

Super-T Data Sheet

Open Top

PRECAST PRESTRESSED CONCRETE MANUFACTURERS

Super-T (Open Top) - Composite Section Properties I=200

Deck Thickness T=200mm F'c(sl)=40MPa F'c(pc)=50MPa m=0.894

T1	Flange (B)	(mm)	1800	2000	2200	2400	2500
750	Overall (D)	(mm)	950	950	950	950	950
	Precast (d)	(mm)	750	750	750	750	750
	Area	(mm ²)	712,335	762,935	813,535	864,535	890,035
	Ix	(mm ⁴)	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 ³)	1.90077E+08	2.06794E+08	2.22785E+08	2.38627E+08	2.46363E+08
	Zt(pc)	(mm ³)	3.97812E+08	4.54452E+08	5.14007E+08	5.79522E+08	6.14069E+08
	Zb(pc)	(mm ³)	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	
T2	Flange (B)	(mm)	1800	2000	2200	2400	2500
1000	Overall (D)	(mm)	1200	1200	1200	1200	1200
	Precast (d)	(mm)	1000	1000	1000	1000	1000
	Area	(mm ²)	747,750	798,350	848,950	899,950	925,450
	Ix	(mm ⁴)	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 ³)	2.77057E+08	3.02190E+08	3.26813E+08	3.50853E+08	3.61875E+08
	Zt(pc)	(mm ³)	4.80029E+08	5.42024E+08	6.07339E+08	6.75718E+08	7.08167E+08
	Zb(pc)	(mm ³)	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	
T3	Flange (B)	(mm)	1800	2000	2200	2400	2500
1200	Overall (D)	(mm)	1400	1400	1400	1400	1400
	Precast (d)	(mm)	1200	1200	1200	1200	1200
	Area	(mm ²)	786,830	837,430	888,030	939,030	964,530
	Ix	(mm ⁴)	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 ³)	3.51584E+08	3.83419E+08	4.14826E+08	4.45790E+08	4.60744E+08
	Zt(pc)	(mm ³)	5.51917E+08	6.17927E+08	6.86843E+08	7.58625E+08	7.94616E+08
	Zb(pc)	(mm ³)	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	
T4	Flange (B)	(mm)	1800	2000	2200	2400	2500
1500	Overall (D)	(mm)	1700	1700	1700	1700	1700
	Precast (d)	(mm)	1500	1500	1500	1500	1500
	Area	(mm ²)	829,840	880,440	931,040	982,040	1,007,540
	Ix	(mm ⁴)	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 ³)	4.64587E+08	5.06838E+08	5.49028E+08	5.90221E+08	6.10358E+08
	Zt(pc)	(mm ³)	6.67463E+08	7.43126E+08	8.22177E+08	9.02508E+08	9.42978E+08
	Zb(pc)	(mm ³)	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	

