

Super-T Data Sheet

Closed Top

PRECAST PRESTRESSED CONCRETE MANUFACTURERS

Super-T (Closed Top) - Composite Section Properties $I=170$

Deck Thickness T=170mm $F'c(s)=40MPa$ $F'c(pc)=50MPa$ $m=0.894$

T1	Flange (B)	(mm)	1800	2000	2200	2400	2500
750	Overall (D)	(mm)	920	920	920	920	920
	Precast (d)	(mm)	750	750	750	750	750
	Area	(mm ²)	715,000	760,260	805,520	851,120	873,920
	Ix	(mm ⁴)	6.64973E+10	6.90889E+10	7.14151E+10	7.35384E+10	7.45261E+10
	yb	(mm)	559	573	585	597	602
	Zt(deck)	(mm ³)	1.84203E+08	1.99103E+08	2.13179E+08	2.27673E+08	2.34359E+08
	Zt(pc)	(mm ³)	3.48153E+08	3.90333E+08	4.32819E+08	4.80643E+08	5.03555E+08
	Zb(pc)	(mm ³)	1.18958E+08	1.20574E+08	1.22077E+08	1.23180E+08	1.23798E+08
	Soffit (b)	(mm)	792	792	792	792	792
	V/s	(mm)	136.74	135.07	133.61	132.39	131.84
Mass	(T/m)	1.859	1.977	2.094	2.213	2.272	
T2	Flange (B)	(mm)	1800	2000	2200	2400	2500
1000	Overall (D)	(mm)	1170	1170	1170	1170	1170
	Precast (d)	(mm)	1000	1000	1000	1000	1000
	Area	(mm ²)	753,890	799,150	844,410	890,010	912,810
	Ix	(mm ⁴)	1.22571E+11	1.27250E+11	1.31453E+11	1.35286E+11	1.37067E+11
	yb	(mm)	722	740	756	771	778
	Zt(deck)	(mm ³)	2.73596E+08	2.95930E+08	3.17519E+08	3.39063E+08	3.49661E+08
	Zt(pc)	(mm ³)	4.40903E+08	4.89423E+08	5.38742E+08	5.90769E+08	6.17419E+08
	Zb(pc)	(mm ³)	1.69766E+08	1.71959E+08	1.73880E+08	1.75468E+08	1.76179E+08
	Soffit (b)	(mm)	744	744	744	744	744
	V/s	(mm)	132.66	131.37	130.25	129.31	128.87
Mass	(T/m)	1.960	2.078	2.195	2.314	2.373	
T3	Flange (B)	(mm)	1800	2000	2200	2400	2500
1200	Overall (D)	(mm)	1370	1370	1370	1370	1370
	Precast (d)	(mm)	1200	1200	1200	1200	1200
	Area	(mm ²)	800,520	845,780	891,040	936,640	959,440
	Ix	(mm ⁴)	1.85493E+11	1.92715E+11	1.99228E+11	2.05184E+11	2.07958E+11
	yb	(mm)	840	862	881	899	907
	Zt(deck)	(mm ³)	3.49987E+08	3.79360E+08	4.07419E+08	4.35635E+08	4.49153E+08
	Zt(pc)	(mm ³)	5.15258E+08	5.70163E+08	6.24539E+08	6.81674E+08	7.09754E+08
	Zb(pc)	(mm ³)	2.20825E+08	2.23567E+08	2.26138E+08	2.28236E+08	2.29281E+08
	Soffit (b)	(mm)	706	706	706	706	706
	V/s	(mm)	132.39	131.19	130.14	129.25	128.84
Mass	(T/m)	2.081	2.199	2.317	2.435	2.495	
T4	Flange (B)	(mm)	1800	2000	2200	2400	2500
1500	Overall (D)	(mm)	1670	1670	1670	1670	1670
	Precast (d)	(mm)	1500	1500	1500	1500	1500
	Area	(mm ²)	847,205	892,465	937,725	983,325	1,006,130
	Ix	(mm ⁴)	2.97787E+11	3.09264E+11	3.19656E+11	3.29191E+11	3.33642E+11
	yb	(mm)	1033	1059	1082	1104	1114
	Zt(deck)	(mm ³)	4.67484E+08	5.06160E+08	5.43633E+08	5.81610E+08	6.00076E+08
	Zt(pc)	(mm ³)	6.37660E+08	7.01279E+08	7.64727E+08	8.31290E+08	8.64358E+08
	Zb(pc)	(mm ³)	2.88274E+08	2.92034E+08	2.95431E+08	2.98180E+08	2.99499E+08
	Soffit (b)	(mm)	650	650	650	650	650
	V/s	(mm)	128.49	127.62	126.83	126.17	125.87
Mass	(T/m)	2.203	2.320	2.438	2.557	2.616	

