

# Sound Reduction Index according to DIN EN 20 140-3

P-BA 245/2007e

**Client:** Franz Nüsing GmbH + Co. KG  
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**Figure 5**

## Test Specimen:

Double-leaf movable partition wall (test object S 9828-03) in timber panel design, type NW 100 Premium, covering made of 16 mm plastic-coated chipboards, 3 mm hardboard clamped to the interior on both sides, 50 mm insulating material in the element cavity. The partition consisted of 4 individual elements, 1022 mm x 2860 mm each, one of them constructed as telescopic element. The partition was in a functional state.

Additional description and technical data see test report, page 2, as well as Table 1 and Fig. 1 to 4.

**Test facility:** test facility for walls and partitions P2

**Room volume:**  $V_S = 68.7 \text{ m}^3$   
 $V_E = 76.1 \text{ m}^3$

**Limiting insertion loss:**  $R'_w = 89 \text{ dB}$

**Test surface area:**  $12.54 \text{ m}^2$

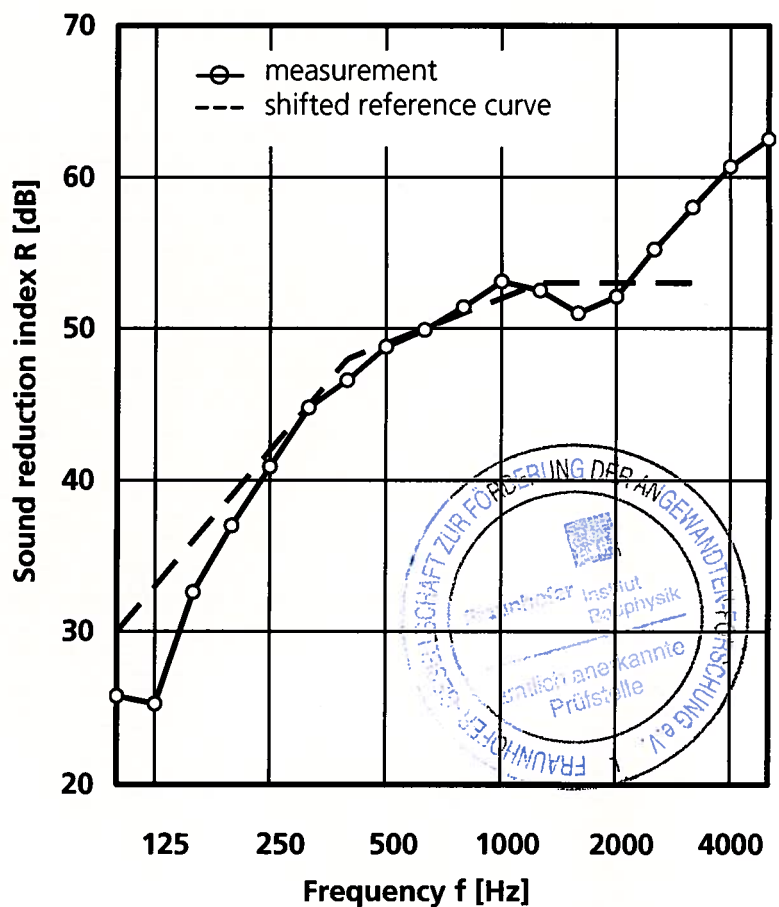
**Excitation noise:** pink noise

**Relative humidity:** 60 %

**Temperature:** 23 °C

**Test date:** June 21, 2007

f [Hz]	R [dB]
100	25.8
125	25.3
160	32.6
200	37.0
250	40.9
315	44.8
400	46.6
500	48.8
630	49.9
800	51.4
1000	53.1
1250	52.5
1600	51.0
2000	52.1
2500	55.2
3150	58.0
4000	60.7
5000	62.5



**Weighted sound reduction index and spectrum adaptation terms according to DIN EN ISO 717 part 1**  
 $R_w (C; C_{tr}; C_{100-5000}; C_{tr,100-5000}) = 49 (-3; -8; -2; -8) \text{ dB}$