

19 SUDS in Landscape

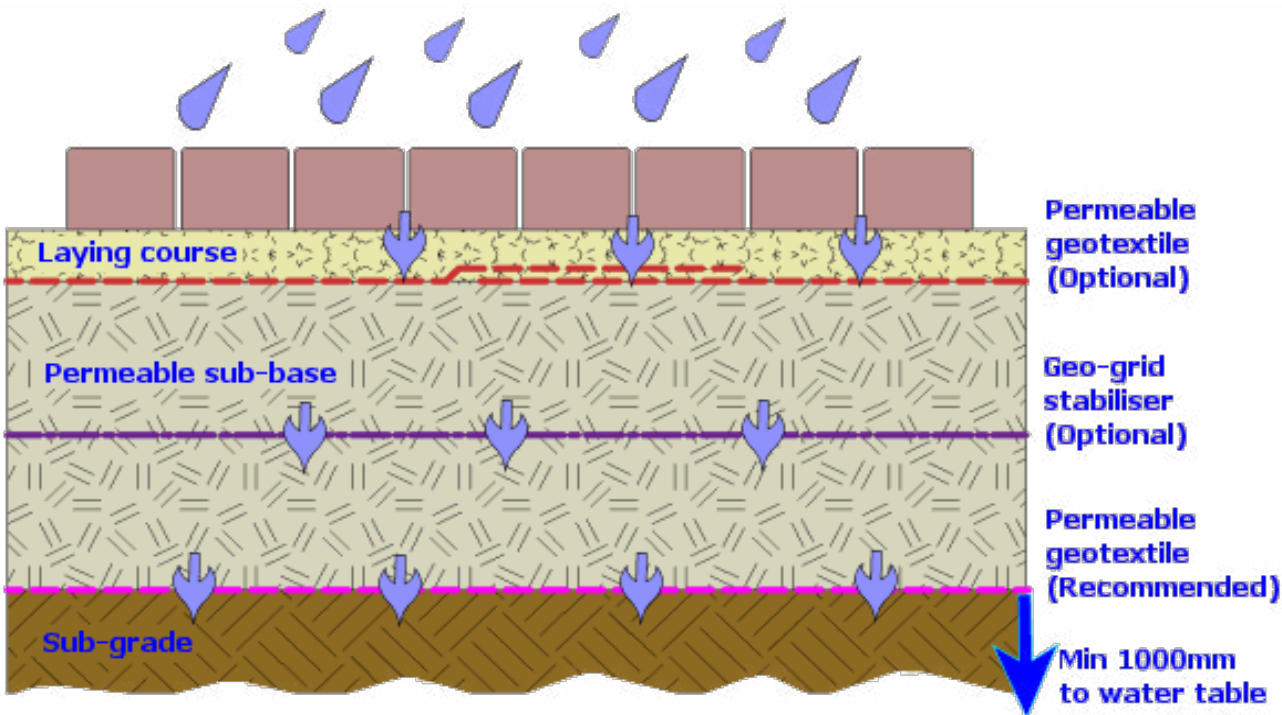
Sustainable Urban Drainage

The landscape proposals support sustainability as part of the wider SUDs strategy of the scheme (for more details please refer to Meinhardt Engineer's Report) by including permeable paving, rain garden systems for rain water infiltration, flood protection and planting irrigation.

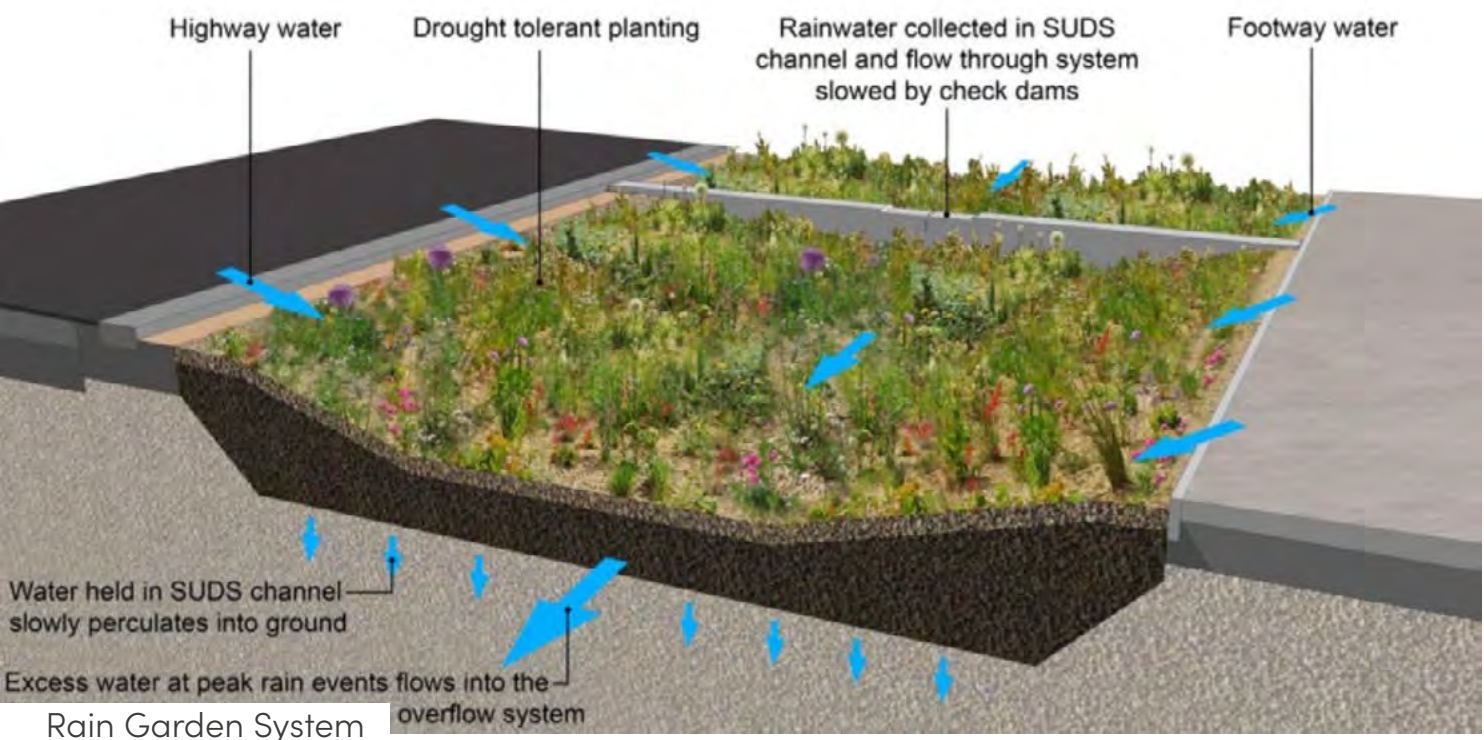
- 1. Attenuation tank
- 2. Rain gardens
- 3. Permeable paving



SUDs Location Plan



Permeable concrete paving



Rain Garden System

20 Urban Greening Factor

The Urban Greening Factor is a tool to evaluate the quality and quantity of urban greening. It enables major developments to demonstrate how they have included urban greening as a fundamental element of site and building design in order to meet to meet London Plan Policy G5 Urban Greening.

UGF scores should be set out in Local Plans.

Where Local Plans do not have UGF scores, the London Plan UGF scores of 0.4 for predominately residential should be applied.

UGF target scores should be considered the minimum benchmark not the maximum required.

The UGF score for Brunel Walk is 0.527 exceeding the required Urban Greening Factor of 0.4 and has been calculated as follows:

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	1590	1589.625	Based on 25 existing trees within the Red Line Boundary with an average spread of 9m
Wetland or open water (semi-natural; not chlorinated) maintained or established on site.	1		0	
Intensive green roof or vegetation over structure. Substrate minimum settled depth of 150mm.	0.8		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	3416	2733.056	Based on 68 proposed trees with an average eventual spread of 8m
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	1076	753.2	
Flower-rich perennial planting.	0.7	491	343.7	Wildflower planting
Rain gardens and other vegetated sustainable drainage elements.	0.7	175	122.5	
Hedges (line of mature shrubs one or two shrubs wide).	0.6	2130	1278	
Standard trees planted in pits with soil volumes less than two thirds of the projected canopy area of the mature tree.	0.6		0	
Green wall –modular system or climbers rooted in soil.	0.6		0	
Groundcover planting.	0.5		0	
Amenity grassland (species-poor, regularly mown lawn).	0.4	4139	1655.6	
Extensive green roof of sedum mat or other lightweight systems that do not meet GRO Code 2014.	0.3		0	
Water features (chlorinated) or unplanted detention basins.	0.2		0	
Permeable paving.	0.1	3,088	308.8	
Sealed surfaces (e.g. concrete, asphalt, waterproofing, stone).		SS		
Total contribution			8784.481	
Total site area (m²)				14,618
Urban Greening Factor				0.600935901

Brunel Walk and Turner Avenue Urban Greening Factor Plan

