



MARK-II SECTIONS

Super-T (Open Top) - Composite Section Properties								T=200		
Deck Thickness T=200mm		F'c(sl)=40MPa		F'c(pc)=50MPa		m=0.894				
T1	750	Flange (B)	(mm)	1800	2000	2100	2200	2400	2500	
		Overall (D)	mm	950	950	950	950	950	950	950
		Precast (d)	mm	750	750	750	750	750	750	750
		Area	mm ²	734,802	785,579	810,967	836,356	887,133	912,522	912,522
		Ix	mm ⁴	78,110E+6	81,690E+6	83,290E+6	84,890E+6	87,570E+6	89,080E+6	89,080E+6
		Iy	mm ⁴	548	565	572	579	593	599	599
		Zt(deck)	mm ³	194.200E+6	212.000E+6	220.600E+6	229.100E+6	245.300E+6	253.500E+6	253.500E+6
		Zt(pc)	mm ³	386.200E+6	440.700E+6	469.200E+6	497.700E+6	557.800E+6	588.400E+6	588.400E+6
		Zb(pc)	mm ³	142.600E+6	144.700E+6	145.500E+6	146.500E+6	147.700E+6	148.800E+6	148.800E+6
		Soffit (b)	mm	900	900	900	900	900	900	900
		Web (t)	mm	100	100	100	100	100	100	100
Mass	T/m	1.910	2.043	2.109	2.175	2.307	2.373	2.373		
T2	1000	Flange (B)	(mm)	1800	2000	2100	2200	2400	2500	
		Overall (D)	mm	1,200	1,200	1,200	1,200	1,200	1,200	1,200
		Precast (d)	mm	1,000	1,000	1,000	1,000	1,000	1,000	1,000
		Area	mm ²	771,455	822,232	847,620	873,009	923,786	949,175	949,175
		Ix	mm ⁴	140,800E+6	147,500E+6	150,300E+6	153,100E+6	158,300E+6	160,600E+6	160,600E+6
		Iy	mm ⁴	701	723	734	743	760	768	768
		Zt(deck)	mm ³	282.500E+6	309.300E+6	322.200E+6	334.900E+6	360.000E+6	372.000E+6	372.000E+6
		Zt(pc)	mm ³	471.800E+6	532.700E+6	564.100E+6	595.600E+6	660.100E+6	693.300E+6	693.300E+6
		Zb(pc)	mm ³	200.800E+6	203.900E+6	204.800E+6	206.000E+6	208.300E+6	208.900E+6	208.900E+6
		Soffit (b)	mm	852	852	852	852	852	852	852
		Web (t)	mm	100	100	100	100	100	100	100
Mass	T/m	2.006	2.138	2.204	2.270	2.402	2.468	2.468		
T3	1200	Flange (B)	(mm)	1800	2000	2100	2200	2400	2500	
		Overall (D)	mm	1,400	1,400	1,400	1,400	1,400	1,400	1,400
		Precast (d)	mm	1,200	1,200	1,200	1,200	1,200	1,200	1,200
		Area	mm ²	812,828	863,605	888,993	914,382	964,759	990,548	990,548
		Ix	mm ⁴	208,500E+6	218,100E+6	222,700E+6	226,900E+6	234,400E+6	238,200E+6	238,200E+6
		Iy	mm ⁴	817	843	855	866	887	896	896
		Zt(deck)	mm ³	357.600E+6	391.600E+6	408.500E+6	424.900E+6	457.100E+6	472.900E+6	472.900E+6
		Zt(pc)	mm ³	544.300E+6	611.100E+6	645.200E+6	679.300E+6	749.200E+6	784.400E+6	784.400E+6
		Zb(pc)	mm ³	255.200E+6	258.700E+6	260.600E+6	262.000E+6	264.300E+6	265.800E+6	265.800E+6
		Soffit (b)	mm	814	814	814	814	814	814	814
		Web (t)	mm	100	100	100	100	100	100	100
Mass	T/m	2.113	2.245	2.311	2.377	2.508	2.575	2.575		
T4	1500	Flange (B)	(mm)	1800	2000	2100	2200	2400	2500	
		Overall (D)	mm	1,700	1,700	1,700	1,700	1,700	1,700	1,700
		Precast (d)	mm	1,500	1,500	1,500	1,500	1,500	1,500	1,500
		Area	mm ²	854,223	905,000	930,388	955,777	1,006,554	1,031,943	1,031,943
		Ix	mm ⁴	329,100E+6	344,000E+6	351,100E+6	357,600E+6	369,900E+6	375,400E+6	375,400E+6
		Iy	mm ⁴	1004	1035	1050	1063	1088	1100	1100
		Zt(deck)	mm ³	472.600E+6	517.500E+6	539.800E+6	561.400E+6	604.300E+6	625.400E+6	625.400E+6
		Zt(pc)	mm ³	663.100E+6	740.100E+6	779.600E+6	818.300E+6	897.600E+6	937.800E+6	937.800E+6
		Zb(pc)	mm ³	327.900E+6	332.300E+6	334.500E+6	336.500E+6	340.000E+6	341.400E+6	341.400E+6
		Soffit (b)	mm	756	756	756	756	756	756	756
		Web (t)	mm	100	100	100	100	100	100	100
Mass	T/m	2.221	2.353	2.419	2.485	2.617	2.683	2.683		
T5	1800	Flange (B)	(mm)	1800	2000	2100	2200	2400	2500	
		Overall (D)	mm	2,000	2,000	2,000	2,000	2,000	2,000	2,000
		Precast (d)	mm	1,800	1,800	1,800	1,800	1,800	1,800	1,800
		Area	mm ²	990,619	1,041,396	1,066,784	1,092,173	1,142,950	1,168,339	1,168,339
		Ix	mm ⁴	513,700E+6	538,200E+6	549,500E+6	559,900E+6	580,400E+6	589,500E+6	589,500E+6
		Iy	mm ⁴	1154	1188	1205	1220	1248	1262	1262
		Zt(deck)	mm ³	607.400E+6	663.100E+6	691.000E+6	717.900000.000	771.900E+6	798.500E+6	798.500E+6
		Zt(pc)	mm ³	795.500E+6	880.000E+6	923.200E+6	965.500E+6	1.052E+9	1.095E+9	1.095E+9
		Zb(pc)	mm ³	445.100E+6	452.900E+6	456.000E+6	459.000E+6	465.000E+6	467.200E+6	467.200E+6
		Soffit (b)	mm	700	700	700	700	700	700	700
		Web (t)	mm	120	120	120	120	120	120	120
Mass	T/m	2.576	2.708	2.774	2.840	2.972	3.038	3.038		

