

# Super-T Data Sheet

## Closed Top

### Super-T (Closed 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 <sup>2</sup> )	698,900	742,380	785,860	829,660	851,560
	Ix	(mm <sup>4</sup> )	6.44083E+10	6.69458E+10	6.92251E+10	7.13059E+10	7.22740E+10
	yb	(mm)	551	565	577	588	594
	Zt(deck)	(mm <sup>3</sup> )	1.79410E+08	1.94046E+08	2.07883E+08	2.21447E+08	2.28715E+08
	Zt(pc)	(mm <sup>3</sup> )	3.23660E+08	3.61869E+08	4.00145E+08	4.40160E+08	4.63295E+08
	Zb(pc)	(mm <sup>3</sup> )	1.16893E+08	1.18488E+08	1.19974E+08	1.21269E+08	1.21673E+08
	Soffit (b)	(mm)	792	792	792	792	792
	V/s	(mm)	134.18	132.36	130.79	129.46	128.85
	Mass	(T/m)	1.817	1.930	2.043	2.157	2.214
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 <sup>2</sup> )	737,790	781,270	824,750	868,550	890,450
	Ix	(mm <sup>4</sup> )	1.19336E+11	1.23945E+11	1.28089E+11	1.31872E+11	1.33631E+11
	yb	(mm)	712	730	746	761	768
	Zt(deck)	(mm <sup>3</sup> )	2.66375E+08	2.88244E+08	3.09394E+08	3.30506E+08	3.40895E+08
	Zt(pc)	(mm <sup>3</sup> )	4.14361E+08	4.59056E+08	5.04287E+08	5.51766E+08	5.75996E+08
	Zb(pc)	(mm <sup>3</sup> )	1.67607E+08	1.69788E+08	1.71701E+08	1.73288E+08	1.73999E+08
	Soffit (b)	(mm)	744	744	744	744	744
	V/s	(mm)	130.28	128.86	127.61	126.56	126.07
	Mass	(T/m)	1.918	2.031	2.144	2.258	2.315
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 <sup>2</sup> )	784,420	827,900	871,380	915,180	937,080
	Ix	(mm <sup>4</sup> )	1.80971E+11	1.88094E+11	1.94527E+11	2.00417E+11	2.03163E+11
	yb	(mm)	830	851	871	888	896
	Zt(deck)	(mm <sup>3</sup> )	3.41455E+08	3.69536E+08	3.97806E+08	4.24612E+08	4.37851E+08
	Zt(pc)	(mm <sup>3</sup> )	4.89111E+08	5.38951E+08	5.91267E+08	6.42362E+08	6.68299E+08
	Zb(pc)	(mm <sup>3</sup> )	2.18037E+08	2.21027E+08	2.23338E+08	2.25695E+08	2.26744E+08
	Soffit (b)	(mm)	706	706	706	706	706
	V/s	(mm)	130.15	128.82	127.64	126.64	126.18
	Mass	(T/m)	2.039	2.153	2.266	2.379	2.436
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 <sup>2</sup> )	831,105	874,585	918,065	961,865	983,765
	Ix	(mm <sup>4</sup> )	2.91227E+11	3.02557E+11	3.12834E+11	3.22276E+11	3.26689E+11
	yb	(mm)	1021	1046	1070	1091	1101
	Zt(deck)	(mm <sup>3</sup> )	4.55754E+08	4.92764E+08	5.30227E+08	5.66390E+08	5.84417E+08
	Zt(pc)	(mm <sup>3</sup> )	6.07990E+08	6.66425E+08	7.27521E+08	7.87961E+08	8.18769E+08
	Zb(pc)	(mm <sup>3</sup> )	2.85237E+08	2.89251E+08	2.92368E+08	2.95395E+08	2.96720E+08
	Soffit (b)	(mm)	650	650	650	650	650
	V/s	(mm)	126.43	125.42	124.51	123.74	123.38
	Mass	(T/m)	2.161	2.274	2.387	2.501	2.558

