

31 63 Bored Piles

31 63 26 – Drilled Caissons

31 63 26.13 Fixed End Caisson Piles

		Crew	Daily Output	Labor Hours	Unit	Material	2022 Base Costs		Total	Total Incl O&P
							Labor	Equipment		
0500	48" diameter, 0.465 C.Y./L.F.	B-43	100	.480	V.L.F.	91	24	7.85	122.85	145
0600	60" diameter, 0.727 C.Y./L.F.		90	.533		142	27	8.75	177.75	207
0700	72" diameter, 1.05 C.Y./L.F.		80	.600		206	30	9.80	245.80	282
0800	84" diameter, 1.43 C.Y./L.F.		75	.640		280	32	10.50	322.50	370
1000	For bell excavation and concrete, add									
1020	4' bell diameter, 24" shaft, 0.444 C.Y.	B-43	20	2.400	Ea.	71	121	39.50	231.50	300
1040	6' bell diameter, 30" shaft, 1.57 C.Y.		5.70	8.421		250	425	138	813	1,050
1060	8' bell diameter, 36" shaft, 3.72 C.Y.		2.40	20		595	1,000	325	1,920	2,500
1080	9' bell diameter, 48" shaft, 4.48 C.Y.		2	24		715	1,200	395	2,310	3,025
1100	10' bell diameter, 60" shaft, 5.24 C.Y.		1.70	28.235		835	1,425	460	2,720	3,550
1120	12' bell diameter, 72" shaft, 8.74 C.Y.		1	48		1,400	2,425	785	4,610	6,000
1140	14' bell diameter, 84" shaft, 13.6 C.Y.		.70	68.571		2,175	3,450	1,125	6,750	8,725
1200	Open style, machine drilled, to 50' deep, in wet ground, pulled casing and pumping, 18" diameter, 0.065 C.Y./L.F.	B-48	160	.350	V.L.F.	12.70	17.95	7.65	38.30	49
1400	24" diameter, 0.116 C.Y./L.F.		125	.448		22.50	23	9.80	55.30	70
1500	30" diameter, 0.182 C.Y./L.F.		85	.659		35.50	34	14.40	83.90	105
1600	36" diameter, 0.262 C.Y./L.F.		60	.933		51	48	20.50	119.50	150
1700	48" diameter, 0.465 C.Y./L.F.	B-49	55	1.600		91	86	60.50	237.50	296
1800	60" diameter, 0.727 C.Y./L.F.		35	2.514		142	135	94.50	371.50	465
1900	72" diameter, 1.05 C.Y./L.F.		30	2.933		206	158	111	475	585
2000	84" diameter, 1.43 C.Y./L.F.		25	3.520		280	190	133	603	740
2100	For bell excavation and concrete, add									
2120	4' bell diameter, 24" shaft, 0.444 C.Y.	B-48	19.80	2.828	Ea.	71	145	62	278	360
2140	6' bell diameter, 30" shaft, 1.57 C.Y.		5.70	9.825		250	505	215	970	1,250
2160	8' bell diameter, 36" shaft, 3.72 C.Y.		2.40	23.333		595	1,200	510	2,305	2,975
2180	9' bell diameter, 48" shaft, 4.48 C.Y.	B-49	3.30	26.667		715	1,425	1,000	3,140	4,025
2200	10' bell diameter, 60" shaft, 5.24 C.Y.		2.80	31.429		835	1,700	1,175	3,710	4,775
2220	12' bell diameter, 72" shaft, 8.74 C.Y.		1.60	55		1,400	2,975	2,075	6,450	8,250
2240	14' bell diameter, 84" shaft, 13.6 C.Y.		1	88		2,175	4,750	3,325	10,250	13,100
2300	Open style, machine drilled, to 50' deep, in soft rocks and medium hard shales, 18" diameter, 0.065 C.Y./L.F.	B-49	50	1.760	V.L.F.	12.70	95	66.50	174.20	229
2400	24" diameter, 0.116 C.Y./L.F.		30	2.933		22.50	158	111	291.50	385
2500	30" diameter, 0.182 C.Y./L.F.		20	4.400		35.50	237	166	438.50	575
2600	36" diameter, 0.262 C.Y./L.F.		15	5.867		51	315	221	587	775
2700	48" diameter, 0.465 C.Y./L.F.		10	8.800		91	475	330	896	1,175
2800	60" diameter, 0.727 C.Y./L.F.		7	12.571		142	675	475	1,292	1,700
2900	72" diameter, 1.05 C.Y./L.F.		6	14.667		206	790	555	1,551	2,000
3000	84" diameter, 1.43 C.Y./L.F.		5	17.600		280	950	665	1,895	2,475
3200	For bell excavation and concrete, add									
3220	4' bell diameter, 24" shaft, 0.444 C.Y.	B-49	10.90	8.073	Ea.	71	435	305	811	1,075
3240	6' bell diameter, 30" shaft, 1.57 C.Y.		3.10	28.387		250	1,525	1,075	2,850	3,750
3260	8' bell diameter, 36" shaft, 3.72 C.Y.		1.30	67.692		595	3,650	2,550	6,795	8,925
3280	9' bell diameter, 48" shaft, 4.48 C.Y.		1.10	80		715	4,300	3,025	8,040	10,600
3300	10' bell diameter, 60" shaft, 5.24 C.Y.		.90	97.778		835	5,275	3,675	9,785	12,900
3320	12' bell diameter, 72" shaft, 8.74 C.Y.		.60	147		1,400	7,900	5,525	14,825	19,500
3340	14' bell diameter, 84" shaft, 13.6 C.Y.		.40	220		2,175	11,900	8,300	22,375	29,300
3600	For rock excavation, sockets, add, minimum		120	.733	C.F.		39.50	27.50	67	90
3650	Average		95	.926			50	35	85	114
3700	Maximum		48	1.833			99	69	168	224
3900	For 50' to 100' deep, add				V.L.F.				7%	7%
4000	For 100' to 150' deep, add								25%	25%
4100	For 150' to 200' deep, add								30%	30%
4200	For casings left in place, add				Lb.	1.34			1.34	1.47