

Super-T Data Sheet

Open Top

Super-T (Open Top) - Composite Section Properties I=160

Deck Thickness T=160mm F'c(sl)=40MPa F'c(pc)=50MPa m=0.894

T1	Flange (B)	(mm)	1800	2000	2200	2400	2500
750	Overall (D)	(mm)	910	910	910	910	910
	Precast (d)	(mm)	750	750	750	750	750
	Area	(mm ²)	647,935	691,415	734,895	778,695	800,595
	Ix	(mm ⁴)	6.34696E+10	6.63930E+10	6.89947E+10	7.13501E+10	7.24395E+10
	yb	(mm)	531	547	562	574	580
	Zt(deck)	(mm ³)	1.67466E+08	1.82901E+08	1.98261E+08	2.12351E+08	2.19514E+08
	Zt(pc)	(mm ³)	2.89816E+08	3.27059E+08	3.66993E+08	4.05398E+08	4.26115E+08
	Zb(pc)	(mm ³)	1.19528E+08	1.21377E+08	1.22766E+08	1.24303E+08	1.24896E+08
	Soffit (b)	(mm)	792	792	792	792	792
	V/s	(mm)	85.91	87.55	89.04	90.40	91.04
Mass	(T/m)	1.685	1.798	1.911	2.025	2.082	
T2	Flange (B)	(mm)	1800	2000	2200	2400	2500
1000	Overall (D)	(mm)	1160	1160	1160	1160	1160
	Precast (d)	(mm)	1000	1000	1000	1000	1000
	Area	(mm ²)	683,350	726,830	770,310	814,110	836,010
	Ix	(mm ⁴)	1.16608E+11	1.21953E+11	1.26718E+11	1.31032E+11	1.33028E+11
	yb	(mm)	685	706	725	742	750
	Zt(deck)	(mm ³)	2.45491E+08	2.68619E+08	2.91306E+08	3.13474E+08	3.24459E+08
	Zt(pc)	(mm ³)	3.70184E+08	4.14806E+08	4.60793E+08	5.07876E+08	5.32112E+08
	Zb(pc)	(mm ³)	1.70231E+08	1.72738E+08	1.74783E+08	1.76593E+08	1.77371E+08
	Soffit (b)	(mm)	744	744	744	744	744
	V/s	(mm)	80.78	82.45	83.99	85.42	86.09
Mass	(T/m)	1.777	1.890	2.003	2.117	2.174	
T3	Flange (B)	(mm)	1800	2000	2200	2400	2500
1200	Overall (D)	(mm)	1360	1360	1360	1360	1360
	Precast (d)	(mm)	1200	1200	1200	1200	1200
	Area	(mm ²)	722,430	765,910	809,390	853,190	875,090
	Ix	(mm ⁴)	1.73913E+11	1.81990E+11	1.89221E+11	1.95790E+11	1.98835E+11
	yb	(mm)	801	826	848	868	878
	Zt(deck)	(mm ³)	3.11114E+08	3.40805E+08	3.69572E+08	3.97947E+08	4.12521E+08
	Zt(pc)	(mm ³)	4.35872E+08	4.86604E+08	5.37560E+08	5.89729E+08	6.17500E+08
	Zb(pc)	(mm ³)	2.17120E+08	2.20327E+08	2.23138E+08	2.25565E+08	2.26464E+08
	Soffit (b)	(mm)	706	706	706	706	706
	V/s	(mm)	78.87	80.49	81.99	83.39	84.05
Mass	(T/m)	1.878	1.991	2.104	2.218	2.275	
T4	Flange (B)	(mm)	1800	2000	2200	2400	2500
1500	Overall (D)	(mm)	1660	1660	1660	1660	1660
	Precast (d)	(mm)	1500	1500	1500	1500	1500
	Area	(mm ²)	765,440	808,920	852,400	896,200	918,100
	Ix	(mm ⁴)	2.77237E+11	2.89956E+11	3.01399E+11	3.11834E+11	3.16686E+11
	yb	(mm)	988	1018	1044	1068	1080
	Zt(deck)	(mm ³)	4.12555E+08	4.51645E+08	4.89284E+08	5.26747E+08	5.46010E+08
	Zt(pc)	(mm ³)	5.41479E+08	6.01568E+08	6.60963E+08	7.21838E+08	7.54014E+08
	Zb(pc)	(mm ³)	2.80604E+08	2.84829E+08	2.88696E+08	2.91979E+08	2.93228E+08
	Soffit (b)	(mm)	650	650	650	650	650
	V/s	(mm)	74.61	76.20	77.69	79.09	79.75
Mass	(T/m)	1.990	2.103	2.216	2.330	2.387	

