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Confidential

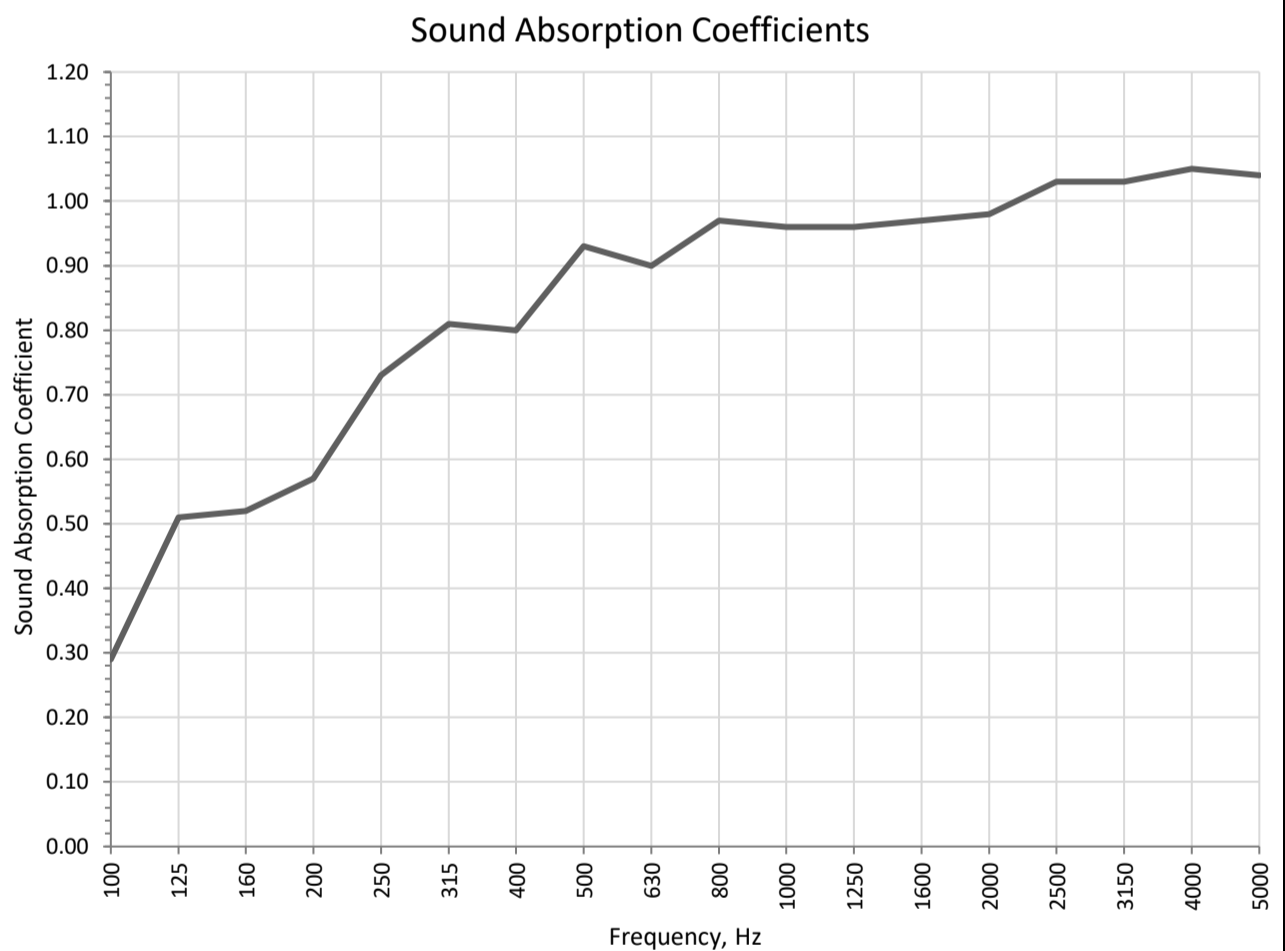
Date: 25 July 2024

See SRL Report 81973-SRL-RP-XT-001-P3 for full details

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

<b>Test Number:</b>	5	<b>Test Room:</b>	<b>Empty</b>	<b>With Sample</b>
<b>Client:</b>	Saint-Gobain Ecophon AB	<b>Air Temperature:</b>	17.5 °C	18 °C
<b>Test Date:</b>	13/05/2024	<b>Air Humidity:</b>	66 % RH	73 % RH
<b>Chamber Volume:</b>	300.1 m <sup>3</sup>	<b>Air Pressure:</b>	1001 mbar	999 mbar
<b>Mounting Method:</b>	E-200	<b>Sample Area:</b>	10.8 m <sup>2</sup>	
<b>Sample Description:</b>	Tonga dB 43 A 1200x600x45mm – Test 2			

Frequency Hz	T1, empty room reverberation time sec	T2, room reverberation time with sample sec	Sound Absorption Coefficient $\alpha_s$	Practical Sound Absorption Coefficient $\alpha_p$
50*	4.23	3.64	0.17	n/a
63*	4.17	3.31	0.28	
80*	6.30	4.34	0.32	
100	6.41	4.54	0.29	0.45
125	6.16	3.64	0.51	
160	6.13	3.59	0.52	
200	6.19	3.48	0.57	0.70
250	6.29	3.11	0.73	
315	6.68	3.04	0.81	
400	6.50	3.01	0.80	0.90
500	5.75	2.62	0.93	
630	5.13	2.52	0.90	
800	5.07	2.41	0.97	0.95
1000	5.63	2.55	0.96	
1250	5.54	2.53	0.96	
1600	5.22	2.45	0.97	1.00
2000	4.96	2.38	0.98	
2500	4.39	2.21	1.03	
3150	3.64	2.01	1.03	1.00
4000	3.05	1.82	1.05	
5000	2.43	1.61	1.04	
6300*	1.85	1.36	1.03	n/a
8000*	1.38	1.12	0.99	
10000*	1.00	0.88	0.97	



$\alpha_w$  0.95

**Class A**

Calculated to BS EN ISO 11654:1997

**NRC 0.90**

Calculated to ASTM C 423-01

\* Denotes frequencies outside the range covered by BS EN ISO 354:2003 and not UKAS accredited

Version 3

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Tester

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