

Super-T Data Sheet

Closed Top

Super-T (Closed Top) - Composite Section Properties $I=200$

Deck Thickness T=200mm $F'c(s)=40MPa$ $F'c(pc)=50MPa$ $m=0.894$

T1	Flange (B)	(mm)	1800	2000	2200	2400	2500
750	Overall (D)	(mm)	950	950	950	950	950
	Precast (d)	(mm)	750	750	750	750	750
	Area	(mm ²)	763,300	813,900	864,500	915,500	941,000
	Ix	(mm ⁴)	7.29014E+10	7.56625E+10	7.81384E+10	8.03987E+10	8.14506E+11
	yb	(mm)	583	597	609	620	625
	Zt(deck)	(mm ³)	1.98641E+08	2.14341E+08	2.29145E+08	2.43632E+08	2.50617E+09
	Zt(pc)	(mm ³)	4.36535E+08	4.94526E+08	5.54173E+08	6.18452E+08	6.51605E+09
	Zb(pc)	(mm ³)	1.25045E+08	1.26738E+08	1.28306E+08	1.29675E+08	1.30321E+09
	Soffit (b)	(mm)	792	792	792	792	792
	V/s	(mm)	144.33	143.07	141.98	141.09	140.68
Mass	(T/m)	1.985	2.116	2.248	2.380	2.447	
T2	Flange (B)	(mm)	1800	2000	2200	2400	2500
1000	Overall (D)	(mm)	1200	1200	1200	1200	1200
	Precast (d)	(mm)	1000	1000	1000	1000	1000
	Area	(mm ²)	802,190	852,790	903,390	954,390	979,890
	Ix	(mm ⁴)	1.32322E+11	1.37214E+11	1.41594E+11	1.45582E+11	1.47433E+11
	yb	(mm)	749	768	784	799	806
	Zt(deck)	(mm ³)	2.93397E+08	3.17625E+08	3.40370E+08	3.63047E+08	3.74195E+08
	Zt(pc)	(mm ³)	5.27179E+08	5.91440E+08	6.55528E+08	7.24289E+08	7.59964E+08
	Zb(pc)	(mm ³)	1.76665E+08	1.78664E+08	1.80605E+08	1.82205E+08	1.82919E+08
	Soffit (b)	(mm)	744	744	744	744	744
	V/s	(mm)	139.68	138.82	138.07	137.46	137.18
Mass	(T/m)	2.086	2.217	2.349	2.481	2.548	
T3	Flange (B)	(mm)	1800	2000	2200	2400	2500
1200	Overall (D)	(mm)	1400	1400	1400	1400	1400
	Precast (d)	(mm)	1200	1200	1200	1200	1200
	Area	(mm ²)	848,820	899,420	950,020	1,001,020	1,026,520
	Ix	(mm ⁴)	1.99007E+11	2.06516E+11	2.13259E+11	2.19410E+11	2.22268E+11
	yb	(mm)	871	893	913	930	939
	Zt(deck)	(mm ³)	3.76195E+08	4.07329E+08	4.37903E+08	4.66830E+08	4.82143E+08
	Zt(pc)	(mm ³)	6.04884E+08	6.72691E+08	7.43063E+08	8.12630E+08	8.51602E+08
	Zb(pc)	(mm ³)	2.28481E+08	2.31261E+08	2.33581E+08	2.35925E+08	2.36707E+08
	Soffit (b)	(mm)	706	706	706	706	706
	V/s	(mm)	139.00	138.23	137.55	137.00	136.75
Mass	(T/m)	2.207	2.338	2.470	2.603	2.669	
T4	Flange (B)	(mm)	1800	2000	2200	2400	2500
1500	Overall (D)	(mm)	1700	1700	1700	1700	1700
	Precast (d)	(mm)	1500	1500	1500	1500	1500
	Area	(mm ²)	895,505	946,105	996,705	1,047,710	1,073,210
	Ix	(mm ⁴)	3.17230E+11	3.29115E+11	3.39826E+11	3.49620E+11	3.54179E+11
	yb	(mm)	1068	1094	1118	1139	1149
	Zt(deck)	(mm ³)	5.01946E+08	5.43094E+08	5.83893E+08	6.23209E+08	6.42793E+08
	Zt(pc)	(mm ³)	7.34329E+08	8.10628E+08	8.89597E+08	9.68476E+08	1.00906E+09
	Zb(pc)	(mm ³)	2.97032E+08	3.00836E+08	3.03959E+08	3.06953E+08	3.08250E+08
	Soffit (b)	(mm)	650	650	650	650	650
	V/s	(mm)	134.59	134.13	133.72	133.41	133.26
Mass	(T/m)	2.328	2.460	2.591	2.724	2.790	

