

13 48 Sound, Vibration, and Seismic Control

13 48 13 – Manufactured Sound and Vibration Control Components

13 48 13.50 Audio Masking		Daily Crew	Output	Labor-Hours	Unit	Material	2022 Bare Costs		Total	Total Incl O&P
							Labor	Equipment		
3110	and signal generator									
3200	Ceiling mounted, 5,000 S.F.	2 Elec	2400	.007	S.F.	1.22	.44		1.66	2
3300	10,000 S.F.		2800	.006		.99	.38		1.37	1.65
3400	Plenum mounted, 5,000 S.F.		3800	.004		1.11	.28		1.39	1.63
3500	10,000 S.F.		4400	.004		.74	.24		.98	1.17

13 49 Radiation Protection

13 49 13 – Integrated X-Ray Shielding Assemblies

13 49 13.50 Lead Sheets

0010 LEAD SHEETS										
0300	Lead sheets, 1/16" thick	2 Lath	135	.119	S.F.	10.65	6.65		17.30	21.50
0400	1/8" thick		120	.133		24	7.45		31.45	37
0500	Lead shielding, 1/4" thick		135	.119		45	6.65		51.65	59
0550	1/2" thick		120	.133		83.50	7.45		90.95	103
0950	Lead headed nails (average 1 lb. per sheet)				Lb.	9.95			9.95	10.95
1000	Butt joints in 1/8" lead or thicker, 2" batten strip x 7' long	2 Lath	240	.067	Ea.	39	3.73		42.73	48.50
1200	X-ray protection, average radiography or fluoroscopy									
1210	room, up to 300 S.F. floor, 1/16" lead, economy	2 Lath	.25	64	Total	14,900	3,575		18,475	21,600
1500	7'-0" walls, deluxe	"	.15	107	"	17,900	5,975		23,875	28,400
1600	Deep therapy X-ray room, 250 kV capacity,									
1800	up to 300 S.F. floor, 1/4" lead, economy	2 Lath	.08	200	Total	41,700	11,200		52,900	62,500
1900	7'-0" walls, deluxe	"	.06	267	"	51,500	14,900		66,400	78,500

13 49 19 – Lead-Lined Materials

13 49 19.50 Shielding Lead

0010 SHIELDING LEAD										
0100	Laminated lead in wood doors, 1/16" thick, no hardware				S.F.	59			59	65
0200	Lead lined door frame, not incl. hardware,									
0210	1/16" thick lead, butt prepared for hardware	1 Lath	2.40	3.333	Ea.	1,025	187		1,212	1,400
0850	Window frame with 1/16" lead and voice passage, 36" x 60"	2 Glaz	2	8		4,825	430		5,255	5,950
0870	24" x 36" frame		4	4		2,600	216		2,816	3,200
0900	Lead gypsum board, 5/8" thick with 1/16" lead		160	.100	S.F.	10.55	5.40		15.95	19.65
0910	1/8" lead		140	.114		20.50	6.15		26.65	31.50
0930	1/32" lead	2 Lath	200	.080		13.60	4.48		18.08	21.50

13 49 21 – Lead Glazing

13 49 21.50 Lead Glazing

0010 LEAD GLAZING										
0600	Lead glass, 1/4" thick, 2.0 mm LE, 12" x 16"	2 Glaz	13	1.231	Ea.	515	66.50		581.50	670
0700	24" x 36"		8	2		1,875	108		1,983	2,225
0800	36" x 60"		2	8		4,525	430		4,955	5,625
2000	X-ray viewing panels, clear lead plastic									
2010	7 mm thick, 0.3 mm LE, 2.3 lb./S.F.	H-3	139	.115	S.F.	288	5.60		293.60	325
2020	12 mm thick, 0.5 mm LE, 3.9 lb./S.F.		82	.195		385	9.50		394.50	440
2030	18 mm thick, 0.8 mm LE, 5.9 lb./S.F.		54	.296		470	14.40		484.40	535
2040	22 mm thick, 1.0 mm LE, 7.2 lb./S.F.		44	.364		775	17.70		792.70	880
2050	35 mm thick, 1.5 mm LE, 11.5 lb./S.F.		28	.571		1,025	28		1,053	1,175
2060	46 mm thick, 2.0 mm LE, 15.0 lb./S.F.		21	.762		1,350	37		1,387	1,525