Sound Reduction Index according to DIN EN ISO 10140-2:2010

P-BA 268/2014e

Fig. 3

Client: Espero BV
NL – 5145 PE Waalwijk

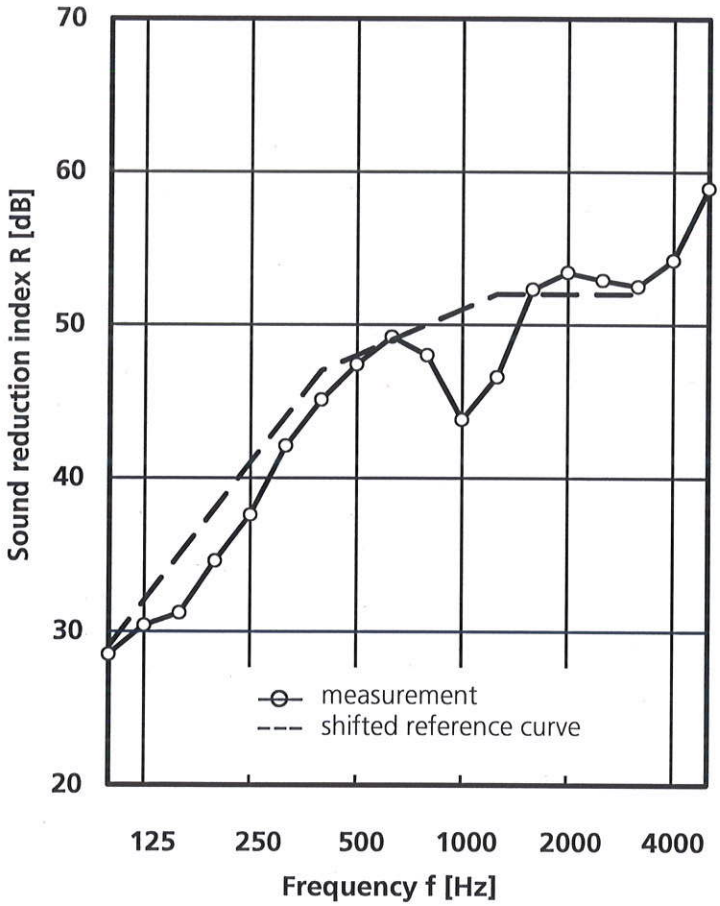
Test specimen

Double-leaf movable partition wall (test object S 10664-21), Type "Sonico-100 48 dB" (see Fig. 1 and 2). The partition consisted of two solid wall elements each respectively 1103 mm x 2802 mm and one telescopic element with telescope lifting element,1332 mm x 2802 mm. Covering on both sides of 13 mm thick chip-boards, internal surface area occupancy 50 % clamped by bitumen loading mat (mass per unit area: 8 kg/m²), in the element cavity 60 mm mineral wool.
The partition was in a functional state.

Additional description and technical data see page 2 and 3 of the test report as well as Fig.1 and 2.

Test surface area: 10.7 m²
Test facilities: test facilities for walls P6
Room volume: V_S = 52.8 m³
V_E = 63.2 m³
Maximum insulation of test facility: $R'_{max,w}$ = 77 dB
Relative humidity: 49 % ± 2 %
Air temperature: 21 °C ± 0.3 °C
Static air pressure: 982 hPa ± 1 hPa
Excitation noise: pink noise
Test date: September 25, 2014

Frequency f [Hz]	Sound reduction index R [dB]
100	28.5
125	30.4
160	31.2
200	34.6
250	37.6
315	42.1
400	45.1
500	47.4
630	49.2
800	48.0
1000	43.8
1250	46.6
1600	52.3
2000	53.4
2500	52.9
3150	52.5
4000	54.2
5000	58.9



Weighted sound reduction index and spectrum adaptation terms according to DIN EN ISO 717-1:2013

R_w (C; C_{tr}; $C_{100-5000}$; $C_{tr,100-5000}$) = 48 dB (-2; -6; -2; -6)

Fraunhofer IBP

The test was carried out in a test laboratory of the IBP accredited according to DIN EN ISO/IEC 17025 by the DAP (German Accreditation System for Testing), No. DAP-PL-3743.26.

Stuttgart, December 10, 2014
Head of the test laboratory:

FRAUNHOFER-GESELLSCHAFT ZUR FÖRDERUNG DER ANGEWANDTEN FORSCHUNG E.V. Fraunhofer IBP