

Sound Reduction Index according to DIN EN ISO 140-3

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P-BA 243/2007e
Figure 5

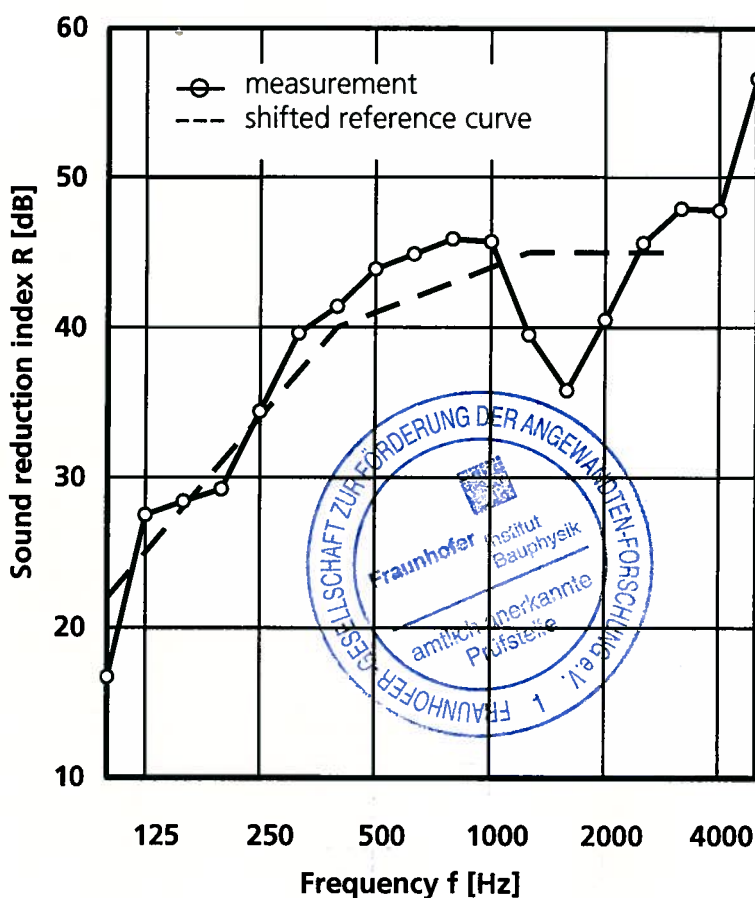
Test Specimen:

Double-leaf movable partition wall (test object S 9828-01) in timber panel design, type NW 100 Premium (see Fig. 1 to 4 and Table 1), covering made of 16 mm plastic-coated chipboards, cavity of the element without insulation material. 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 Figures 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 m^2
Excitation noise: pink noise
Relative humidity: 60 %
Temperature: 23 °C
Test date: June 21, 2007

f [Hz]	R [dB]
100	16.7
125	27.5
160	28.4
200	29.2
250	34.4
315	39.6
400	41.4
500	43.9
630	44.9
800	45.9
1000	45.7
1250	39.5
1600	35.8
2000	40.5
2500	45.6
3150	47.9
4000	47.8
5000	56.6



Weighted sound reduction index and spectrum adaptation terms according to DIN EN ISO 717 part 1
 $R_w (C; C_{tr}; C_{100-5000}; C_{tr,100-5000}) = 41 (-2; -7; -1; -7) \text{ dB}$