

Vastern Road: Tree Pit Soil Volume Requirements

Information was calculated using the Green Blue Urban rooting volume calculator. Tree size information was taken from Hilliers

This table should be read in conjunction with drawing BHOC.448.LA.103

Tree Tags	Tree Species	GreenBlue Urban Tree Size Category	Mature Canopy Diameter	Projected Mature Canopy Area	Target Volume	Target volume with 20% reduction	Provided Volume	Percentage volume achieved	Structural Soil Required
Proposed Tree Species (For group and individual calculations see below)									
-	Acer campestre 'Multistem'	Large	7	38	23.1	-	-	-	-
-	Betula pendula	Medium	5	20	11.8	-	-	-	-
-	Carpinus betulus	Medium	5	20	11.8	-	-	-	-
-	Carpinus betulus 'Frans Fontaine'	Small	2.5	5	2.9	-	-	-	-
-	Ginkgo biloba	Medium	5	20	11.8	-	-	-	-
-	Gleditsia triacanthos 'Skyline'	Medium	5	20	11.8	-	-	-	-
-	Liquidamber styraciflua	Medium	5	20	11.8	-	-	-	-
-	Platanus x hispanica	Large	8	50	30.2	-	-	-	-
-	Prunus sargentii 'Rancho'	Small	2	3	1.9	-	-	-	-
-	Quercus robur	Large	10	79	47.1	-	-	-	-
-	Sorbus aucuparia 'Asplenifolia'	Medium	4	13	7.5	-	-	-	-
-	Tilia cordata	Large	6	28	17.0	-	-	-	-
-	Ulmus 'New Horizon'	Medium	4	13	7.5	-	-	-	-

Groups of Trees (Allowing for a 20% reduction in rooting volume for grouped trees)									
TG1	2x Bp	-	-	-	23.6	18.8	40	212	-
TG2	2x Cb 'FF'	-	-	-	5.9	4.7	31	658	-
TG3	2x Cb 'FF', 1x Gb	-	-	-	17.7	14.1	55	389	-
TG4	3x Gt 'S'	-	-	-	35.3	28.3	38	134	-
TG5	1x Qr, 2x Sa 'A'	-	-	-	62.2	49.8	78	157	-
TG6	2x Gt 'S'	-	-	-	23.6	18.8	23	122	-
TG7	4x U 'NH'	-	-	-	30.2	24.1	72	298	-
TG8	3x Ls	-	-	-	35.3	28.3	19	103	10
TG9	2x Gt 'S'	-	-	-	23.6	18.8	13.5	101	5.5
TG10	4x Bp	-	-	-	47.1	37.7	50	133	-
TG11	1x La, 1x Pxx	-	-	-	41.9	33.6	28	173	30

Individual Trees									
T1	Carpinus betulus	Medium	5	20	11.8	-	18	153	-
T2	Carpinus betulus	Medium	5	20	11.8	-	20	170	-
T3	Tilia cordata	Large	6	28	17.0	-	30	177	-
T4	Acer campestre 'Multistem'	Large	7	38	23.1	-	18.5	80	-
T5	Quercus robur	Large	10	79	47.1	-	32	87	9
T6	Carpinus betulus	Medium	5	20	11.8	-	19	161	-
T7	Tilia cordata	Large	6	28	17.0	-	20	118	-
T8	Tilia cordata	Large	6	28	17.0	-	20	118	-
T9	Carpinus betulus 'Frans Fontaine'	Small	3	5	2.9	-	4	136	-
T10	Prunus sargentii 'Rancho'	Small	2	3	1.9	-	4	212	-
T11	Prunus sargentii 'Rancho'	Small	2	3	1.9	-	4	212	-
T12	Carpinus betulus 'Frans Fontaine'	Small	3	5	2.9	-	4	136	-
T13	Platanus x hispanica	Large	8	50	30.2	-	23	103	8
T14	Platanus x hispanica	Large	8	50	30.2	-	39	129	-
T15	Gleditsia triacanthos 'Skyline'	Medium	5	20	11.8	-	16.5	140	-
T16	Gleditsia triacanthos 'Skyline'	Medium	5	20	11.8	-	28	238	-
T17	Carpinus betulus 'Frans Fontaine'	Small	3	5	2.9	-	7.5	255	2
T18	Carpinus betulus 'Frans Fontaine'	Small	3	5	2.9	-	10.5	357	-
T19	Gleditsia triacanthos 'Skyline'	Medium	5	20	11.8	-	0	102	12
T20	Liquidamber styraciflua	Medium	5	20	11.8	-	0	102	12
T21	Ulmus 'New Horizon'	Medium	4	13	7.5	-	4.5	106	3.5
T22	Platanus x hispanica	Large	8	50	30.2	-	33	109	-
T23	Platanus x hispanica	Large	8	50	30.2	-	17.5	101	13
T24	Liquidamber styraciflua	Medium	5	20	11.8	-	4.5	106	8
T25	Liquidamber styraciflua	Medium	5	20	11.8	-	15	127	-
T26	Gleditsia triacanthos 'Skyline'	Medium	5	20	11.8	-	12	102	-
T27	Sorbus aucuparia 'Asplenifolia'	Medium	4	13	7.5	-	10	133	-