



MARK-II SECTIONS

Super-T (Open Top) - Composite Section Properties								T=185
Deck Thickness T=185mm		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	935	935	935	935	935	935
	Precast (d)	mm	750	750	750	750	750	750
	Area	mm <sup>2</sup>	710,652	758,746	782,793	806,840	854,934	878,981
	Ix	mm <sup>4</sup>	74,220E+6	77,720E+6	79,290E+6	80,860E+6	83,490E+6	84,960E+6
	y <sub>b</sub>	mm	534	551	559	566	580	585
	Zt(deck)	mm <sup>3</sup>	185.200E+6	202.600E+6	211.000E+6	219.200E+6	235.100E+6	243.100E+6
	Zt(pc)	mm <sup>3</sup>	344.100E+6	391.100E+6	415.500E+6	439.800E+6	490.700E+6	516.400E+6
	Zb(pc)	mm <sup>3</sup>	138.900E+6	141.000E+6	141.800E+6	142.800E+6	144.000E+6	145.100E+6
	Soffit (b)	mm	900	900	900	900	900	900
	Web (t)	mm	100	100	100	100	100	100
Mass	T/m	1.848	1.973	2.035	2.098	2.223	2.285	
T2  1000	Flange (B)	(mm)	1800	2000	2100	2200	2400	2500
	Overall (D)	mm	1,185	1,185	1,185	1,185	1,185	1,185
	Precast (d)	mm	1,000	1,000	1,000	1,000	1,000	1,000
	Area	mm <sup>2</sup>	747,305	795,399	819,446	843,493	891,587	915,634
	Ix	mm <sup>4</sup>	134,800E+6	141,300E+6	144,100E+6	146,900E+6	152,100E+6	154,300E+6
	y <sub>b</sub>	mm	686	707	718	727	744	753
	Zt(deck)	mm <sup>3</sup>	270.000E+6	295.900E+6	308.500E+6	320.900E+6	345.300E+6	357.100E+6
	Zt(pc)	mm <sup>3</sup>	428.900E+6	483.000E+6	510.800E+6	538.600E+6	595.300E+6	624.400E+6
	Zb(pc)	mm <sup>3</sup>	196.700E+6	199.800E+6	200.800E+6	202.000E+6	204.300E+6	204.900E+6
	Soffit (b)	mm	852	852	852	852	852	852
	Web (t)	mm	100	100	100	100	100	100
Mass	T/m	1.943	2.068	2.131	2.193	2.318	2.381	
T3  1200	Flange (B)	(mm)	1800	2000	2100	2200	2400	2500
	Overall (D)	mm	1,385	1,385	1,385	1,385	1,385	1,385
	Precast (d)	mm	1,200	1,200	1,200	1,200	1,200	1,200
	Area	mm <sup>2</sup>	788,678	836,772	860,819	884,866	932,560	957,007
	Ix	mm <sup>4</sup>	200,300E+6	209,700E+6	214,300E+6	218,400E+6	225,900E+6	229,700E+6
	y <sub>b</sub>	mm	799	826	837	848	870	879
	Zt(deck)	mm <sup>3</sup>	341.900E+6	374.800E+6	391.200E+6	407.100E+6	438.400E+6	453.800E+6
	Zt(pc)	mm <sup>3</sup>	499.800E+6	560.000E+6	590.700E+6	621.300E+6	683.900E+6	715.200E+6
	Zb(pc)	mm <sup>3</sup>	250.600E+6	254.000E+6	256.000E+6	257.500E+6	259.800E+6	261.300E+6
	Soffit (b)	mm	814	814	814	814	814	814
	Web (t)	mm	100	100	100	100	100	100
Mass	T/m	2.051	2.176	2.238	2.301	2.425	2.488	
T4  1500	Flange (B)	(mm)	1800	2000	2100	2200	2400	2500
	Overall (D)	mm	1,685	1,685	1,685	1,685	1,685	1,685
	Precast (d)	mm	1,500	1,500	1,500	1,500	1,500	1,500
	Area	mm <sup>2</sup>	830,073	878,167	902,214	926,261	974,355	998,402
	Ix	mm <sup>4</sup>	317,300E+6	332,000E+6	339,100E+6	345,600E+6	357,700E+6	363,300E+6
	y <sub>b</sub>	mm	984	1015	1030	1043	1068	1080
	Zt(deck)	mm <sup>3</sup>	452.400E+6	495.700E+6	517.300E+6	538.100E+6	579.700E+6	600.200E+6
	Zt(pc)	mm <sup>3</sup>	614.600E+6	684.800E+6	720.800E+6	755.900E+6	827.900E+6	864.400E+6
	Zb(pc)	mm <sup>3</sup>	322.600E+6	327.100E+6	329.300E+6	331.400E+6	335.000E+6	336.400E+6
	Soffit (b)	mm	756	756	756	756	756	756
	Web (t)	mm	100	100	100	100	100	100
Mass	T/m	2.158	2.283	2.346	2.408	2.533	2.596	
T5  1800	Flange (B)	(mm)	1800	2000	2100	2200	2400	2500
	Overall (D)	mm	1,985	1,985	1,985	1,985	1,985	1,985
	Precast (d)	mm	1,800	1,800	1,800	1,800	1,800	1,800
	Area	mm <sup>2</sup>	966,469	1,014,563	1,038,610	1,062,657	1,110,751	1,134,798
	Ix	mm <sup>4</sup>	496,300E+6	520,400E+6	531,500E+6	541,800E+6	562,000E+6	571,000E+6
	y <sub>b</sub>	mm	1133	1167	1183	1199	1227	1240
	Zt(deck)	mm <sup>3</sup>	582.700E+6	636.300E+6	663.100E+6	689.000E+6	741.000E+6	766.700E+6
	Zt(pc)	mm <sup>3</sup>	744.400E+6	822.300E+6	862.100E+6	900.900E+6	980.100E+6	1.020E+9
	Zb(pc)	mm <sup>3</sup>	438.000E+6	445.900E+6	449.100E+6	452.100E+6	458.200E+6	460.400E+6
	Soffit (b)	mm	700	700	700	700	700	700
	Web (t)	mm	120	120	120	120	120	120
Mass	T/m	2.513	2.638	2.700	2.763	2.888	2.950	

