

## NBS Specification

System reference	AXTER HYDROPACK EXTENSIVE GREEN ROOF
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**Q37 Green roofs**

To be read with Preliminaries/General conditions

**GENERAL HYDROPACK EXTENSIVE GREEN ROOF SYSTEM****130A EXTENSIVE GREEN ROOF**

To be read with Section J41 ALPAFLORE for Green Roofs if over a warm roof or J31 WILOTEKT-PLUS for inverted roofs

- Roof type: Warm of inverted.
  - Substrate: As Section J 41.
  - Slope: As Section J 41.
- Waterproofing: ALPAFLORE as Section J41 Clause 110A or WILOTEKT-PLUS as Section J31 clause 130A.
- Thermal insulation: HYTHERM for warm roof as Section J41 Clause 110A or HYDROLITE for inverted roof as Section J31 Clause 130A.
- Pre-grown Vegetation Tray: Axter HYDROPACK.
- Accessories: Axter edge retaining profile  
20 to 40 rounded washed river gravel to all perimeters and major protrusions  
Axter rainwater outlet inspection covers  
Irrigations system (supplied and installed by others) in accordance with requirements.

**140 PAVING AND DECKING SYSTEMS**

- Type: As drawing ref. no. \_\_\_\_\_
- Paving support: Axter paving slab supports.

**PERFORMANCE****210 GENERAL DESIGN**

- Green roof and associated features: Complete the detailed design.
- Proposals: Submit drawings, technical information, calculations and manufacturers' literature.
- Performance criteria: as required.

**PRODUCTS****400A PRE-GROWN VEGETATION TRAY To green roof areas**

- Manufacturer: Axter Ltd.
  - Product reference: HYDROPACK.
  - Size 60cm x 40 cm
  - Thickness: 6 cm.
  - Saturated weight; 21 kg per tray or 88 kgs/m<sup>2</sup>

*Axter - Green Roofs (Hydropack Extensive)*

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- 420 EDGE RETAINING PROFILE To exposed edges of greening
- Manufacturer: Axter Ltd.
    - Product reference: Axter edge profile.
  - Material: Aluminium.
  - Height: As required.
- 430 INSPECTION CHAMBERS To all internal rainwater outlets
- Manufacturer: Axter Ltd.
    - Product reference: Axter inspection chamber.
  - Material: Polyester powder coated steel.
  - Size: 300 x 300 mm.
    - Depth: To suit planting.
  - Access covers: integral into the unit.
  - Features: perforated base.
- 460 SUPPORT PEDESTALS For paving slabs.
- Manufacturer: Axter Ltd.
    - Product reference: Axter adjustable paving slab supports.
  - Type: Screw jack pedestal.
  - Material: Recycled polypropylene.
  - Dimensions: As required.
  - Additional pedestals: Adjacent to perimeters.
  - Accessories: Not required.

## EXECUTION

- 710 INSTALLATION GENERALLY
- Preparation: Clear all surfaces 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 materials detrimental to healthy plant growth.
  - Storage: Do not overload.
    - Point loads: Avoid.
  - Outlets: Do not block.
    - Outlet grilles: Installed.
- 720 ADVERSE WEATHER
- Unfinished work: Secure from damage and wind uplift.
  - Conditions: Do not install or work with frozen materials.
- 760 MOISTURE RETENTION MAT INSTALLATION
- Joints: Minimize.
    - Overlaps (minimum): Butt edges.
  - Upstands: Fit closely around penetrations and outlets.

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### 760A PRE-GROWN VEGETATION TRAY INSTALLATION

- Trays to be placed directly on the waterproofing for an ALPAFLORE warm roof construction or on a filter layer on top of thermal insulation for the WILOTEKT-PLUS inverted system.
- Joints: HYDROPACK trays to be clipped together
  - Trays can be cut to fit corners, curves etc.

### 820 EDGE RETAINING PROFILE INSTALLATION

- Cutting: Neat, accurate and without spalling.
  - Junctions: vertical, secured using proprietary connectors.
- Position: True to line and level. Smooth continuous lines.
- Fixing: Overlapped by roof coating.

### 830 INSPECTION CHAMBER INSTALLATION

- Location: Install centrally over drain outlet.
  - Orientation: Align parallel with adjacent features.
- Bedding: Proprietary support base.
- Backfill: Ballast.
- Surround: Growing medium.

### 840 PEDESTAL INSTALLATION

- Ensure that surface to accept pedestals is clean and free of debris.
- Setting out: Mark centre-point of pedestal on substrate surface, with perpendicular guidelines to ensure square layout.
  - Orientation: Align parallel with adjacent features.
  - Spacing: To suit paving material and dimensions.
- Overall movement tolerance (maximum): 3 mm.

## COMPLETION

### 910 INSPECTION

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

### 920 COMPLETION

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

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### 930 DOCUMENTATION

- Timing: Submit at handover.
- Contents:
  - Growing medium declaration of analysis.
  - Manufacturers' guarantees and warranties.
  - Procedures for maintenance of the green roof.
  - Record drawings showing the location of planting and associated features.
- Number of copies: as required.

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