



MARK-II SECTIONS

Super-T (Open Top) - Composite Section Properties								T=165
Deck Thickness T=165mm		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	915	915	915	915	915	915
	Precast (d)	mm	750	750	750	750	750	750
	Area	mm ²	678,453	722,969	745,227	767,485	812,001	834,259
	Ix	mm ⁴	69,070E+6	72,480E+6	74,010E+6	75,530E+6	78,100E+6	79,520E+6
	yb	mm	516	533	541	548	562	567
	Zt(deck)	mm ³	173.000E+6	189.600E+6	197.700E+6	205.700E+6	221.000E+6	228.700E+6
	Zt(pc)	mm ³	294.900E+6	333.700E+6	353.700E+6	373.500E+6	414.600E+6	435.200E+6
	Zb(pc)	mm ³	133.900E+6	136.000E+6	136.900E+6	137.900E+6	139.100E+6	140.200E+6
	Soffit (b)	mm	900	900	900	900	900	900
	Web (t)	mm	100	100	100	100	100	100
Mass	T/m	1.764	1.880	1.938	1.995	2.111	2.169	
T2 1000	Flange (B)	(mm)	1800	2000	2100	2200	2400	2500
	Overall (D)	mm	1,165	1,165	1,165	1,165	1,165	1,165
	Precast (d)	mm	1,000	1,000	1,000	1,000	1,000	1,000
	Area	mm ²	715,106	759,622	781,880	804,138	848,654	870,912
	Ix	mm ⁴	126,800E+6	133,100E+6	135,900E+6	138,600E+6	143,700E+6	145,900E+6
	yb	mm	664	685	696	705	723	731
	Zt(deck)	mm ³	252.800E+6	277.600E+6	289.700E+6	301.600E+6	325.000E+6	336.400E+6
	Zt(pc)	mm ³	376.800E+6	423.200E+6	446.900E+6	470.500E+6	518.400E+6	542.900E+6
	Zb(pc)	mm ³	191.000E+6	194.300E+6	195.300E+6	196.500E+6	198.900E+6	199.600E+6
	Soffit (b)	mm	852	852	852	852	852	852
	Web (t)	mm	100	100	100	100	100	100
Mass	T/m	1.859	1.975	2.033	2.091	2.207	2.264	
T3 1200	Flange (B)	(mm)	1800	2000	2100	2200	2400	2500
	Overall (D)	mm	1,365	1,365	1,365	1,365	1,365	1,365
	Precast (d)	mm	1,200	1,200	1,200	1,200	1,200	1,200
	Area	mm ²	756,479	800,995	823,253	845,511	889,627	912,285
	Ix	mm ⁴	189,100E+6	198,400E+6	203,000E+6	207,000E+6	214,400E+6	218,100E+6
	yb	mm	775	801	813	824	845	855
	Zt(deck)	mm ³	320.400E+6	351.800E+6	367.400E+6	382.600E+6	412.600E+6	427.300E+6
	Zt(pc)	mm ³	444.800E+6	497.300E+6	524.000E+6	550.400E+6	604.500E+6	631.500E+6
	Zb(pc)	mm ³	244.100E+6	247.700E+6	249.700E+6	251.300E+6	253.700E+6	255.200E+6
	Soffit (b)	mm	814	814	814	814	814	814
	Web (t)	mm	100	100	100	100	100	100
Mass	T/m	1.967	2.083	2.140	2.198	2.313	2.372	
T4 1500	Flange (B)	(mm)	1800	2000	2100	2200	2400	2500
	Overall (D)	mm	1,665	1,665	1,665	1,665	1,665	1,665
	Precast (d)	mm	1,500	1,500	1,500	1,500	1,500	1,500
	Area	mm ²	797,874	842,390	864,648	886,906	931,422	953,680
	Ix	mm ⁴	301,300E+6	315,800E+6	322,700E+6	329,100E+6	341,200E+6	346,700E+6
	yb	mm	956	987	1002	1015	1040	1052
	Zt(deck)	mm ³	424.800E+6	465.900E+6	486.500E+6	506.200E+6	545.800E+6	565.400E+6
	Zt(pc)	mm ³	553.600E+6	615.700E+6	647.500E+6	678.400E+6	741.600E+6	773.500E+6
	Zb(pc)	mm ³	315.200E+6	319.900E+6	322.200E+6	324.300E+6	328.100E+6	329.600E+6
	Soffit (b)	mm	756	756	756	756	756	756
	Web (t)	mm	100	100	100	100	100	100
Mass	T/m	2.074	2.190	2.248	2.306	2.422	2.480	
T5 1800	Flange (B)	(mm)	1800	2000	2100	2200	2400	2500
	Overall (D)	mm	1,965	1,965	1,965	1,965	1,965	1,965
	Precast (d)	mm	1,800	1,800	1,800	1,800	1,800	1,800
	Area	mm ²	934,270	978,786	1,001,044	1,023,302	1,067,818	1,090,076
	Ix	mm ⁴	472,700E+6	496,200E+6	507,100E+6	517,200E+6	537,000E+6	545,900E+6
	yb	mm	1104	1138	1154	1169	1196	1210
	Zt(deck)	mm ³	549.200E+6	599.700E+6	625.100E+6	649.500E+6	698.700E+6	723.100E+6
	Zt(pc)	mm ³	679.400E+6	749.100E+6	784.700E+6	819.300E+6	889.800E+6	925.300E+6
	Zb(pc)	mm ³	428.100E+6	436.200E+6	439.500E+6	442.500E+6	448.800E+6	451.100E+6
	Soffit (b)	mm	700	700	700	700	700	700
	Web (t)	mm	120	120	120	3	120	120
Mass	T/m	2.429	2.545	2.603	2.661	2.776	2.834	

