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The Laboratory Measurement of Random Incidence Sound Absorption to BS EN ISO 354:2003

Client: Soundtect

Test Date: 03/01/2017

Empty Room: **Temperature:** 15.0 °C **Humidity:** 51 %RH **Pressure:** 1017 mbar

Room with Sample: **Temperature:** 15.5 °C **Humidity:** 50 %RH **Pressure:** 1017 mbar

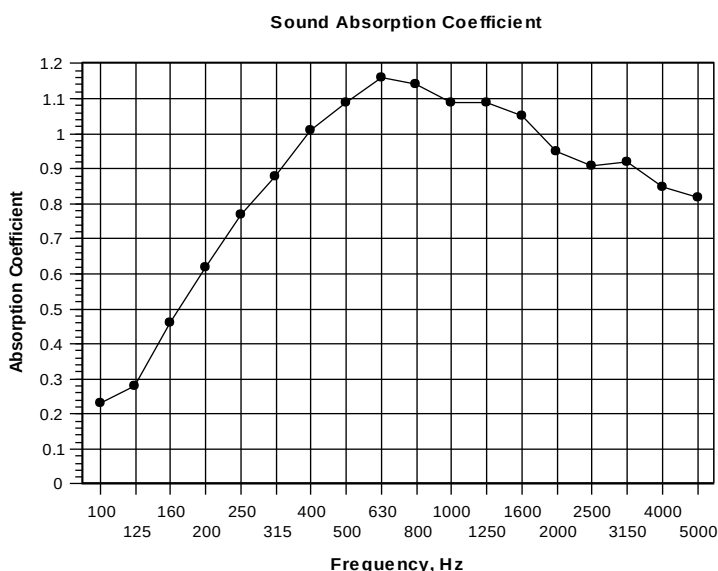
Sample Description: Forest 3D panel

Mounting Method: A

Sample Area: 10.99 m²

Chamber Volume: 300 m³

Test 3				
Freq Hz	T1 sec	T2 sec	Absorp Coeff	Practical Absorp Coeff #
50*	5.30	4.58	0.13	
63*	4.80	4.42	0.08	n/a
80*	5.55	4.62	0.16	
100	7.45	5.38	0.23	
125	7.24	4.95	0.28	0.30
160	6.79	3.97	0.46	
200	6.78	3.49	0.62	
250	7.06	3.17	0.77	0.75
315	7.22	2.96	0.88	
400	6.42	2.61	1.01	
500	5.55	2.35	1.09	1.00
630	5.19	2.20	1.16	
800	5.37	2.25	1.14	
1000	5.72	2.38	1.09	1.00
1250	5.48	2.33	1.09	
1600	4.88	2.26	1.05	
2000	4.33	2.24	0.95	0.95
2500	3.75	2.12	0.91	
3150	3.02	1.86	0.92	
4000	2.39	1.64	0.85	0.85
5000	1.83	1.37	0.82	
6300*	1.19	1.00	0.71	
8000*	0.96	0.86	0.54	n/a
10000*	0.67	0.63	0.42	



α_w 0.95

Class A

Calculated to EN ISO 11654:1997

NRC 1.00

Calculated to ASTM C 423-01

* Denotes frequencies outside the range covered
by BS EN ISO 354:2003

T1, empty room reverberation time
T2, room reverberation time with sample

Practical absorption coefficient, BS EN ISO 11654:1997

vl.3



Allen Smalls
Quality Manager

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Richard Critchlow
Deputy Technical Manager