

## Green Roof 17 Parliament Hill

Recommendation-

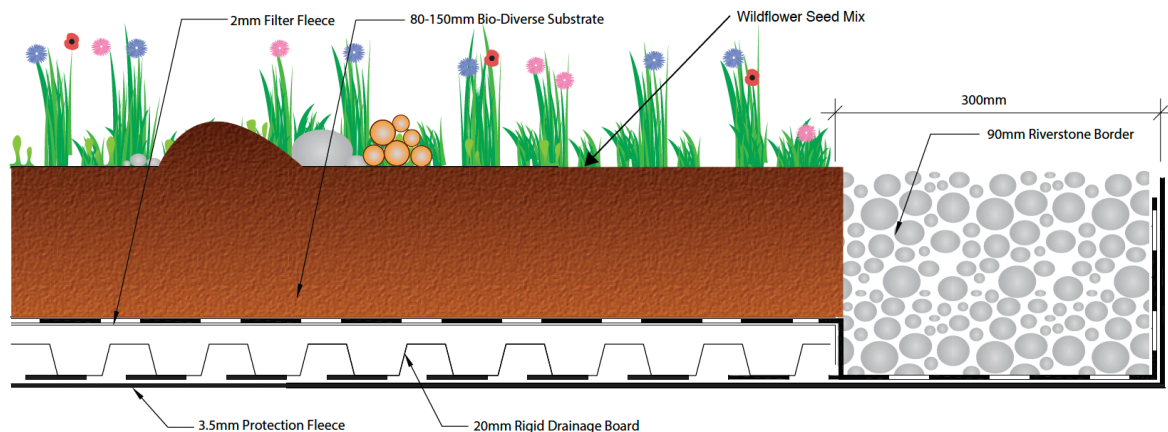
Skygarden

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Information taken from 21 Parliament Hill

### Sectional Build Up



- Biodiverse Substrate
  - Material: 80:20 crushed red brick low nutrient, free draining root zone
  - Depth: Contoured between 70-150mm
- Biodiverse Seed Mix
  - Planting Mix: 38 species
  - 3gms/m<sup>2</sup> - Biodiverse seed
  - Rock and log piles on sand bases
  - 1 pile per 50m<sup>2</sup>

### Maintenance Care Plan

- Green roofs are low-maintenance, not no maintenance.
- Irrigation:
  - o green roof will need thorough saturation following installation
  - o immature systems will require a supplementary irrigation system to be available for the first 12 months
  - o blanket systems may need supplementary watering during periods of drought (especially for first 2 years post installation)
- Aftercare:
  - o A two-visit inspection and remedial package for year 1 maintenance (unless longer agreed) to manage the roof establishment period. Aftercare program should not cover watering but should cater for commissioning and de-commissioning of the irrigation system.
  - o Checks on system and drainage/removal of invasive and unwanted plants to be included
  - o Remedial aftercare to cover failure of the green roof to establish under certain criteria but not damage caused by other services (birds, theft, vandalism, extreme weather)

### Types of Green Roof

- Extensive Sedum Roofs
  - o Grown in a shallow layer of lightweight, low nutrient growing media.

- Recommended biannual visits to clear any weed infestation and apply fertiliser in early spring
- Drainage outlets and inspection chambers cleared of vegetation
- Sedum roofs should maintain their lush and healthy sedum coverage
- Infestations of grass and other weeds will soon die off due to insufficient substrate depth
- Typical total depth of the green roof would be **85-100mm**
  - **12-20mm drainage layer and 70mm of substrate**
  - Saturated weight of approximately **86-100kg per sqm**



- Extensive Biodiverse Green Roof

- Low maintenance and once established they will not require additional irrigation
- Wider variation of succulents, wildflowers, alpine etc.
- Depth of the biodiverse roof could vary between **92-170mm**
- Saturated weight of approx. **115-215kg per sqm** depending upon the depths of the substrate.

