



MARK-II SECTIONS

Super-T (Open Top) - Composite Section Properties								T=175		
Deck Thickness T=175mm		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	925	925	925	925	925	925	925
		Precast (d)	mm	750	750	750	750	750	750	750
		Area	mm <sup>2</sup>	694,553	740,858	764,010	787,162	833,467	856,620	856,620
		Ix	mm <sup>4</sup>	71,640E+6	75,100E+6	76,650E+6	78,190E+6	80,790E+6	82,230E+6	82,230E+6
		Iy	mm <sup>4</sup>	525	542	550	557	571	576	576
		Zt(deck)	mm <sup>3</sup>	179.200E+6	196.100E+6	204.400E+6	212.500E+6	228.100E+6	236.000E+6	236.000E+6
		Zt(pc)	mm <sup>3</sup>	318.600E+6	361.300E+6	383.300E+6	405.300E+6	450.900E+6	474.000E+6	474.000E+6
		Zb(pc)	mm <sup>3</sup>	136.400E+6	138.500E+6	139.300E+6	140.400E+6	141.500E+6	142.600E+6	142.600E+6
		Soffit (b)	mm	900	900	900	900	900	900	900
		Web (t)	mm	100	100	100	100	100	100	100
Mass	T/m	1.806	1.926	1.986	2.047	2.167	2.227	2.227		
T2	1000	Flange (B)	(mm)	1800	2000	2100	2200	2400	2500	
		Overall (D)	mm	1,175	1,175	1,175	1,175	1,175	1,175	1,175
		Precast (d)	mm	1,000	1,000	1,000	1,000	1,000	1,000	1,000
		Area	mm <sup>2</sup>	731,206	777,511	800,663	823,815	870,120	893,273	893,273
		Ix	mm <sup>4</sup>	130,800E+6	137,300E+6	140,000E+6	142,800E+6	147,900E+6	150,100E+6	150,100E+6
		Iy	mm <sup>4</sup>	675	697	707	716	734	742	742
		Zt(deck)	mm <sup>3</sup>	261.500E+6	286.900E+6	299.200E+6	311.300E+6	335.300E+6	346.800E+6	346.800E+6
		Zt(pc)	mm <sup>3</sup>	402.200E+6	452.300E+6	477.900E+6	503.500E+6	555.600E+6	582.300E+6	582.300E+6
		Zb(pc)	mm <sup>3</sup>	193.900E+6	197.100E+6	198.100E+6	199.200E+6	201.600E+6	202.300E+6	202.300E+6
		Soffit (b)	mm	852	852	852	852	852	852	852
		Web (t)	mm	100	100	100	100	100	100	100
Mass	T/m	1.901	2.022	2.082	2.142	2.262	2.323	2.323		
T3	1200	Flange (B)	(mm)	1800	2000	2100	2200	2400	2500	
		Overall (D)	mm	1,375	1,375	1,375	1,375	1,375	1,375	1,375
		Precast (d)	mm	1,200	1,200	1,200	1,200	1,200	1,200	1,200
		Area	mm <sup>2</sup>	772,579	818,884	842,036	865,188	911,093	934,646	934,646
		Ix	mm <sup>4</sup>	194,700E+6	204,100E+6	208,700E+6	212,800E+6	220,200E+6	223,900E+6	223,900E+6
		Iy	mm <sup>4</sup>	787	813	825	836	858	867	867
		Zt(deck)	mm <sup>3</sup>	331.300E+6	363.400E+6	379.400E+6	394.900E+6	425.600E+6	440.700E+6	440.700E+6
		Zt(pc)	mm <sup>3</sup>	471.700E+6	527.900E+6	556.600E+6	585.000E+6	643.100E+6	672.200E+6	672.200E+6
		Zb(pc)	mm <sup>3</sup>	247.400E+6	250.900E+6	252.900E+6	254.400E+6	256.800E+6	258.300E+6	258.300E+6
		Soffit (b)	mm	814	814	814	814	814	814	814
		Web (t)	mm	100	100	100	100	100	100	100
Mass	T/m	2.009	2.129	2.189	2.249	2.369	2.430	2.430		
T4	1500	Flange (B)	(mm)	1800	2000	2100	2200	2400	2500	
		Overall (D)	mm	1,675	1,675	1,675	1,675	1,675	1,675	1,675
		Precast (d)	mm	1,500	1,500	1,500	1,500	1,500	1,500	1,500
		Area	mm <sup>2</sup>	813,974	860,279	883,431	906,583	952,888	976,041	976,041
		Ix	mm <sup>4</sup>	309,300E+6	324,000E+6	330,900E+6	337,400E+6	349,500E+6	355,000E+6	355,000E+6
		Iy	mm <sup>4</sup>	970	1001	1016	1029	1054	1066	1066
		Zt(deck)	mm <sup>3</sup>	438.700E+6	480.900E+6	502.000E+6	522.300E+6	562.900E+6	582.900E+6	582.900E+6
		Zt(pc)	mm <sup>3</sup>	583.600E+6	649.700E+6	683.500E+6	716.400E+6	783.900E+6	818.000E+6	818.000E+6
		Zb(pc)	mm <sup>3</sup>	318.900E+6	323.500E+6	325.800E+6	327.900E+6	331.600E+6	333.000E+6	333.000E+6
		Soffit (b)	mm	756	756	756	756	756	756	756
		Web (t)	mm	100	100	100	100	100	100	100
Mass	T/m	2.116	2.237	2.297	2.357	2.478	2.538	2.538		
T5	1800	Flange (B)	(mm)	1800	2000	2100	2200	2400	2500	
		Overall (D)	mm	1,975	1,975	1,975	1,975	1,975	1,975	1,975
		Precast (d)	mm	1,800	1,800	1,800	1,800	1,800	1,800	1,800
		Area	mm <sup>2</sup>	950,370	996,675	1,019,827	1,042,979	1,089,284	1,112,437	1,112,437
		Ix	mm <sup>4</sup>	484,600E+6	508,300E+6	519,400E+6	529,600E+6	549,600E+6	558,500E+6	558,500E+6
		Iy	mm <sup>4</sup>	1119	1153	1169	1184	1212	1225	1225
		Zt(deck)	mm <sup>3</sup>	566.000E+6	618.100E+6	644.200E+6	669.400000.000	720.000E+6	745.100E+6	745.100E+6
		Zt(pc)	mm <sup>3</sup>	711.500E+6	785.200E+6	822.800E+6	859.500E+6	934.200E+6	971.900E+6	971.900E+6
		Zb(pc)	mm <sup>3</sup>	433.100E+6	441.100E+6	444.400E+6	447.400E+6	453.500E+6	455.800E+6	455.800E+6
		Soffit (b)	mm	700	700	700	700	700	700	700
		Web (t)	mm	120	120	120	120	120	120	120
Mass	T/m	2.471	2.591	2.652	2.712	2.832	2.892	2.892		

