

**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

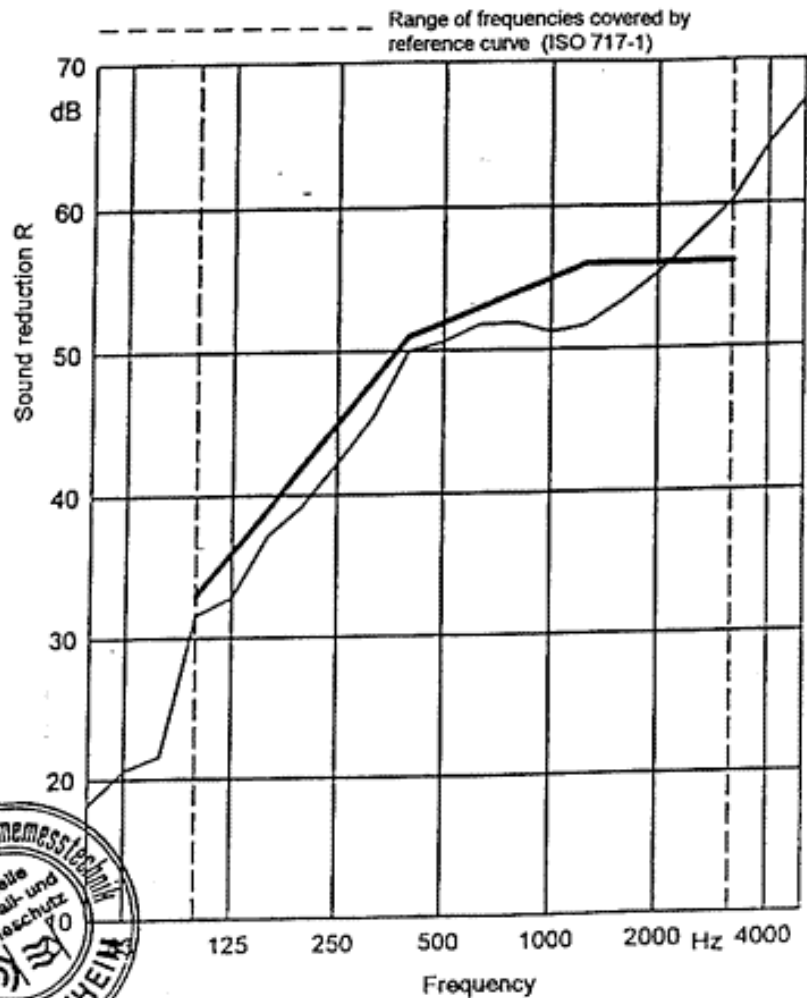
**Product description:** Movable partition wall; NW 115 F  
**Test laboratory for walls as in** DIN EN ISO 140-01  
**Date of test:** 26.10.1999

**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 m<sup>2</sup>  
**Surface weight** 50 kg/m<sup>2</sup>  
**Air temp. in test rooms** 18° C  
**Humidity in test rooms** 55%  
**Volume of source room** 75 m<sup>3</sup>  
**Volume of receiving room** 63 m<sup>3</sup>

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**  
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# 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.T5

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

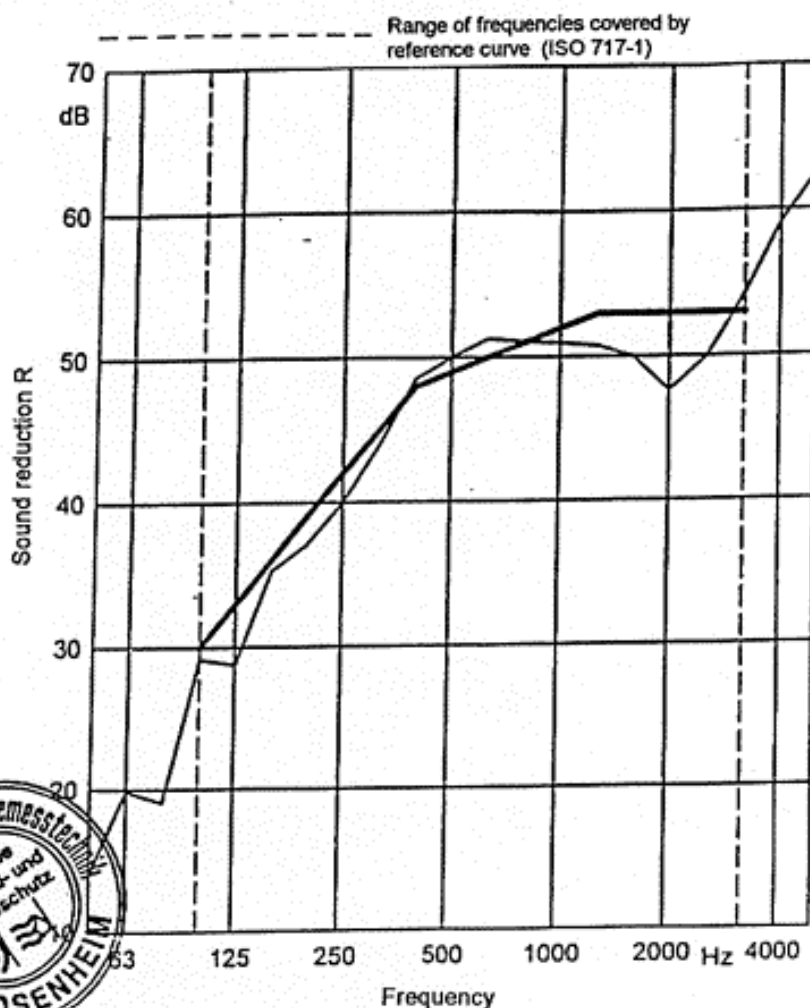
Product description: Movable partition wall; NW 115 F  
Test laboratory for walls as in DIN EN ISO 140-01  
Date of test: 26.10.1999

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; 75 mm mineral wool; 16 mm A2 fire protection board

Area of test specimen 13.5 m<sup>2</sup>  
Surface weight 38 kg/m<sup>2</sup>  
Air temp. in test rooms 18° C  
Humidity in test rooms 55%  
Volume of source room 75 m<sup>3</sup>  
Volume of receiving room 63 m<sup>3</sup>

Frequency Hz	R 1/3 Octave dB
50	13.9
63	19.8
80	19.1
100	29.2
125	28.7
160	35.3
200	37.0
250	40.0
315	44.0
400	48.6
500	50.0
630	51.3
800	51.1
1000	51.0
1250	50.7
1600	50.0
2000	47.6
2500	50.0
3150	54.3
4000	59.2
5000	62.5



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

$R_w (C; C_{tr}) = 49 (-2; -6) \text{ dB}$

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

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

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# 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.T2

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

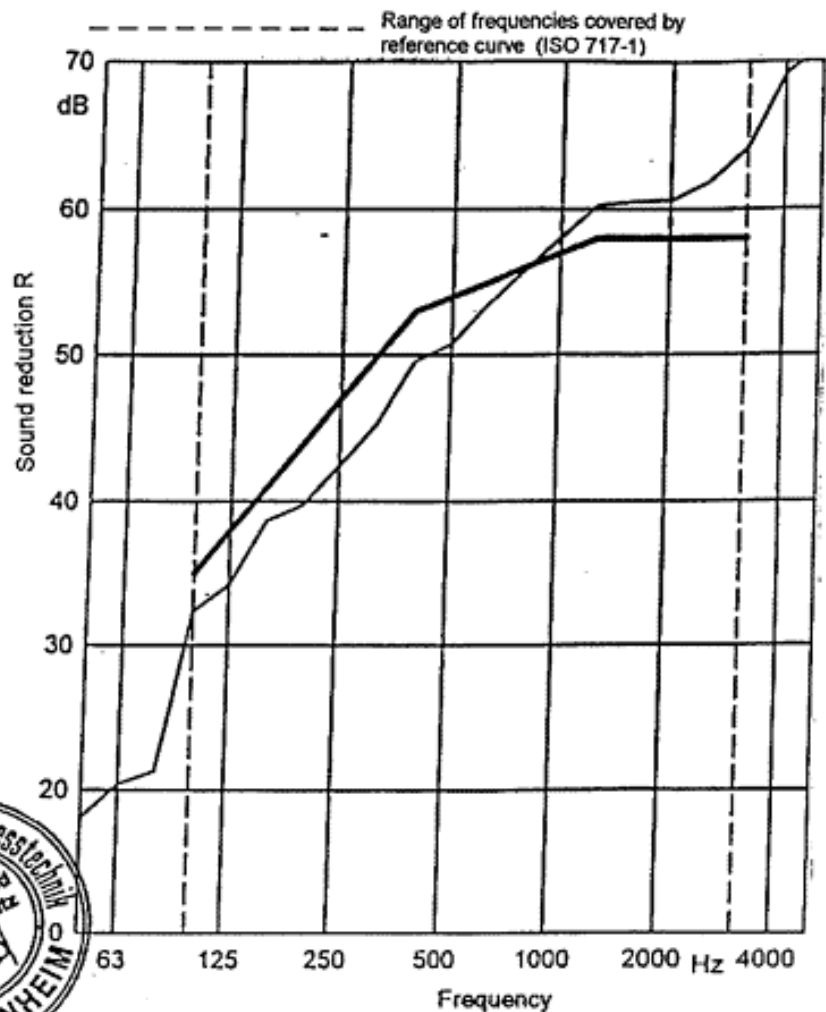
Product description: Movable partition wall; NW 115 F  
Test laboratory for walls as in DIN EN ISO 140-01  
Date of test: 26.10.1999

## 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 hardboard; 60 mm mineral wool; 9.5 mm plasterboard; 16 mm A2 fire protection board

Area of test specimen 13.5 m<sup>2</sup>  
Surface weight 50 kg/m<sup>2</sup>  
Air temp. in test rooms 18° C  
Humidity in test rooms 55%  
Volume of source room 75 m<sup>3</sup>  
Volume of receiving room 63 m<sup>3</sup>

Frequency Hz	R 1/3 Octave dB
50	18.1
63	20.4
80	21.3
100	32.4
125	34.2
160	38.7
200	39.8
250	42.4
315	45.3
400	49.6
500	50.8
630	53.5
800	55.8
1000	58.0
1250	60.3
1600	60.5
2000	60.6
2500	61.9
3150	64.1
4000	69.2
5000	71.3



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

$R_w (C; C_{tr}) = 54(-2; -7) \text{ dB}$

$C_{50-3150} = -5 \text{ dB}; C_{50-5000} = -4 \text{ dB}; C_{100-5000} = -1 \text{ dB}$

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

$C_{tr, 50-3150} = -16 \text{ dB}; C_{tr, 50-5000} = -16 \text{ dB}; C_{tr, 100-5000} = -7 \text{ dB}$

\* 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

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