

Auralex Acoustical Testing Data Master Table

	Auralex Product	1/3-Octave Band Center Frequency (Hz)																	NRC	Mounting	Description		
		100	125 ¹	160	200	250 ¹	315	400	500 ¹	630	800	1000 ¹	1250	1600	2000 ¹	2500	3150	4000 ¹				5000	
Absorption Data in Accordance with ASTM C423	1" Studiofoam Wedges	0.09	0.10	0.10	0.10	0.13	0.16	0.20	0.30	0.43	0.59	0.68	0.77	0.85	0.94	1.01	1.03	1.00	1.03	0.50	A	2'x4'x1" Foam Panel	
	2" Studiofoam Wedges	0.17	0.11	0.16	0.24	0.30	0.45	0.64	0.91	1.01	1.06	1.05	1.02	1.03	0.99	0.97	0.95	1.00	1.05	0.80	A	2'x4'x2" Foam Panel	
	3" Studiofoam Wedges	0.17	0.23	0.19	0.31	0.49	0.71	0.87	1.06	1.10	1.05	1.04	1.03	0.97	0.96	0.98	1.01	1.05	1.03	0.90	A	2'x4'x3" Foam Panel	
	4" Studiofoam Wedges	0.24	0.31	0.36	0.62	0.85	1.09	1.21	1.25	1.17	1.16	1.14	1.08	1.06	1.06	1.11	1.09	1.09	1.10	1.10	1.10	A	2'x4'x4" Foam Panel
	2" Studiofoam Pyramids	0.11	0.13	0.09	0.13	0.18	0.27	0.34	0.57	0.73	0.90	0.96	1.05	1.07	1.03	0.98	0.96	0.98	1.05	0.70	A	2'x4'x2" Foam Panel	
	4" Studiofoam Pyramids	0.21	0.27	0.28	0.37	0.50	0.70	0.85	1.01	1.09	1.13	1.13	1.13	1.12	1.11	1.12	1.09	1.12	1.13	0.95	A	2'x4'x4" Foam Panel	
	2" Studiofoam Metro	0.08	0.13	0.09	0.18	0.23	0.35	0.47	0.68	0.82	0.90	0.93	0.96	0.92	0.91	0.89	0.87	0.89	0.92	0.70	A	2'x4'x2" Foam Panel	
	4" Studiofoam Metro	0.24	0.31	0.40	0.56	0.72	0.98	1.13	1.19	1.23	1.24	1.26	1.26	1.24	1.22	1.20	1.19	1.20	1.20	1.10	A	2'x4'x4" Foam Panel	
	2" Sonomatt	0.08	0.13	0.14	0.20	0.27	0.35	0.47	0.62	0.75	0.85	0.92	0.96	1.01	1.02	1.00	1.02	1.02	1.06	0.70	A	4'x8'x2" Foam Panel	
	2" Wedgies	0.15	0.15	0.10	0.19	0.21	0.36	0.45	0.70	0.90	0.99	0.99	1.05	1.05	1.05	1.01	1.03	1.05	1.08	0.75	A	1'x1'x2" Foam Tile	
	DST-112/DST-422	0.14	0.12	0.14	0.22	0.27	0.36	0.43	0.54	0.62	0.68	0.71	0.76	0.80	0.83	0.85	0.89	0.99	1.09	0.60	A	1'x1'x2"/4'x2'x2" Foam Tile/Panel	
	DST-114/DST-244	0.15	0.16	0.18	0.23	0.29	0.41	0.49	0.57	0.66	0.72	0.75	0.78	0.84	0.90	0.91	0.94	1.00	1.08	0.65	A	1'x1'x2"/2'x4'x2" Foam Tile/Panel	
	MAX-Pak Studiofoam Wedges	0.10	0.13	0.12	0.16	0.22	0.30	0.35	0.47	0.55	0.65	0.66	0.71	0.74	0.81	0.87	0.93	1.01	1.06	0.55	A	2'x4'x1.5" Foam Panel	
	MAX-Wall Panels 01	0.55	0.81	0.86	1.06	1.02	1.11	1.06	1.06	1.07	1.05	1.05	1.05	1.05	1.02	1.00	1.00	1.02	1.06	1.05	A	20"x48" Stand-mounted Panel	
	MAX-Wall Panels 02	3.70	6.39	6.05	6.46	7.28	9.31	10.62	11.98	13.06	13.70	14.32	14.12	14.06	13.70	13.57	13.25	13.22	13.59	N/A	2	20"x48" Stand-mounted Panel	
	MegaMAX-Wall Panels 01	1.02	1.32	1.20	1.32	1.17	1.19	1.16	1.17	1.09	1.11	1.08	1.08	1.05	1.07	1.04	1.03	1.02	1.01	1.10	A	24"x48" Stand-mounted Panel	
	MegaMAX-Wall Panels 02	7.19	9.98	10.18	11.68	12.68	15.04	16.24	17.44	17.75	17.63	17.42	17.49	17.08	16.81	16.76	16.48	16.41	16.13	N/A	2	24"x48" Stand-mounted Panel	
	Venus Bass Traps	1.19	1.63	1.30	1.31	1.34	1.32	1.36	1.29	1.25	1.25	1.26	1.20	1.22	1.25	1.21	1.18	1.20	1.24	1.30	A	2'x4'x12" Foam Panel	
	LENRD Bass Traps	0.97	1.24	1.11	1.28	1.28	1.39	1.45	1.45	1.39	1.39	1.32	1.30	1.27	1.26	1.27	1.31	1.37	1.35	A	2'x1'x1" Triangular Foam Bass Trap		
	Metro LENRD Bass Traps	0.69	1.17	1.05	1.23	1.15	1.18	1.22	1.28	1.25	1.25	1.20	1.16	1.14	1.15	1.13	1.10	1.12	1.15	1.20	A	2'x1'x1" Triangular Foam Bass Trap	
	TruTraps no TruSpacers	0.38	0.40	0.46	0.65	0.82	1.06	1.18	1.24	1.26	1.25	1.21	1.22	1.20	1.22	1.21	1.15	1.13	1.09	1.10	A	2'x4'x3" Foam Panel	
	TruTraps with TruSpacers	0.49	0.62	0.68	0.88	1.01	1.25	1.40	1.41	1.37	1.30	1.22	1.25	1.30	1.29	1.28	1.27	1.31	1.26	1.25	A	2'x4'x3" Foam Panel on 3" spacers	
	Sunburst Male	0.76	1.08	0.96	1.15	1.23	1.22	1.21	1.14	1.12	1.09	1.07	1.05	1.05	1.05	1.07	1.04	1.08	1.14	1.10	A	4'x1" Semi-cylindrical Foam Absorber	
	Sunburst Female	0.51	0.65	0.60	0.84	1.02	1.08	1.06	1.00	1.01	1.06	1.08	1.05	1.04	1.05	1.06	1.08	1.08	1.13	1.05	A	4'x1" Concave Foam Absorber	
	VersaTile Convex	0.45	0.36	0.27	0.34	0.48	0.67	0.75	0.84	0.84	0.84	0.80	0.84	0.86	0.90	0.94	0.97	0.99	0.99	0.75	A	24"x16"X2" Foam Panel	
	VersaTile Concave	0.32	0.26	0.36	0.38	0.52	0.67	0.74	0.90	0.92	0.91	0.92	0.91	0.90	0.92	0.99	1.01	1.00	1.06	0.80	A	24"x16"X2" Foam Panel	
	VersaTile Corner	0.95	0.88	0.85	0.88	1.01	0.99	0.95	0.99	1.05	1.10	1.12	1.13	1.11	1.13	1.14	1.14	1.17	1.19	1.05	A	24"x16"X2" Foam Panel	
	2" SonoFlats	0.12	0.16	0.28	0.36	0.46	0.69	0.85	0.99	1.07	1.12	1.12	1.15	1.12	1.14	1.14	1.13	1.13	1.10	0.95	A	2'x2'x2" Flat, beveled Foam Panel	
	SonoColumns	0.81	1.10	1.21	1.41	1.36	1.46	1.50	1.50	1.46	1.41	1.38	1.37	1.36	1.34	1.32	1.31	1.33	1.31	1.40	A	4'x1'x6" Foam Column Absorber	
	M-111 Tiles	0.09	0.12	0.14	0.21	0.25	0.44	0.59	0.73	0.82	0.87	0.91	0.97	0.96	0.97	0.98	0.99	0.99	0.96	0.70	A	1'x1'x2" Melamine tiles	
	SonoFiber	0.05	0.09	0.12	0.19	0.20	0.42	0.54	0.72	0.84	0.93	0.97	1.02	1.04	1.04	1.04	1.02	1.01	1.01	0.75	A	2'x2'x1" Natural fiber panel (no facing)	
	B22/B24/X24 ProPanels	0.16	0.07	0.11	0.22	0.22	0.36	0.48	0.80	0.92	0.94	1.01	1.03	1.02	1.05	1.03	1.00	0.99	1.02	0.80	A	1" thick, 6# FG panel with GoM fabric facing	
	C24/C44/CT45 ProPanels	0.28	0.42	0.41	0.66	0.89	0.99	0.98	1.12	1.12	1.11	1.07	1.10	1.09	1.10	1.12	1.10	1.09	1.12	1.05	A	2" thick, 6# FG panel with GoM fabric facing	
	ProColumns	1.01	1.11	1.01	1.09	1.10	1.26	1.35	1.39	1.42	1.36	1.35	1.34	1.31	1.33	1.28	1.25	1.24	1.15	1.30	A	4'x1'x6" Column Absorber with fabric facing	
	1" SonoSuede Panel	0.11	0.14	0.22	0.41	0.51	0.68	0.75	0.78	0.83	0.89	0.89	0.83	0.83	0.80	0.78	0.78	0.78	0.78	0.75	A	1" thick, 6# FG panel with micro-suede fabric facing	
	1" SonoSuede Panel on spacers	0.21	0.40	0.44	0.72	0.81	0.99	1.04	1.04	1.06	1.06	1.01	0.98	0.97	1.00	0.99	1.00	1.02	0.95	F	1" thick, 6# FG panel with micro-suede fabric facing on spacers		
	2" SonoSuede Panel	0.36	0.59	0.61	0.80	0.76	0.81	0.95	0.91	0.87	0.88	0.85	0.84	0.81	0.80	0.77	0.75	0.76	0.74	0.85	A	2" thick, 6# FG panel with micro-suede fabric facing	
	2" SonoSuede Panel on spacers	0.42	0.67	0.73	0.96	0.98	1.07	1.11	1.09	1.04	1.05	1.00	0.99	0.97	0.96	0.94	0.89	0.88	0.78	1.00	F	2" thick, 6# FG panel with micro-suede fabric facing on spacers	
	ELITE Absorber		0.08			0.31			0.79			1.01			1.00			0.99		0.80	A	1" Natural fiber core with fabric facing	
	2" Mineral Fiber		0.32			0.90			1.11			1.07			1.01			1.05		1.00	A	2'x4'x2" Mineral fiber panel (no facing)	
	4" Mineral Fiber		1.11			0.91			1.07			1.03			1.06			1.07		1.00	A	2'x4'x2" Mineral fiber panel (no facing)	
	T'Fusor 01	0.32	0.36	0.58	0.60	0.39	0.14	0.27	0.23	0.18	0.18	0.10	0.08	0.09	0.09	0.09	0.07	0.07	0.06	0.20	A	23.75"x23.75" Diffusor panel	
	T'Fusor 02	0.42	0.45	0.40	0.30	0.31	0.25	0.25	0.23	0.22	0.21	0.16	0.14	0.14	0.15	0.16	0.18	0.21	0.20	0.20	E-530	23.75"x23.75" Diffusor panel	
	MetroFusor ³	0.04	0.06	0.05	0.07	0.05	0.05	0.08	0.14	0.19	0.25	0.36	0.57	0.66	0.68	0.60	0.55	0.47	0.46	0.30	A	23.75"x23.75" Diffusor panel	
	StudiofoamPro	0.13	0.23	0.25	0.35	0.49	0.80	0.99	1.11	1.17	1.12	1.00	0.95	0.94	0.97	1.01	0.99	1.01	1.05	0.90	A	24"x24"x1.5" Class A fire-rated foam panel	

Other Tests	Auralex Product	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	STC	Test	Description	
	SheetBlok STL (dB)	19.0	15.0	15.0	18.0	18.0	20.0	21.0	23.0	24.0	26.0	27.0	29.0	31.0	33.0	35.0	36.0	37.0	39.0	27.0	ASTM E90	1/8" thick EVA barrier material	
		100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000		ITC ³	Test	Description
	PlatFoam/GRAMMA Maximum Impact STL (dB)***	6.5	2.5	2.5	3.0	2.0	12.0	17.0	20.0	23.0	32.0	34.0	40.0	41.0	43.5	52.0	48.0	43.0	37.0	61.0	ASTM E492 ⁴	2'x4'x48" Isolating foam	
		100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000			Test	Description
TruTraps with Spacers—Special	5.35	4.39	5.92	7.26	9.04	12.13	14.02	15.00	14.91	13.77	13.77	13.79	14.23	14.33	14.66	14.13	14.26	14.29		ASTM C423 ⁵	2'x4'x3" Foam Panels on 3" spacers; panels spread out on the chamber floor		
					200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000			Test	Description	
T'Fusor Diffusion Coefficients					0.69	0.69	0.66	0.70	0.69	0.59	0.64	0.67	0.67	0.74	0.67	0.65	0.70	0.74		AES-4id-2001	23.75"x23.75" Diffusor panel		

¹Values reported as octave-band absorption coefficients in accordance with ASTM C423.

²MAX-Wall and MegaMAX-Wall tested free standing in chamber per Section 12.1.4 of ASTM C423. Values reported in each band are sabins per unit.

³Data also approximate absorptive effect of DST-Rs, Q'Fusors and ProFusors

⁴Estimated - Partial area of chamber floor floated using PlatFoam to mimic real world conditions. Not in strict compliance with ASTM E492.

⁵Panels were mounted on spacers, but not placed in the official test area. They were spread out in the lab to mimic a competitor's placement of a similar device. Absorption values are sabins/unit.

This table was last updated on:

3/2/2011