

Q37 Green Roofs

To be read with Preliminaries/General conditions

GENERAL

130 EXTENSIVE GREEN ROOF Sedum Green Roof

- Roof type: _____
 - Substrate: _____
 - Slope: _____
- Waterproofing: _____
- Thermal insulation: _____
- Protection: _____
- Moisture control layers: _____
- Growing medium: Lindum Seeded Turf Ltd approved extensive green roof substrate
 - Depth: 50mm minimum
- Vegetation: Lindum SedumPlus Mat
- Accessories: _____

PERFORMANCE

210 GENERAL DESIGN

- Green roof and associated features: Complete the detailed design
- Proposals: Submit drawings, technical information, calculations, and manufacturer's literature
- Performance criteria:
 - To satisfy aesthetic, weatherproofing, insulation and structural performance criteria
 - To satisfy native planting criteria to sit within the surrounding landscape

255 MAXIMUM PERMITTED GREEN ROOF LOADS

- Dead loads:
 - Green roof layers: refer to engineer's specification
- Imposed loads:
 - Activity: refer engineer's specification
 - Vegetation: refer engineer's specification
 - Allowance for additional loads during construction: refer engineer's specification
- Service loads: refer engineer's specification
- Requirement: Restrict site activities to ensure that design loads are not exceeded, or submit proposals for temporary supports

PRODUCTS

330 DRAINAGE LAYER

- Manufacturer: Supplied by Lindum Seeded Turf Ltd
Tel: 01904 448675 Email: lindum@turf.co.uk
 - Product Reference: Roofdrain 20
- Material: Recycled High Density Polyethylene water reservoir core with moisture retentive protective fleece to underside and geotextile filter mat to upper side
 - Depth: 22mm
- Infill: not required

390 EXTENSIVE GROWING MEDIUM

- Manufacturer: Lindum Seeded Turf Ltd approved supplier
Tel: 01904 448675 Email: lindum@turf.co.uk
 - Product Reference: Lindum Extensive Green Roof Substrate
 - Material: 100% recycled crushed brick and green waste compost
- Depth: 50mm (minimum after settlement)
- Ameliorant/conditioner: not required
- Declaration of analysis: Submit
 - Parameters: To BS3882, annexes A-E

400 VEGETATION BLANKET

- Manufacturer: Lindum Seeded Turf Ltd
Tel: 01904 448675 Email: lindum@turf.co.uk
 - Product Reference: Lindum SedumPlus Mat
- Planting Mix: Lindum sixteen sedum variety mix
 - Thickness: 25mm
 - Material: 450gsm felt with scrim
- Vegetation coverage (minimum): 85%

440 VEGETATION BARRIER

- Material: Washed Pea Shingle
- Depth: 100mm
- Width: 200mm (minimum)

EXECUTION

710 INSTALLATION GENERALLY

- Preparation: Clear all surface of debris
 - Timing: After certification of waterproof membrane integrity
 - Surface condition: Visually inspect waterproof membrane, report any damage
- Faults in waterproof membrane: Report
- Contamination: Do not use material detrimental to healthy plant growth
- Storage: Do not overload
 - Point loads: Avoid
- Outlets: Do not block

720 ADVERSE WEATHER

- Unfinished work: Secure from damage and wind uplift
- Conditions: Do not install or work with frozen materials

770 DRAINAGE LAYER INSTALLATION

- Joints: Minimize
- Extent: Continuous over entire roof area
- Fitting: Follow manufacturer's recommendation
- Upstands: Fit closely around penetrations and outlets

790 GROWING MEDIUM INSTALLATION

- Handling: Minimize
 - Conditions: Handle in the driest condition possible. Do not handle when wet or frozen
- Layers:
 - Depth (maximum): 150mm
 - Sequence: Gently firm each layer before spreading the next

800 VEGETATION BLANKET INSTALLATION

- Handling blankets:
 - Timing: Lay within 36 hours of lifting from growing position
 - Excessive stacking: Not permitted
 - Material loss (maximum): 3% of the total surface area
- Growing medium condition: Thoroughly watered and raked level
- Laying blankets:
 - Dry, damaged, frosty or waterlogged blankets: Do not lay
 - Orientation: Diagonal or perpendicular to slope of roof
 - Joints: Stagger. Butt together or slightly overlay to prevent gaps. Do not stretch blankets.
 - Edges: Finish with whole blankets
 - Consolidation: Firm as laying proceeds to ensure full contact with the growing medium. Do not use rollers.
- Dressing: Submit proposals
 - Application: Brush in to fill joints
- Watering: Thoroughly, immediately after laying and dressing

COMPLETION

910 INSPECTION

- Timing: Before handover
 - Give notice (minimum): 3 days

920 COMPLETION

- General: Leave the works in a clean and tidy condition
- Surfaces: Clean immediately before handover
- Outlets: Clean and clear of obstructions
- Completed green roof: Protect from adjacent of high level working

930 DOCUMENTATION

- Timing: Submit at handover
- Contents:
 - Growing medium declaration of analysis
 - Manufacturer's guarantees and warranties
 - Procedures for good establishment of the green roof to include manufacturer's recommended watering schedule through establishment period
 - Procedures for maintenance of the green roof
 - Record drawings showing the location of planting and associated features
- Number of copies: To be confirmed