

Green Roof Technology

Bringing Nature into the Built Environment

Traditional methods



Sedum

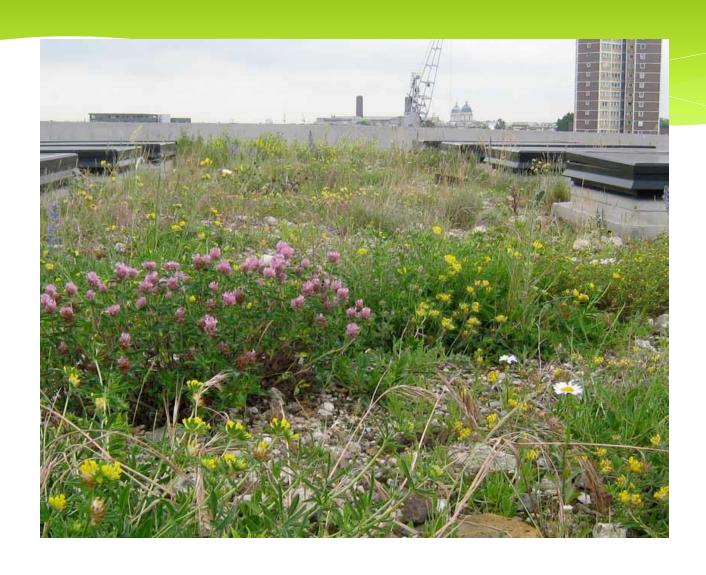
- * Drought resistant regulates water flow
- * Provide nectar in June & July
- * Can help to initiate a native wildflower habitat



Living Walls



Wild Flower Roofs



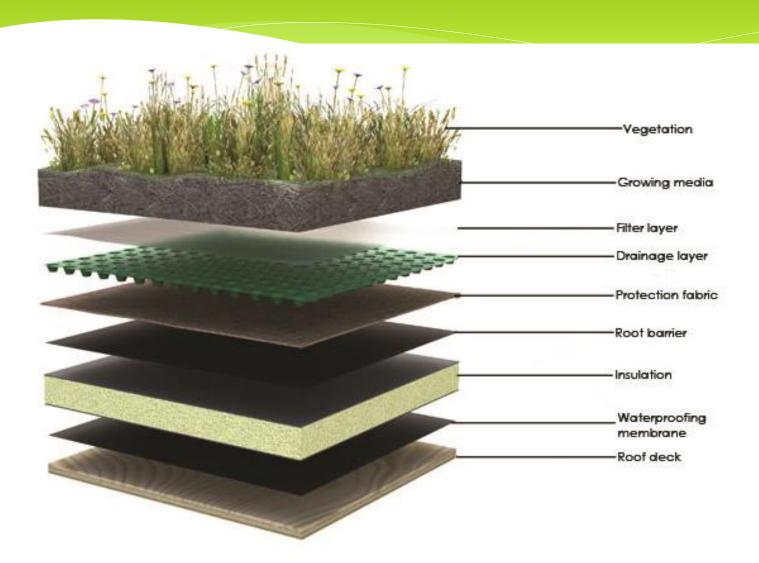
Wild Flower Roofs

- Providing habitat at roof level, especially within urban areas, can have significant benefits for wildlife, notably invertebrates and birds
- Bug Life supporting as best practice due to richness of nectar sources
- * Appropriately designed biodiverse roofs can support Local, Regional and National BAP objectives, and contribute to mitigation plans.

Replacement Habitat

- * Brown field sites provide a nutrient poor habitat mosaic important to rare invertebrate species
- * Green roofs can closely replicate habitat and mitigate for brown field site loss
- * Using local substrate supports local native species of flowering plants and their dependant animal species

Construction



Practical Application

- Integrated into the London Plan Policy
- * Supported by key national policies and organisations
- * Complements PV installations





Economic Value

- * Provides ecosystem services
- * Lower energy bills
- * Lower water bills
- * Lower maintenance bills
- Attracts attention providing advertising and expression of the ethicality of a business
- * Provides greater planning opportunities
- * Between £60 -£140 per m²

Sustainable Drainage

- Retention of water in the substrate reduces and slows run off
- * Can help reduce flooding and local drainage issues
- Improving water quality through filtration providing high quality water for use in toilets, irrigation and cleaning

Improved building performance

- Increasing the life span of the roof by protecting it from frost, high temperatures, UV and mechanical damage
- Reducing energy consumption by reducing the need for heating and cooling through temperature stability
- Reduces noise impacts

Climate change

- Vegetation on a roof removes carbon from the atmosphere as part of photosynthesis and releases oxygen;
- Evapo-transpiration can reduce the urban heat island effect (caused by the absorption and re-radiation of heat from dense and dark building materials).

Amenity

Roofs can provide areas for recreation and

relaxation

 Roofs can be aesthetically pleasing therefore limiting opposition of local people to new builds

Provides a tourist attraction



Smaller spaces





Larger Plans Chicago City Hall



Canon Street Station London



Local projects

- * Otter Brewery
- * Salty Monk created by themselves
- * Darts Farm







Promotion

- Newspaper articles
- * Speakers from experience and trade
- Inspire through a visual display
- Approach EDDC and planning
- * Aim to influence commercial and new build projects