



MARK-II SECTIONS

Super-T (Open Top) - Composite Section Properties								T=180
Deck Thickness T=180mm		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	930	930	930	930	930	930
	Precast (d)	mm	750	750	750	750	750	750
	Area	mm ²	702,602	749,802	773,401	797,001	844,201	867,800
	Ix	mm ⁴	72,930E+6	76,410E+6	77,970E+6	79,520E+6	82,140E+6	83,590E+6
	y _b	mm	530	547	555	562	575	581
	Zt(deck)	mm ³	182.200E+6	199.400E+6	207.700E+6	215.900E+6	231.600E+6	239.500E+6
	Zt(pc)	mm ³	331.200E+6	375.900E+6	399.100E+6	422.200E+6	470.300E+6	494.700E+6
	Zb(pc)	mm ³	137.700E+6	139.800E+6	140.600E+6	141.600E+6	142.800E+6	143.900E+6
	Soffit (b)	mm	900	900	900	900	900	900
	Web (t)	mm	100	100	100	100	100	100
Mass	T/m	1.827	1.949	2.011	2.072	2.195	2.256	
T2 1000	Flange (B)	(mm)	1800	2000	2100	2200	2400	2500
	Overall (D)	mm	1,180	1,180	1,180	1,180	1,180	1,180
	Precast (d)	mm	1,000	1,000	1,000	1,000	1,000	1,000
	Area	mm ²	739,255	786,455	810,054	833,654	880,854	904,453
	Ix	mm ⁴	132,800E+6	139,300E+6	142,100E+6	144,800E+6	150,000E+6	152,200E+6
	y _b	mm	680	702	712	722	739	748
	Zt(deck)	mm ³	265.800E+6	291.400E+6	303.900E+6	316.100E+6	340.300E+6	352.000E+6
	Zt(pc)	mm ³	415.300E+6	467.400E+6	494.100E+6	520.800E+6	575.200E+6	603.000E+6
	Zb(pc)	mm ³	195.300E+6	198.400E+6	199.400E+6	200.600E+6	203.000E+6	203.600E+6
	Soffit (b)	mm	852	852	852	852	852	852
	Web (t)	mm	100	100	100	100	100	100
Mass	T/m	1.922	2.045	2.106	2.168	2.290	2.352	
T3 1200	Flange (B)	(mm)	1800	2000	2100	2200	2400	2500
	Overall (D)	mm	1,380	1,380	1,380	1,380	1,380	1,380
	Precast (d)	mm	1,200	1,200	1,200	1,200	1,200	1,200
	Area	mm ²	780,628	827,828	851,427	875,027	921,827	945,826
	Ix	mm ⁴	197,500E+6	206,900E+6	211,500E+6	215,600E+6	223,100E+6	226,800E+6
	y _b	mm	793	820	831	842	864	873
	Zt(deck)	mm ³	336.600E+6	369.200E+6	385.400E+6	401.000E+6	432.000E+6	447.300E+6
	Zt(pc)	mm ³	485.600E+6	543.800E+6	573.400E+6	602.900E+6	663.200E+6	693.500E+6
	Zb(pc)	mm ³	249.000E+6	252.500E+6	254.400E+6	255.900E+6	258.300E+6	259.800E+6
	Soffit (b)	mm	814	814	814	814	814	814
	Web (t)	mm	100	100	100	100	100	100
Mass	T/m	2.030	2.152	2.214	2.275	2.397	2.459	
T4 1500	Flange (B)	(mm)	1800	2000	2100	2200	2400	2500
	Overall (D)	mm	1,680	1,680	1,680	1,680	1,680	1,680
	Precast (d)	mm	1,500	1,500	1,500	1,500	1,500	1,500
	Area	mm ²	822,023	869,223	892,822	916,422	963,622	987,221
	Ix	mm ⁴	313,300E+6	328,000E+6	335,000E+6	341,500E+6	353,600E+6	359,100E+6
	y _b	mm	977	1008	1023	1036	1061	1073
	Zt(deck)	mm ³	445.600E+6	488.300E+6	509.700E+6	530.300E+6	571.400E+6	591.600E+6
	Zt(pc)	mm ³	598.900E+6	667.100E+6	701.900E+6	736.000E+6	805.700E+6	840.900E+6
	Zb(pc)	mm ³	320.800E+6	325.300E+6	327.600E+6	329.600E+6	333.300E+6	334.700E+6
	Soffit (b)	mm	756	756	756	756	756	756
	Web (t)	mm	100	100	100	100	100	100
Mass	T/m	2.137	2.260	2.321	2.383	2.505	2.567	
T5 1800	Flange (B)	(mm)	1800	2000	2100	2200	2400	2500
	Overall (D)	mm	1,980	1,980	1,980	1,980	1,980	1,980
	Precast (d)	mm	1,800	1,800	1,800	1,800	1,800	1,800
	Area	mm ²	958,419	1,005,619	1,029,218	1,052,818	1,100,018	1,123,617
	Ix	mm ⁴	490,500E+6	514,400E+6	525,500E+6	535,700E+6	555,800E+6	564,800E+6
	y _b	mm	1126	1160	1176	1191	1219	1233
	Zt(deck)	mm ³	574.400E+6	627.200E+6	653.700E+6	679.200000.000	730.600E+6	755.900E+6
	Zt(pc)	mm ³	727.800E+6	803.600E+6	842.300E+6	880.100E+6	957.000E+6	995.800E+6
	Zb(pc)	mm ³	435.600E+6	443.500E+6	446.700E+6	449.700E+6	455.900E+6	458.100E+6
	Soffit (b)	mm	700	700	700	700	700	700
	Web (t)	mm	120	120	120	120	120	120
Mass	T/m	2.492	2.615	2.676	2.737	2.860	2.921	

