



**SOUND ABSORPTION**  
ASTM C 423

<b>Test Date</b>	08/03/15	
<b>ATI No.</b>	E9775.01D	
<b>Client</b>	Burch Fabrics	
<b>Specimen</b>	Series/Model: Alliance Taupe 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	47
<b>B.P. (mb)</b>	1010	

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	4.56	0.347	0.03	0.079
100	4.52	0.351	4.61	0.214	0.01	0.061
125	4.62	0.236	5.01	0.322	0.06	0.060
160	4.13	0.082	4.90	0.232	0.11	0.037
200	4.21	0.124	5.30	0.112	0.16	0.025
250	4.65	0.065	6.40	0.041	0.26	0.012
315	4.91	0.041	7.75	0.050	0.43	0.010
400	5.07	0.046	9.20	0.030	0.62	0.008
500	5.03	0.047	10.17	0.195	0.77	0.030
630	4.58	0.032	10.60	0.030	0.90	0.007
800	4.56	0.032	11.09	0.020	0.98	0.006
1000	4.65	0.020	11.52	0.025	1.03	0.005
1250	5.18	0.030	12.16	0.023	1.04	0.006
1600	5.21	0.008	12.34	0.009	1.07	0.002
2000	5.11	0.014	12.17	0.035	1.06	0.006
2500	5.38	0.008	13.04	0.133	1.15	0.020
3150	6.00	0.010	13.55	0.009	1.13	0.002
4000	6.43	0.004	14.42	0.007	1.19	0.001
5000	7.14	0.012	15.70	0.009	1.28	0.002

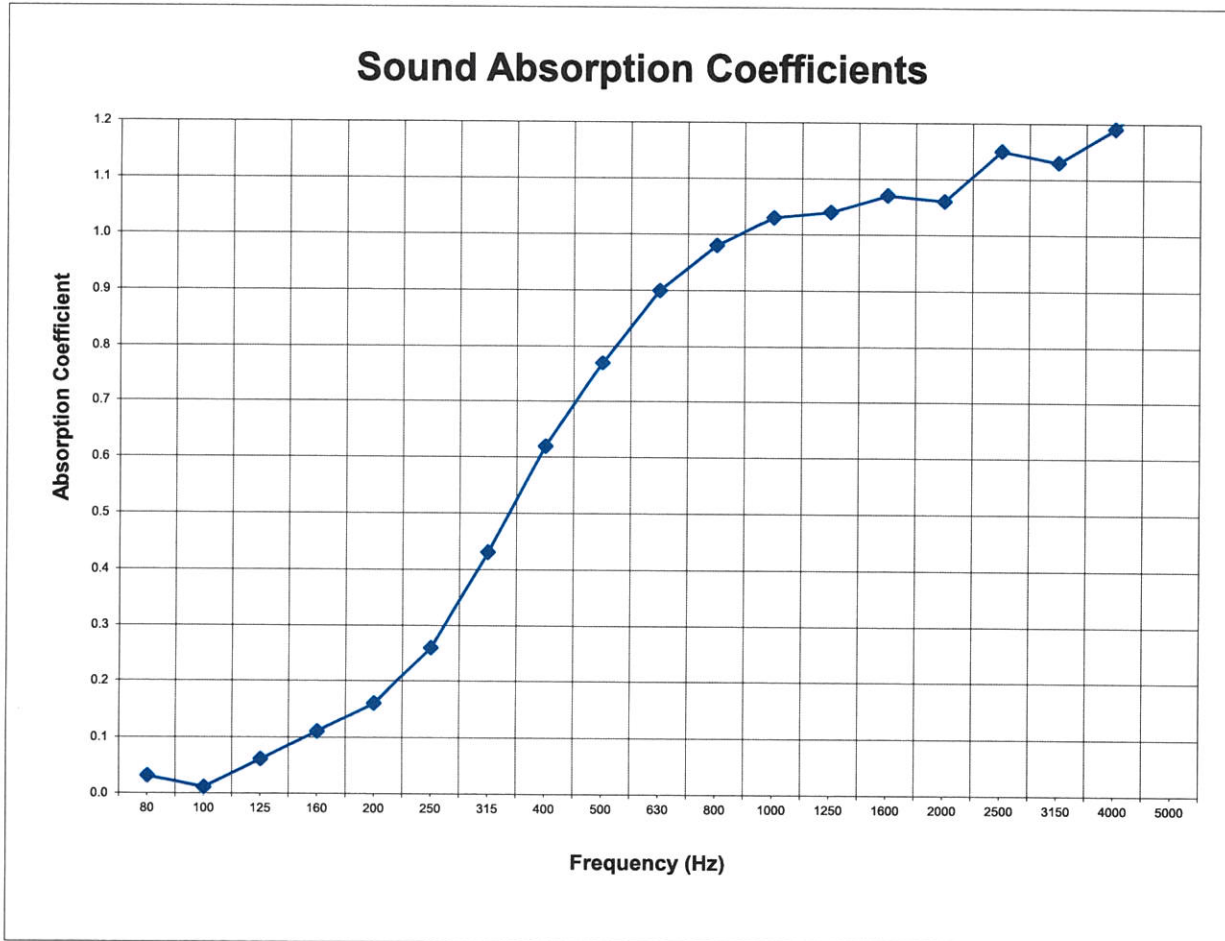
**NRC Rating**            **0.80**        *(Noise Reduction Coefficient)*  
**SAA Rating**            **0.79**        *(Sound Absorption Average)*

- 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: Alliance Taupe 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	22.3
<b>RH %</b>	51	47
<b>B.P. (mb)</b>	1010	





**Installed Specimen Alliance Taupe**