

NOISE LAB
REPORT Number A-2019LAB-019-6-43641_E

SOUND ABSORPTION COEFFICIENT

EN ISO 354:2003
 EN ISO 11654:1997

Acoustics - Measurement of sound absorption in a reverberation room
 Acoustics - Sound absorbers for use in buildings - Rating of sound absorption

Date: 25/06/2019

Reverberation room: V = 296,9 m³ S_{tot} = 278,2 m²

Temperature: T = Empty space: 20,8 °C With testelement: 21,3 °C

Atmospheric pressure: p = 101,2 kPa

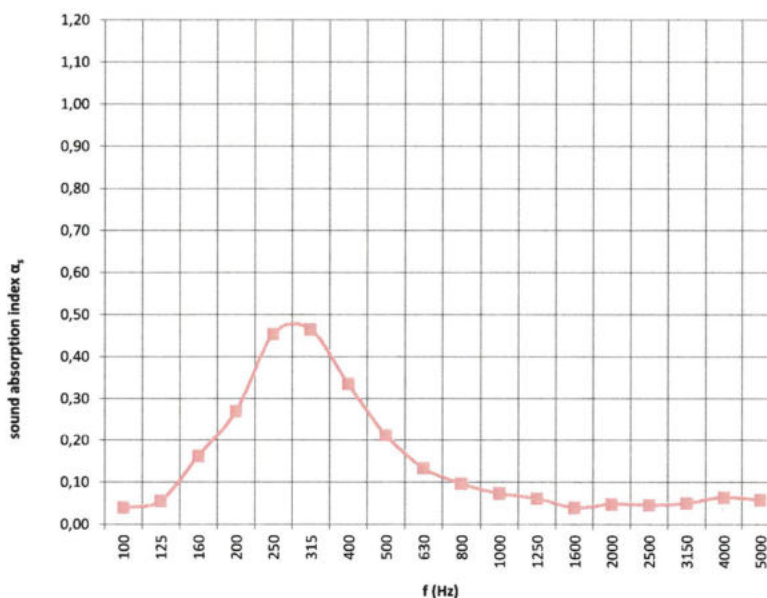
Relative humidity : h_r = 75 %

N° test sample: 6

Construction characteristics: **Type: Plane absorber**

Area of test element: 12 m² * using baffles (Type J mounting):
 Total thickness: - Dimensions (L x W x H): -
 Air space: - Distance between baffle rows: -
 Connection of layers: - * using discrete objects:
 Number of tested objects: -

f(Hz)	T1 (s)	T2 (s)	α _s
50			
63			
80			
100	10,95	9,85	0,04
125	9,30	8,21	0,06
160	10,21	7,20	0,16
200	10,58	6,15	0,27
250	9,77	4,62	0,45
315	9,85	4,58	0,47
400	9,03	5,13	0,34
500	8,77	5,96	0,21
630	8,94	6,87	0,13
800	8,86	7,28	0,10
1000	8,70	7,48	0,07
1250	8,12	7,20	0,06
1600	7,35	6,84	0,04
2000	6,67	6,18	0,05
2500	5,72	5,38	0,05
3150	4,87	4,62	0,05
4000	4,02	3,82	0,06
5000	3,32	3,21	0,06



f(Hz)	α _p
125	0,10
250	0,40
500	0,25
1000	0,10
2000	0,05
4000	0,05

α_w = 0,10 (L)*
 acoustical absorption class: Not Classified

NRC = 0,2 **
SAA = 0,19 **

Requested by: ORAC NV/SA, Biekorfstraat 32, 8400 Oostende

* It is strongly recommended to use this single-number rating in combination with the complete sound absorption coefficient curve
 ** These results are not within the scope of the accreditation

Testelement: W108

Similar results for W109/W110 (deviation +/- 10%)