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Contract: C/23917

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Date: 05 February 2018

Confidential

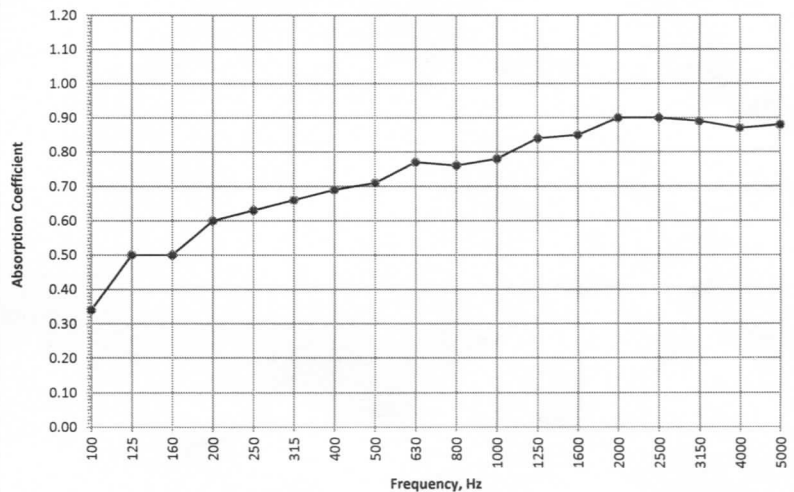
See SRL report C/23917/T04 for full details

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

Client: Fibrite AB
 Test Date: 01/02/2018
 Empty Room: Temperature: 16.7 °C Humidity: 45 %RH Pressure: 998 mbar
 Room with Sample: Temperature: 16.5 °C Humidity: 43 %RH Pressure: 1001 mbar
 Sample Description: Fibrophone Fine AS 600x600x20mm
 Mounting Method: E - 200
 Sample Area: 10.8 m²
 Chamber Volume: 300 m³

Test 60				
Freq Hz	T1 sec	T2 sec	Absorp Coeff α _s	Practical Absorp Coeff #
50*	4.70	4.09	0.14	
63*	5.04	3.49	0.40	n/a
80*	7.28	4.48	0.39	
100	7.60	4.83	0.34	
125	7.53	4.12	0.50	0.45
160	6.72	3.84	0.50	
200	7.10	3.66	0.60	
250	7.55	3.66	0.63	0.65
315	7.25	3.52	0.66	
400	6.99	3.38	0.69	
500	6.06	3.10	0.71	0.70
630	5.56	2.86	0.77	
800	5.78	2.92	0.76	
1000	6.05	2.95	0.78	0.80
1250	5.74	2.76	0.84	
1600	5.10	2.59	0.85	
2000	4.64	2.39	0.90	0.90
2500	4.00	2.20	0.90	
3150	3.13	1.91	0.89	
4000	2.50	1.65	0.87	0.90
5000	1.88	1.34	0.88	
6300*	1.25	0.99	0.82	
8000*	1.02	0.85	0.71	n/a
10000*	0.71	0.61	0.82	
α_w 0.80				
Class B				
<small>Calculated to EN ISO 11654:1997</small>				
NRC 0.75				
<small>Calculated to ASTM C 423-01</small>				
<small>* Denotes frequencies outside the range covered by BS EN ISO 354:2003</small>				
<small>T1, empty room reverberation time</small>				
<small>T2, room reverberation time with sample</small>				

Sound Absorption Coefficient



Practical absorption coefficient, BS EN ISO 11654:1997

v5

Allen Smalls
Quality Manager

Richard Critchlow
Deputy Technical Manager



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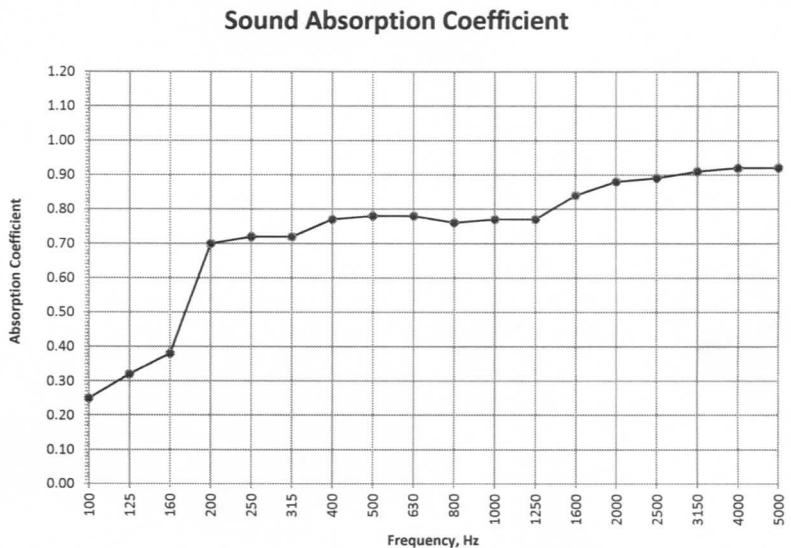
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The Laboratory Measurement of Random Incidence Sound Absorption to BS EN ISO 354:2003

Client: Fibrite AB
 Test Date: 02/02/2018
 Empty Room: Temperature: 16.7 °C Humidity: 45 %RH Pressure: 1005 mbar
 Room with Sample: Temperature: 16.3 °C Humidity: 44 %RH Pressure: 1006 mbar
 Sample Description: Fibrophone Fine AS 600x600x20mm
 Mounting Method: E - 100
 Sample Area: 10.8 m²
 Chamber Volume: 300 m³

Test 71				
Freq Hz	T1 sec	T2 sec	Absorp Coeff α _s	Practical Absorp Coeff #
50*	4.59	4.55	0.01	
63*	4.57	4.23	0.08	n/a
80*	7.20	6.48	0.07	
100	7.71	5.37	0.25	
125	7.37	4.83	0.32	0.30
160	6.57	4.24	0.38	
200	6.95	3.34	0.70	
250	7.39	3.40	0.72	0.70
315	7.11	3.33	0.72	
400	6.71	3.12	0.77	
500	5.81	2.90	0.78	0.80
630	5.42	2.80	0.78	
800	5.69	2.90	0.76	
1000	5.95	2.95	0.77	0.75
1250	5.73	2.90	0.77	
1600	5.12	2.61	0.84	
2000	4.53	2.39	0.88	0.85
2500	3.99	2.22	0.89	
3150	3.17	1.91	0.91	
4000	2.50	1.63	0.92	0.90
5000	1.91	1.35	0.92	
6300*	1.27	0.97	1.01	
8000*	1.06	0.82	1.12	n/a
10000*	0.73	0.65	0.60	



α_w 0.80
Class B
 Calculated to EN ISO 11654:1997
NRC 0.80
 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

v5

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