



MARK-II SECTIONS

Super-T (Open Top) - Composite Section Properties								T=170
Deck Thickness T=170mm		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	920	920	920	920	920	920
	Precast (d)	mm	750	750	750	750	750	750
	Area	mm ²	686,503	731,913	754,619	777,324	822,734	845,440
	Ix	mm ⁴	70,350E+6	73,790E+6	75,330E+6	76,860E+6	79,450E+6	80,880E+6
	yb	mm	521	537	545	552	566	572
	Zt(deck)	mm ³	176.100E+6	192.900E+6	201.100E+6	209.100E+6	224.600E+6	232.400E+6
	Zt(pc)	mm ³	306.600E+6	347.200E+6	368.200E+6	389.000E+6	432.300E+6	454.200E+6
	Zb(pc)	mm ³	135.200E+6	137.300E+6	138.100E+6	139.100E+6	140.300E+6	141.400E+6
	Soffit (b)	mm	900	900	900	900	900	900
	Web (t)	mm	100	100	100	100	100	100
Mass	T/m	1.785	1.903	1.962	2.021	2.139	2.198	
T2 1000	Flange (B)	(mm)	1800	2000	2100	2200	2400	2500
	Overall (D)	mm	1,170	1,170	1,170	1,170	1,170	1,170
	Precast (d)	mm	1,000	1,000	1,000	1,000	1,000	1,000
	Area	mm ²	723,156	768,566	791,272	813,977	859,387	882,093
	Ix	mm ⁴	128,800E+6	135,200E+6	138,000E+6	140,700E+6	145,800E+6	148,000E+6
	yb	mm	669	691	701	711	728	737
	Zt(deck)	mm ³	257.200E+6	282.300E+6	294.500E+6	306.500E+6	330.200E+6	341.600E+6
	Zt(pc)	mm ³	389.300E+6	437.500E+6	462.200E+6	486.700E+6	536.700E+6	562.300E+6
	Zb(pc)	mm ³	192.500E+6	195.700E+6	196.700E+6	197.900E+6	200.300E+6	200.900E+6
	Soffit (b)	mm	852	852	852	852	852	852
	Web (t)	mm	100	100	100	100	100	100
Mass	T/m	1.880	1.998	2.057	2.116	2.234	2.293	
T3 1200	Flange (B)	(mm)	1800	2000	2100	2200	2400	2500
	Overall (D)	mm	1,370	1,370	1,370	1,370	1,370	1,370
	Precast (d)	mm	1,200	1,200	1,200	1,200	1,200	1,200
	Area	mm ²	764,529	809,939	832,645	855,350	900,360	923,466
	Ix	mm ⁴	191,900E+6	201,300E+6	205,800E+6	209,900E+6	217,300E+6	221,000E+6
	yb	mm	781	807	819	830	851	861
	Zt(deck)	mm ³	325.900E+6	357.600E+6	373.500E+6	388.800E+6	419.100E+6	434.100E+6
	Zt(pc)	mm ³	458.100E+6	512.400E+6	540.100E+6	567.500E+6	623.600E+6	651.600E+6
	Zb(pc)	mm ³	245.700E+6	249.300E+6	251.300E+6	252.800E+6	255.200E+6	256.800E+6
	Soffit (b)	mm	814	814	814	814	814	814
	Web (t)	mm	100	100	100	100	100	100
Mass	T/m	1.988	2.106	2.165	2.224	2.341	2.401	
T4 1500	Flange (B)	(mm)	1800	2000	2100	2200	2400	2500
	Overall (D)	mm	1,670	1,670	1,670	1,670	1,670	1,670
	Precast (d)	mm	1,500	1,500	1,500	1,500	1,500	1,500
	Area	mm ²	805,924	851,334	874,040	896,745	942,155	964,861
	Ix	mm ⁴	305,300E+6	319,900E+6	326,900E+6	333,300E+6	345,400E+6	350,800E+6
	yb	mm	963	994	1009	1022	1047	1059
	Zt(deck)	mm ³	431.800E+6	473.400E+6	494.300E+6	514.300E+6	554.400E+6	574.200E+6
	Zt(pc)	mm ³	568.500E+6	632.500E+6	665.300E+6	697.200E+6	762.500E+6	795.500E+6
	Zb(pc)	mm ³	317.100E+6	321.700E+6	324.000E+6	326.100E+6	329.800E+6	331.300E+6
	Soffit (b)	mm	756	756	756	756	756	756
	Web (t)	mm	100	100	100	100	100	100
Mass	T/m	2.095	2.213	2.273	2.332	2.450	2.509	
T5 1800	Flange (B)	(mm)	1800	2000	2100	2200	2400	2500
	Overall (D)	mm	1,970	1,970	1,970	1,970	1,970	1,970
	Precast (d)	mm	1,800	1,800	1,800	1,800	1,800	1,800
	Area	mm ²	942,320	987,730	1,010,436	1,033,141	1,078,551	1,101,257
	Ix	mm ⁴	478,700E+6	502,300E+6	513,200E+6	523,400E+6	543,300E+6	552,200E+6
	yb	mm	1112	1145	1161	1176	1204	1218
	Zt(deck)	mm ³	557.600E+6	608.900E+6	634.700E+6	659.500E+6	709.400E+6	734.100E+6
	Zt(pc)	mm ³	695.300E+6	767.000E+6	803.600E+6	839.200E+6	911.800E+6	948.400E+6
	Zb(pc)	mm ³	430.600E+6	438.600E+6	441.900E+6	445.000E+6	451.200E+6	453.500E+6
	Soffit (b)	mm	700	700	700	700	700	700
	Web (t)	mm	120	120	120	120	120	120
Mass	T/m	2.450	2.568	2.627	2.686	2.804	2.863	

