

Job Name: Haydon Drive
Job Number: M10029

Appendix: Urban Greening Factor Calculation

Introduction

This calculator should be used in conjunction with London Plan Guidance 'Urban Greening Factor', 2021.
The Urban Greening Factor (UGF) is a tool that evaluates and quantifies the urban greening proposed in new developments. The UGF works by assigning a factor score to each surface cover type proposed in a planning application. Scores range from 1 for semi natural vegetation, through to 0 for impermeable sealed surfaces.

Instructions

- Cells highlighted in green should be completed by the applicant;
- Green cover should be categorised in accordance with Appendix 1 of the UGF guidance;
- The notes column should be used to record any assumptions (e.g. how expected tree canopy has been calculated) and to set out which features (e.g. the type of semi-natural habitat) have been included in the appropriate row;
- The calculation table should be copied to UGF drawing to be submitted for planning;□
- The UGF should always be calculated on the total site area, equivalent to the red line boundary;
- Adjacent areas of land under the ownership or management of the applicant but not subject to the planning application must not be included; and
- Retained surface cover types should be included in the calculation.

Urban Greening Factor Calculator				
Surface Cover Type	Factor	Area (m²)	Contribution	Notes
Semi-natural vegetation (e.g. trees, woodland, species-rich grassland) maintained or established on site.	1	719	719	
Wetland or open water (semi-natural; not chlorinated) maintained or established on site.	1	0	0	
Intensive green roof or vegetation over structure. Substrate minimum settled depth of 150mm.	0.8	0	0	
Standard trees planted in connected tree pits with a minimum soil volume equivalent to at least two thirds of the projected canopy area of the mature tree.	0.8	1839.93	1471.944	
Extensive green roof with substrate of minimum settled depth of 80mm (or 60mm beneath vegetation blanket) – meets the requirements of GRO Code 2014.	0.7	314	219.8	
Flower-rich perennial planting.	0.7	267	186.9	
Rain gardens and other vegetated sustainable drainage elements.	0.7	0	0	
Hedges (line of mature shrubs one or two shrubs wide).	0.6	113	67.8	
Standard trees planted in pits with soil volumes less than two thirds of the projected canopy area of the mature tree.	0.6	0	0	
Green wall –modular system or climbers rooted in soil.	0.6	0	0	
Groundcover planting.	0.5	206	103	
Amenity grassland (species-poor, regularly mown lawn).	0.4	518	207.2	
Extensive green roof of sedum mat or other lightweight systems that do not meet GRO Code 2014.	0.3	0	0	
Water features (chlorinated) or unplanted detention basins.	0.2	0	0	
Permeable paving.	0.1	320	32	
Sealed surfaces (e.g. concrete, asphalt, waterproofing, stone).	0	2169	0	
Total contribution			3007.644	
Total site area (m²)			5797	
Urban Greening Factor			0.518827669	

Appendix: Existing and Proposed Tree Canopy Area

Existing tree ref.	Average canopy radius (m)	Canopy Area (sqm)
T1	5	78.54
T2	5	78.54
T3	5	78.54
T4	4.5	63.62
T5	5	78.54
T6	5	78.54
T7	3.5	38.48
T8	3.5	38.48 removed
G9	4.5	63.62
T10	6	113.1
G11	2	12.57
T12	2	12.57
T13	3	28.27
T14	3.5	38.48
T15	3	28.27 removed
T16	1.5	7.07 removed
T17	3	28.27
T18	3	28.27 removed
T19	4	50.27
T20	5	78.54
T21	2.5	19.63
T22	2	12.57
T23	3.5	38.48
T24	8	201.06
T25	1.5	7.07
T26	3.5	38.48
T27	3.5	38.48
T28	4	50.27
Total		1326.53

No. of new trees	Average canopy radius (m)	Canopy Area (sqm)
68	1.55	7.55
Total		513.4

Total existing and new tree canopy area	1839.93
---	---------