

02 82 Asbestos Remediation

02 82 13 – Asbestos Abatement

02 82 13.41 Asbestos Abatement Equipment		Crew	Daily Output	Labor-Hours	Unit	Material	2022 Bare Costs		Total	Total Incl O&P
							Labor	Equipment		
1500	Power panel, 20 unit, including GFI				Ea.	565			565	620
1600	Shower unit, including pump and filters					960			960	1,050
1700	Supplied air system (type C)					3,525			3,525	3,875
1750	Vacuum cleaner, HEPA, 16 gal., stainless steel, wet/dry					1,450			1,450	1,600
1760	55 gallon					1,550			1,550	1,700
1800	Vacuum loader, 9-18 ton/hr.					113,000			113,000	124,000
1900	Water atomizer unit, including 55 gal. drum					325			325	355
2000	Worker protection, whole body, foot, head cover & gloves, plastic					10.50			10.50	11.55
2500	Respirator, single use					28			28	30.50
2550	Cartridge for respirator					4.24			4.24	4.66
2570	Glove bag, 7 mil, 50" x 64"					11.90			11.90	13.05
2580	10 mil, 44" x 60"					9.15			9.15	10.10
2590	6 mil, 44" x 60"					5.60			5.60	6.20
6000	Disposable polyethylene bags, 6 mil, 3 C.F.					1.20			1.20	1.32
6300	Disposable fiber drums, 3 C.F.					20			20	22
6400	Pressure sensitive caution labels, 3" x 5"					3.57			3.57	3.93
6450	11" x 17"					13.10			13.10	14.40
6500	Negative air machine, 1800 CFM					900			900	990

02 82 13.42 Preparation of Asbestos Containment Area

0010	PREPARATION OF ASBESTOS CONTAINMENT AREA									
0100	Pre-cleaning, HEPA vacuum and wet wipe, flat surfaces	A-9	12000	.005	S.F.	.02	.34		.36	.53
0200	Protect carpeted area, 2 layers 6 mil poly on 3/4" plywood	"	1000	.064		2.67	4.04		6.71	9.15
0300	Separation barrier, 2" x 4" @ 16", 1/2" plywood ea. side, 8' high	2 Carp	400	.040		3.48	2.25		5.73	7.15
0310	12' high		320	.050		3.39	2.82		6.21	7.90
0320	16' high		200	.080		3.35	4.50		7.85	10.40
0400	Personnel decontam. chamber, 2" x 4" @ 16", 3/4" ply ea. side		280	.057		3.76	3.22		6.98	8.95
0450	Waste decontam. chamber, 2" x 4" studs @ 16", 3/4" ply ea. side		360	.044		3.76	2.50		6.26	7.85
0500	Cover surfaces with polyethylene sheeting									
0501	Including glue and tape									
0550	Floors, each layer, 6 mil	A-9	8000	.008	S.F.	.06	.50		.56	.84
0551	4 mil		9000	.007		.05	.45		.50	.74
0560	Walls, each layer, 6 mil		6000	.011		.06	.67		.73	1.10
0561	4 mil		7000	.009		.05	.58		.63	.93
0570	For heights above 14', add						20%			
0575	For heights above 20', add						30%			
0580	For fire retardant poly, add					100%				
0590	For large open areas, deduct					10%	20%			
0600	Seal floor penetrations with foam firestop to 36 sq. in.	2 Carp	200	.080	Ea.	16.05	4.50		20.55	24.50
0610	36 sq. in. to 72 sq. in.		125	.128		32	7.20		39.20	46.50
0615	72 sq. in. to 144 sq. in.		80	.200		64	11.25		75.25	87.50
0620	Wall penetrations, to 36 sq. in.		180	.089		16.05	5		21.05	25
0630	36 sq. in. to 72 sq. in.		100	.160		32	9		41	49
0640	72 sq. in. to 144 sq. in.		60	.267		64	15		79	93
0800	Caulk seams with latex	1 Carp	230	.035	L.F.	.18	1.96		2.14	3.11
0900	Set up neg. air machine, 1-2k CFM/25 M.C.F. volume	1 Asbe	4.30	1.860	Ea.		117		117	179
0950	Set up and remove portable shower unit	2 Asbe	4	4	"		252		252	385

02 82 13.43 Bulk Asbestos Removal

0010	BULK ASBESTOS REMOVAL									
0020	Includes disposable tools and 2 suits and 1 respirator filter/day/worker									
0100	Beams, W 10 x 19	A-9	235	.272	L.F.	.86	17.20		18.06	27.50
0110	W 12 x 22		210	.305		.96	19.25		20.21	30.50
0120	W 14 x 26		180	.356		1.12	22.50		23.62	35.50