



MARK-II SECTIONS

Super-T (Open Top) - Composite Section Properties								T=160		
Deck Thickness T=160mm		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	910	910	910	910	910	910	910
		Precast (d)	mm	750	750	750	750	750	750	750
		Area	mm ²	670,403	714,025	735,836	757,646	801,268	823,079	823,079
		Ix	mm ⁴	67,787E+6	71,170E+6	72,696E+6	74,200E+6	76,770E+6	78,170E+6	78,170E+6
		yb	mm	511	528	536	543	557	563	563
		Zt(deck)	mm ³	169.907E+6	186.300E+6	194.366E+6	202.200E+6	217.400E+6	225.000E+6	225.000E+6
		Zt(pc)	mm ³	283.670E+6	320.600E+6	339.675E+6	358.500E+6	397.500E+6	417.200E+6	417.200E+6
		Zb(pc)	mm ³	132.646E+6	134.800E+6	135.631E+6	136.600E+6	137.800E+6	139.000E+6	139.000E+6
		Soffit (b)	mm	900	900	900	900	900	900	900
		Web (t)	mm	100	100	100	100	100	100	100
Mass	T/m	1.743	1.856	1.913	1.970	2.083	2.140	2.140		
T2	1000	Flange (B)	(mm)	1800	2000	2100	2200	2400	2500	
		Overall (D)	mm	1,160	1,160	1,160	1,160	1,160	1,160	1,160
		Precast (d)	mm	1,000	1,000	1,000	1,000	1,000	1,000	1,000
		Area	mm ²	707,056	750,678	772,489	794,299	837,921	859,732	859,732
		Ix	mm ⁴	124,700E+6	131,100E+6	133,800E+6	136,500E+6	141,600E+6	143,800E+6	143,800E+6
		yb	mm	658	680	690	700	717	726	726
		Zt(deck)	mm ³	248.500E+6	272.900E+6	284.900E+6	296.600E+6	319.800E+6	331.100E+6	331.100E+6
		Zt(pc)	mm ³	364.700E+6	409.300E+6	432.000E+6	454.700E+6	500.700E+6	524.100E+6	524.100E+6
		Zb(pc)	mm ³	189.600E+6	192.900E+6	193.900E+6	195.100E+6	197.500E+6	198.200E+6	198.200E+6
		Soffit (b)	mm	852	852	852	852	852	852	852
		Web (t)	mm	100	100	100	100	100	100	100
Mass	T/m	1.838	1.952	2.008	2.065	2.179	2.235	2.235		
T3	1200	Flange (B)	(mm)	1800	2000	2100	2200	2400	2500	
		Overall (D)	mm	1,360	1,360	1,360	1,360	1,360	1,360	1,360
		Precast (d)	mm	1,200	1,200	1,200	1,200	1,200	1,200	1,200
		Area	mm ²	748,429	792,051	813,862	835,672	878,894	901,105	901,105
		Ix	mm ⁴	186,300E+6	195,600E+6	200,100E+6	204,100E+6	211,500E+6	215,200E+6	215,200E+6
		yb	mm	768	795	806	818	839	848	848
		Zt(deck)	mm ³	315.000E+6	345.900E+6	361.400E+6	376.300E+6	405.900E+6	420.500E+6	420.500E+6
		Zt(pc)	mm ³	431.800E+6	482.500E+6	508.200E+6	533.700E+6	585.800E+6	611.800E+6	611.800E+6
		Zb(pc)	mm ³	242.500E+6	246.100E+6	248.100E+6	249.700E+6	252.100E+6	253.700E+6	253.700E+6
		Soffit (b)	mm	814	814	814	814	814	814	814
		Web (t)	mm	100	100	100	100	100	100	100
Mass	T/m	1.946	2.059	2.116	2.173	2.285	2.343	2.343		
T4	1500	Flange (B)	(mm)	1800	2000	2100	2200	2400	2500	
		Overall (D)	mm	1,660	1,660	1,660	1,660	1,660	1,660	1,660
		Precast (d)	mm	1,500	1,500	1,500	1,500	1,500	1,500	1,500
		Area	mm ²	789,824	833,446	855,257	877,067	920,689	942,500	942,500
		Ix	mm ⁴	297,200E+6	311,700E+6	318,600E+6	325,000E+6	337,000E+6	342,400E+6	342,400E+6
		yb	mm	949	980	994	1008	1033	1045	1045
		Zt(deck)	mm ³	417.800E+6	458.300E+6	478.600E+6	498.100E+6	537.200E+6	556.400E+6	556.400E+6
		Zt(pc)	mm ³	539.000E+6	599.200E+6	630.000E+6	659.900E+6	721.100E+6	751.900E+6	751.900E+6
		Zb(pc)	mm ³	313.300E+6	318.100E+6	320.400E+6	322.500E+6	326.300E+6	327.800E+6	327.800E+6
		Soffit (b)	mm	756	756	756	756	756	756	756
		Web (t)	mm	100	100	100	100	100	100	100
Mass	T/m	2.054	2.167	2.224	2.280	2.394	2.450	2.450		
T5	1800	Flange (B)	(mm)	1800	2000	2100	2200	2400	2500	
		Overall (D)	mm	1,960	1,960	1,960	1,960	1,960	1,960	1,960
		Precast (d)	mm	1,800	1,800	1,800	1,800	1,800	1,800	1,800
		Area	mm ²	926,220	969,842	991,653	1,013,463	1,057,085	1,078,896	1,078,896
		Ix	mm ⁴	466,700E+6	490,000E+6	500,900E+6	510,900E+6	530,600E+6	539,500E+6	539,500E+6
		yb	mm	1097	1130	1146	1161	1189	1202	1202
		Zt(deck)	mm ³	540.700E+6	590.400E+6	615.400E+6	639.500E+6	688.000E+6	712.000E+6	712.000E+6
		Zt(pc)	mm ³	663.700E+6	731.400E+6	766.000E+6	799.600E+6	868.000E+6	902.500E+6	902.500E+6
		Zb(pc)	mm ³	425.600E+6	433.700E+6	437.000E+6	440.100E+6	446.400E+6	448.700E+6	448.700E+6
		Soffit (b)	mm	700	700	700	700	700	700	700
		Web (t)	mm	120	120	120	120	120	120	120
Mass	T/m	2.408	2.522	2.578	2.635	2.748	2.805	2.805		

