Sound absorbtion value acc. ISO 354:2003

Measuring of sound absorbtion in reveberation room

Customer: akustik plus GmbH & Co KG Test date: 4th Oct 2017

Construction: from top to bottom:
4 acoustical elements 2800 mm x 1005 mm x 35mm, Test surface 4,02 x 2,80m = 11,26m²
5 mm Cavity
60 mm Damping material mineral wool
Frame made from 2x16mm MDF,
gap between frame/ground and frame/elements sealed with tape
total construction thickness: 100 mm

Object:
Product: akustik+ slimline 64/20
Face side slotted: 20mm slot on 64mm distance
Face side perforated in the slot: 6mm hole on 10,66/10,66mm pattern
Rear Side: acoustical vlies Type AVB 100-Lator

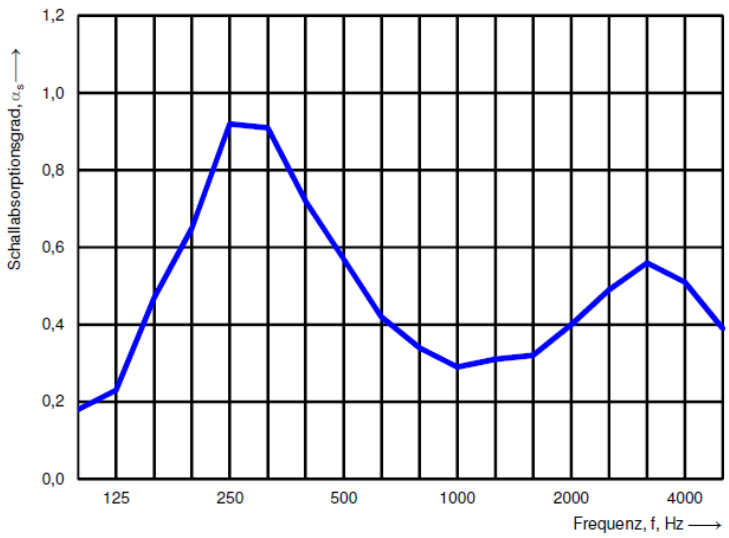
dampening with 60mm dampening material, ISOVER

Reveberation room
Surface of Test material: 11,26 m²
Volume of Reveb-Room: 204,6 m³

empty:
relative humidity: 52,0 %
Temperature: 20,4 °C
Air pressure: 102,8 kPa

with test object:
relative humidity: 53,0 %
Temperature: 20,9 °C
Air Pressure: 102,6 kPa

Frequenz f [Hz]	α_s
100	0,18
125	0,23
160	0,47
200	0,65
250	0,92
315	0,91
400	0,72
500	0,57
630	0,42
800	0,34
1000	0,29
1250	0,31
1600	0,32
2000	0,40
2500	0,49
3150	0,56
4000	0,51
5000	0,39



Einzahlbewertung NRC und SAA gemäß ASTM C423	
NRC:	0,55
SAA:	0,53

Name of Test Institut: BEA Fiedler - Bureau for Acoustic and Engineering
Number of test report: BAE 17-337-01
Appendix A01
Date: 06 Oct 2017 Signatur Dipl.-Ing (FH) Bernd Fiedler

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