

Sound reduction according to ČSN EN ISO 140-3

Laboratory measurement of airborne sound insulation of building elements

Reg. No.:
63/10

Customer:
R. Kohlhauer GmbH
Draisstraße 2
76571 Gaggenau, Germany

Product: noise barrier

Sample description: KOHLHAUER PLANTA[®] BASIC - 4 noise barrier. Structure of the panel: aluminium framework filled with rock wool 145 kg/m³ and acoustic foil 2 mm (4 kg/m²), covered with trellis S235J2R. The test wall with a size of 3560 mm x 2850 mm consists of one steel column type HEA 160 and six panels: two panels sized 1960 mm x 1000 mm, two panels 1570 mm x 1000 mm, one panel 1960 mm x 850 mm and one panel 1570 mm x 850 mm. The horizontal joint gaps between the panels are not sealed. The panels are fixed in the supporting column by means of wedges and sealed with adhesive sealing tape.
Sample No.: 25a/A/10.

Conditions of the test

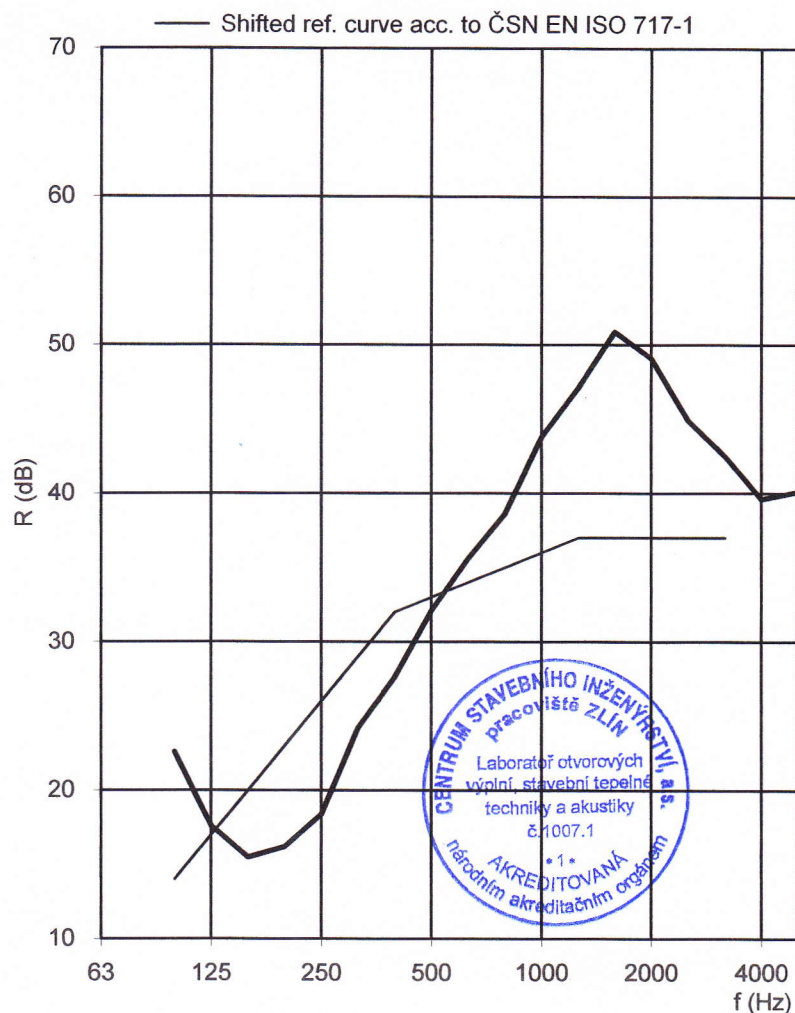
Test area: 10,3 m²
Source room volume: 90 m³
Receiving room volume: 70 m³

Test date: 16.03.2010
Air temperature: 17 °C
Relative humidity: 38 %

Freq. (Hz)	R 1/3 okt. (dB)
100	22,6
125	17,6
160	15,5
200	16,2
250	18,4
315	24,2
400	27,6
500	32,1
630	35,6
800	38,6
1000	43,8
1250	47,1
1600	50,9
2000	49,1
2500	44,9
3150	42,5
4000	39,6
5000	40,1
Rating according EN ISO 717-1	
R_w (C; C_{tr}) = 33 (-2; -6) dB	

Rating according ČSN EN 1793-2:

DL_R = 27 dB, category B3.



Centrum stavebního inženýrství a.s.
pracoviště Zlín

Date: 10.06.2010

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Head of laboratory