

**SECTION 32-9346  
EXTERIOR PLANTERS**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

- A. Exterior planters, including all materials, fabrication, finishes, accessories, and installation.
- B. Coordination with irrigation, drainage, and electrical systems for integrated functionality.

**1.02 RELATED REQUIREMENTS**

- A. 32-9300 - Exterior Planting

**1.03 REFERENCE STANDARDS**

- A. ASTM A606/A606M - Standard Specification for Steel, Sheet and Strip, High-Strength, Low-Alloy, Hot-Rolled and Cold-Rolled, with Improved Atmospheric Corrosion Resistance; 2015.

**1.04 ADMINISTRATIVE REQUIREMENTS**

- A. Coordination:
  - 1. Coordinate locations, levels, and dimensions of planters with adjacent paving, walls, and structures.
  - 2. Coordinate installation drawings with structural, waterproofing, and MEP services. Resolve conflicts prior to fabrication.
  - 3. Coordinate planter heights with all safety barrier heights. At no time should a planter compromise a safety barrier height of parapets, safety fencing to pools and other areas, and the like.
  - 4. Coordinate routing of irrigation supply, drainage discharge, and electrical conduit through planter bases.
  - 5. Coordinate delivery and placement schedule with planting operations to avoid damage to completed surfaces.
  - 6. Verify actual dimensions and levels of supporting structures prior to fabrication and installation.
  - 7. Verify substrate readiness and report discrepancies to the Landscape Architect prior to commencement of works.
- B. Preinstallation Meetings:
  - 1. Conduct a meeting at the site prior to commencing installation.
  - 2. Attendees should include the Landscape Architect, General Contractor, Landscape Contractor, and all relevant subcontractors (irrigation, electrical, waterproofing).
- C. Review
  - 1. Substrate readiness and tolerances.
  - 2. Drawing(s) and Specification Document.
  - 3. Lifting, placement, and protection procedures.

**1.05 SUBMITTALS**

- A. See Section 01-3000 - Administrative Requirements for submittal procedures.
- B. Shop Drawings: Submit detailed shop drawings showing all planters and their coordination with adjacent works. Drawings shall indicate, as a minimum:
  - 1. Plan, section, and elevation views of each planter type, including overall dimensions, wall thicknesses, base and top profiles.
  - 2. Locations and sizes of drainage holes, sleeves, and cleanouts.
  - 3. Irrigation entry and exit points, sleeves, and grommet details with watertight sealing method.
  - 4. Power or lighting conduit entries, junction boxes, and internal access routes.
  - 5. Internal reinforcement, stiffeners, and connection plates, with material thickness and weld type.
  - 6. Anchorage details and interface with supporting structure, including bearing conditions, shimming, and isolation pads if required.
  - 7. Joints, seams, and panel connections where multiple planters form a continuous assembly.
  - 8. Integration with waterproofing, paving edges, curbs, or retaining walls.

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9. Drain discharge routing and connection to site drainage system.
  10. Allowances for thermal movement and expansion where applicable.
  11. Identification of each unit with numbering coordinated to the planter schedule and layout drawings.
  12. Finish indication for all exposed faces, including colour reference, coating thickness, and surface preparation method.
- C. Installation Drawings: Submit coordinated installation drawings showing integration of the planter system with adjacent works. Installation drawings shall include, at a minimum:
1. Plan locations of each planter type, identified by tag number corresponding to the planter schedule.
  2. Any modular arrangements or continuous planter groupings.
  3. Exact finished levels and bearing elevations.
  4. Type and location of shims, spacers, or structural supports used to level or isolate planters.
  5. Method of fixing to slab or footing, including anchors, brackets, or anti-tip devices.
  6. Routing of irrigation supply, return, and drainage lines entering or exiting planters, with connection details.
  7. Junction boxes, conduits, and power feeds for integrated lighting or control systems.
  8. Location, type, and size of drain outlets, with site drainage tie-in point locations and details.
  9. Slope direction within planter base to promote positive drainage.
  10. Installation sequence relative to paving, planting soil placement, and irrigation commissioning.
  11. Temporary protection measures and access requirements for lifting or moving planters.
  12. Identification of any elements to be installed after planting (e.g. lighting fixtures, benches, covers).
  13. Interfaces with walls, curbs, paving edges, or vertical surfaces.
  14. Integration with adjacent architectural or structural elements requiring joint sealants or expansion allowance.
  15. Access points for inspection or maintenance of irrigation and lighting connections.
- D. Samples: Two samples, 300 by 300 mm (12 by 12 inches) in size, indicating each surface finish..
- E. Certificate: Certify products of this section meet or exceed specified requirements.
- F. Manufacturer's qualification statement, where applicable.
- G. Fabricator's qualification statement, where applicable.
- H. Installer's qualification statement.
- I. Specimen copy of manufacturer's warranty for review.
- J. Provide executed manufacturer and installer warranties upon completion.
- K. Maintenance Materials: Furnish the following for Owner's use in project maintenance:
1. See Section 01-6000 - Product Requirements for additional provisions.
  2. Tools: One each of special tools required for maintenance.

#### **1.06 QUALITY ASSURANCE**

- A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section, with minimum 3 years of documented experience.
- B. Fabricator Qualifications: Company specializing in fabricating products specified in this section, with minimum 3 years of documented experience.
- C. Installer Qualifications: Company specializing in performing work of type specified, with minimum 3 years of documented experience.
- D. Testing Agency Qualifications: Independent firm specializing in performing testing and inspections of type specified in this section.
- E. Documents at Project Site: Maintain at project site one copy of manufacturer's instructions, erection drawings, and shop drawings.

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### 1.07 MOCK-UPS

- A. See Section 01-4000 - Quality Requirements for additional requirements.
- B. Construct 1 mock-up, at least 1.2 m (4 feet) long by 0.6 m (2 feet) wide, indicating finishes, connections and installation elements.. Confirm dimensions before fabrication.
- C. Locate where directed by Architect.
- D. Mock-up shall demonstrate finish quality, jointing, and connection details.
- E. Approved Mock-up may remain as part of work.

### 1.08 WARRANTY

- A. See Section 01-7800 - Closeout Submittals for additional warranty requirements.

## PART 2 PRODUCTS

### 2.01 MANUFACTURERS

- A. Substitutions: See Section 01-6000 - Product Requirements.
- B. Source Limitations: Furnish products produced by single manufacturer and obtained from single supplier.

### 2.02 MATERIALS

- A. Weathering steel: ASTM A606/A606M, Type 4.
  - 1. Pre-Weathered Finish:
    - a. Pre-weathered finish factory-treated using an environmentally responsible pretreatment to accelerate oxidation, providing an initial uniform patina at delivery.
    - b. Surfaces may appear powdery or display markings during delivery and installation; this is a natural characteristic of the pre-weathering process.
    - c. Unwrap and inspect products upon arrival. Store indoors or in a dry, covered location whenever possible. Protect adjacent surfaces from dust and rust particles during storage and installation.

## PART 3 EXECUTION

### 3.01 EXAMINATION

- A. Verify existing conditions and substrate compliance before installation.
- B. Report irregularities preventing proper alignment or drainage.

### 3.02 INSTALLATION

- A. Install planters level and true in accordance with approved shop drawings.
- B. Provide continuous basal support; shim only as necessary to maintain drainage fall.
- C. Connect drainage, irrigation, and electrical systems using watertight fittings.
- D. Clean any runoff or staining immediately during works.

### 3.03 FIELD QUALITY CONTROL

- A. See Section 01-4000 - Quality Requirements for additional requirements.
- B. Perform a leak test on all planters prior to filling with soil. Fill planters with water to full depth, observe for 24 hours, and repair any leaks detected.

### 3.04 CLEANING

- A. See Section 01-7000 - Execution and Closeout Requirements for additional requirements.
- B. Clean exposed surfaces with mild detergent and water; avoid abrasives or solvents
- C. Touch up minor coating damage with manufacturer-approved materials.

### 3.05 CARE - WEATHERING STEEL

- A. Handling and Storage:
  - 1. Unwrap planters upon arrival to allow uniform oxidation.
  - 2. Store indoors or under cover whenever possible to prevent uneven weathering or staining of adjacent surfaces.
  - 3. Protect floors and paving from rust shedding during unpacking and installation.

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- B. Runoff Management:
  1. All rust produced during oxidation is water-soluble and may stain surfaces in contact with runoff.
  2. Inspect and clean adjacent finishes frequently during the early oxidation phase.
  3. Replace or renew temporary protection as necessary until staining risk subsides.
- C. Initial Weathering Period:
  1. Allow planters to oxidise naturally upon exposure to atmosphere.
  2. Do not apply sealants, oils, or surface coatings during the first 8–12 weeks after installation unless directed by the Landscape Architect.
  3. Protect adjacent paving, walls, and drainage systems from rust runoff using temporary barriers or drip trays.

**3.06 COMMISSIONING**

- A. See Section 01-9113 - General Commissioning Requirements for additional requirements.
- B. Functional Tests: Perform the following:
  1. Irrigation.
  2. Lighting.

**3.07 PROTECTION**

- A. Protect installed planters from subsequent construction operations.
- B. Cover planters to prevent accumulation of construction debris, mortar, or concrete wash-out during adjacent works.

**3.08 CLOSEOUT ACTIVITIES**

- A. See Section 01-7800 - Closeout Submittals for additional submittals.

**3.09 MAINTENANCE**

- A. See Section 01-7000 - Execution and Closeout Requirements for additional requirements.
- B. Weathering Steel - Particularly:
  1. Weathering steel naturally forms a protective oxide layer that stabilises over time.
  2. Re-exposed metal (e.g. from scratches or impact) may re-rust until the patina reforms.
  3. Patina regeneration depends on repeated wet/dry cycles. In persistently humid or foggy environments, corrosion may continue; monitor and clean as required.
  4. Maintain drainage outlets and adjacent paving to prevent standing water against planter walls.
  5. Provide documentation of any treatments, coatings, or corrective work performed after handover.

**END OF SECTION 32-9346**