

Super-T Data Sheet

Open Top

Super-T (Open Top) - Composite Section Properties I=180

Deck Thickness T=180mm F'c(sl)=40MPa F'c(pc)=50MPa m=0.894

T1	Flange (B)	(mm)	1800	2000	2200	2400	2500
750	Overall (D)	(mm)	930	930	930	930	930
	Precast (d)	(mm)	750	750	750	750	750
	Area	(mm ²)	680,135	727,175	774,215	821,615	845,315
	Ix	(mm ⁴)	6.81103E+10	7.11162E+10	7.37884E+10	7.62073E+10	7.73261E+10
	yb	(mm)	550	566	580	593	598
	Zt(deck)	(mm ³)	1.79238E+08	1.95374E+08	2.10824E+08	2.26134E+08	2.32910E+08
	Zt(pc)	(mm ³)	3.40552E+08	3.86501E+08	4.34049E+08	4.85397E+08	5.08724E+08
	Zb(pc)	(mm ³)	1.23837E+08	1.25647E+08	1.27221E+08	1.28511E+08	1.29308E+08
	Soffit (b)	(mm)	792	792	792	792	792
	V/s	(mm)	89.24	91.15	92.90	94.51	95.26
Mass	(T/m)	1.768	1.891	2.013	2.136	2.198	
T2	Flange (B)	(mm)	1800	2000	2200	2400	2500
1000	Overall (D)	(mm)	1180	1180	1180	1180	1180
	Precast (d)	(mm)	1000	1000	1000	1000	1000
	Area	(mm ²)	715,550	762,590	809,630	857,030	880,730
	Ix	(mm ⁴)	1.23848E+11	1.29291E+11	1.34132E+11	1.38509E+11	1.40532E+11
	yb	(mm)	707	728	746	763	771
	Zt(deck)	(mm ³)	2.61835E+08	2.86042E+08	3.09060E+08	3.32156E+08	3.43599E+08
	Zt(pc)	(mm ³)	4.22689E+08	4.75335E+08	5.28079E+08	5.84426E+08	6.13677E+08
	Zb(pc)	(mm ³)	1.75174E+08	1.77598E+08	1.79802E+08	1.81532E+08	1.82272E+08
	Soffit (b)	(mm)	744	744	744	744	744
	V/s	(mm)	83.80	85.73	87.52	89.17	89.95
Mass	(T/m)	1.860	1.983	2.105	2.228	2.290	
T3	Flange (B)	(mm)	1800	2000	2200	2400	2500
1200	Overall (D)	(mm)	1380	1380	1380	1380	1380
	Precast (d)	(mm)	1200	1200	1200	1200	1200
	Area	(mm ²)	754,630	801,670	848,710	896,110	919,810
	Ix	(mm ⁴)	1.83884E+11	1.92095E+11	1.99424E+11	2.06069E+11	2.09145E+11
	yb	(mm)	826	850	873	893	902
	Zt(deck)	(mm ³)	3.31921E+08	3.62443E+08	3.93341E+08	4.23140E+08	4.37542E+08
	Zt(pc)	(mm ³)	4.91668E+08	5.48843E+08	6.09859E+08	6.71235E+08	7.01829E+08
	Zb(pc)	(mm ³)	2.22620E+08	2.25994E+08	2.28435E+08	2.30760E+08	2.31868E+08
	Soffit (b)	(mm)	706	706	706	706	706
	V/s	(mm)	81.68	83.55	85.29	86.91	87.67
Mass	(T/m)	1.962	2.084	2.207	2.330	2.392	
T4	Flange (B)	(mm)	1800	2000	2200	2400	2500
1500	Overall (D)	(mm)	1680	1680	1680	1680	1680
	Precast (d)	(mm)	1500	1500	1500	1500	1500
	Area	(mm ²)	797,640	844,680	891,720	939,120	962,820
	Ix	(mm ⁴)	2.91614E+11	3.04535E+11	3.16120E+11	3.26660E+11	3.31550E+11
	yb	(mm)	1015	1045	1072	1096	1107
	Zt(deck)	(mm ³)	4.38517E+08	4.79583E+08	5.19934E+08	5.59349E+08	5.78621E+08
	Zt(pc)	(mm ³)	6.01266E+08	6.69308E+08	7.38598E+08	8.08564E+08	8.43639E+08
	Zb(pc)	(mm ³)	2.87304E+08	2.91421E+08	2.94888E+08	2.98047E+08	2.99503E+08
	Soffit (b)	(mm)	650	650	650	650	650
	V/s	(mm)	77.14	78.97	80.69	82.29	83.06
Mass	(T/m)	2.074	2.196	2.318	2.442	2.503	

