

Green Roof Plan- PHD Associates

Pre-Start Condition No.11

'Prior to commencement of development full details of all living roofs (indicated as green roofs on the permitted plans) to be incorporated into the development shall be submitted to and approved in writing by the local planning authority, in line with recommendations for structural and species diversity in the submitted Ecology Statement.'

SITE NAME 52 Holmes Road

London, NW5 3AA

DATE : 06/06/2018



PHD Associates

June 2018

**UNIT 3,
1-4 Christina Street
LONDON EC2A 4PA**

**Telephone:
01279 817342**

**E-mail:
info@phdassociates.co.uk
www.phdassociates.co.uk**

1. SITE DESCRIPTION

The development site is located in the London Borough of Camden, Greater London. It is a rectangular in shape and it has an area of 0.0333ha (333m²) located within a mixed residential and industrial area.

2. EXISTING HABITATS

The site comprised the following habitats:

- Building; and
- Hardstanding

Building

The existing building is a two storey light industrial unit of brick construction with a flat roof. This habitat is deemed to have low ecological value.

Hardstanding

An expanse of block paving is situated at the front of the building in the north and the south of the site and forms a car parking area. This habitat is deemed to have no ecological value.

3. PROPOSED HABITATS

- Green Roofs

Green Roofs

The green roof will not only provide visual enhancement to the built environment but also help to provide habitats for invertebrates which in turn will provide foraging opportunities for birds and bats.

A green roof strategy is to be implemented on the roof of the 1st and 5th floors, with an overall area 31sqm. A variety of plant types will be chosen to provide diverse green space for wildlife habitats and it will allow continuity of green space through urban environments.

Green Roof Wildlife Features

The Bauder XF118 Wildflower Blanket will be implemented onto the green roof. There will be 24 native species of wildflowers and herbs incorporated into the blanket to provide viable and diverse plant community. In order to enhance the value and suitability for invertebrates the green roof will be complimented by:

- Log piles and other deadwood: Logs will vary in size between 100mm, 500mm and 1000mm in length , stacked no more than 350mm high
- Sand and shale mounds: incorporate graded shingle, ordinary sharp sand and builders ballast into substrate elements to create raised mounds of varying height. Avoid fine sand on exposed sites.
- Gravel, stones and rocks: Incorporate these surface features across the roof area. Stones should be no greater than 100-150mm and boulders should be grouped together of sizes 400-600mm.

Creating such structural diversity can help to provide the basics that wildlife need including food, shelter and somewhere to breed.

WILDFLOWER BLANKET XFI 18

Xero Flor XFI 18 wildflower blanket has been developed to meet the growing demand for a native species vegetation blanket to satisfy the requirements of both BREEAM and Sustainable Homes codes. The product utilises the technology and much of the experience that we have gained over the last 15 years in growing and installing sedum-vegetated blankets, and as a result shares many of the benefits of these proven products.

The 24 species of wildflowers and herbs incorporated into the blanket have been selected to provide a viable and vibrant plant community whilst also delivering a range of native species that will be present on most of the biodiversity action plan lists that project-specific ecology reports now demand.

The unique blanket carrier incorporates a polypropylene mesh stitched to a permeable geotextile membrane, which ensures minimum compaction of the blanket substrate whilst allowing the vigorous root growth of the wildflowers to quickly establish into the substrate installed underneath.

Whilst the XFI 18 wildflower blanket is always installed as part of an extensive, substrate-based green roof system, the weight of the build-up and its establishment and ongoing maintenance requirements are amongst the lowest for this type of system.

KEY FEATURES

- Lightweight green roof system, making it ideal for retrofitting on a building or on new build construction.
- Effective solution where BREEAM and Sustainable Homes codes require a biodiversity strategy
- Delivers instant greening of a roof with native species wildflower plants
- Cost effective
- Cradle-to-Cradle certification
- Vegetation blankets are cultivated by Bauder and delivered to site within 24 hours of harvesting

Key to the success of the Bauder XFI 18 Wildflower Blanket is whether it is being specified to support the ecology or if its visual appearance will be the primary requirement. If the former is required then a basic level of irrigation and maintenance after installation will be sufficient, and if the latter then a greater level of maintenance and irrigation will be of much assistance in achieving the desired effect.

For further information on the Bauder XFI 18 Wildflower Blanket please see the Bauder Green Roof Vegetation Installation Guide and the Bauder Extensive Green Roof Maintenance Guide, both of which can be found at www.bauder.co.uk.





XFI 18 WILDFLOWER INDICATIVE SPECIES LIST

Botanical Name	Height	Blossom	Flowering Season
<i>Achillea millefolium</i>	8-40 cm	White	June-August
<i>Armeria maritima</i>	5-20 cm	Pink	April-October
<i>Bellis perennis</i>	3-12c m	White / Yellow	March-October
<i>Campanula glomerata</i>	3-30 cm	Blue	June-October
<i>Campanula rotundifolia</i>	15 cm	Blue	July-September
<i>Centaurea cyanus</i>	20-50 cm	Blue	June-August
<i>Centaureum erythraea</i>	10-40 cm	Pink	July-August
<i>Dianthus deltoides</i>	15-30 cm	Pink	April-October
<i>Echium vulgare</i>	30-60 cm	Blue	June-September
<i>Galium verum</i>	15-60 cm	Yellow	July-August
<i>Geum rivale</i>	20-40 cm	Pink	April-August
<i>Linaria vulgaris</i>	20-40 cm	Yellow	July-September
<i>Lotus corniculatus</i>	10-20 cm	Yellow	June-September
<i>Lychnis flos-cu-culi</i>	50-60 cm	Pink	May-August
<i>Papaver rhoeas</i>	20-60 cm	Red	June-August
<i>Pilosella aurantiaca</i>	20-60 cm	Orange	July-October
<i>Prunella vulgaris</i>	5-20 cm	Purple	June-October
<i>Rhianthos minor</i>	30-50 cm	Yellow	May-August
<i>Saponaria officianalis</i>	20-40 cm	Light Pink	July-September
<i>Scabiosa columbaria</i>	15-50 cm	Blue	July-October
<i>Sedum acre</i>	5-10 cm	White / Yellow	July-August
<i>Silene uniflora</i>	8-25cm	White	June-August
<i>Silene vulgaris</i>	25-50 cm	White	June-August
<i>Thymus polytricus</i>	4-10 cm	Mauve	May-August

