

Measurement of sound absorption coefficient according to ČSN ISO 354, ČSN EN 1793-1

Reg. No.: 71/10

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 sample consists of six panels: two panels sized 1960 mm x 1000 mm, two panels 600 mm x 1000 mm, one panel 1960 mm x 850 mm and one panel 600 mm x 850 mm. The test area is considered for the noise barrier with steel post type HEA 160 in the axis distance of 4 m.
Sample No.: 25b/A/10.

Conditions of the test

Test area: 6,985 m²
Reverberation room volume: 90,3 m³

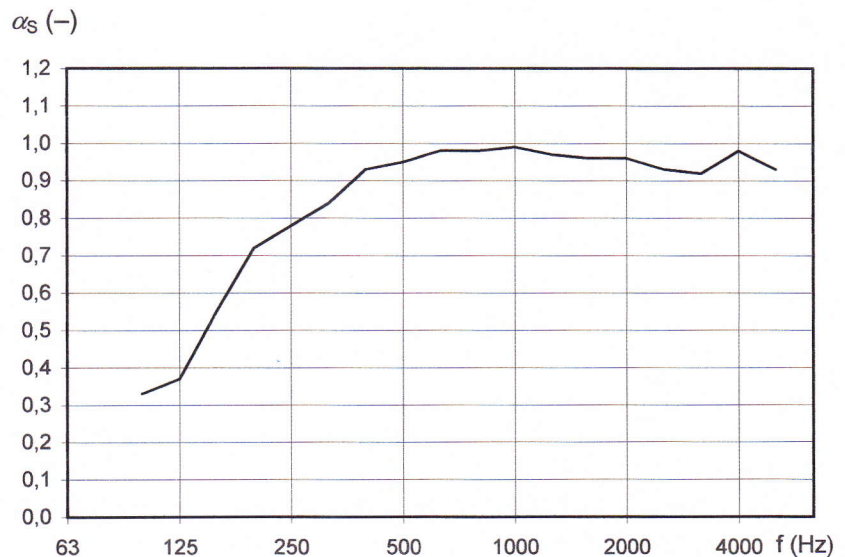
Test date: 24.03.2010
Air temperature: 21,3 – 21,4 °C
Relative humidity: 71 – 74 %

Freq. (Hz)	α_s (-)
100	0,33
125	0,37
160	0,55
200	0,72
250	0,78
315	0,84
400	0,93
500	0,95
630	0,98
800	0,98
1000	0,99
1250	0,97
1600	0,96
2000	0,96
2500	0,93
3150	0,92
4000	0,98
5000	0,93

Rating according ČSN EN 1793-1

$DL_\alpha = 12$ dB

Category A4



Centrum stavebního inženýrství a.s.
Branch Zlín

Date: 10.06.2010

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