



SOUND ABSORPTION
ASTM C423

Test Date	06/06/17	
Job No.	H2114.01C	
Client	DFB Sales	
Specimen	Series/Model: 1" thick Quiet-Core, substrate	
Operator	Zachary Golden	
Sample Area	6.69 m ²	
Mounting Type	Type A Mount	
	Empty	Full
Temp °C	21.9	21.7
RH %	51	49
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	4.95	0.345	0.05	0.089
100	5.31	0.595	5.55	0.507	0.04	0.117
125	5.01	0.223	5.20	0.265	0.03	0.052
160	4.34	0.274	4.87	0.257	0.08	0.056
200	4.32	0.105	5.19	0.179	0.13	0.031
250	4.80	0.060	6.23	0.055	0.21	0.012
315	5.01	0.064	7.38	0.043	0.35	0.012
400	5.13	0.057	8.34	0.047	0.48	0.011
500	5.11	0.062	9.28	0.288	0.62	0.044
630	4.77	0.051	10.07	0.019	0.79	0.008
800	4.95	0.017	10.71	0.020	0.86	0.004
1000	4.88	0.050	11.07	0.016	0.93	0.008
1250	5.19	0.023	11.71	0.026	0.98	0.005
1600	5.28	0.020	11.96	0.014	1.00	0.004
2000	5.18	0.017	11.90	0.037	1.00	0.006
2500	5.42	0.014	12.55	0.132	1.07	0.020
3150	5.93	0.011	12.94	0.009	1.05	0.002
4000	6.29	0.006	13.35	0.010	1.05	0.002
5000	6.89	0.005	14.05	0.007	1.07	0.001

NRC Rating **0.70** *(Noise Reduction Coefficient)*
SAA Rating **0.70** *(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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