

CARDINAL ACOUSTICS, INC. ACOUSTICAL TEST REPORT

THICKNESS	MOUNTING	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	SAA	NRC
5/8"	A	0.04	0.06	0.03	0.07	0.07	0.10	0.12	0.2	0.29	0.42	0.58	0.79	0.94	0.92	0.83	0.72	0.67	0.69	0.44	0.45
5/8"	D20	0.07	0.04	0.07	0.12	0.13	0.22	0.33	0.56	0.74	0.87	0.89	0.80	0.71	0.64	0.60	0.63	0.69	0.79	0.55	0.55
5/8"	C20	0.19	0.14	0.26	0.38	0.50	0.80	0.99	1.13	1.13	0.98	0.86	0.74	0.64	0.62	0.62	0.67	0.73	0.82	0.78	0.80
5/8"	C50	0.40	0.54	0.57	0.80	1.05	1.18	1.17	1.01	0.92	0.77	0.62	0.59	0.58	0.59	0.65	0.68	0.72	0.76	0.83	0.80
1"	A	0.07	0.05	0.07	0.11	0.11	0.23	0.29	0.43	0.56	0.78	0.96	1.07	1.04	0.93	0.80	0.78	0.84	0.90	0.61	0.60
1"	D20	0.11	0.09	0.14	0.18	0.22	0.37	0.50	0.80	0.96	1.04	0.97	0.87	0.77	0.73	0.77	0.85	0.94	0.92	0.68	0.70
1"	C20	0.23	0.20	0.31	0.44	0.62	0.91	1.09	1.22	1.16	1.03	0.90	0.80	0.76	0.76	0.84	0.91	0.96	0.94	0.88	0.90
1"	C50	0.49	0.57	0.65	0.84	1.10	1.19	1.21	1.07	0.96	0.82	0.72	0.72	0.78	0.82	0.90	0.93	0.91	0.92	0.93	0.95
1-1/2"	A	0.12	0.12	0.16	0.22	0.28	0.50	0.70	0.92	0.96	0.89	0.76	0.70	0.71	0.76	0.76	0.75	0.79	0.82	0.68	0.70
5/8"	E400	1.01	0.86	0.67	0.78	0.73	0.60	0.53	0.52	0.59	0.55	0.58	0.55	0.60	0.62	0.66	0.72	0.78	0.80	0.61	0.60
1"	E400	1.00	0.85	0.68	0.80	0.79	0.66	0.60	0.56	0.67	0.65	0.70	0.70	0.77	0.83	0.90	0.94	0.97	0.94	0.72	0.70
1 1/2"	E400	1.10	0.91	0.73	0.77	0.69	0.60	0.54	0.56	0.63	0.64	0.74	0.81	0.87	0.92	0.91	0.89	0.94	0.95	0.72	0.75
5/8" Cardinal Max	E400	1.03	0.89	0.74	0.85	0.83	0.76	0.66	0.62	0.8	0.81	0.83	0.84	0.86	0.84	0.82	0.8	0.8	0.86	0.79	0.80
1" Cardinal Max	E400	0.99	0.94	0.83	1.02	1.02	0.97	0.93	0.87	1	1.02	1.01	0.98	0.95	0.93	0.91	0.97	1.06	1.12	0.97	0.95
5/8" + 1" Complete	A	0.13	0.29	0.34	0.48	0.63	0.91	1.01	1.14	1.14	1.05	0.96	0.86	0.77	0.71	0.69	0.73	0.79	0.89	0.86	0.85
1" + 1" Complete	A	0.20	0.32	0.47	0.65	0.82	1.05	1.12	1.16	1.09	0.93	0.86	0.78	0.79	0.82	0.93	0.99	0.96	0.94	0.92	0.90
1" + 2" Complete	A	0.37	0.70	0.74	0.96	0.98	1.16	1.17	1.12	1.06	0.95	0.95	0.92	0.98	1.02	1.05	1.05	1.02	1.01	1.03	1.00

Notes:

- Acoustical test data is current as of 9/14/2023
- The Sound Absorption Average (SAA) is defined as the average, rounded off to the nearest 0.01, of the sound absorption coefficients for the twelve one-third octave bands from 200 through 2500 Hz

- The Noise Reduction Coefficient (NRC) is defined as the average of the absorption coefficients at 250, 500, 1000, and 2000 Hz, expressed to the nearest multiple of 0.05
- Test methods conform to ASTM C423-17 and ASTM E795-16
- Acoustical tests were performed by an independent 3rd party verified laboratory
- J Mount test report available upon request