

eco-scan bvba
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Belgium
BTW nr.: BE 0887 763 992



N° 0451-TEST
NBN EN ISO 17025:2005

www.eco-scan.be

NOISE LAB REPORT KARA

α_s

SOUND ABSORPTION COEFFICIENT

EN ISO 354:2003

Acoustics - Measurement of sound absorption in a reverberation room

EN ISO 11654:1997

Acoustics - Sound absorbers for use in buildings - Rating of sound absorption

Identification number of test element: **11**

Test date: 5/07/2018

Reverberation room:

V = 296,9 m³

S_{tot} = 278,2 m²

Room conditions during measurements:

Empty room

With testelement

Temperature:

T = 21,7

22,9 °C

Atmospheric pressure:

p = 101,2

101,1 kPa

Relative humidity :

h_r = 70

71 %

Type of test element:

Plane absorber

Construction characteristics:

* using plane absorber:

Area of test element:

12,28 m²

Total thickness:

100 mm

Number of layers, including air spaces:

2

Connection of layers:

loose

* using baffles (Type J mounting):

Dimensions (L x W x H):

-

Distance between baffle rows:

-

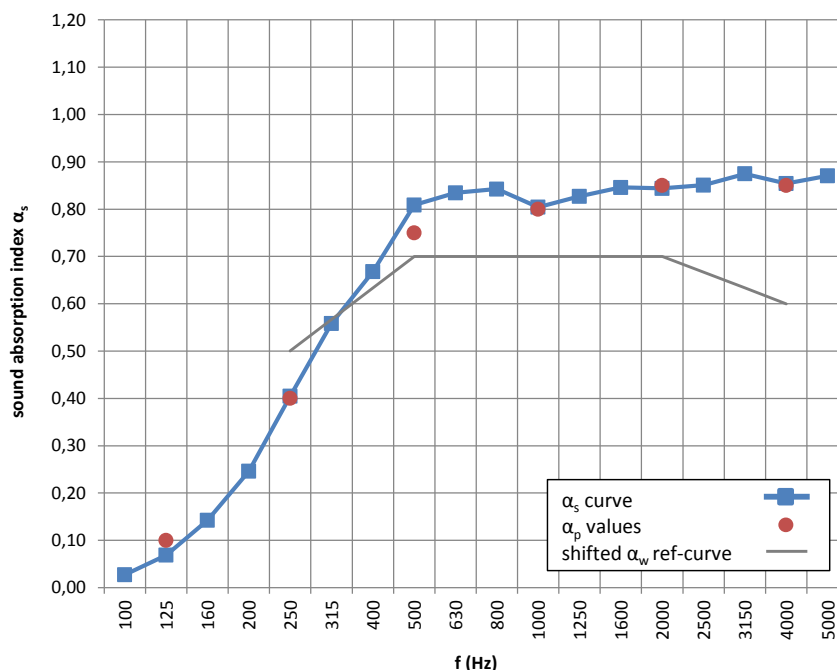
* using discrete objects:

Number of tested objects:

-

f(Hz)	T1 (s)	T2 (s)	α_s
50			
63			
80			
100	11,17	10,34	0,03
125	11,19	9,33	0,07
160	10,01	7,32	0,14
200	10,73	6,39	0,25
250	11,46	5,22	0,40
315	10,60	4,20	0,56
400	9,43	3,59	0,67
500	9,58	3,20	0,81
630	10,05	3,18	0,83
800	9,74	3,12	0,84
1000	9,18	3,16	0,80
1250	8,47	3,02	0,83
1600	7,59	2,86	0,85
2000	6,78	2,74	0,84
2500	5,88	2,58	0,85
3150	4,92	2,35	0,87
4000	3,99	2,15	0,85
5000	3,29	1,92	0,87

f(Hz)	α_p
125	0,10
250	0,40
500	0,75
1000	0,80
2000	0,85
4000	0,85



$\alpha_w = 0,70$ (H) *
acoustical absorption class: C

NRC = 0,7 **
SAA = 0,71 **

* 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