Planning Application - 2016/5917/P 27 Marquis Road (revised)

Details of Green Roof on Shed at 27 Marquis Road

Design Objectives

The design objective is to increase the area of green space in my garden and the surrounding area. Aesthetically a green roof will be more visually pleasing than just roofing felt or EPDM. Also it should absorb more moisture and pollution than plain solid roofing. It will act as a natural insulation for the shed – keeping it warmer in winter and cooler in summer – saving on heating/cooling bills.

Construction of Green Roof

The green roof will be constructed as in the revised roof plan – drawing no 10 abd drawing no 12 – a cross section of the shed.. I also include a cross section of the roof layer – drawing 11.

The green roof will have a plywood base on top of which I will glue a water-proof EPDM layer – 1.5mm thigck . For safety on top of that I will then place a root barrier to prevent roots damaging the surface of the roof - a belt and braces approach. On top of that I would place a drainage board that will prevent the roof becoming waterlogged. The drainage board will also have small water reservoirs to help keep the roof damp during dry weather. The drainage board I will use is the oldroyd xv20 green drainage board. It is composed of 49 percent recycled materials. This is their web site.

http://www.safeguardeurope.com/products/cavity-drainage/oldroyd-green-range#product-information

On top of that I will place a polypropylene filter fleece to prevent substrate and/or plant matter blocking the drainage channels. On top of that I will place substrate.

The substrate I will use is called Boughton Ex 1. It is composed entirely of recycled materials. This is their web site.

http://www.boughton.co.uk/green-roof-substrates/boughton-ex-1/

I will lay 10cm of substrate on top of which I will place a wild flower turf.

The wild flower turf I will use is Wildflower Turf’s shade tolerant turf as the surrounding trees throw the roof into shadow for a fair proportion of the day.

Planting Details

As I say the wild flower turf that I will use is Wild flower Turf’s shade tolerant turf.

Here is their website

<http://www.wildflowerturf.co.uk/Products/wildflower-shade-tolerant-turf.aspx>

Their plant mix is…

## Species Mix

### Grasses

|  |  |  |
| --- | --- | --- |
| **Sheep’s Fescue** (Festuca ovina) | **Crested Dogstail** (Cynosurus cristatus) | **Yellow Oatgrass** (Trisetum flavescens) |

### Flora

|  |  |  |
| --- | --- | --- |
| **Autumn Hawkbit** (Scorzoneroides autumnalis) | [**Betony**](http://www.wildflowerturf.co.uk/Products/wildflower-shade-tolerant-turf.aspx) (Stachys officinalis) | [**Birdsfoot Trefoil**](http://www.wildflowerturf.co.uk/Products/wildflower-shade-tolerant-turf.aspx) (Lotus corniculatus) |
| [**Cats Ear**](http://www.wildflowerturf.co.uk/Products/wildflower-shade-tolerant-turf.aspx) (Hypochaeris radicata) | [**Common Knapweed**](http://www.wildflowerturf.co.uk/Products/wildflower-shade-tolerant-turf.aspx) (Centaurea nigra) | **Common Sorrel** (Rumex acetosa) |
| [**Common Toadflax**](http://www.wildflowerturf.co.uk/Products/wildflower-shade-tolerant-turf.aspx) (Linaria vulgaris) | [**Common Vetch**](http://www.wildflowerturf.co.uk/Products/wildflower-shade-tolerant-turf.aspx) (Vicia sativa ssp. segetalis) | [**Cowslip**](http://www.wildflowerturf.co.uk/Products/wildflower-shade-tolerant-turf.aspx) (Primula veris) |
| **Dames Violet** (Hesperis matronalis) | [**Field Scabious**](http://www.wildflowerturf.co.uk/Products/wildflower-shade-tolerant-turf.aspx) (Knautia arvensis) | [**Lady's Bedstraw**](http://www.wildflowerturf.co.uk/Products/wildflower-shade-tolerant-turf.aspx) (Galium verum) |
| [**Kidney Vetch**](http://www.wildflowerturf.co.uk/Products/wildflower-shade-tolerant-turf.aspx) (Anthyllis vulneraria) | [**Meadow Buttercup**](http://www.wildflowerturf.co.uk/Products/wildflower-shade-tolerant-turf.aspx) (Ranunculus acris) | [**Meadow Cranesbill**](http://www.wildflowerturf.co.uk/Products/wildflower-shade-tolerant-turf.aspx) (Geranium pratense) |
| [**Meadow Vetchling**](http://www.wildflowerturf.co.uk/Products/wildflower-shade-tolerant-turf.aspx) (Lathyrus pratensis) | **Meadowsweet** (Filipendula ulmaria) | [**Musk Mallow**](http://www.wildflowerturf.co.uk/Products/wildflower-shade-tolerant-turf.aspx) (Malva moschata) |
| [**Ox Eye Daisy**](http://www.wildflowerturf.co.uk/Products/wildflower-shade-tolerant-turf.aspx) (Leucanthemum vulgare) | **Pepper Saxifrage** (Silaum silaus) | [**Ragged Robin**](http://www.wildflowerturf.co.uk/Products/wildflower-shade-tolerant-turf.aspx) (Lychnis flos-cuculi) |
| [**Red Campion**](http://www.wildflowerturf.co.uk/Products/wildflower-shade-tolerant-turf.aspx) (Silene dioica) | **Ribwort Plantain** (Plantago lanceolata) | [**Rough Hawkbit**](http://www.wildflowerturf.co.uk/Products/wildflower-shade-tolerant-turf.aspx) (Leontodon hispidus) |
| **Sainfoin** (Onobrychis vicifolia) | [**Salad Burnet**](http://www.wildflowerturf.co.uk/Products/wildflower-shade-tolerant-turf.aspx) (Sanguisorba minor) | [**Self-heal**](http://www.wildflowerturf.co.uk/Products/wildflower-shade-tolerant-turf.aspx) (Prunella vulgaris) |
| **Spiny Restharrow** (Ononis spinosa) | [**St Johns Wort**](http://www.wildflowerturf.co.uk/Products/wildflower-shade-tolerant-turf.aspx) (Hypericum perforatum) | [**Tufted Vetch**](http://www.wildflowerturf.co.uk/Products/wildflower-shade-tolerant-turf.aspx) (Vicia cracca) |
| [**White Campion**](http://www.wildflowerturf.co.uk/Products/wildflower-shade-tolerant-turf.aspx) (Silene latifolia) | [**Wild Carrot**](http://www.wildflowerturf.co.uk/Products/wildflower-shade-tolerant-turf.aspx) (Daucus carota) | [**Wild Marjoram**](http://www.wildflowerturf.co.uk/Products/wildflower-shade-tolerant-turf.aspx) (Origanum vulgare) |
| [**Wild Mignonette**](http://www.wildflowerturf.co.uk/Products/wildflower-shade-tolerant-turf.aspx) (Reseda lutea) | [**Wild Red Clover**](http://www.wildflowerturf.co.uk/Products/wildflower-shade-tolerant-turf.aspx) (Trifolium pratense) | [**Wood sage**](http://www.wildflowerturf.co.uk/Products/wildflower-shade-tolerant-turf.aspx) (Teucrium scorodonia) |
| [**Yarrow**](http://www.wildflowerturf.co.uk/Products/wildflower-shade-tolerant-turf.aspx) (Achillea millefolium) | [**Yellow Rattle**](http://www.wildflowerturf.co.uk/Products/wildflower-shade-tolerant-turf.aspx) (Rhinanthus minor) |  |

Maintenance of Roof

As I will be using a drainage board with water reservoirs I will only need to water the roof after it’s initial installation and in times of drought. This I will do with a hose.

The wildflower turf will need cutting twice a year. Once at the end of June and once in the winter. I will do this using a garden strimmer and remove and compost all the clippings.