

03 31 Structural Concrete

03 31 13 – Heavyweight Structural Concrete

03 31 13.35 Heavyweight Concrete, Ready Mix		Crew	Daily Output	Labor-Hours	Unit	Material	2022 Bare Costs		Total	Total Incl O&P
							Labor	Equipment		
0200	3500 psi	R033105-40			C.Y.	161			161	177
0300	4000 psi					164			164	180
0350	4500 psi	R033105-50				135			135	148
0400	5000 psi					139			139	153
0411	6000 psi					143			143	157
0412	8000 psi					150			150	165
0413	10,000 psi				C.Y.	158			158	174
0414	12,000 psi					166			166	182
1000	For high early strength (Portland cement Type III), add					10%				
1010	For structural lightweight with regular sand, add					25%				
1300	For winter concrete (hot water), add					8.50			8.50	9.35
1410	For mid-range water reducer, add					4.27			4.27	4.70
1420	For high-range water reducer/superplasticizer, add					9			9	9.90
1430	For retarder, add					5.10			5.10	5.60
1440	For non-Chloride accelerator, add					8.80			8.80	9.70
1450	For Chloride accelerator, per 1%, add					4			4	4.40
1460	For fiber reinforcing, synthetic (1 lb./C.Y.), add					8.40			8.40	9.25
1500	For Saturday delivery, add					10			10	11
1510	For truck holding/waiting time past 1st hour per load, add				Hr.	115			115	127
1520	For short load (less than 4 C.Y.), add per load				Ea.	125			125	138
2000	For all lightweight aggregate, add				C.Y.	45%				

03 31 13.70 Placing Concrete

0010	PLACING CONCRETE	R033105-70								
0020	Includes labor and equipment to place, level (strike off) and consolidate									
0050	Beams, elevated, small beams, pumped	C-20	60	1.067	C.Y.		52	13.50	65.50	92
0100	With crane and bucket	C-7	45	1.600			79	52.50	131.50	175
0200	Large beams, pumped	C-20	90	.711			34.50	9	43.50	61.50
0250	With crane and bucket	C-7	65	1.108			54.50	36.50	91	121
0400	Columns, square or round, 12" thick, pumped	C-20	60	1.067			52	13.50	65.50	92
0450	With crane and bucket	C-7	40	1.800			88.50	59	147.50	197
0600	18" thick, pumped	C-20	90	.711			34.50	9	43.50	61.50
0650	With crane and bucket	C-7	55	1.309			64.50	43	107.50	144
0800	24" thick, pumped	C-20	92	.696			34	8.80	42.80	60
0850	With crane and bucket	C-7	70	1.029			50.50	34	84.50	112
1000	36" thick, pumped	C-20	140	.457			22	5.80	27.80	39.50
1050	With crane and bucket	C-7	100	.720			35.50	23.50	59	78.50
1200	Duct bank, direct chute	C-6	155	.310			14.60	.36	14.96	22
1400	Elevated slabs, less than 6" thick, pumped	C-20	140	.457			22	5.80	27.80	39.50
1450	With crane and bucket	C-7	95	.758			37.50	25	62.50	83
1500	6" to 10" thick, pumped	C-20	160	.400			19.45	5.05	24.50	34.50
1550	With crane and bucket	C-7	110	.655			32	21.50	53.50	71.50
1600	Slabs over 10" thick, pumped	C-20	180	.356			17.30	4.50	21.80	30.50
1650	With crane and bucket	C-7	130	.554	C.Y.		27.50	18.25	45.75	60.50
1900	Footings, continuous, shallow, direct chute	C-6	120	.400			18.90	.46	19.36	28.50
1950	Pumped	C-20	150	.427			21	5.40	26.40	37
2000	With crane and bucket	C-7	90	.800			39.50	26.50	66	87.50
2100	Footings, continuous, deep, direct chute	C-6	140	.343			16.20	.40	16.60	24.50
2150	Pumped	C-20	160	.400			19.45	5.05	24.50	34.50
2200	With crane and bucket	C-7	110	.655			32	21.50	53.50	71.50
2400	Footings, spread, under 1 C.Y., direct chute	C-6	55	.873			41	1.01	42.01	62
2450	Pumped	C-20	65	.985			48	12.45	60.45	84.50
2500	With crane and bucket	C-7	45	1.600			79	52.50	131.50	175