



INVESTOR IN PEOPLE

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Contract: C/21471

Page: 1 of 1

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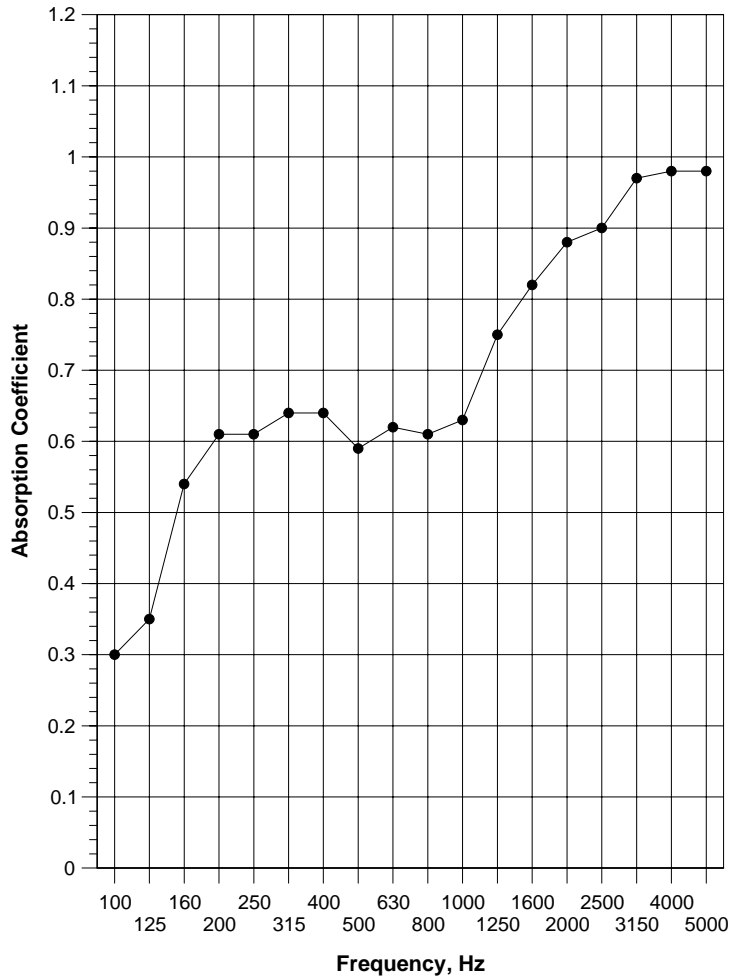
See SRL report C/21471/R02 for full details

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

Client: Knauf AMF
Test Date: 22/11/2010
Empty Room: Temperature: 16.8 °C Humidity: 46 %RH Pressure: 1005 mbar
Room with Sample: Temperature: 17.4 °C Humidity: 43 %RH Pressure: 1005 mbar
Sample: Thermatex Antaris C 600x600x13mm
Description:
Mounting Method: E- 200
Sample Area: 10.8 m²
Chamber Volume: 300 m³

Sound Absorption Coefficient

Test 23				
Freq Hz	T1 sec	T2 sec	Absorp Coeff	Practical Absorp Coeff #
50*	5.35	3.93	0.30	
63*	4.49	3.35	0.34	n/a
80*	5.18	4.19	0.20	
100	6.75	4.66	0.30	
125	7.26	4.64	0.35	0.40
160	7.14	3.84	0.54	
200	7.41	3.68	0.61	
250	7.78	3.78	0.61	0.60
315	7.91	3.72	0.64	
400	7.09	3.53	0.64	
500	5.75	3.28	0.59	0.60
630	5.38	3.09	0.62	
800	5.80	3.25	0.61	
1000	6.26	3.32	0.63	0.65
1250	6.17	3.04	0.75	
1600	5.47	2.72	0.82	
2000	4.85	2.47	0.88	0.85
2500	4.17	2.25	0.90	
3150	3.38	1.93	0.97	
4000	2.59	1.63	0.98	1.00
5000	2.07	1.40	0.98	
6300*	1.45	1.09	0.93	
8000*	1.10	0.85	1.07	n/a
10000*	0.75	0.62	1.08	
α_w 0.65(H)				
Class C				
Calculated to EN ISO 11654:1997				
NRC 0.70				
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

v3.1