

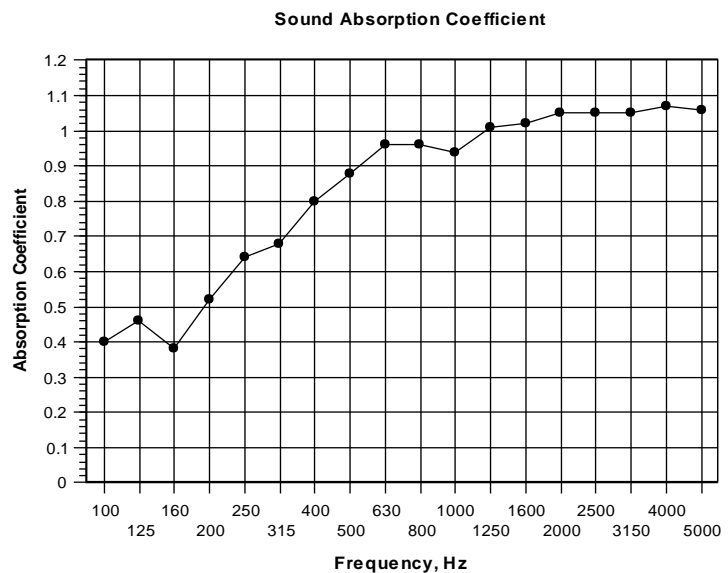
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The Laboratory Measurement of Random Incidence Sound Absorption to BS EN ISO 354:2003

**Client:** Rockfon  
**Test Date:** 06/06/2016  
**Empty Room:** **Temperature:** 16.1 °C **Humidity:** 66 %RH **Pressure:** 1015 mbar  
**Room with Sample:** **Temperature:** 17.8 °C **Humidity:** 69 %RH **Pressure:** 1014 mbar  
**Sample Description:** Blanka dB41 1200x600x35mm  
**Mounting Method:** E-200  
**Sample Area:** 12.7 m<sup>2</sup>  
**Chamber Volume:** 300 m<sup>3</sup>

Test 8				
Freq Hz	T1 sec	T2 sec	Absorp Coeff	Practical Absorp Coeff #
50*	4.90	4.05	0.16	
63*	4.65	3.38	0.31	n/a
80*	5.85	3.12	0.57	
100	7.11	4.08	0.40	
125	7.27	3.89	0.46	0.40
160	6.47	3.93	0.38	
200	6.91	3.57	0.52	
250	7.46	3.32	0.64	0.60
315	7.16	3.14	0.68	
400	6.43	2.74	0.80	
500	5.47	2.41	0.88	0.90
630	5.11	2.23	0.96	
800	5.54	2.31	0.96	
1000	5.97	2.40	0.94	0.95
1250	5.83	2.28	1.01	
1600	5.21	2.17	1.02	
2000	4.93	2.09	1.05	1.00
2500	4.41	2.00	1.05	
3150	3.71	1.86	1.05	
4000	3.06	1.68	1.07	1.00
5000	2.39	1.48	1.06	
6300*	1.77	1.20	1.16	
8000*	1.42	1.04	1.19	n/a
10000*	1.00	0.82	1.15	



**$a_w$  0.90**  
**Class A**  
 Calculated to 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  
 T1, empty room reverberation time  
 T2, room reverberation time with sample

# Practical absorption coefficient, BS EN ISO 11654:1997

v4.3



**Allen Smalls**  
Quality Manager



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Approved Signatory