



STRANDTEC ACOUSTIC TESTING CHART

Panels (Direct Attach, Shapes, Backfill, Designs, Wrapped)

Thickness	Mount	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	SAA	NRC
1"	A	0.05	0.08	0.03	0.08	0.12	0.18	0.21	0.26	0.31	0.46	0.52	0.62	0.75	0.89	0.86	0.71	0.60	0.68	0.44	0.45
1"	C25	0.10	0.06	0.08	0.21	0.39	0.58	0.78	0.99	1.11	1.07	1.00	0.87	0.77	0.81	0.81	0.89	0.94	0.92	0.78	0.80
1"	C50	0.12	0.22	0.21	0.45	0.76	0.91	1.07	1.04	0.99	0.94	0.86	0.76	0.76	0.83	0.87	0.82	0.91	0.94	0.85	0.85
1"	D20	0.04	0.10	0.05	0.10	0.14	0.18	0.25	0.38	0.47	0.62	0.78	0.80	0.82	0.68	0.63	0.57	0.63	0.74	0.49	0.50
1" Microstrand	A	0.09	0.07	0.06	0.12	0.19	0.19	0.31	0.40	0.46	0.58	0.74	0.86	0.96	1.03	0.89	0.77	0.81	0.62	0.56	0.60
1" Microstrand	C25	0.05	0.12	0.10	0.18	0.37	0.56	0.77	0.97	1.09	1.06	1.01	0.97	0.87	0.81	0.87	0.89	1.00	0.92	0.79	0.80
1" Microstrand	C50	0.14	0.22	0.27	0.47	0.78	0.88	1.09	1.09	1.04	1.01	0.95	0.94	0.90	0.96	0.94	0.85	0.85	0.80	0.92	0.95
1" Microstrand	D20	0.06	0.11	0.08	0.11	0.17	0.24	0.31	0.39	0.52	0.62	0.81	0.88	0.87	0.72	0.66	0.56	0.75	0.86	0.53	0.50
1" Microstrand	D40	0.02	0.09	0.08	0.14	0.22	0.32	0.45	0.60	0.74	0.78	0.79	0.73	0.67	0.65	0.65	0.74	0.71	0.76	0.56	0.55
1" Microstrand	F6	0.00	0.07	0.06	0.07	0.15	0.21	0.26	0.33	0.40	0.48	0.58	0.74	0.87	0.88	0.84	0.71	0.76	0.90	0.48	0.50
1-3/8"	A	0.02	0.04	0.05	0.13	0.23	0.25	0.34	0.41	0.51	0.69	0.80	0.94	0.97	0.79	0.79	0.73	0.81	0.94	0.57	0.55
1-3/8"	D20	0.09	0.08	0.09	0.15	0.24	0.30	0.42	0.53	0.72	0.87	0.91	0.82	0.76	0.63	0.64	0.74	0.83	0.77	0.58	0.60
1-3/8"	C50	0.20	0.28	0.29	0.53	0.80	0.85	1.16	1.06	0.99	0.91	0.81	0.82	0.83	0.96	0.96	0.95	0.95	0.95	0.89	0.90
1-3/8"	C25	0.10	0.12	0.12	0.22	0.43	0.57	0.85	1.04	1.11	1.02	0.96	0.80	0.78	0.81	0.87	0.95	0.99	0.95	0.79	0.80
2"	A	0.04	0.11	0.11	0.21	0.29	0.42	0.59	0.74	0.87	1.01	1.08	1.05	0.89	0.85	0.86	0.97	1.02	0.94	0.74	0.75
2"	C25	0.20	0.16	0.16	0.38	0.56	0.82	1.00	1.07	1.09	0.99	0.91	0.85	0.90	1.01	0.94	0.89	0.93	0.90	0.88	0.90
2"	C50	0.21	0.31	0.32	0.66	0.86	0.93	1.11	1.00	0.96	0.90	0.89	0.91	1.03	0.98	1.01	0.99	0.95	1.00	0.94	0.95
2"	D20	0.07	0.10	0.12	0.22	0.34	0.49	0.68	0.93	1.03	1.03	0.91	0.75	0.72	0.81	0.89	0.92	0.96	0.97	0.73	0.75
2" Backfill	C25	0.10	0.06	0.08	0.21	0.39	0.58	0.78	0.99	1.11	1.07	1.00	0.87	0.77	0.81	0.81	0.89	0.94	0.92	0.78	0.80
2-3/8" Backfill	C25	0.10	0.12	0.12	0.22	0.43	0.57	0.85	1.04	1.11	1.02	0.96	0.80	0.78	0.81	0.87	0.95	0.99	0.95	0.79	0.80
3" Backfill	C25	0.20	0.16	0.16	0.38	0.56	0.82	1.00	1.07	1.09	0.99	0.91	0.85	0.90	1.01	0.94	0.89	0.93	0.90	0.88	0.90



Ceiling Tiles (Lay-In, Tegular Lay-In, Designs)

Thickness	Mount	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	SAA	NRC
1"	E400	0.22	0.12	0.13	0.29	0.34	0.29	0.32	0.31	0.39	0.41	0.48	0.45	0.51	0.51	0.53	0.55	0.65	0.68	0.40	0.40
1" + 1" Backer	E400	0.54	0.01	0.06	0.39	0.73	0.67	0.76	0.78	0.87	0.94	0.96	0.80	0.75	0.70	0.66	0.73	0.90	0.91	0.75	0.80
1" + 2" Backer	E400	0.67	0.06	0.12	0.49	0.74	0.79	0.87	0.91	1.01	0.97	0.95	0.82	0.79	0.73	0.65	0.68	0.73	0.75	0.81	0.85
1" Microstrand	E400	0.20	0.34	0.39	0.48	0.54	0.48	0.44	0.37	0.49	0.59	0.62	0.68	0.69	0.72	0.75	0.80	0.84	0.86	0.57	0.55
1" Microstrand + 1" Backer	E400	0.27	0.42	0.50	0.66	0.82	0.74	0.81	0.77	0.90	1.01	1.00	0.98	0.97	0.93	0.90	0.87	0.91	1.00	0.87	0.90
1" Microstrand + 2" Backer	E400	0.43	0.42	0.51	0.66	0.91	0.86	0.91	0.92	0.95	0.97	0.99	0.99	0.95	0.92	0.90	0.92	1.01	1.00	0.91	0.95
1-3/8"	E400	0.21	0.27	0.31	0.56	0.53	0.49	0.41	0.41	0.53	0.57	0.64	0.70	0.75	0.73	0.78	0.81	0.85	0.80	0.59	0.60
1-3/8" + 1" Backer	E400	0.53	0.70	0.53	0.61	0.77	0.74	0.77	0.80	0.92	0.90	0.92	0.94	0.90	0.86	0.91	0.91	1.05	0.99	0.84	0.85
1-3/8" + 2" Backer	E400	0.46	0.61	0.52	0.67	0.80	0.80	0.85	0.92	0.97	0.96	0.91	0.91	0.90	0.91	0.91	0.95	0.92	0.87	0.88	0.90
2"	E400	0.35	0.35	0.35	0.59	0.64	0.62	0.56	0.60	0.74	0.76	0.86	0.89	0.90	0.94	0.94	0.93	0.88	0.98	0.75	0.75
2" + 1" Backer	E400	0.56	0.43	0.38	0.69	0.82	0.85	0.85	0.89	0.96	0.95	0.98	0.97	0.94	1.01	1.05	0.97	0.89	0.90	0.91	0.95
2" + 2" Backer	E400	0.56	0.47	0.39	0.60	0.89	0.90	0.90	0.98	0.99	0.98	0.97	0.97	0.99	0.95	1.03	0.97	0.95	0.98	0.93	0.95

Notes:

- All testing was performed according to testing standard ASTM C423 at accredited 3rd-party laboratories; full test reports are available for download at asiarchitectural.com.
- For C25 Mount, 1" Cellulose Fiber Backer was used. For C50 Mount, 2" Cellulose Fiber Backer was used.
- Noise Reduction Coefficient (NRC) — a single-number rating, the average, rounded to the nearest 0.05, of the sound absorption coefficients of a material at 250 Hz, 500 Hz, 1000 Hz, and 2000 Hz, measured according to the test method described in ASTM Test Method C423.
- Sound Absorption Average (SAA) — a single number rating, the average, rounded to the nearest 0.01, of the sound absorption coefficients of a material from 200 through 2500 Hz, measured according to the test method described in ASTM Test Method C423.