

# Super-T Data Sheet

Open Top

Super-T (Open Top) - Composite Section Properties						<b>I=170</b>
<b>Deck Thickness T=170mm</b>		F'c(sl)=40MPa	F'c(pc)=50MPa	m=0.894		

	Flange (B)	(mm)	1800	2000	2200	2400	2500	
750	<b>T1</b>	Overall (D)	(mm)	920	920	920	920	920
	Precast (d)	(mm)	750	750	750	750	750	
	Area	(mm <sup>2</sup> )	664,035	709,295	754,555	800,155	822,955	
	Ix	(mm <sup>4</sup> )	6.57851E+10	6.87491E+10	7.13853E+10	7.37716E+10	7.48752E+10	
	yb	(mm)	540	557	571	584	589	
	Zt(deck)	(mm <sup>3</sup> )	1.73119E+08	1.89391E+08	2.04542E+08	2.19558E+08	2.26209E+08	
	Zt(pc)	(mm <sup>3</sup> )	3.13262E+08	3.56213E+08	3.98801E+08	4.44407E+08	4.65063E+08	
	Zb(pc)	(mm <sup>3</sup> )	1.21824E+08	1.23427E+08	1.25018E+08	1.26321E+08	1.27123E+08	
	Soffit (b)	(mm)	792	792	792	792	792	
	V/s	(mm)	87.58	89.36	90.98	92.46	93.16	
	Mass	(T/m)	1.726	1.844	1.962	2.080	2.140	
1000	<b>T2</b>	Flange (B)	(mm)	1800	2000	2200	2400	2500
	Overall (D)	(mm)	1170	1170	1170	1170	1170	
	Precast (d)	(mm)	1000	1000	1000	1000	1000	
	Area	(mm <sup>2</sup> )	699,450	744,710	789,970	835,570	858,370	
	Ix	(mm <sup>4</sup> )	1.20235E+11	1.25629E+11	1.30432E+11	1.34777E+11	1.36786E+11	
	yb	(mm)	696	717	736	753	760	
	Zt(deck)	(mm <sup>3</sup> )	2.53660E+08	2.77327E+08	3.00535E+08	3.23206E+08	3.33624E+08	
	Zt(pc)	(mm <sup>3</sup> )	3.95510E+08	4.43919E+08	4.94061E+08	5.45656E+08	5.69942E+08	
	Zb(pc)	(mm <sup>3</sup> )	1.72751E+08	1.75215E+08	1.77217E+08	1.78987E+08	1.79982E+08	
	Soffit (b)	(mm)	744	744	744	744	744	
	V/s	(mm)	82.30	84.10	85.76	87.30	88.03	
Mass	(T/m)	1.819	1.936	2.054	2.172	2.232		
1200	<b>T3</b>	Flange (B)	(mm)	1800	2000	2200	2400	2500
	Overall (D)	(mm)	1370	1370	1370	1370	1370	
	Precast (d)	(mm)	1200	1200	1200	1200	1200	
	Area	(mm <sup>2</sup> )	738,530	783,790	829,050	874,650	897,450	
	Ix	(mm <sup>4</sup> )	1.78918E+11	1.87063E+11	1.94343E+11	2.00950E+11	2.04011E+11	
	yb	(mm)	814	838	861	881	890	
	Zt(deck)	(mm <sup>3</sup> )	3.21795E+08	3.51622E+08	3.81813E+08	4.10941E+08	4.25023E+08	
	Zt(pc)	(mm <sup>3</sup> )	4.63518E+08	5.16749E+08	5.73283E+08	6.29937E+08	6.58100E+08	
	Zb(pc)	(mm <sup>3</sup> )	2.19801E+08	2.23226E+08	2.25718E+08	2.28093E+08	2.29226E+08	
	Soffit (b)	(mm)	706	706	706	706	706	
	V/s	(mm)	80.28	82.03	83.65	85.16	85.87	
Mass	(T/m)	1.920	2.038	2.156	2.274	2.333		
1500	<b>T4</b>	Flange (B)	(mm)	1800	2000	2200	2400	2500
	Overall (D)	(mm)	1670	1670	1670	1670	1670	
	Precast (d)	(mm)	1500	1500	1500	1500	1500	
	Area	(mm <sup>2</sup> )	781,540	826,800	872,060	917,660	940,460	
	Ix	(mm <sup>4</sup> )	2.84466E+11	2.97289E+11	3.08805E+11	3.19294E+11	3.24166E+11	
	yb	(mm)	1002	1032	1058	1082	1094	
	Zt(deck)	(mm <sup>3</sup> )	4.25847E+08	4.65970E+08	5.04583E+08	5.43017E+08	5.62788E+08	
	Zt(pc)	(mm <sup>3</sup> )	5.71217E+08	6.35233E+08	6.98654E+08	7.63861E+08	7.98438E+08	
	Zb(pc)	(mm <sup>3</sup> )	2.83898E+08	2.88071E+08	2.91876E+08	2.95096E+08	2.96313E+08	
	Soffit (b)	(mm)	650	650	650	650	650	
	V/s	(mm)	75.88	77.59	79.19	80.70	81.41	
Mass	(T/m)	2.032	2.150	2.267	2.386	2.445		

