



SOUND ABSORPTION
ASTM C423

Test Date	06/06/17	
Job No.	H2114.01D	
Client	DFB Sales	
Specimen	Series/Model: 1" thick Quiet-Core, substrate with fabric	
Operator	Zachary Golden	
Sample Area	6.69 m ²	
Mounting Type	Type A Mount	
	Empty	Full
Temp °C	21.9	21.6
RH %	51	50
B.P. (mb)	997	

Freq (Hz)	Empty Room Absorption (m ²)	Uncertainty	Full Room Absorption (m ²)	Uncertainty	Absorption Coefficient	Relative Uncertainty
80	4.63	0.482	4.84	0.473	0.03	0.101
100	5.31	0.595	5.80	0.461	0.07	0.113
125	5.01	0.223	5.45	0.183	0.06	0.043
160	4.34	0.274	5.05	0.242	0.11	0.055
200	4.32	0.105	5.63	0.180	0.20	0.031
250	4.80	0.060	6.96	0.057	0.32	0.012
315	5.01	0.064	8.43	0.027	0.51	0.010
400	5.13	0.057	9.68	0.041	0.68	0.010
500	5.11	0.062	10.63	0.227	0.83	0.035
630	4.77	0.051	11.16	0.052	0.95	0.011
800	4.95	0.017	11.69	0.020	1.01	0.004
1000	4.88	0.050	11.72	0.029	1.02	0.009
1250	5.19	0.023	12.20	0.011	1.05	0.004
1600	5.28	0.020	12.26	0.009	1.04	0.003
2000	5.18	0.017	12.05	0.029	1.03	0.005
2500	5.42	0.014	12.70	0.103	1.09	0.016
3150	5.93	0.011	12.82	0.006	1.03	0.002
4000	6.29	0.006	13.16	0.004	1.03	0.001
5000	6.89	0.005	13.73	0.005	1.02	0.001

NRC Rating **0.80** *(Noise Reduction Coefficient)*
SAA Rating **0.81** *(Sound Absorption Average)*

- Notes:
- 1) The NRC rating is the arithmetic average of the sound absorption coefficients at 250, 500, 1000, and 2000 hertz. The average is rounded to the nearest multiple of 0.05.
 - 2) The SAA rating is the arithmetic average of the sound absorption coefficients at the frequencies ranging from 200 to 2500 hertz. The average is rounded to the nearest multiple of 0.01.

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