

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

P-BA 266/2014e

Client: Espero BV  
NL – 5145 PE Waalwijk

Fig. 3

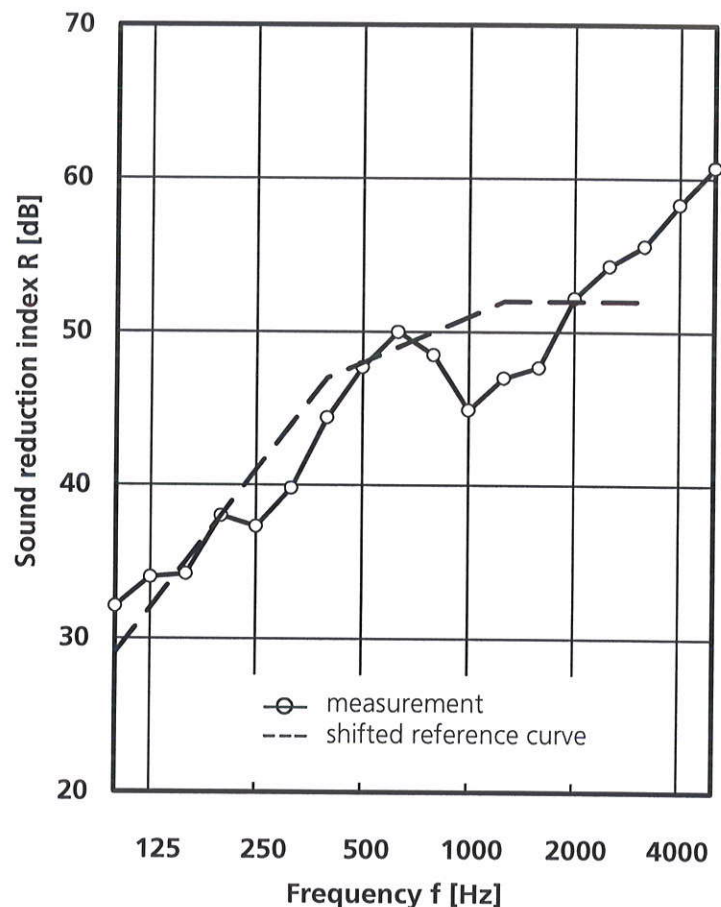
## Test specimen

Double-leaf movable glass partition wall (test object S 10664-12), Type "Visio-100 48 dB" (see Fig. 1 and 2). Covering on both sides of 8 mm thick laminated safety glass pane with acoustic film, cavity of the element without insulation material. The partition consisted of 3 glass elements (1006 mm x 2802 mm each), a wall post (65 mm x 2802 mm) and a retractable wall post (520 mm x 2802 mm). The partition was in a functional state.

Partition thickness: 102 mm  
Mass per unit area of the covering: 40 kg/m<sup>2</sup>  
Mass per unit area of test wall: 54 kg/m<sup>2</sup> (including frame and mechanics)

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 m<sup>2</sup>  
**Test facilities:** test facilities for walls P6  
**Room volume:** V<sub>S</sub> = 52.8 m<sup>3</sup>  
V<sub>E</sub> = 63.2 m<sup>3</sup>  
**Maximum insulation of test facility:** R<sup>1</sup><sub>max,w</sub> = 77 dB  
**Relative humidity:** 51 % ± 2 %  
**Air temperature:** 22.1 °C ± 0.3 °C  
**Static air pressure:** 985 hPa ± 1 hPa  
**Excitation noise:** pink noise  
**Test date:** September 11, 2014



Frequency f [Hz]	Sound reduction index R [dB]
100	32.1
125	34.0
160	34.2
200	38.0
250	37.3
315	39.8
400	44.4
500	47.7
630	50.0
800	48.5
1000	44.9
1250	47.0
1600	47.7
2000	52.2
2500	54.3
3150	55.6
4000	58.3
5000	60.7

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

$$R_w (C; C_{tr}; C_{100-5000}; C_{tr,100-5000}) = 48 \text{ dB } (-2; -5; -1; -5)$$



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:

