

# Calculation of Weight of Planters of Champlain Towers South

Planter	Length (ft)	Width (ft)	Length (m)	Width (m)	Area (m2)	Height (m)	Volume (m3)	Density	Weight inside (metric ton)	Weight inside (lb)	Weight walls (metric ton)	Weight walls (lb)
#1	6.00	7.10	1.83	2.16	3.96	1.0668	4.22	1	4.22	9,308		
Walls	20.20	0.86	6.16	0.26	1.61	1.0668	1.61	1.76			2.84	6,262
#2	35.00	2.15	10.67	0.66	6.99	0.6096	6.99	1	6.99	15,412		
Walls	65.70	0.86	20.03	0.26	5.25	0.6096	5.25	1.76			9.24	20,368
#3	5.36	5.39	1.63	1.64	2.68	1.0668	2.68	1	2.68	5,917		
Walls	21.50	0.86	6.55	0.26	1.72	1.0668	1.72	1.76			3.02	6,665
#4	5.36	5.39	1.63	1.64	2.68	1.0668	2.68	1	2.68	5,917		
Walls	21.50	0.86	6.55	0.26	1.72	1.0668	1.72	1.76			3.02	6,665
#5	31.07	2.15	9.47	0.66	6.21	0.6096	6.21	1	6.21	13,682		
Walls	57.84	0.86	17.63	0.26	4.62	0.6096	4.62	1.76			8.13	17,931
#6	5.36	5.39	1.63	1.64	2.68	1.0668	2.68	1	2.68	5,917		
Walls	21.50	0.86	6.55	0.26	1.72	1.0668	1.72	1.76			3.02	6,665
#7	5.36	5.39	1.63	1.64	2.68	1.0668	2.68	1	2.68	5,917		
Walls	21.50	0.86	6.55	0.26	1.72	1.0668	1.72	1.76			3.02	6,665
#8	5.36	5.39	1.63	1.64	2.68	1.0668	2.68	1	2.68	5,917		
Walls	21.50	0.86	6.55	0.26	1.72	1.0668	1.72	1.76			3.02	6,665
#9	5.36	5.39	1.63	1.64	2.68	1.0668	2.68	1	2.68	5,917		
Walls	21.50	0.86	6.55	0.26	1.72	1.0668	1.72	1.76			3.02	6,665
#10	41.48	2.15	12.64	0.66	8.29	0.6096	8.29	1	8.29	18,266		
Walls	78.66	0.86	23.98	0.26	6.28	0.6096	6.28	1.76			11.06	24,385
#11	5.36	5.39	1.63	1.64	2.68	1.0668	2.68	1	2.68	5,917		
Walls	21.50	0.86	6.55	0.26	1.72	1.0668	1.72	1.76			3.02	6,665
#12	53.64	3.43	16.35	1.05	17.09	0.6096	17.09	1	17.09	37,683		
Walls	107.28	0.86	32.70	0.26	8.57	0.6096	8.57	1.76			15.09	33,258
#13	24.20	3.43	7.38	1.05	7.71	0.6096	7.71	1	7.71	17,001		
Walls	48.40	0.86	14.75	0.26	3.87	0.6096	3.87	1.76			6.81	15,004
#14	8.58	11.14	2.62	3.40	8.88	0.6096	8.88	1	8.88	19,577		
Walls	36.01	0.86	10.98	0.26	2.88	0.6096	2.88	1.76			5.06	11,163
#15	8.58	11.17	2.62	3.40	8.90	0.6096	8.90	1	8.90	19,629		
Walls	36.07	0.86	10.99	0.26	2.88	0.6096	2.88	1.76			5.07	11,182
#16	19.31	3.43	5.89	1.05	6.15	0.6096	6.15	1	6.15	13,566		
Walls	38.62	0.86	11.77	0.26	3.09	0.6096	3.09	1.76			5.43	11,973
#17A	8.70	5.58	2.65	1.70	4.51	0.6096	4.51	1	4.51	9,943		
Walls	19.86	0.86	6.05	0.26	1.59	0.6096	1.59	1.76			2.79	6,157
#17B	5.06	4.56	1.54	1.39	2.14	0.6096	2.14	1	2.14	4,726		
Walls	9.12	0.86	2.78	0.26	0.73	0.6096	0.73	1.76			1.28	2,827
#18	32.84	3.70	10.01	1.13	11.29	0.6096	11.29	1	11.29	24,887		
Walls	65.68	0.86	20.02	0.26	5.25	0.6096	5.25	1.76			9.24	20,361
#19	8.70	10.30	2.65	3.14	8.33	0.6096	8.33	1	8.33	18,354		
Walls	20.18	0.86	6.15	0.26	1.61	0.6096	1.61	1.76			2.84	6,256
#20	33.80	3.70	10.30	1.13	11.62	0.6096	11.62	1	11.62	25,614		
Walls	67.60	0.86	20.60	0.26	5.40	0.6096	5.40	1.76			9.51	20,957
#21	8.70	10.30	2.65	3.14	8.33	0.6096	8.33	1	8.33	18,354		
Walls	20.18	0.86	6.15	0.26	1.61	0.6096	1.61	1.76			2.84	6,256
#22	35.17	3.70	10.72	1.13	12.09	0.6096	12.09	1	12.09	26,653		
Walls	70.34	0.86	21.44	0.26	5.62	0.6096	5.62	1.76			9.89	21,806
#23	8.70	10.30	2.65	3.14	8.33	0.6096	8.33	1	8.33	18,354		
Walls	20.18	0.86	6.15	0.26	1.61	0.6096	1.61	1.76			2.84	6,256
#24	57.30	3.70	17.47	1.13	19.70	0.6096	19.70	1	19.70	43,423		
Walls	114.60	0.86	34.93	0.26	9.16	0.6096	9.16	1.76			16.11	35,527

1 m3 of water with a density of 1 weighs 1 metric ton      180      395,851      147      324,586

Total Weight of Planters full of water (tons)      327

Total Weight of Planters full of water (lbs)      720,437

A Concrete Masonry Unit has a density of about 110 lb/ft3 or about 1.76