



SOUND ABSORPTION
ASTM C 423

Test Date	08/03/15	
ATI No.	E9775.01G	
Client	Burch Fabrics	
Specimen	Series/Model: Coalition Soft Bronze over Owens Corning Type 475-FRK 1" duct board	
Operator	Eric A. Thompson	
Sample Area	6.69 m ²	
Mounting Type	Type A	
	Empty	Full
Temp C	22	22
RH %	51	47
B.P. (mb)	1010	

Freq (Hz)	Empty Room Absorption (m ²)	Uncertainty	Full Room Absorption (m ²)	Uncertainty	Absorption Coefficient	Relative Uncertainty
80	4.34	0.395	4.57	0.337	0.03	0.078
100	4.52	0.351	4.72	0.327	0.03	0.072
125	4.62	0.236	4.96	0.324	0.05	0.060
160	4.13	0.082	4.78	0.170	0.10	0.028
200	4.21	0.124	5.31	0.152	0.16	0.029
250	4.65	0.065	6.31	0.041	0.25	0.012
315	4.91	0.041	7.57	0.043	0.40	0.009
400	5.07	0.046	8.88	0.027	0.57	0.008
500	5.03	0.047	9.86	0.254	0.72	0.039
630	4.58	0.032	10.44	0.020	0.87	0.006
800	4.56	0.032	10.92	0.015	0.95	0.005
1000	4.65	0.020	11.41	0.023	1.01	0.005
1250	5.18	0.030	12.14	0.019	1.04	0.005
1600	5.21	0.008	12.44	0.005	1.08	0.001
2000	5.11	0.014	12.32	0.038	1.08	0.006
2500	5.38	0.008	13.19	0.123	1.17	0.018
3150	6.00	0.010	13.74	0.007	1.16	0.002
4000	6.43	0.004	14.55	0.012	1.21	0.002
5000	7.14	0.012	15.95	0.009	1.32	0.002

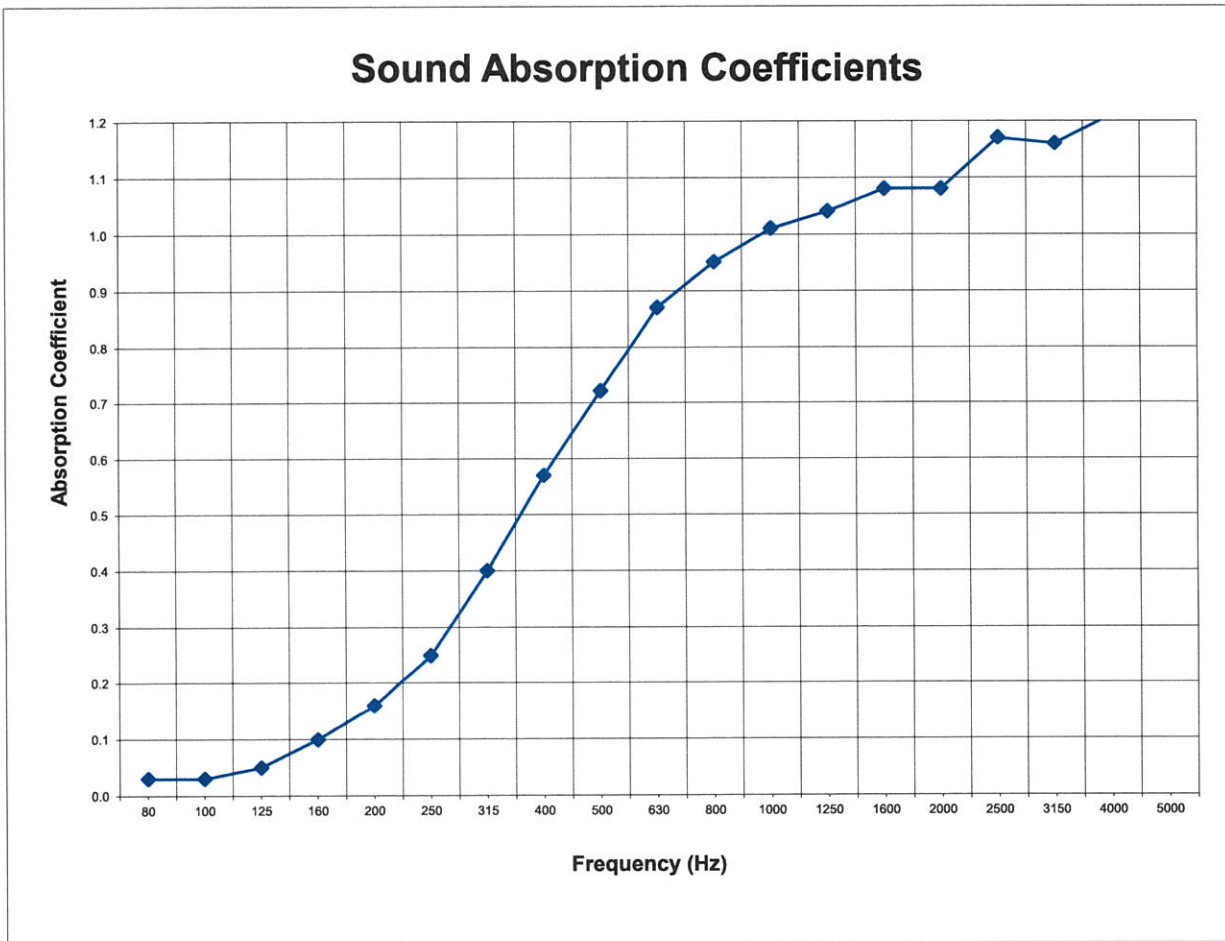
NRC Rating **0.75** *(Noise Reduction Coefficient)*
SAA Rating **0.78** *(Sound Absorption Average)*

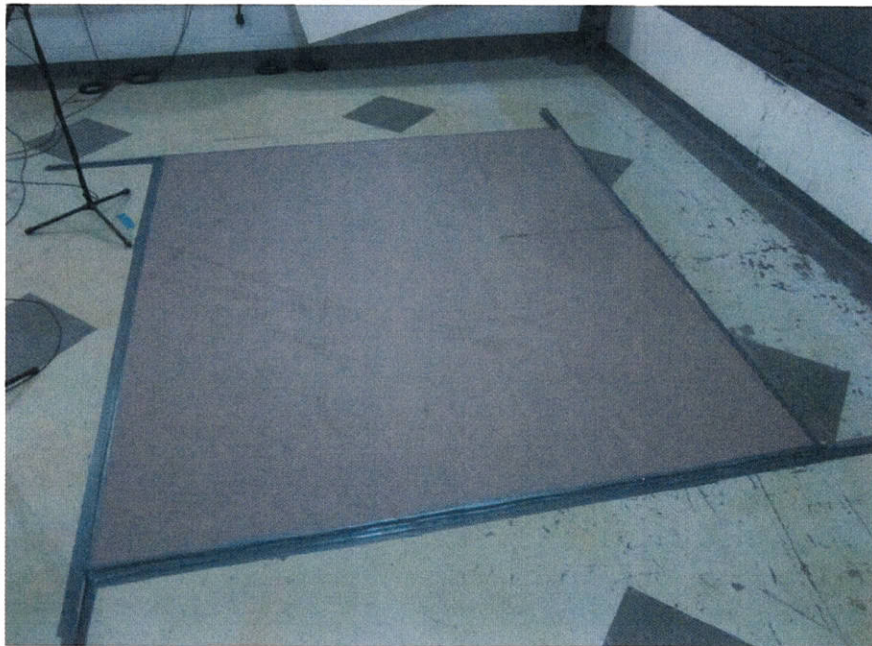
- Notes:**
- 1) The NRC rating is the arithmetic average of the sound absorption coefficients at 250, 500, 1000, and 2000 hertz. The average is rounded to the nearest multiple of 0.05.
 - 2) The SAA rating is the arithmetic average of the sound absorption coefficients at the frequencies ranging from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



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Operator	Eric A. Thompson	
Sample Area	6.69 m ²	
Mounting Type	Type A	
	Empty	Full
Temp C	21.9	21.8
RH %	51	47
B.P. (mb)	1010	





Installed Specimen Coalition Soft Bronze