

03 31 Structural Concrete

03 31 13 – Heavyweight Structural Concrete

03 31 13.70 Placing Concrete		Crew	Daily Output	Labor-Hours	Unit	Material	2022 Bare Costs		Total	Total Incl O&P
							Labor	Equipment		
2600	Over 5 C.Y., direct chute	C-6	120	.400	C.Y.		18.90	.46	19.36	28.50
2650	Pumped	C-20	150	.427			21	5.40	26.40	37
2700	With crane and bucket	C-7	100	.720			35.50	23.50	59	78.50
2900	Foundation mats, over 20 C.Y., direct chute	C-6	350	.137			6.45	.16	6.61	9.80
2950	Pumped	C-20	400	.160			7.80	2.03	9.83	13.80
3000	With crane and bucket	C-7	300	.240			11.80	7.90	19.70	26.50
3200	Grade beams, direct chute	C-6	150	.320			15.10	.37	15.47	23
3250	Pumped	C-20	180	.356			17.30	4.50	21.80	30.50
3300	With crane and bucket	C-7	120	.600			29.50	19.75	49.25	65.50
3500	High rise, for more than 5 stories, pumped, add per story	C-20	2100	.030			1.48	.39	1.87	2.62
3510	With crane and bucket, add per story	C-7	2100	.034			1.69	1.13	2.82	3.75
3700	Pile caps, under 5 C.Y., direct chute	C-6	90	.533			25	.62	25.62	38
3750	Pumped	C-20	110	.582			28.50	7.35	35.85	50
3800	With crane and bucket	C-7	80	.900			44.50	29.50	74	98.50
3850	Pile cap, 5 C.Y. to 10 C.Y., direct chute	C-6	175	.274			12.95	.32	13.27	19.55
3900	Pumped	C-20	200	.320			15.55	4.05	19.60	27.50
3950	With crane and bucket	C-7	150	.480			23.50	15.80	39.30	52.50
4000	Over 10 C.Y., direct chute	C-6	215	.223			10.55	.26	10.81	15.95
4050	Pumped	C-20	240	.267			12.95	3.38	16.33	23
4100	With crane and bucket	C-7	185	.389			19.15	12.80	31.95	42.50
4300	Slab on grade, up to 6" thick, direct chute	C-6	110	.436			20.50	.51	21.01	31
4350	Pumped	C-20	130	.492			24	6.25	30.25	42.50
4400	With crane and bucket	C-7	110	.655			32	21.50	53.50	71.50
4600	Over 6" thick, direct chute	C-6	165	.291			13.75	.34	14.09	21
4650	Pumped	C-20	185	.346			16.85	4.38	21.23	30
4700	With crane and bucket	C-7	145	.497			24.50	16.35	40.85	54.50
4900	Walls, 8" thick, direct chute	C-6	90	.533	C.Y.		25	.62	25.62	38
4950	Pumped	C-20	100	.640			31	8.10	39.10	55
5000	With crane and bucket	C-7	80	.900			44.50	29.50	74	98.50
5050	12" thick, direct chute	C-6	100	.480			22.50	.56	23.06	34
5100	Pumped	C-20	110	.582			28.50	7.35	35.85	50
5200	With crane and bucket	C-7	90	.800			39.50	26.50	66	87.50
5300	15" thick, direct chute	C-6	105	.457			21.50	.53	22.03	32.50
5350	Pumped	C-20	120	.533			26	6.75	32.75	46
5400	With crane and bucket	C-7	95	.758			37.50	25	62.50	83
5600	Wheeled concrete dumping, add to placing costs above									
5610	Walking cart, 50' haul, add	C-18	32	.281	C.Y.		12.90	3.72	16.62	23.50
5620	150' haul, add		24	.375			17.20	4.95	22.15	31
5700	250' haul, add		18	.500			23	6.60	29.60	41.50
5800	Riding cart, 50' haul, add	C-19	80	.113			5.15	1.75	6.90	9.60
5810	150' haul, add		60	.150			6.85	2.33	9.18	12.80
5900	250' haul, add		45	.200			9.15	3.10	12.25	17.05
6000	Concrete in-fill for pan-type metal stairs and landings. Manual placement includes up to 50' horizontal haul from point of concrete discharge.									
6100	Stair pan treads, 2" deep									
6110	Flights in 1st floor level up/down from discharge point	C-8A	3200	.015	S.F.		.73		.73	1.08
6120	2nd floor level		2500	.019			.93		.93	1.38
6130	3rd floor level		2000	.024			1.16		1.16	1.72
6140	4th floor level		1800	.027			1.29		1.29	1.91
6200	Intermediate stair landings, pan-type 4" deep									
6210	Flights in 1st floor level up/down from discharge point	C-8A	2000	.024	S.F.		1.16		1.16	1.72
6220	2nd floor level		1500	.032			1.55		1.55	2.29
6230	3rd floor level		1200	.040			1.94		1.94	2.87