FRONTIER ACOUSTIC OFFICE SCREENS NCR RATING



Product NRC Rating

18mm thick foam

Acoustic tiles are constructed with 18mm thick sound absorbing foam.

12mm sound absorbing equivalent test by University of Salford with NRC rating of 0.25.

25mm sound absorbing equivalent test by SRL with NRC rating of 0.55.

Therefore inferred results for 18mm thick foam is 0.43 NRC rating.

Ispaed by Ceivernity of Salitori (Acoustics Test Laboratory) UKAS ACCREDITED TEST LABORATORY NO. 1262 Page 8 of 15 BS EN ISO 354:2003 Acoustics - Measurement of absorption in a reverberation room Carpenter Ltd Dinting Lodge Industrial Estate Glossop, Derbyshire SK13 BLE RX25140 12mm 12.05 m² Size: Receiving room: 220 m³ Volume: Condition: clean Type: large reverberation room Location: acoustic transmission suite Sample out: Temperature [°C]: 20.1 Humidity [%]: Humidity [%]: 34.1 Sample in: Temperature [°C]: Sound absorption coefficient as 0.25 NRC Frequency 049 Hz 0.02 125 0.06 160 0.05 1,20 200 30.0 250 0.08 1.00 315 0.12 500 0.16 630 0.22 E 060 800 0.26 1000 0.27 1250 0.34 0.40 1600 0.41 0.20 2500 0.56 3150 0.64 0.00 4000 0.78 100 160 250 400 630 1000 1600 2500 4000 5000 0.90 frequency, f (Hz) Test reference number: 1306-1040 University of Salford, School of Computing, Science & Engineering Report No 1306-1040 to 1042 18 June 2013





Test Report No: C/23213/T01

Page 10 of 26 Date: 13/11/2015

This report shall not be reproduced. except in full, without written approval of SRL Technical Services Limited

Data Sheet 1

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

Test Date: 16/10/2015 Empty Room:

16.3 °C Temperature: Temperature: 16.7 °C

Humidity: 66 %RH

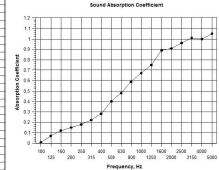
Pressure: 1013 mbar Pressure: 1013 mbar

Sample Description: RX28150 25mm Thick

Mounting Method: Sample Area: 11.85 m2 Chamber Volume: 300 m3

Room with Sample:

Freq Hz	Test 2			
	T1 sec	T2 sec	Absorp Coeff	Practica Absorp Coeff #
50°	4.58	4.45	0.03	
63*	4.91	4.64	0.05	n/a
80*	5.32	5.11	0.03	
100	6.40	6.26	0.01	
125	6.72	6.06	0.07	0.05
160	6.84	5.68	0.12	
200	7.00	5.60	0.15	
250	7.30	5.52	0.18	0.20
315	7.03	5.07	0.22	
400	6.21	4.35	0.28	
500	5.32	3.49	0.40	0.40
630	5.11	3.20	0.48	
800	5.57	3.09	0.59	
1000	6.03	3.03	0.67	0.65
1250	5.82	2.81	0.75	
1600	5.31	2.47	0.89	
2000	4.82	2.33	0.91	0.90
2500	4.35	2.15	0.96	
3150	3.63	1.92	1.01	
4000	2.99	1.73	1.00	1.00
5000	2.38	1.48	1.05	
6300*	1.74	1.19	1.09	
8000*	1.35	0.99	1.11	n/a
10000°	0.95	0.76	1.09	



Class D

Calculated to EN ISO 11654-1997 0.55 NRC Calculated to ASTM C 423-01

*Denotes frequencies outside the range covered by BS EN ISO 354 2003 T2 room reverberation time with sample

Practical absorption coefficient, BS EN ISO 11654:1997