

Sound Reduction Index according to DIN EN ISO 140-3

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P-BA 243/2007e
Figure 5

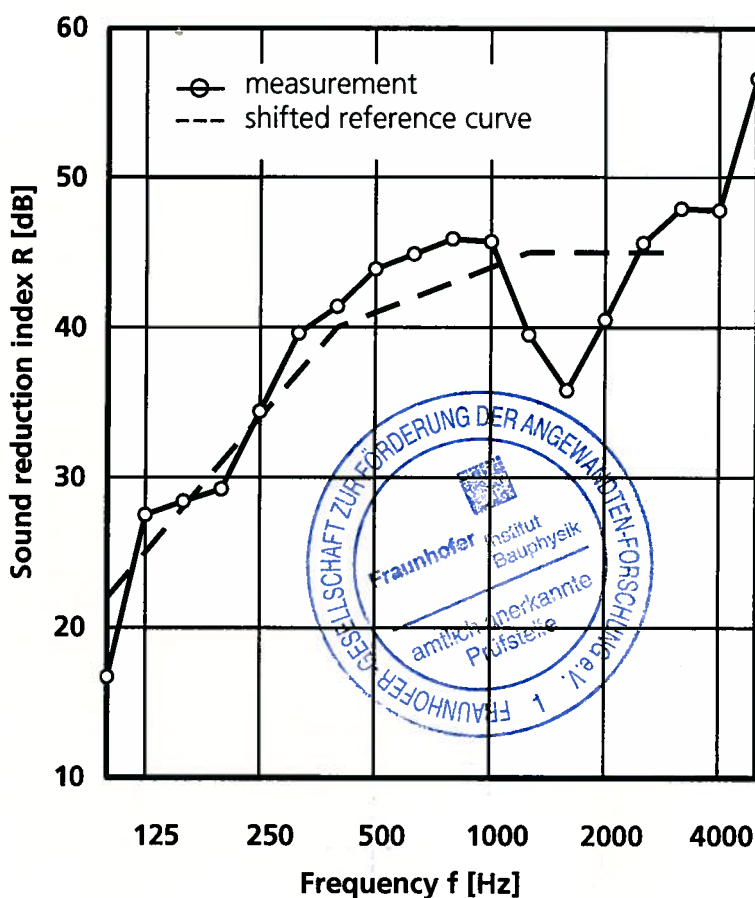
Test Specimen:

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
 $R_w (C; C_{tr}; C_{100-5000}; C_{tr,100-5000}) = 41 (-2; -7; -1; -7) \text{ dB}$