

## 05 Green Infrastructure

### Bio-Diversity Net Gain

Biodiversity Net Gain is defined in Baker et al (2019)<sup>1</sup> as:

“Development that leaves biodiversity in a better state than before”

The requirement for developments to seek to achieve BNG arises from the National Planning Policy

Framework (NPPF), which states in Para. 174 that:

“Planning policies and decisions should contribute to and enhance the natural and local environment by ... minimising impacts on and providing net gains for biodiversity.”

The BNG Score for Kneller Hall is 0.66%. F

further details can be found in the Ecological Enhancement Strategy which accompanies this application.



#### SOFT LANDSCAPE

	Approx. Area [m <sup>2</sup> ]
WILDFLOWER MEADOW	24176
ACID GRASSLAND	21441
AMENITY LAWN	20245.25
AMENITY GARDEN PLANTING	61.05
PLANTERS	407.62
FLOWERING LAWN	3488.54
BORDER PLANTING	331
GREEN ROOF	3057.73
GREEN WALL/ CLIMBING PLANTS	25
WETLAND SEED MIX	935

#### ECOLOGICAL ENHANCEMENT

- RETAINED ACID GRASSLAND
- INSECT BOXES
- BIRD BOXES
- BAT BOXES ON BUILDINGS
- BAT BOXES ON TREES
- LOG PILES FOR REPTILES

## 05 Green Infrastructure Urban Greening Factor

- + The UGF is set out in Policy G5 of the Draft New London Plan. It aims to increase green cover and be considered at the beginning of the design and planning for new buildings and developments.
- + The aim is for all new developments to gain a score of 0.3 or higher
- + The UGF score for Kneller Hall is 0.8

SURFACE COVER TYPE	FACTOR	TOTAL AREA (m <sup>2</sup> )	UGF
Semi-natural vegetation (e.g. trees woodland, species rich grassland) maintained or established on site	1	45617	45617
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	0	0
Extensive green roof with substrate minimum settled depth of 80mm (or 60mm beneath vegetation blanket) - meets the requirements of GRO Code 2014	0.7	3057.73	2140.411
Flower-rich perennial planting	0.7	3896.16	2727.312
Rain gardens or other vegetated sustainable drainage elements	0.7	935	654.5
Hedges (line of mature shrubs one or two shrubs wide)	0.6	322	193.2
Standard trees planted in pits with soil volumes less than two thirds of the projected canopy area of the mature tree	0.6	28764.15	17258.49
Green wall - modular system or climbers rooted in soil	0.6	25	15
Groundcover planting	0.5	61.05	30.525
Amenity grassland (species-poor, regularly mown lawn)	0.4	20245.25	8098.1
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	20	4
Permeable paving	0.1	7706.78	770.678
Sealed surfaces (e.g. concrete, asphalt, waterproofing, stone)	0.0	0	0

TOTAL	77509.216
TOTAL SITE AREA (m <sup>2</sup> )	97000
UGF SCORE	0.800

