



Landmark Trees

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## **GREEN ROOF SPECIFICATION & MAINTENANCE SCHEDULE**

**SITE: HEATH HOUSE, NORTH END WAY, LONDON NW3 7AT**

**PLANNING REF: 2008/0661/P**

**OUR REF: ADR/HTH/GRS/01**

**DATE: 24/11/11**

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**Web:** [www.landmarktrees.co.uk](http://www.landmarktrees.co.uk)  
**e-mail:** [info@landmarktrees.co.uk](mailto:info@landmarktrees.co.uk)  
**Tel:** 0207 851 4544



**London Office:** 20 Broadwick Street, London, W1F 8HT

**Registered Office:** Grange Cottage, All Cannings, Devizes, Wiltshire, SN10 3NR

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## ACID SOILS MEADOW MIX

### NV12Flowers species

- *Achillea millefolium* - Yarrow 2.5%
- *Centaurea nigra* - Common Knapweed 11%
- *Digitalis purpurea* - Wild Foxglove 5%
- *Galium verum* - Lady's Bedstraw 11%
- *Hypochaeris radicata* - Common Catsear 1%
- *Leontodon autumnalis* - Autumn Hawkbit 2%
- *Leucanthemum vulgare* - Oxeye Daisy 7%
- *Lotus corniculatus* - Birdsfoot Trefoil 3%
- *Lychnis flos-cuculi* - Ragged Robin 3%
- *Plantago lanceolata* - Ribwort Plantain 3%
- *Primula veris* - Cowslip 1.5%
- *Ranunculus acris* - Meadow Buttercup 11%
- *Rhinanthus minor* - Yellow Rattle 10.5%
- *Rumex acetosa* - Common Sorrel 10%
- *Rumex acetosella* - Sheep's Sorrel 10.5%
- *Stachys officinalis* - Betony 3%
- *Teucrium scorodonia* - Wood Sage 2.5%
- *Vicia cracca* - Tufted Vetch 2.5%

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## NV Grass species

- *Agrostis capillaris* - Common Bent 5%
- *Cynosurus cristatus* - Crested Dogstail 15%
- *Festuca ovina* - Sheep's Fescue 20%
- *Festuca rubra* ssp. *litoralis* - Slender Creeping Red Fescue 20%
- *Festuca rubra* ssp. *rubra* - Strong Creeping Red Fescue 20%
- *Poa pratensis* - Smooth Stalked Meadow Grass 20%.

## Sowing Rate:

5g per square metre, 20Kg per acre, 50Kg per hectare. Soil to be supplied from site or compatible acid source. The NV12 mix is suited to acidic soils, down to a pH value of about 5.

## Description:

A mix of 18 native wildflower species (NV12Flowers) and 6 species of grass (NVGrass).

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## ESTABLISHMENT

### 1. Seed

#### 1.1 Seed supply to conform to BS3936.

The specification is for a low maintenance mix that is naturally low growing. The fine grasses used are very tolerant of dry, infertile conditions, which reduces the need for additional applications of water and fertiliser. This mixture if left uncut for most of the year will provide attractive seed heads.

### 2. Preparation

2.1 The seed should be sown either in spring or autumn. On this site, autumn is slightly preferred, but the date will be subject to the completion of construction. Whatever time is chosen, the soil needs to be damp and the weather outlook not too hot or dry, nor heavy rain forecast. Sow at above rate.

2.2 The top soil needs to be prepared to give a fine, workable soil to a depth of at least 10 to 12 cm. When digging, work backwards so as not to push down the soil just broken-up. Rake over the area to level it, removing any vegetation and stones/rubbish, which appears. Leave the area to settle for a week.

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- 2.3 If numerous of weeds or unwanted vegetation appear in the week, consider using a non-residual herbicide to kill them off. Carefully follow the instructions and leave the soil for the recommended period before proceeding. Rake over the area again and remove any more vegetation and stones/rubbish, which appears. Pack / tread down the entire area. Remove humps and dips, with a light raking and repeat treading down.

### **3. Sowing**

- 3.1 Sow the mix on a wind free day, giving the area a final raking just beforehand. Divide the quantity of seeds into two. Sow one covering of seeds while walking in one direction, and the second sowing while walking at right-angles to the first covering. Lightly rake the seed into the top of the soil, as not to cover all the seed, but trying to cover about half.

### **4. After care**

- 4.1 Grass seed should germinate and show within 7 to 21 days depending upon the weather, do not walk on it during this period. If a dry period occurs in this period, use a gentle watering technique (sprinkler or hose with a fine spray attachment pointed skywards) to keep the top of the soil moist. If possible, protect the area from birds: chicken wire is ideal. When the grass is about 1 inch (2.5 cm) high, gently pack/ tread the area in the same way as was done before the grass seed was sown. Cut once annually in late summer / autumn, after flowering of the grasses or as necessary.

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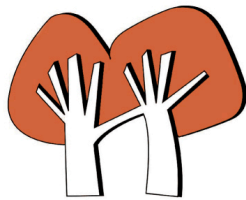
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## 5-YEAR MAINTENANCE PERIOD

The roof will have a fully developed care programme provided by the contractor and all subsequent works and inspections will form a permanent care manual. The annual programme of works will include:

- Maintenance of annual mowing cycle (as per paragraph 4.1 above).
- Inspection by experienced personnel at minimum twice-yearly intervals, usually during Spring and Autumn.
- Monthly maintenance visits for April-December.
- Removal of all debris and leaves to roofs and gutters
- Inspection report and repair to all visible waterproofing of any type to include flashings, copings, roof lighting systems and downpipes & gutters.
- Survey of roof drainage systems.
- Survey of all plant and equipment reporting on any conditions that may have a derogatory effect on the planting or roof integrity.
- Careful removal of all invasive planting and tree saplings.
- Replacement of failed areas or complete extensive roofs with species in current specification (acid grass mix).
- Reinstallation or repair of any unsecured pedestrian walkway surfaces such as paving and timber decking.
- Examination and the restitution of gravel margins to ensure their continuation as a plant ingress and fire barrier.
- The application of appropriate fertilisers to ensure full development of the planted species. The design and supply of irrigation systems.

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