



**SOUND ABSORPTION**  
ASTM C 423

<b>Test Date</b>	08/03/15	
<b>ATI No.</b>	E9775.01J	
<b>Client</b>	Burch Fabrics	
<b>Specimen</b>	Series/Model: Columbus Silver over Owens Corning Type 475-FRK 1" duct board	
<b>Operator</b>	Eric A. Thompson	
<b>Sample Area</b>	6.69 m <sup>2</sup>	
<b>Mounting Type</b>	Type A	
	Empty	Full
<b>Temp C</b>	22	22
<b>RH %</b>	51	48
<b>B.P. (mb)</b>	1008	

Freq (Hz)	Empty Room Absorption (m <sup>2</sup> )	Uncertainty	Full Room Absorption (m <sup>2</sup> )	Uncertainty	Absorption Coefficient	Relative Uncertainty
80	4.34	0.395	4.68	0.236	0.05	0.069
100	4.52	0.351	4.82	0.331	0.04	0.072
125	4.62	0.236	4.82	0.417	0.03	0.072
160	4.13	0.082	4.78	0.196	0.10	0.032
200	4.21	0.124	5.38	0.225	0.18	0.038
250	4.65	0.065	6.27	0.085	0.24	0.016
315	4.91	0.041	7.64	0.083	0.41	0.014
400	5.07	0.046	9.08	0.038	0.60	0.009
500	5.03	0.047	10.16	0.246	0.77	0.037
630	4.58	0.032	10.74	0.033	0.92	0.007
800	4.56	0.032	11.23	0.026	1.00	0.006
1000	4.65	0.020	11.60	0.012	1.04	0.003
1250	5.18	0.030	12.23	0.026	1.05	0.006
1600	5.21	0.008	12.37	0.020	1.07	0.003
2000	5.11	0.014	12.29	0.037	1.07	0.006
2500	5.38	0.008	13.30	0.131	1.18	0.020
3150	6.00	0.010	13.95	0.003	1.19	0.002
4000	6.43	0.004	14.83	0.009	1.25	0.002
5000	7.14	0.012	16.51	0.007	1.40	0.002

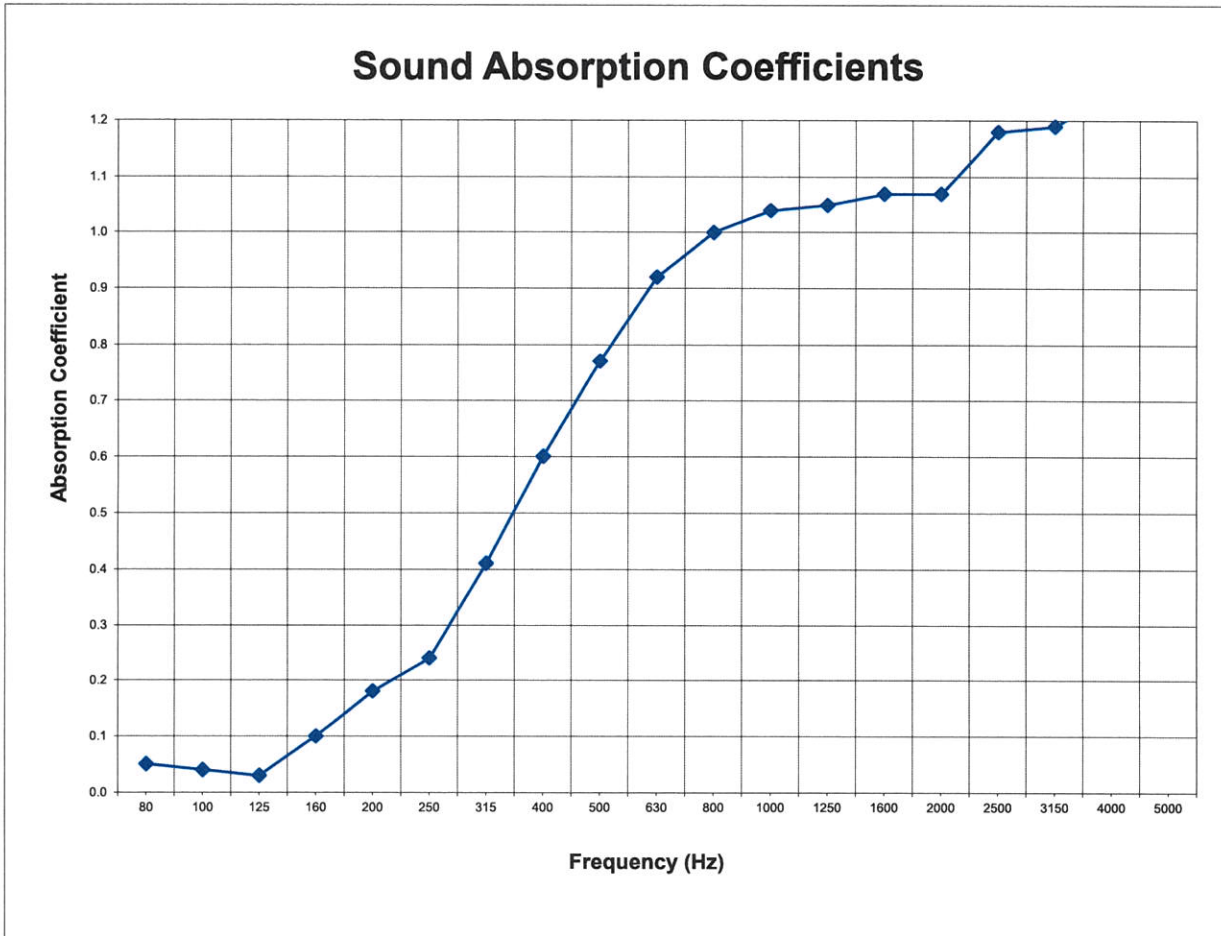
**NRC Rating**            **0.80**            *(Noise Reduction Coefficient)*  
**SAA Rating**            **0.79**            *(Sound Absorption Average)*

- 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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<b>Specimen</b>	Series/Model: Columbus Silver over Owens Corning Type 475-FRK 1" duct board	
<b>Operator</b>	Eric A. Thompson	
<b>Sample Area</b>	6.69 m <sup>2</sup>	
<b>Mounting Type</b>	Type A	
	Empty	Full
<b>Temp C</b>	21.9	21.7
<b>RH %</b>	51	48
<b>B.P. (mb)</b>	1008	





**Installed Specimen Columbus Silver**