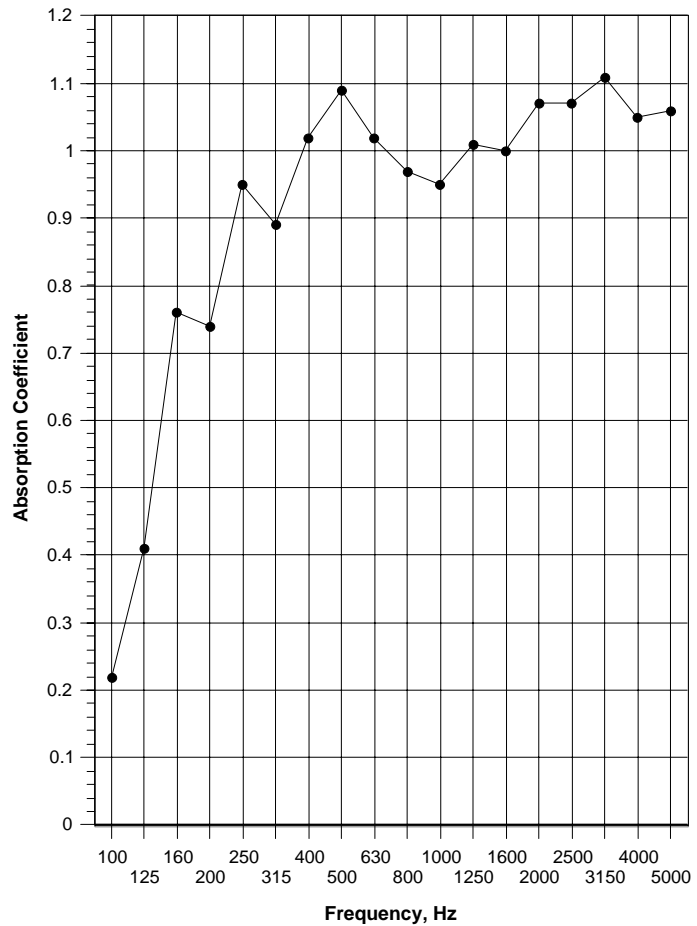


The Laboratory Measurement of Random Incidence Sound Absorption to BS EN ISO 354:2003

Client: **Rockfon**
 Test Date: 23/01/2008
 Empty Room: Temperature: 18.9 °C Humidity: 51 %RH Pressure: 1020 mbar
 Room with Sample: Temperature: 19.4 °C Humidity: 47 %RH Pressure: 1020 mbar
 Sample: **20mm Sonar 1200x600x20mm**
 Description: XXXXXXXXXX
 Sample Area: 12.96 m²
 Mounting Type: **E-200**
 Chamber Volume: 300 m³

Sound Absorption Coefficient

Test 2				
Freq Hz	T1 sec	T2 sec	Absorp Coeff	Practical Absorp Coeff #
50*	3.80	3.82	-0.01	
63*	4.01	2.85	0.38	n/a
80*	4.67	3.55	0.25	
100	6.34	4.63	0.22	
125	6.74	3.87	0.41	0.45
160	6.64	2.82	0.76	
200	7.16	2.96	0.74	
250	7.01	2.51	0.95	0.85
315	6.39	2.53	0.89	
400	6.02	2.27	1.02	
500	5.34	2.09	1.09	1.00
630	5.03	2.12	1.02	
800	5.39	2.24	0.97	
1000	5.74	2.33	0.95	1.00
1250	5.59	2.22	1.01	
1600	5.23	2.17	1.00	
2000	4.55	1.97	1.07	1.00
2500	3.97	1.84	1.07	
3150	3.31	1.65	1.11	
4000	2.64	1.49	1.05	1.00
5000	2.08	1.28	1.06	
6300*	1.52	1.06	0.98	
8000*	1.14	0.85	0.98	n/a
10000*	0.80	0.65	0.88	
α_w			1.00	
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