BS EN ISO 354:2003

Acoustics - Measurement of absorption in a reverberation room

Client: University of Salford

Object: Audit sample

Size: 12 m^2

Receiving room:

Volume: 220 m^3
Condition: clean
Type: large reverberation room
Location: acoustic transmission suite

Sample out: Temperature [°C]: 21.2 Humidity [%]: 57.1
Sample in: Temperature [°C]: 21.6 Humidity [%]: 55

Sound absorption coefficient α_s

Frequency Hz	α_s	T1 s	T2 s
100	0.00	5.21	5.18
125	-0.01	4.97	5.05
160	0.01	4.18	4.11
200	0.04	4.58	4.33
250	0.02	5.30	5.07
315	0.05	5.21	4.75
400	0.07	4.82	4.34
500	0.10	5.01	4.28
630	0.11	5.07	4.24
800	0.19	5.33	3.96
1000	0.30	5.29	3.44
1250	0.40	4.96	2.97
1600	0.38	4.68	2.91
2000	0.37	4.23	2.76
2500	0.42	3.94	2.51
3150	0.46	3.43	2.22
4000	0.49	2.92	1.95
5000	0.55	2.34	1.62

Third octave band values of the absorption coefficient.

Test reference number: AC/07/10/01 Date: 02/11/07

University of Salford, School of Computing, Science & Engineering SSV1

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100	0.00
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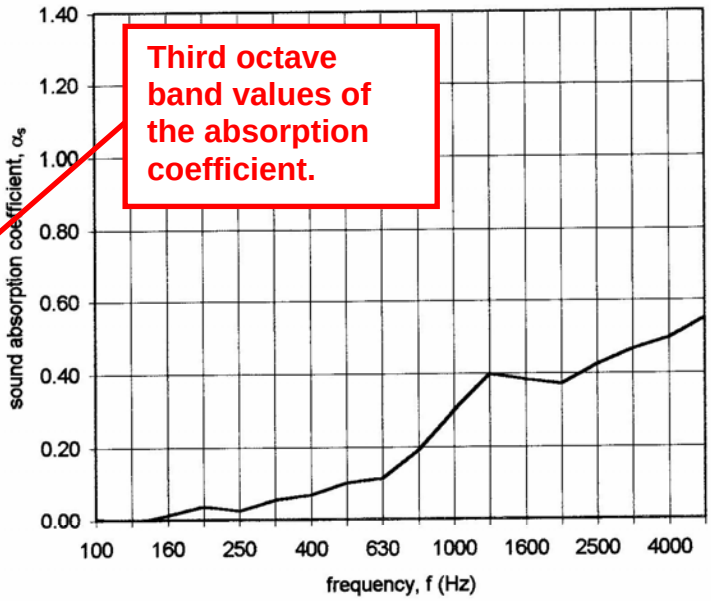
200	0.04
250	0.02
315	0.05
400	0.07
500	0.10
630	0.11
800	0.19
1000	0.30
1250	0.40
1600	0.38
2000	0.37
2500	0.42
3150	0.46
4000	0.49
5000	0.55



Test reference number: AC/07/10/01 Date: 02/11/07

University of Salford, School of Computing, Science & Engineering SSV1

BS EN ISO 11654:1997

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

Client: University of Salford

Object: Audit sample

Size: 12 m^2

Receiving room:

Volume: 220 m^3
Condition: clean
Type: large reverberation room
Location: acoustic transmission suite

Sample out: Temperature [°C]: 21.2 Humidity [%]: 57.1
Sample in: Temperature [°C]: 21.6 Humidity [%]: 55

α_w = **0.20** (H)

Classification: E

Single figure weighted absorption value and classification.

If a shape indicator is given, it is strongly recommended to use this single-number rating in combination with the complete absorption coefficient curve that can be obtained on request.

Frequency Hz	α_s	α_p
100	0.00	
125	-0.01	0.00
160	0.01	
200	0.04	
250	0.02	0.05
315	0.05	
400	0.07	
500	0.10	0.10
630	0.11	
800	0.19	
1000	0.30	0.30
1250	0.40	
1600	0.38	
2000	0.37	0.40
2500	0.42	
3150	0.46	
4000	0.49	0.50
5000	0.55	

Test reference number: AC/07/10/01 Date: 02/11/07

University of Salford, School of Computing, Science & Engineering SSV1