

NOTE I. - EXTENSIVE BIODIVERSE GREEN ROOF

1. Roof structure, waterproofing and protection to be specified by engineer.
2. Drainage layer - 25mm deep-water retaining drainage layer manufactured out of either recycled polypropylene or polystyrene. Profiles to permit excess water to drain in any direction beneath, with a minimum flow rate of 0.3l/m²/sec. Boards to be close butted to form a continuous drainage layer over the deck.
3. Filter Sheet - Specified filter fleece type 200, better suited for extensive green roofs, roll out filter sheet over the drainage layer. Laps to be minimum 100mm. Filter sheet to be taken up around all up stands, protrusions etc. to substrate surface level.
4. Main substrate: Extensive crushed brick substrate, consisting of 80% crushed clay brick and 20% organic matter (locally sourced Green waste), to be installed at a depth of 150mm, but taking into account compaction rates associated with the substrate supplied by the contractor. Assuming a 15% compaction rate, laid depths will be 175mm (for a finished depth of 150mm). Estimated pH value of 8.4. Estimated weight of 130kg per sqm at 150mm deep when dry, 216kg per sqm at 150mm deep when fully saturated.
5. Seed - The seed mix for the substrate will consist of all the wildflowers listed in the table below. These will be sourced from certified native seed stock such as from Emorsgate (or alternative approved by the green roof consultant) and be hydro-seeded at a rate of 2g/m².

Wildflower seed list for main substrate

Agrimony (*Agrimonia eupatoria*), Kidney Vetch (*Anthyllus vulneraria*), Common Knawweed (*Centaurea nigra*), Wild basil (*Clinopodium vulgare*), Viper's-bugloss (*Echium vulgare*), Lady's Bedstraw (*Galium verum*), Perforate St John's-wort (*Hypericum perforatum*), Field Scabious (*Knautia arvensis*), Autumn Hawkbit (*Leontodon autumnalis*), Rough Hawkbit (*Leontodon hispidus*), Oxeye Daisy (*Leucanthemum vulgare*), Common Toadflax (*Linaria vulgaris*), Bird's-foot-trefoil (*Lotus corniculatus*), Musk-mallow (*Malva moschata*), Wild Marjoram (*Origanum vulgare*), Hoary Plantain (*Plantago media*), Cowslip (*Primula veris*), Selfheal (*Prunella vulgaris*), Meadow Buttercup (*Ranunculus acris*), Bulbous Buttercup (*Ranunculus bulbosus*), Wild Mignonette (*Reseda lutea*), Salad Burnet (*Poterium sanguisorba*), Bladder Campion (*Silene vulgaris*)

Plug-planted sedum list for main substrate

White stonecrop (*Sedum album*), Biting stonecrop (*Sedum acre*), White stonecrop (*Sedum anglicum*)

Plug-planted wildflower list for main substrate

Kidney Vetch (*Anthyllus vulneraria*), Oxeye Daisy (*Leucanthemum vulgare*), Bird's-foot-trefoil (*Lotus corniculatus*), Bulbous Buttercup (*Ranunculus bulbosus*), Salad Burnet (*Sanguisorba minor*), Autumn Hawkbit (*Leontodon autumnalis*), Viper's-bugloss (*Echium vulgare*), Rough Hawkbit (*Leontodon hispidus*), Common Toadflax (*Linaria vulgaris*), Musk-mallow (*Malva moschata*), Hoary Plantain (*Plantago media*), Selfheal (*Prunella vulgaris*), Meadow Buttercup (*Ranunculus acris*), Wild Mignonette (*Reseda lutea*), Bladder Campion (*Silene vulgaris*), Hare's Foot Clover (*Tritolium arvense*)

NOTE II. - SEDUM MINIMUM MAINTENANCE GREEN ROOF

EnviroMat - Species

White Stone Crop (*Sedum album*), Stonecrop-Russian (*Sedum kamtschaticum*), Widow's Cross (*Sedum pulchellum*), Sedum Reflexum (*Sedum reflexum*), Caucasian Stonecrop (*Sedum spurium*), Tasteless Stonecrop (*Sedum sexangulare*), Golden Stonecrop (*Sedum acre*)

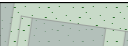


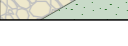
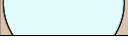

Sedum - Plugs

White Stone Crop (*Sedum album*), Biting Stonecrop (*Sedum acre*), Corsican stonecrop (*Sedum dasyphyllum*), Spanish Stonecrop (*Sedum hispanicum*), Stone opine (*Sedum rupestre*)

NOTES

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8. All works carried out in accordance with the latest British Standards and appropriate codes of practice as a minimum.

KEY

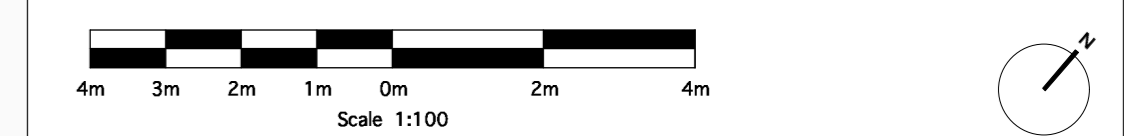
-  Photovoltaics (PV) panels
See Max Fordham information
-  Architectural coping
-  River Pebble / Duck Stone Surface As Ground Cover
Rounded stones nominal 70mm - 30mm
-  Skylight
-  Extensive biodiverse green roof (Note I.)
-  Sedum minimum maintenance green roof (Note II.)

All green roofs include ManSafe System for maintenance.



Revisions

Rev:	Date:	Description:	Revised by:	Checked by:



PLANNING
FITZJOHNS AVENUE
 PEGASUS LIFE

General Arrangement Roof Plan

Drawing No.:	Revision:	Scale:	Date:
LL489-150-0011	-	1:100@A1	29.05.2015
Drawn by:	Checked by:		
JN	PSS		