Data Sheet 2

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

Client: Siderise

Test Date: 30/06/2010

Empty Room: Temperature: 22.4 °C Humidity: 61 %RH Pressure: 1016 mbar

Room with Sample: Temperature: 22.4 °C Humidity: 61 %RH Pressure: 1016 mbar

Sample Description: Type 17 flexible acoustic barrier

Mounting Method: A

Sample Area: 8.05 m2

Chamber Volume: 300 m3

	Test 5			
Freq Hz	T1 sec	T2 sec	Absorp Coefl	Practical Absorp Coefl #
*50**	*5.18*	*4.84*	*0.08*	
*63**	*4.76*	*4.71*	*0.01*	*n/a*
*80**	*6.47*	*5.94*	*0.08*	
100	7.61	6.96	0.07	
125	7.54	6.71	0.10	0.20
160	7.42	4.77	0.45	
200	7.75	4.39	0.59	
250	7.98	3.74	0.85	0.85
315	8.24	3.35	1.06	
400	6.93	3.02	1.12	
500	5.77	2.79	1.11	1.00
630	5.15	2.66	1.09	
800	5.58	2.81	1.06	
1000	6.15	3.15	0.93	0.90
1250	6.15	3.57	0.70	
1600	5.43	3.58	0.57	
2000	5.04	3.59	0.48	0.50
2500	4.59	3.44	0.44	
3150	3.95	3.11	0.41	
4000	3.32	2.78	0.35	0.35
5000	2.67	2.35	0.31	
*6300**	*2.05*	*1.86*	*0.30*	
*8000**	*1.57*	*1.46*	*0.29*	*n/a*
*10000**	*1.16*	*1.10*	*0.28*	

α_w 0.50(LM)

Class D

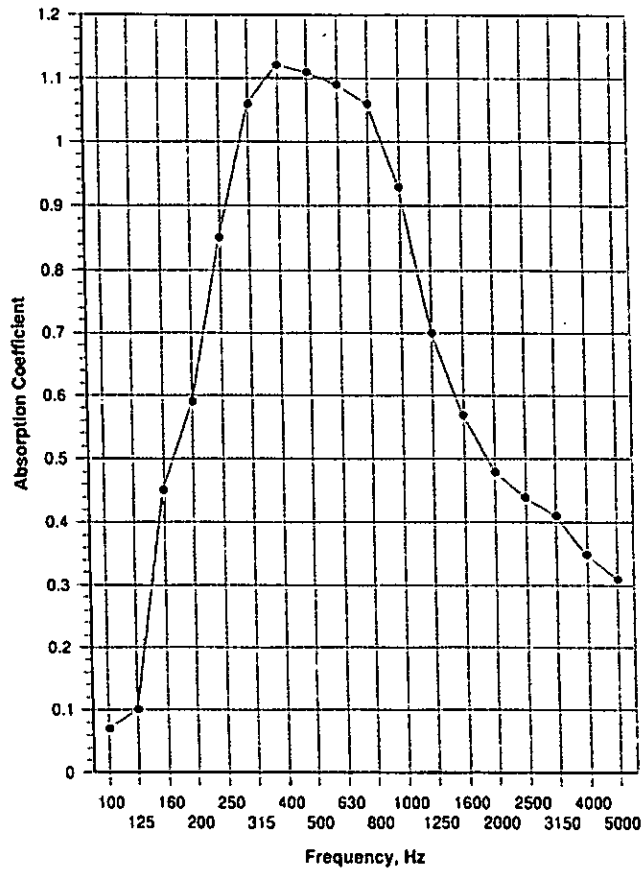
Calculated to EN ISO 11654:1997

NRC 0.85

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 reverboration time with sample



Practical absorption coefficient, BS EN ISO 11654:1997