



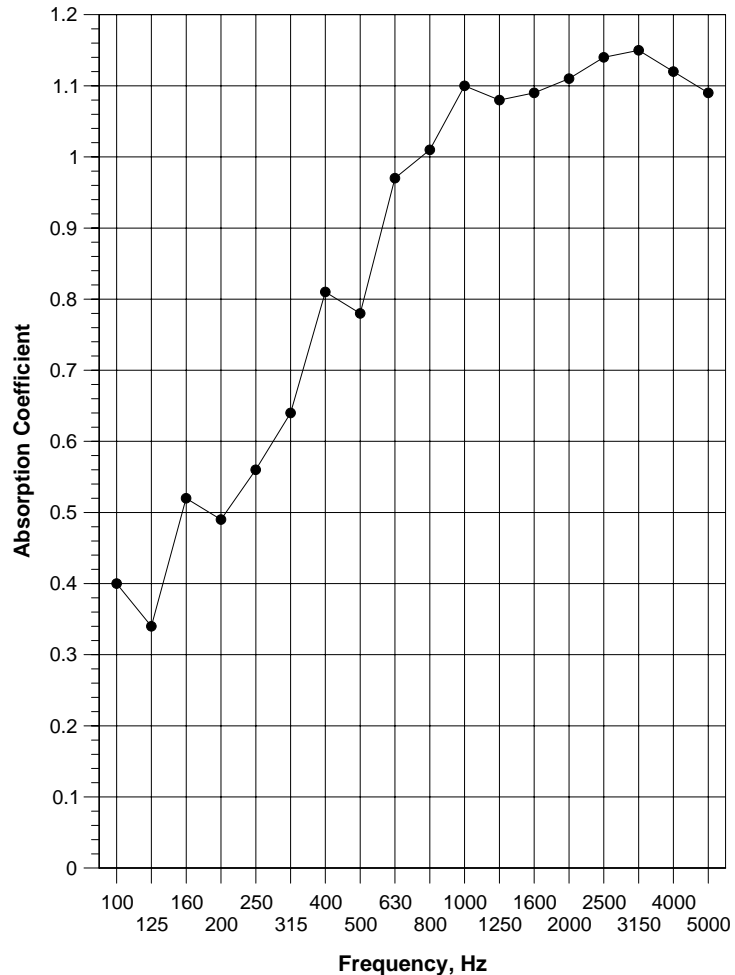
See SRL report C/09/5L/21022/R01 for full details

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

**Client:** Knauf AMF  
**Test Date:** 12/11/2009  
**Empty Room:** Temperature: 15.0 °C Humidity: 54 %RH Pressure: 997 mbar  
**Room with Sample:** Temperature: 15.4 °C Humidity: 57 %RH Pressure: 997 mbar  
**Sample:** Thermatex Silence 600x600x43mm, Edge: SK  
**Description:**  
**Mounting Method:** E- 200  
**Sample Area:** 10.8 m<sup>2</sup>  
**Chamber Volume:** 300 m<sup>3</sup>

**Sound Absorption Coefficient**

Test 3				
Freq Hz	T1 sec	T2 sec	Absorp Coeff	Practical Absorp Coeff #
50*	4.26	3.50	0.23	
63*	4.01	2.63	0.59	n/a
80*	4.53	3.68	0.23	
100	6.06	3.93	0.40	
125	7.33	4.72	0.34	0.40
160	7.26	3.95	0.52	
200	7.50	4.15	0.49	
250	7.93	3.99	0.56	0.55
315	7.66	3.66	0.64	
400	6.89	3.07	0.81	
500	5.65	2.86	0.78	0.85
630	5.48	2.51	0.97	
800	5.81	2.53	1.01	
1000	6.40	2.50	1.10	1.00
1250	6.06	2.48	1.08	
1600	5.58	2.38	1.09	
2000	4.95	2.25	1.11	1.00
2500	4.30	2.08	1.14	
3150	3.47	1.87	1.15	
4000	2.78	1.68	1.12	1.00
5000	2.09	1.43	1.09	
6300*	1.58	1.17	1.14	
8000*	1.20	0.95	1.19	n/a
10000*	0.82	0.70	1.22	
$A_w$ 0.85(H)				
Class B				
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

v3