

**PRECAST SECTION PROPERTIES
OPEN TOP SUPER-T GIRDERS**



MARK-II SECTIONS

Super-T (Open Top) - Precast Section Properties								
F'c(pc)=50MPa								
T1 750	Flange (B)	(mm)	1800	2000	2100	2200	2400	2500
	Precast (d)	mm	750	750	750	750	750	750
	Area	mm ²	412,808	427,808	436,400	442,808	457,808	465,308
	Ix	mm ⁴	2.46766E+10	2.70015E+10	2.81400E+10	2.91698E+10	3.11952E+10	3.21597E+10
	iy	mm ⁴	312	326	333	339	352	357
	Zt(pc)	mm ³	5.63830E+07	6.37386E+07	6.74820E+07	7.10507E+07	7.83158E+07	8.19335E+07
	Zb(pc)	mm ³	7.90056E+07	8.27325E+07	8.45045E+07	8.59323E+07	8.87049E+07	8.99597E+07
	Soffit (b)	mm	900	900	900	900	900	900
	Web (t)	mm	100	100	100	100	100	100
Mass	T/m	1.073	1.112	1.135	1.151	1.190	1.210	
T2 1000	Flange (B)	(mm)	1800	2000	2100	2200	2400	2500
	Precast (d)	mm	1000	1000	1,000	1000	1000	1000
	Area	mm ²	449,461	464,461	472,000	479,461	494,461	501,961
	Ix	mm ⁴	5.19993E+10	5.63475E+10	5.84500E+10	6.04250E+10	6.42553E+10	6.60848E+10
	iy	mm ⁴	416	433	442	450	465	473
	Zt(pc)	mm ³	8.89788E+07	9.94241E+07	1.04700E+08	1.09827E+08	1.20187E+08	1.25350E+08
	Zb(pc)	mm ³	1.25119E+08	1.30054E+08	1.32300E+08	1.34332E+08	1.38073E+08	1.39774E+08
	Soffit (b)	mm	852	852	852	852	852	852
	Web (t)	mm	100	100	100	100	100	100
Mass	T/m	1.169	1.208	1.227	1.247	1.286	1.305	
T3 1200	Flange (B)	(mm)	1800	2000	2100	2200	2400	2500
	Precast (d)	mm	1200	1200	1,200	1200	1200	1200
	Area	mm ²	490,834	505,834	514,000	520,834	535,834	543,334
	Ix	mm ⁴	8.29947E+10	8.93926E+10	9.25300E+10	9.54229E+10	1.01115E+11	1.03844E+11
	iy	mm ⁴	500	520	529	538	556	564
	Zt(pc)	mm ³	1.18542E+08	1.31367E+08	1.37899E+08	1.44152E+08	1.56894E+08	1.63250E+08
	Zb(pc)	mm ³	1.66032E+08	1.72068E+08	1.74915E+08	1.77353E+08	1.82019E+08	1.84154E+08
	Soffit (b)	mm	814	814	814	814	814	814
	Web (t)	mm	100	100	100	100	100	100
Mass	T/m	1.276	1.315	1.336	1.354	1.393	1.413	
T4 1500	Flange (B)	(mm)	1800	2000	2100	2200	2400	2500
	Precast (d)	mm	1500	1500	1,500	1500	1500	1500
	Area	mm ²	532,229	547,229	558	562,229	577,229	584,729
	Ix	mm ⁴	1.44275E+11	1.54071E+11	1.59000E+11	1.63347E+11	1.72140E+11	1.76368E+11
	iy	mm ⁴	643	666	677	687	707	717
	Zt(pc)	mm ³	1.68411E+08	1.84686E+08	1.93196E+08	2.00925E+08	2.17123E+08	2.25208E+08
	Zb(pc)	mm ³	2.24268E+08	2.31418E+08	2.34860E+08	2.37760E+08	2.43419E+08	2.46027E+08
	Soffit (b)	mm	756	756	756	756	756	756
	Web (t)	mm	100	100	100	100	100	100
Mass	T/m	1.384	1.423	0.001	1.462	1.501	1.520	
T5 1800	Flange (B)	(mm)	1800	2000	2100	2200	2400	2500
	Precast (d)	mm	1800	1800	1,800	1800	1800	1800
	Area	mm ²	668,625	683,625	692,300	698,625	713,625	721,125
	Ix	mm ⁴	2.47287E+11	2.61022E+11	2.68000E+11	2.74168E+11	2.86760E+11	2.92860E+11
	iy	mm ⁴	795	816	827	837	856	866
	Zt(pc)	mm ³	2.46103E+08	2.65377E+08	2.75437E+08	2.84621E+08	3.03831E+08	3.13424E+08
	Zb(pc)	mm ³	3.10979E+08	3.19718E+08	3.24063E+08	3.27668E+08	3.34928E+08	3.38328E+08
	Soffit (b)	mm	700	700	700	700	700	700
	Web (t)	mm	120	120	120	120	120	120
Mass	T/m	1.738	1.777	1.800	1.816	1.855	1.875	

