

Super-T Data Sheet

Closed Top

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

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

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)	731,100	778,140	825,180	872,580	896,280
	Ix	(mm ⁴)	6.86080E+10	7.12547E+10	7.36294E+10	7.57966E+10	7.68047E+10
	yb	(mm)	567	581	593	605	610
	Zt(deck)	(mm ³)	1.89003E+08	2.04168E+08	2.18485E+08	2.33220E+08	2.40015E+08
	Zt(pc)	(mm ³)	3.74907E+08	4.21625E+08	4.68977E+08	5.22735E+08	5.48605E+08
	Zb(pc)	(mm ³)	1.21002E+08	1.22641E+08	1.24164E+08	1.25284E+08	1.25909E+08
	Soffit (b)	(mm)	792	792	792	792	792
	V/s	(mm)	139.29	137.76	136.42	135.31	134.81
	Mass	(T/m)	1.901	2.023	2.145	2.269	2.330
	T2	Flange (B)	(mm)	1800	2000	2200	2400
1000	Overall (D)	(mm)	1180	1180	1180	1180	1180
	Precast (d)	(mm)	1000	1000	1000	1000	1000
	Area	(mm ²)	769,990	817,030	864,070	911,470	935,170
	Ix	(mm ⁴)	1.25812E+11	1.30562E+11	1.34823E+11	1.38707E+11	1.40511E+11
	yb	(mm)	731	749	766	780	787
	Zt(deck)	(mm ³)	2.80205E+08	3.02928E+08	3.25659E+08	3.46768E+08	3.57534E+08
	Zt(pc)	(mm ³)	4.67703E+08	5.20167E+08	5.76167E+08	6.30486E+08	6.59676E+08
	Zb(pc)	(mm ³)	1.72109E+08	1.74315E+08	1.76009E+08	1.77829E+08	1.78540E+08
	Soffit (b)	(mm)	744	744	744	744	744
	V/s	(mm)	135.01	133.87	132.87	132.04	131.66
	Mass	(T/m)	2.002	2.124	2.247	2.370	2.431
	T3	Flange (B)	(mm)	1800	2000	2200	2400
1200	Overall (D)	(mm)	1380	1380	1380	1380	1380
	Precast (d)	(mm)	1200	1200	1200	1200	1200
	Area	(mm ²)	816,620	863,660	910,700	958,100	981,800
	Ix	(mm ⁴)	1.90004E+11	1.97323E+11	2.03914E+11	2.09935E+11	2.12737E+11
	yb	(mm)	851	873	892	910	918
	Zt(deck)	(mm ³)	3.59176E+08	3.89197E+08	4.17857E+08	4.46670E+08	4.60470E+08
	Zt(pc)	(mm ³)	5.44424E+08	6.03434E+08	6.62058E+08	7.23914E+08	7.54387E+08
	Zb(pc)	(mm ³)	2.23271E+08	2.26029E+08	2.28603E+08	2.30698E+08	2.31740E+08
	Soffit (b)	(mm)	706	706	706	706	706
	V/s	(mm)	134.60	133.55	132.62	131.85	131.49
	Mass	(T/m)	2.123	2.246	2.368	2.491	2.553
	T4	Flange (B)	(mm)	1800	2000	2200	2400
1500	Overall (D)	(mm)	1680	1680	1680	1680	1680
	Precast (d)	(mm)	1500	1500	1500	1500	1500
	Area	(mm ²)	863,305	910,345	957,385	1,004,790	1,028,490
	Ix	(mm ⁴)	3.04304E+11	3.15922E+11	3.26424E+11	3.36048E+11	3.40536E+11
	yb	(mm)	1045	1071	1094	1116	1126
	Zt(deck)	(mm ³)	4.79219E+08	5.18755E+08	5.57038E+08	5.95830E+08	6.14686E+08
	Zt(pc)	(mm ³)	6.68800E+08	7.36415E+08	8.04000E+08	8.75125E+08	9.10524E+08
	Zb(pc)	(mm ³)	2.91200E+08	2.94979E+08	2.98377E+08	3.01118E+08	3.02430E+08
	Soffit (b)	(mm)	650	650	650	650	650
	V/s	(mm)	130.54	129.80	129.14	128.60	128.35
	Mass	(T/m)	2.245	2.367	2.489	2.612	2.674

