



Installation

- Vegetation mats must be laid within 24 hours of arrival on site in summer and within 48 hours of arrival in winter.

If there are any delays with installation of the vegetation mats, all mats must be unloaded from the pallets, unrolled, spread out on the ground and watered immediately.

Participation

- ✓ vegetation mats must be watered immediately after installation.
Ensure that the water has soaked well into the substrate beneath – this can be checked by lifting up a corner of the vegetation mat.
 - ✓ vegetation mats must not be allowed to dry out at any point during establishment – approximately 4-6 weeks (longer in winter).
 - ✓ irrigation should be made to water the vegetation mats through the first 6-8 weeks of summer growing season.

Cutting

- Vegetation mats should be cut once a year in late autumn after the plants have shed their seed.

immer, or a flower and

- Vegetation mats perform best in low fertility situations. High fertility will encourage more competitive grasses and weeds.

References

- Maintenance visits should be carried out at least once a year, and once a year, for the first two years.
 - Maintenance procedures carried out at each visit could include the following:
 - Removal of unwanted plant material
 - Correction of any localised plant system problems
 - Replacement of any failed plants exceeding 5% of total plants installed
 - Removal of dead flower heads (if required)
 - Checks on outlets and drainage
 - Replenishment of any areas of settled substrate
 - At the end of year two re-negotiate a continuing programme of maintenance with a contractor on the basis of what is required to maintain a healthy plant regime.

Lindum Roof Substrate

Product properties		Green Roof (for Seeding)	Green Roof (for Mats)
pH ¹	7.0	7.7	7.7
Electrical Conductivity	µS/cm mS/cm	1120 120	5000 500
Organic Matter ²	% Dry Matter	3.1	3.5
Nitrogen as N	%w/v/mg/l		
Total extractable	783	1200	
Ammonium Nitrogen NH ₄ ⁺	mg/l	10	13
Nitric Nitrogen NO ₃ ⁻	mg/l	2	2
NH ₄ ⁺ +NO ₃ ⁻ as N	mg/l	12	15
Phosphorus as P			
Total extractable	%w/v/m	59	59
CAT-extractable ^{3,4}	%	8	8
CAT-Extractable ^{5,6}			
Potassium as K	mg/l	185	330
Magnesium as Mg	mg/l	23	55
Boron as B	mg/l	3	8
Manganese as Mn	mg/l	4	8
Sulphur as S	mg/l	14	35
Copper as Cu	mg/l	0.1	0.15
Zinc as Zn	mg/l	1.6	2.0
Iron as Fe	mg/l	2.0	1.4
Carbon Exchange Capacity	meq/l	0	24
Particle Size Distribution (air dry sample passing)			
1.0mm		500	400
3.0mm		0	100
4.0mm		0	30
7.0mm		3	7
10.0mm		0	4
Air/Water Retention (%WV)			
1.0cm (10 minutes) Immersion			
Water Holding Capacity		24	46
Air Filled Porosity		41	49
2.0cm (20 minutes) Immersion			
Water Holding Capacity		23	24
Air Filled Porosity		50	59
Weeds & Seeds			
Stability no CO ₂ /O ₂		1.1	1.1

Lindum Roof Substrate

Usage Depth	mm	(00 +	50-100
Weight Saturated	kg/m ²		
Settlement ^a		100 +	50-100
Vegetated (non-vegetated)	%	NB (0.33)	NB (NB)
Habitat Rank-off ^b			
None	ppm	NB (0.2)	0.1 (47)
Throughout all	ppm	0.19 (5.19)	0.05 (14.6)

Notes

substrate and the Wildflower and Sedum
specified on this drawing.

of layers, drainage and associated layers
specified by the Architect.

e to be laid 100 mm thick for both Brown
en Roofs. Substrate material as specified is
ed to Brown and Green Roofs respectively.

th of the substrate can be laid thicker in
reas and stones/rocks/timber added to
the Invertebrate habitat, adding any
al or different material must be subject to the
of the Structural Engineer.

Wildflower and Sedum Mat to be laid over
soil on Green Roofs. Brown roof to be remain-
ed for colonization by seed naturally.

Revisions:

Status of Drawing:

Reading Road ☐ Yateley ☐ Hants. ☐ GU46 7RX

Scale : 1:500 @ A1 Date : JUL 2011
Dwg no. : 1000-000 Rev. : 0



