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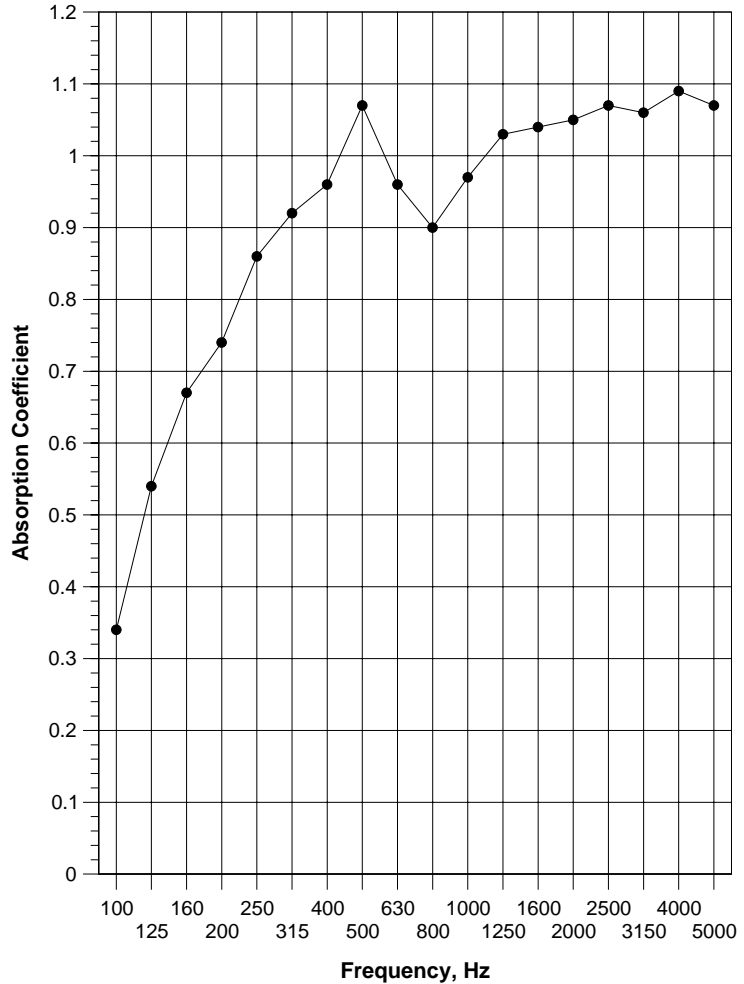
See SRL report C/08/5L/20506/R03 for full details

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

Client: Rockfon
Test Date: 01/12/2008
Empty Room: Temperature: 17.7 °C Humidity: 36 %RH Pressure: 996 mbar
Room with Sample: Temperature: 17.5 °C Humidity: 36 %RH Pressure: 996 mbar
Sample: Ekla - 600x600x20mm - E edge
Description:
Mounting Method: E- 200
Sample Area: 12.96 m²
Chamber Volume: 300 m³

Sound Absorption Coefficient

Test 6				
Freq Hz	T1 sec	T2 sec	Absorp Coeff	Practical Absorp Coeff #
50*	4.07	3.74	0.08	
63*	4.20	2.81	0.44	n/a
80*	5.02	3.28	0.40	
100	7.17	4.35	0.34	
125	7.70	3.64	0.54	0.50
160	6.92	3.09	0.67	
200	6.90	2.93	0.74	
250	6.92	2.67	0.86	0.85
315	6.64	2.53	0.92	
400	5.88	2.34	0.96	
500	4.99	2.06	1.07	1.00
630	4.95	2.18	0.96	
800	5.22	2.32	0.90	
1000	5.54	2.28	0.97	0.95
1250	5.33	2.16	1.03	
1600	4.79	2.06	1.04	
2000	4.19	1.93	1.05	1.00
2500	3.52	1.75	1.07	
3150	2.83	1.57	1.06	
4000	2.21	1.34	1.09	1.00
5000	1.61	1.10	1.07	
6300*	1.18	0.89	1.02	
8000*	0.90	0.75	0.81	n/a
10000*	0.64	0.54	1.06	
<i>a_w</i> 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

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