

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 IRES

α_s

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

Identification number of test element: **20**

Test date: **26/04/2017**

Reverberation room:

V = 296,9 m³

S_{tot} = 278,2 m²

Room conditions during measurements:

Empty room

With testelement

Temperature:

T = 18,4

18,1 °C

Atmospheric pressure:

p = 101,1

101,1 kPa

Relative humidity :

h_r = 56

56 %

Type of test element:

Plane absorber

Construction characteristics:

* using plane absorber:

Area of test element:

11,93 m²

Total thickness:

150 mm

Number of layers, including air spaces:

-

Connection of layers:

-

* using baffles (Type J mounting):

Dimensions (L x W x H):

-

Distance between baffle rows:

-

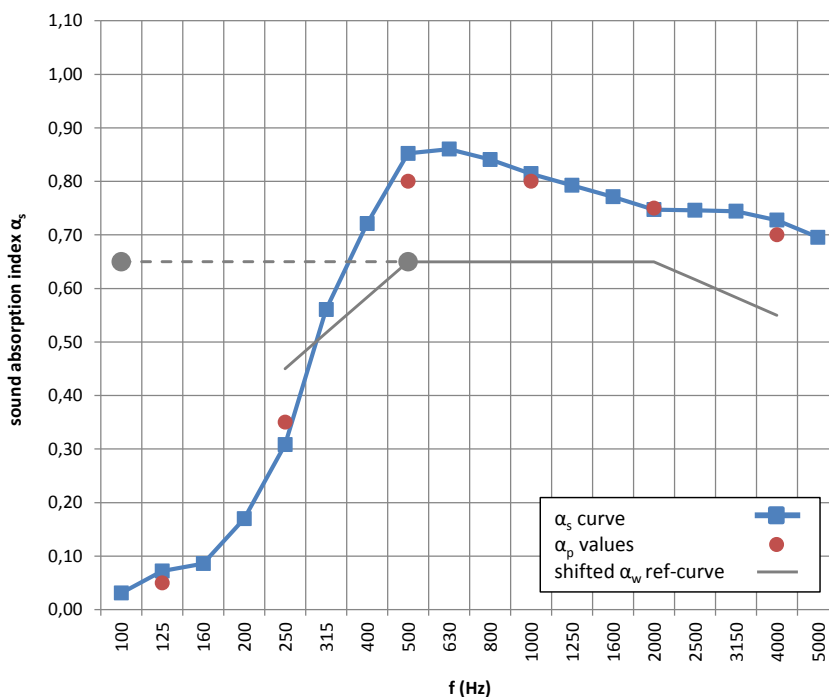
* using discrete objects:

Number of tested objects:

-

f(Hz)	T1 (s)	T2 (s)	α_s
50			
63			
80			
100	10,97	10,12	0,03
125	10,22	8,64	0,07
160	9,24	7,72	0,09
200	9,35	6,71	0,17
250	9,27	5,42	0,31
315	9,43	4,08	0,56
400	8,62	3,39	0,72
500	8,78	3,07	0,85
630	9,60	3,15	0,86
800	9,62	3,20	0,84
1000	9,37	3,24	0,81
1250	8,69	3,20	0,79
1600	7,55	3,08	0,77
2000	6,54	2,95	0,75
2500	5,40	2,69	0,75
3150	4,31	2,39	0,74
4000	3,30	2,06	0,73
5000	2,54	1,76	0,70

f(Hz)	α_p
125	0,05
250	0,35
500	0,80
1000	0,80
2000	0,75
4000	0,70



$\alpha_w = 0,65$ () *
acoustical absorption class: C

NRC = 0,7 **
SAA = 0,68 **

* 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