NBS Specification : Q37

BIODIVERSE ROOF SPECIFIATION Contractor Design Element; subject to equal & approved spefication

Drainage Layer Material: Thermoformed recycled polypropylene TBC by specialist controctor design / consultant civil U/Hgt:30

G5

30

8

jt:15

factor of 20%

Layers:

planted

Application

Ve-leaved plum

Growing Medium Installation Handling: Minimize handling. Deliver to roof in small

sacks, bulk bag or pump,spreading the specified depth on to filter sheet, allowing the settlement

Conditions: Handle in the driest condition possible

Sequence: Gently firm each layer before spreading the next.Vegetation Installation

Handling Seeds: • Extent: Continuous and even across area to be

Timing: Not to be installed if temperature is

area; not to be stacked excessively

for climatic variation and seasonality

below 0C Storage: Must be stored in a cool and shaded

. Wildflower seeds to be installed within 48 hours

of delivery. Irrigate to saturation. Watering: Thoroughly, after laying and account

Do not handle or install when wet or frozen

Depth: 80-150 mm settled

(A)

G5

2500

(B)

C

6000

0006

11

11

D

E

engineer • Depth:

Retention Volume

- Horizontal Flow Rate Vertical Flow Rate:
- Compressive Strength: 150kPa

Filter Membrane Material: Thermally strengthened non-woven

- polypropyleneMass: 0.120 kg/m2
- Thickness: 2mm

Extensive Biodiverse Substrate

Material: Lightweight crushed brick & expanded

clay substrate. Inorganic and organic growing

medium consisting of crushed brick, expanded clay and organic matter of composted bark fines Depth: 80-150mm

- Porosity: 63% Water Holding Capacity: 25-30% Bulk Density DIN EN 1097-3; 1 T/m3 Density at Max Water Holding Capacity: 1.25

PH Value: 7.0 8.0Vegetation Planting Mix: Various wildflower species in plug plant trays and seed form

Root Ball Size (plugs): 50mm Coverage Rate (seeds): Varies; up to 5g/m2 Coverage Rate (Plugs): 10 per m2 Vegetation Coverage: 5% minimun

Habitat Creation / Biodiversity Enhancements Log / Sand Piles

Edge Retaining/Separating Profile

- Material: Aluminium Description/Profile: Slotted; 3m length Height: 100mm (subject to system
- build-up/depth)

Inspection/Access Chambers Material: Plastic coated stee

- Dimensions: 250x250mm
- Height: 80mm Colour: Black
- Access Covers: Black, plastic coated steel with
- Features: 300x 300mm flange attached for stability and to lap filter sheet

- Vegetation Barrier Material: Rounded washed pebbles (20-40mm) Depth: 70mm (subject to system
- build-up/depth) Width: 300mm minimumExecution

- Installation Generally
 Preparation: Clear all surfaces of debris Timing: After certification of waterproo
- membrane integrity Surface condition: Visually inspect waterproof
- membrane, report any damage Faults in waterproof membrane: Report prior to
- commencement of works
- Contamination: Do not use materials
- detrimental to healthy growth of plants Storage: Do not overload - point loads avoided
- Outlets: Do not block Outlet grilles: Installed

Adverse Weather

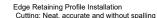
Unfinished work: Secure for damage and wind uplift Conditions: Do not install or work with frozen

Drainage Layer Installation

- Extent: Loose lay continuously over entire roof
- Fitting: Close butt-joint boards or rolls;
- staggering joints if applicable Upstands: Cut to fit 300mm from penetrations and outlets, using a heavy duty knife or smooth-toothed saw

Filter Membrane Installation • Extent: Loose lay continuously over entire roof

- area
- Fitting: Loose laid (bonded to drainage board) Joints: Minimize
- Overlaps (minimum): 150mm overlap excess on drainage roll



- Junctions: vertical, secured using proprietary
- connectors Position: True to line and level. Smooth
- continuous lines Fixing: Loose laid onto fleece, ballasted by
- weight on foot plate, or secured to waterproof membrane using proprietary fixing system Suitable for pitched roofs of 5 degrees or less

- Inspection Chamber Installation Location: Install centrally over rainwater outlet Orientation: Align parallel with adjacent
- features Bedding: Position flanges on to crowns of
- drainage layer Backfill: Ballast flanges with pebbles .
- Surround: 300mm diameter circle/square of 20-40 rounded pebbles

COMPLETION

- Inspection Timing: Prior to handover
- Notice period (minimum): 3 working days Completion
- General: Leave the works in a clean and tidy condition Surfaces: Clean immediately prior to handover

Outlets: Clean and clear of any obstructions Completed green roofs: Protect from adjacent or high level working as best as possible.

Documentation Timing: Submit at handover

Growing Medium declaration of analysis

Roof fall

Lift overrun

ROOF FALL

1.5° pitch

- Manufacturers guarantees and warranties
- Maintenance Procedures Record Drawings showing the location of

minimum maintenance measures required to keep a

The plant selection includes a species mix which will

four times annually, during springtime and in late autumn, or as required. Monitoring/controlling the effect of leaf litter to the vegetation is important; this can be deemed to be beneficial to biodiversity, but may need to be removed if this begins to affect plant

EGR SPECIES MIX

Wildflower Species Flower

Birdsfoot Trefoil - Lotus corniculatus Black Medick - Medicago Iupulina Common Knapweed - Centaurea nigra Corn Chamomile - Anthemis arvensis Corn Cockle - Agrostemma githago Corn Marigold - Chrysanthemum se Cornflower- Centaurea cvanus Cowslip- Primula veris Field Forget-Me-Not - Myosotis arvensis Field Poppy - Papaver rhoeas Foxglove- Digitalis purpurea Goatsbeard - Tragopogon Greater Knapweed- Centaurea scabiosa Hoary Plantain- Plantago media Ladys Bedstraw- Galium verum Meadow Buttercup- Ranunculus acris Musk Mallow - Malva moschata Night-flowering Catchfly Silene noctiflora Ox-eye Daisy- Leucanthermum vulgare Red Campion- Silene dioica Ribwort Plantain- Plantago lanceolata White/pink Salad Burnet- Sanguisorba minor ssp minor Self Heal Prunella- vulgaris Sorrel- Rumex acetosa White Campion- Silene alba Wild Carrot- Daucus carota Wild Clary- Agrimonia Yarrow- Achillea millefolium

[subject to specialist contractor design]

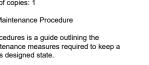
Common Bentgrass- Agrostis castellana Crested Dogstail- Cynosurus cristatus Sheep's Fescue- Festuca ovina Smooth Stalked Meadow Grass- Poa pratensis Strong Creeping Red Fescue- Festca rubra rubra

Sedum species: Sedum Acre Aureum

Companion grasses

Sedum Reflexum Sedum Album Coral Carpet

Sedum Album Athoun Sedum Voodoo



provide a balanced plant community on the roof. This will require basic maintenance to ensure a sustainable system for the long term

Living roof maintenance is best carried out twice to

- green roof in its designed state.

This set of procedures is a guide outlining the

planting and associated features Number of copies: 1 Green Roofs Maintenance Procedure

NOTES

ORIGINAL A3

All levels and dimensions to be checked on site prior to construction / fabrication; report discrepancies immediately. Do not scale dimensions from this drawings. This drawing is copyright protected.

REVISION

A	200324	PV pro
В	030724	Roof la
С	130724	Buildin

ovision increased avout amended ing footprint updated



