

# Super-T Data Sheet

Closed Top

## Super-T (Closed Top) - Composite Section Properties $I=190$

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

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 <sup>2</sup> )	747,200	796,020	844,840	894,040	918,640
	Ix	(mm <sup>4</sup> )	7.07422E+10	7.34453E+10	7.58697E+10	7.80827E+10	7.91121E+10
	yb	(mm)	575	589	601	613	618
	Zt(deck)	(mm <sup>3</sup> )	1.93814E+08	2.09246E+08	2.23804E+08	2.38785E+08	2.45690E+08
	Zt(pc)	(mm <sup>3</sup> )	4.04241E+08	4.56182E+08	5.09193E+08	5.69947E+08	5.99334E+08
	Zb(pc)	(mm <sup>3</sup> )	1.23030E+08	1.24695E+08	1.26239E+08	1.27378E+08	1.28013E+08
	Soffit (b)	(mm)	792	792	792	792	792
	V/s	(mm)	141.82	140.42	139.21	138.21	137.75
	Mass	(T/m)	1.943	2.070	2.197	2.325	2.388
	T2	Flange (B)	(mm)	1800	2000	2200	2400
1000	Overall (D)	(mm)	1190	1190	1190	1190	1190
	Precast (d)	(mm)	1000	1000	1000	1000	1000
	Area	(mm <sup>2</sup> )	786,090	834,910	883,730	932,930	957,530
	Ix	(mm <sup>4</sup> )	1.29061E+11	1.33882E+11	1.38203E+11	1.42137E+11	1.43965E+11
	yb	(mm)	740	759	775	790	797
	Zt(deck)	(mm <sup>3</sup> )	2.86802E+08	3.10631E+08	3.33019E+08	3.55343E+08	3.66323E+08
	Zt(pc)	(mm <sup>3</sup> )	4.96388E+08	5.55527E+08	6.14236E+08	6.76843E+08	7.09187E+08
	Zb(pc)	(mm <sup>3</sup> )	1.74407E+08	1.76393E+08	1.78326E+08	1.79920E+08	1.80634E+08
	Soffit (b)	(mm)	744	744	744	744	744
	V/s	(mm)	137.36	136.36	135.48	134.76	134.43
	Mass	(T/m)	2.044	2.171	2.298	2.426	2.490
	T3	Flange (B)	(mm)	1800	2000	2200	2400
1200	Overall (D)	(mm)	1390	1390	1390	1390	1390
	Precast (d)	(mm)	1200	1200	1200	1200	1200
	Area	(mm <sup>2</sup> )	832,720	881,540	930,360	979,560	1,004,160
	Ix	(mm <sup>4</sup> )	1.94507E+11	2.01922E+11	2.08589E+11	2.14676E+11	2.17506E+11
	yb	(mm)	861	883	903	920	928
	Zt(deck)	(mm <sup>3</sup> )	3.67688E+08	3.98268E+08	4.28314E+08	4.56757E+08	4.70792E+08
	Zt(pc)	(mm <sup>3</sup> )	5.73767E+08	6.36978E+08	7.02320E+08	7.66700E+08	7.99654E+08
	Zb(pc)	(mm <sup>3</sup> )	2.25908E+08	2.28677E+08	2.30996E+08	2.33343E+08	2.34381E+08
	Soffit (b)	(mm)	706	706	706	706	706
	V/s	(mm)	136.81	135.90	135.09	134.43	134.12
	Mass	(T/m)	2.165	2.292	2.419	2.547	2.611
	T4	Flange (B)	(mm)	1800	2000	2200	2400
1500	Overall (D)	(mm)	1690	1690	1690	1690	1690
	Precast (d)	(mm)	1500	1500	1500	1500	1500
	Area	(mm <sup>2</sup> )	879,405	928,225	977,045	1,026,250	1,050,850
	Ix	(mm <sup>4</sup> )	3.10783E+11	3.22537E+11	3.33145E+11	3.42855E+11	3.47380E+11
	yb	(mm)	1056	1083	1106	1128	1138
	Zt(deck)	(mm <sup>3</sup> )	4.90194E+08	5.31362E+08	5.70454E+08	6.10062E+08	6.29312E+08
	Zt(pc)	(mm <sup>3</sup> )	6.99962E+08	7.73470E+08	8.45546E+08	9.21653E+08	9.59613E+08
	Zb(pc)	(mm <sup>3</sup> )	2.94302E+08	2.97818E+08	3.01216E+08	3.03949E+08	3.05255E+08
	Soffit (b)	(mm)	650	650	650	650	650
	V/s	(mm)	132.57	131.97	131.44	131.01	130.81
	Mass	(T/m)	2.286	2.413	2.540	2.668	2.732

