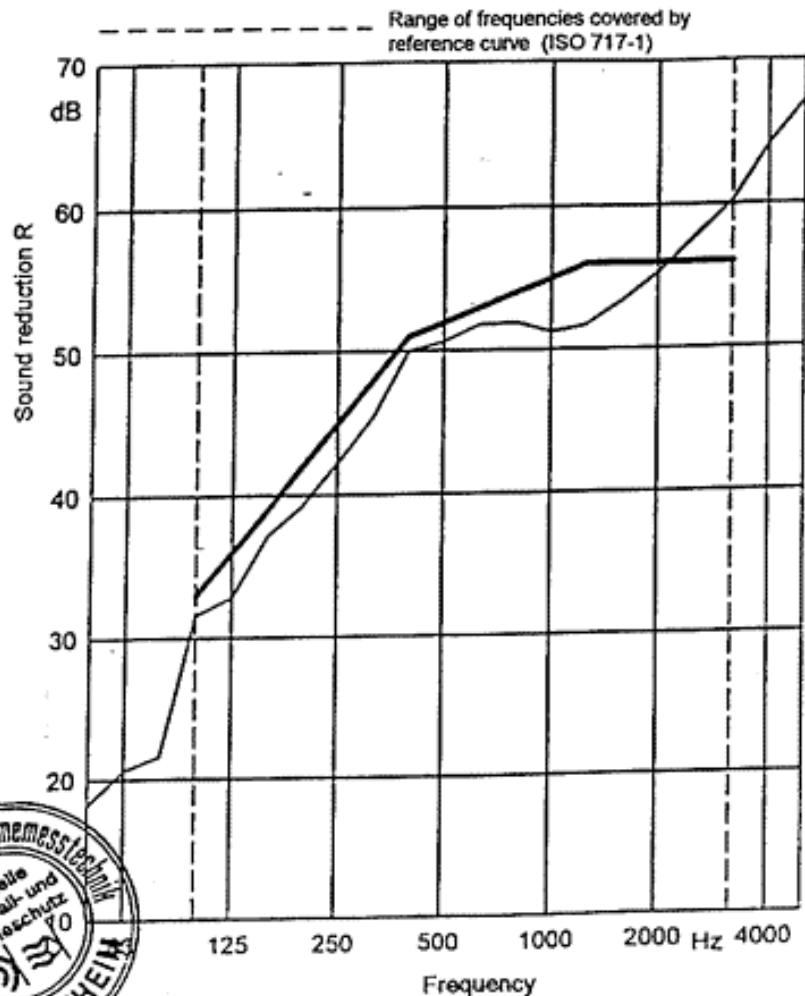
Product description: Movable partition wall; NW 115 F
Test laboratory for walls as in DIN EN ISO 140-01
Date of test: 26.10.1999

Description of laboratory, test specimen and method of testing

Panel sizes: 3 panels 943 x 2830 mm; 1 panel 1210 x 2830 mm; thickness approx. 115 mm
16 mm A2 fire protection board; 9.5 mm plasterboard; 60 mm mineral wool; 9.5 mm plasterboard; 16 mm
A2 fire protection board

Area of test specimen 13.5 m²
Surface weight 50 kg/m²
Air temp. in test rooms 18° C
Humidity in test rooms 55%
Volume of source room 75 m³
Volume of receiving room 63 m³

Frequency Hz	R 1/3 Octave dB
50	18.2
63	20.6
80	21.6
100	31.6
125	32.9
160	37.2
200	39.2
250	42.2
315	45.4
400	50.0
500	50.7
630	51.8
800	51.9
1000	51.2
1250	51.7
1600	53.3
2000	55.3
2500	57.8
3150	60.2
4000	64.8
5000	67.2



Rating in accordance with DIN EN ISO 717-1 **

$R_w (C; C_{tr}) = 52 (-2; -6) \text{ dB}$

$C_{50-3150} = -4 \text{ dB}; C_{50-5000} = -3 \text{ dB}; C_{100-5000} = -1 \text{ dB}$

This determination is based on laboratory test results taken in one third octave bands

$C_{tr, 50-3150} = -14 \text{ dB}; C_{tr, 50-5000} = -14 \text{ dB}; C_{tr, 100-5000} = -6 \text{ dB}$

* Conforms with tests made to DIN 52210-03 and is valid as a building sample test to DIN 52210-03
** For ratings under DIN 52210 see Chapter 4

26. November 1999

F. Holtz

Laborleiter Prof. Fritz Holtz



LABOR für Schall- & Wärmemesstechnik
Edlinger Straße 76 • 83071 Stephanskirchen
Tel. 08036 - 3006 0 • Telefax 3006 33