

# Super-T Data Sheet

Open Top

PRECAST PRESTRESSED CONCRETE MANUFACTURERS

Super-T (Open Top) - Composite Section Properties						<b>I=200</b>
<b>Deck Thickness T=200mm</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)	950	950	950	950	950
	Precast (d)	(mm)	750	750	750	750	750	
	Area	(mm <sup>2</sup> )	712,335	762,935	813,535	864,535	890,035	
	Ix	(mm <sup>4</sup> )	7.27996E+10	7.58935E+10	7.86431E+10	8.11331E+10	8.22853E+10	
	yb	(mm)	567	583	597	610	616	
	Zt(deck)	(mm <sup>3</sup> )	1.90077E+08	2.06794E+08	2.22785E+08	2.38627E+08	2.46363E+08	
	Zt(pc)	(mm <sup>3</sup> )	3.97812E+08	4.54452E+08	5.14007E+08	5.79522E+08	6.14069E+08	
	Zb(pc)	(mm <sup>3</sup> )	1.28394E+08	1.30178E+08	1.31730E+08	1.33005E+08	1.33580E+08	
	Soffit (b)	(mm)	792	792	792	792	792	
	V/s	(mm)	92.49	94.68	96.69	98.54	99.40	
Mass	(T/m)	1.852	1.984	2.115	2.248	2.314		
1000	<b>T2</b>	Flange (B)	(mm)	1800	2000	2200	2400	2500
	Overall (D)	(mm)	1200	1200	1200	1200	1200	
	Precast (d)	(mm)	1000	1000	1000	1000	1000	
	Area	(mm <sup>2</sup> )	747,750	798,350	848,950	899,950	925,450	
	Ix	(mm <sup>4</sup> )	1.31048E+11	1.36590E+11	1.41510E+11	1.45955E+11	1.48007E+11	
	yb	(mm)	727	748	767	784	791	
	Zt(deck)	(mm <sup>3</sup> )	2.77057E+08	3.02190E+08	3.26813E+08	3.50853E+08	3.61875E+08	
	Zt(pc)	(mm <sup>3</sup> )	4.80029E+08	5.42024E+08	6.07339E+08	6.75718E+08	7.08167E+08	
	Zb(pc)	(mm <sup>3</sup> )	1.80259E+08	1.82607E+08	1.84498E+08	1.86167E+08	1.87114E+08	
	Soffit (b)	(mm)	744	744	744	744	744	
V/s	(mm)	86.75	88.95	90.98	92.86	93.75		
Mass	(T/m)	1.944	2.076	2.207	2.340	2.406		
1200	<b>T3</b>	Flange (B)	(mm)	1800	2000	2200	2400	2500
	Overall (D)	(mm)	1400	1400	1400	1400	1400	
	Precast (d)	(mm)	1200	1200	1200	1200	1200	
	Area	(mm <sup>2</sup> )	786,830	837,430	888,030	939,030	964,530	
	Ix	(mm <sup>4</sup> )	1.93723E+11	2.02062E+11	2.09487E+11	2.16208E+11	2.19314E+11	
	yb	(mm)	849	873	895	915	924	
	Zt(deck)	(mm <sup>3</sup> )	3.51584E+08	3.83419E+08	4.14826E+08	4.45790E+08	4.60744E+08	
	Zt(pc)	(mm <sup>3</sup> )	5.51917E+08	6.17927E+08	6.86843E+08	7.58625E+08	7.94616E+08	
	Zb(pc)	(mm <sup>3</sup> )	2.28178E+08	2.31457E+08	2.34064E+08	2.36293E+08	2.37353E+08	
	Soffit (b)	(mm)	706	706	706	706	706	
V/s	(mm)	84.43	86.55	88.53	90.37	91.24		
Mass	(T/m)	2.046	2.177	2.309	2.441	2.508		
1500	<b>T4</b>	Flange (B)	(mm)	1800	2000	2200	2400	2500
	Overall (D)	(mm)	1700	1700	1700	1700	1700	
	Precast (d)	(mm)	1500	1500	1500	1500	1500	
	Area	(mm <sup>2</sup> )	829,840	880,440	931,040	982,040	1,007,540	
	Ix	(mm <sup>4</sup> )	3.05698E+11	3.18801E+11	3.30515E+11	3.41148E+11	3.46073E+11	
	yb	(mm)	1042	1071	1098	1122	1133	
	Zt(deck)	(mm <sup>3</sup> )	4.64587E+08	5.06838E+08	5.49028E+08	5.90221E+08	6.10358E+08	
	Zt(pc)	(mm <sup>3</sup> )	6.67463E+08	7.43126E+08	8.22177E+08	9.02508E+08	9.42978E+08	
	Zb(pc)	(mm <sup>3</sup> )	2.93376E+08	2.97667E+08	3.01015E+08	3.04053E+08	3.05448E+08	
	Soffit (b)	(mm)	650	650	650	650	650	
V/s	(mm)	79.64	81.71	83.64	85.46	86.32		
Mass	(T/m)	2.158	2.289	2.421	2.553	2.620		

