

Lindum Wildflower & Sedum Green Roof Mat Q37 Green Roofs

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To be read with Preliminaries/General conditions

GENERAL

130 EXTENSIVE GREEN ROOF Biodiverse Wildflower & Sedum Green Roof

- • Roof type: GRP Roof
 - - Substrate: 18mm OSB 3
 - - Slope: 1 degree
 - • Waterproofing: GRP resin
 - • Thermal insulation: 120mm high performance celotex
 - • Protection: root barrier sheet
 - • Moisture control layers: n/a
 - • Growing medium: Lindum Seeded Turf Ltd approved extensive green roof substrate
- Depth: 75mm minimum
- • Vegetation: Lindum Wildflower & Sedum Mat
 - • Accessories: TBC

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 to engineer's specification
 - - Vegetation: refer to engineer's specification
 - - Allowance for additional loads during construction: refer to engineer's specification
 - • Service loads: refer to 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: 75mm (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 Wildflower & Sedum Mat
 - • Planting Mix: Lindum biodiverse green roof mix
 - - Thickness: 25mm
 - - Material: 450gsm felt with scrim
 - • Vegetation coverage (minimum): 75%

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 form 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