

concrete box culverts

design chemical class dc-4 resistance

CPM box culverts are specified and used regularly for culverting highways, storm and foul sewers, sea outfalls, tunnels and subways, underpasses, stream crossings, vertical chambers and in modified form as channels with removable slabs or as portals.

In addition they may be used as tanks for attenuation of storm or foul water. Box culverts provide high flow capacities even where the gradient is low or headroom is restricted.

They are individually designed to cater for a wide range of external loading conditions from shallow to deep fill.

Please refer to cpm website for bedding, laying and jointing information.

Box culverts that are available from stock are marked with a asterisk *



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concrete for life

Concrete box culvert sizes

Type	Internal dimensions (m)			Effective cross sectional area	Flow rate at Fall 1:1000-m/s	Nominal Weight of Standard Units (Tonnes)
	Width	Height	Length			
MC10.03	1.00	0.30	2/3	0.285	0.40	2.38
MC10.05*	1.00	0.50	2.0	0.490	0.58	2.77
MC10.07	1.00	0.75	2.0	0.740	1.01	3.14
MC12.05	1.25	0.50	2.0	0.590	0.74	3.24
MC12.07*	1.25	0.75	2.0	0.900	1.32	3.61
MC13.05	1.38	0.50	2.0	0.650	0.84	3.42
MC13.06	1.38	0.63	2.0	0.830	1.17	3.61
MC13.07	1.38	0.75	2.0	1.000	1.52	3.80
MC13.10	1.38	1.00	2.0	1.340	2.25	4.17
MC15.07	1.50	0.75	2.0	1.070	1.62	4.12
MC15.10*	1.50	1.00	2.0	1.440	2.44	4.49
MC15.12	1.50	1.25	2.0	1.82	3.31	4.86
MC16.15	1.50	1.50	2.0	2.190	4.20	5.24
MC17.07*	1.75	0.75	2.0	1.250	2.03	4.49
MC17.10	1.75	1.00	2.0	1.690	3.06	4.86
MC17.12	1.75	1.25	2.0	2.130	4.15	5.24
MC17.15	1.75	1.50	2.0	2.565	5.28	5.63
MC18.10	1.875	1.00	2.0	1.815	3.37	5.09
MC20.10*	2.00	1.00	2.0	1.940	3.69	5.79
MC20.12	2.00	1.25	2.0	2.440	5.03	6.17
MC20.15	2.00	1.50	2.0	2.940	6.42	6.54
MC20.20	2.00	2.00	2.0	3.940	9.31	7.20
MC22.12	2.25	1.25	2.0	2.753	5.94	6.60
MC22.15	2.25	1.50	2.0	3.315	7.60	6.98
MC22.17	2.25	1.75	2.0	3.878	9.31	7.35
MC24.07A	2.40	0.75	1.5	1.740	3.13	6.05
MC24.10A	2.40	1.00	1.5	2.340	4.75	6.43
MC24.12A	2.40	1.20	1.5	2.820	6.14	6.73
MC24.15A	2.40	1.50	1.5	3.540	8.33	7.17
MC24.18A	2.40	1.80	1.5	4.260	10.60	7.62
MC24.21A	2.40	2.10	1.5	4.980	12.94	8.07
MC25.10	2.50	1.00	2.0	2.440	5.03	8.78
MC25.15*	2.50	1.50	1.5	3.690	8.82	7.33
MC25.17	2.50	1.75	1.5	4.315	10.83	7.70
MC27.07A	2.70	0.75	1.5	1.97	3.66	7.37
MC27.10A	2.70	1.00	1.5	2.640	5.57	7.79
MC27.12A	2.70	1.20	1.5	3.180	7.22	8.13
MC27.15A	2.70	1.50	1.5	3.990	9.82	8.63
MC27.18A	2.70	1.80	1.5	4.800	12.54	9.14
MC27.21A	2.70	2.10	1.5	5.610	15.34	9.64
MC27.12	2.75	1.25	1.5	3.377	7.84	8.34
MC27.15	2.75	1.50	1.5	4.065	10.08	8.71
MC27.17	2.75	1.75	1.5	4.753	12.40	9.16
MC27.20	2.75	2.00	1.5	5.440	14.78	9.60
MC30.07A	3.00	0.75	1.5	2.19	4.2	7.93
MC30.10A	3.00	1.00	1.5	2.940	6.41	8.35
MC30.12A	3.00	1.20	1.5	3.540	8.33	8.69
MC30.15A	3.00	1.50	1.5	4.440	11.36	9.19
MC30.18A	3.00	1.80	1.5	5.340	14.54	9.70
MC30.21A	3.00	2.10	1.5	6.240	17.82	10.20
MC30.20	3.00	2.00	1.0	5.940	16.72	7.54
MC30.25	3.00	2.50	1.0	7.440	22.33	8.08
MC30.27	3.00	2.75	1.0	8.190	25.19	8.43
MC33.07A	3.30	0.75	1.5	2.42	4.75	8.49
MC33.10A	3.30	1.00	1.5	3.240	7.27	8.91
MC33.12A	3.30	1.20	1.5	3.900	9.45	9.25
MC33.15A	3.30	1.50	1.5	4.890	12.93	9.75
MC33.18A	3.30	1.80	1.5	5.880	16.59	10.26
MC33.21A	3.30	2.10	1.5	6.87	20.38	10.76
MC35.15	3.50	1.50	1.0	5.190	14.00	7.73
MC36.07A	3.60	0.75	1.5	2.64	5.3	9.05
MC36.10A	3.60	1.00	1.5	3.540	8.14	9.47
MC36.12A	3.60	1.20	1.5	4.260	10.60	9.81
MC36.15A	3.60	1.50	1.5	5.340	14.54	10.31
MC36.18A	3.60	1.80	1.5	6.420	18.69	10.82
MC36.21A	3.60	2.10	1.5	7.500	23.00	11.32
MC40.25	4.00	2.50	1.0	9.940	33.53	9.97