

SECTION 07 7600
PAVERS AND PEDESTALS

PART 1 GENERAL

1.1 SUMMARY

- A. Work of this Section consists of precast architectural concrete pavers as indicated on Drawings and as specified herein:
 - 1. Concrete pavers.
 - 2. Paver support pedestals.
- B. Related Documents and Sections: Examine Contract Documents for requirements that directly affect or are affected by Work of this Section. A list of those Documents and Sections include, but is not limited to the following:
 - 1. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections.
 - 1. Section 07 5556 - FLUID-APPLIED MEMBRANE ROOFING
 - 2. Section 07 6200 - SHEET METAL FLASHING AND TRIM.

1.2 SYSTEM DESCRIPTION

- A. Systems:
 - 1. Pavers: Pavers fabricated to high tolerances, equaling or exceeding ASTM C 1364 requirements for cast stone, with uniform sizes and spacing. Pavers shall have consistent color and surface finish, and consistent spacing, to form a uniform pattern and surface.
- B. Performance Requirements:
 - 1. Compressive Strength shall not be less than 8,000 psi per ASTM C936.
 - 2. Water Absorption shall not be greater than 5% at 50 cycles of freeze that testing per ASTM C67.
 - 3. Static Coefficient of Friction ASTM C 1028 conditionally slip resistant:
 - a. Wet: 0.50 - 0.60.
 - b. Dry: 0.60 - 0.70.

1.3 SUBMITTALS

- A. Product Data: For each type of product indicated. Include construction details, material descriptions, dimensions of individual components and profiles, and finishes.
- B. Samples: Submit the following:
 - 1. Two full size samples of pedestals, including all accessories, shims, spacers, and the like.
 - 2. Roof paver, full sized, in each color and texture required.
- C. Submit test results from an independent testing laboratory for compliance with performance requirements specified herein. Include, but do not limit to:
 - 1. Supplier test reports supporting the actual SRI value of roof pavers.
- D. Indicate layout, pattern, and relationship of paving joints to fixtures and project formed details.

- E. Submit two copies of written instructions for recommended maintenance.

1.4 QUALITY ASSURANCE

- A. Manufacturer Qualifications: All primary products specified in this section will be supplied by a single manufacturer with a minimum of ten (10) years experience.
- B. Installer Qualifications: The deck support system installer must have a minimum of two (2) years proven construction experience, be capable of estimating and building from blueprint plans and details, determine elevations, and properly handle materials. All Work must comply with the manufacturer's installation application procedures for deck support work specified herein.

1.5 DELIVERY, STORAGE AND HANDLING

- A. Packaging and Shipping: Precast pavers to be stretch wrapped in rows and banded on pallets, delivered in original unopened packaging with legible manufacturer identification, including size, quantity, manufacture date and inspector initials.
- B. Deliver and store system components with labels intact and legible.
- C. Inspect all delivered materials to insure they are undamaged and in good condition.

PART 2 PRODUCTS

2.1 CONCRETE PAVERS

- A. Roof Pavers: Heavyweight, hydraulically pressed, concrete units, factory cast for use as roof pavers; absorption not greater than 5 percent, ASTM C 140; no breakage and maximum 1 percent mass loss when tested for freeze-thaw resistance, ASTM C 67; and as follows:
 - 1. Thickness: 1 inches minimum.
 - 2. Size: 24 by 48 inches. Manufacture pavers to dimensional tolerances of plus or minus 1/16 inch in length, height, and thickness.
 - 3. Compressive Strength: 7500 psi, minimum; ASTM C 140.
 - 4. Edges: Square edged with top edges beveled 3/16 inch.
 - 5. Color and Texture: As selected by the Architect
- B. Adjustable Pedestals:
 - 1. Basis-of-Design Manufacturer / Product: Bison Innovative Products / Versadjust Deck Pedestals.
 - a. Weight Bearing 1500 lbs. per pedestal.
 - b. Provide pedestal, including screw-jack mechanism, coupler, leveler pads, shims, and integral 1/4 inch spacing tabs, of height indicated or required.
 - c. Include brace system if required for added stability.
 - 2. Provide Basis-of-Design product or equal by one of the following:
 - a. Archatrack Uptec Pedestals.
 - b. Hanover Standard Support Pedestals.
 - c. Acceptable equivalent.
- C. Isolation Pads: Provide acoustical isolation pads at paver pedestals equal to one of the following:
 - 1. Mini Super W Waffle Pad (MSW) by Mason Industries.
 - 2. Geniemat FF by Pliteq.
 - 3. Acceptable equivalent.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify that subgrade preparation, compacted density and elevations conform to the specifications.
- B. Verify location, type, installation and elevations of edge restraints around the perimeter area to be paved.
- C. Verify that base is dry, uniform, even and ready to support imposed or anticipated loads.

3.2 INSTALLATION

- A. Establish accurate lines, levels and pattern.
- B. The substrate must be clean and free of projections and debris that could impair the performance of the pedestals or the total deck system.
- C. Precise measurements should be taken and deck area should be accurately defined. Mark off and square all outside edges with control lines (chalk lines or spray paint). Install two (2) lines that are perpendicular to each other across the deck area. Continue to mark a grid of lines in both directions marking the location of each pedestal. To assure a square layout, use the control lines as references to periodically check the layout during installation.
- D. Acoustical Pads: Cut to shapes required and place beneath pedestal bases.
- E. Pedestal Supported Pavers:
 - 1. Set pavers to heights required to achieve finish elevations indicated.

3.3 FIELD QUALITY CONTROL

- A. Inspect often during installation to assure that grid spacer lines are being maintained in a straight and consistent pattern and that deck panels or pavers are level and not rocking.
- B. Confirm that deck pedestal height does not exceed the specified height for the pedestal system; install manufacturer's brace system if pedestal height exceeds 18 in.
- C. Unless otherwise specified in writing to allow for expansion, inspect to assure that all paver spacing between units and at perimeter containment does not exceed a tab width. Particular attention should be made to assure that all pedestrian entry or access points to the deck are level and that the deck surface tiles are not randomly raised or uneven creating a tripping or safety hazard.

3.4 TOLERANCES

- A. The final surface elevations shall not deviate more than 1/16 inch under a 10 foot long straightedge.
- B. The surface elevation of pavers shall be 1/8 inch to 1/4 inch above adjacent drainage inlets, concrete collars or channels.

3.5 CLEANING AND PROTECTION

- A. At end of each workday, remove rubbish other discarded materials from Project site.
- B. Protect the work of other trades and work of this Section already installed against soiling and damage by the exercise of reasonable care and precautions. Repair or replace any work so

damaged or soiled.

- C. At completion of construction activities of other trades, touch up and restore damaged or defaced coated surfaces.

END OF SECTION