

Super-T Data Sheet

Open Top

Super-T (Open Top) - Composite Section Properties I=190

Deck Thickness T=190mm F'c(sl)=40MPa F'c(pc)=50MPa m=0.894

T1	Flange (B)	(mm)	1800	2000	2200	2400	2500
750	Overall (D)	(mm)	940	940	940	940	940
	Precast (d)	(mm)	750	750	750	750	750
	Area	(mm ²)	696,235	745,055	793,875	843,075	867,675
	Ix	(mm ⁴)	7.04476E+10	7.34968E+10	7.62068E+10	7.86603E+10	7.97952E+10
	yb	(mm)	558	575	589	601	607
	Zt(deck)	(mm ³)	1.84418E+08	2.01361E+08	2.17113E+08	2.32036E+08	2.39625E+08
	Zt(pc)	(mm ³)	3.66915E+08	4.19982E+08	4.73334E+08	5.27921E+08	5.58008E+08
	Zb(pc)	(mm ³)	1.26250E+08	1.27821E+08	1.29383E+08	1.30882E+08	1.31458E+08
	Soffit (b)	(mm)	792	792	792	792	792
	V/s	(mm)	90.87	92.93	94.81	96.53	97.34
Mass	(T/m)	1.810	1.937	2.064	2.192	2.256	
T2	Flange (B)	(mm)	1800	2000	2200	2400	2500
1000	Overall (D)	(mm)	1190	1190	1190	1190	1190
	Precast (d)	(mm)	1000	1000	1000	1000	1000
	Area	(mm ²)	731,650	780,470	829,290	878,490	903,090
	Ix	(mm ⁴)	1.27451E+11	1.32944E+11	1.37824E+11	1.42233E+11	1.44271E+11
	yb	(mm)	717	738	757	774	781
	Zt(deck)	(mm ³)	2.69452E+08	2.94124E+08	3.18300E+08	3.41906E+08	3.52741E+08
	Zt(pc)	(mm ³)	4.50357E+08	5.07420E+08	5.67177E+08	6.29350E+08	6.58772E+08
	Zb(pc)	(mm ³)	1.77756E+08	1.80141E+08	1.82066E+08	1.83764E+08	1.84726E+08
	Soffit (b)	(mm)	744	744	744	744	744
	V/s	(mm)	85.28	87.35	89.26	91.02	91.86
Mass	(T/m)	1.902	2.029	2.156	2.284	2.348	
T3	Flange (B)	(mm)	1800	2000	2200	2400	2500
1200	Overall (D)	(mm)	1390	1390	1390	1390	1390
	Precast (d)	(mm)	1200	1200	1200	1200	1200
	Area	(mm ²)	770,730	819,550	868,370	917,570	942,170
	Ix	(mm ⁴)	1.88817E+11	1.97092E+11	2.04470E+11	2.11153E+11	2.14244E+11
	yb	(mm)	837	862	884	904	913
	Zt(deck)	(mm ³)	3.41441E+08	3.73280E+08	4.04091E+08	4.34471E+08	4.49149E+08
	Zt(pc)	(mm ³)	5.20157E+08	5.83112E+08	6.47057E+08	7.13355E+08	7.46495E+08
	Zb(pc)	(mm ³)	2.25588E+08	2.28645E+08	2.31301E+08	2.33576E+08	2.34659E+08
	Soffit (b)	(mm)	706	706	706	706	706
	V/s	(mm)	83.06	85.06	86.91	88.64	89.46
Mass	(T/m)	2.004	2.131	2.258	2.386	2.450	
T4	Flange (B)	(mm)	1800	2000	2200	2400	2500
1500	Overall (D)	(mm)	1690	1690	1690	1690	1690
	Precast (d)	(mm)	1500	1500	1500	1500	1500
	Area	(mm ²)	813,740	862,560	911,380	960,580	985,180
	Ix	(mm ⁴)	2.98689E+11	3.11703E+11	3.23354E+11	3.33941E+11	3.38849E+11
	yb	(mm)	1029	1058	1085	1109	1120
	Zt(deck)	(mm ³)	4.51874E+08	4.93201E+08	5.34469E+08	5.74769E+08	5.94472E+08
	Zt(pc)	(mm ³)	6.34159E+08	7.05210E+08	7.79166E+08	8.54069E+08	8.91708E+08
	Zb(pc)	(mm ³)	2.90271E+08	2.94615E+08	2.98022E+08	3.01119E+08	3.02544E+08
	Soffit (b)	(mm)	650	650	650	650	650
	V/s	(mm)	78.40	80.34	82.17	83.88	84.70
Mass	(T/m)	2.116	2.243	2.370	2.498	2.561	

