



SECTION 07 76 16

## **RAISED FLOOR SHORT FORM SPECIFICATIONS FOR ALL DIVISIONS AND SECTIONS**

### **PART 1 GENERAL**

#### **1.1 SECTION INCLUDES**

- A. UPTEC Pedestal System
- B. UPTEC Pedestal Configurations
- C. UPTEC Accessories

#### **1.2 RELATED SECTIONS**

- A. Section 07141 Cold Fluid-Applied Waterproofing System
- B. Section 07700 Roof Specialties and Accessories
- C. Section 07760 Roof Decking Pavers
- D. Section 09300 Tile
- E. Section 09600 Flooring
- F. Section 04410 Stone Materials

#### **1.3 REFERENCES**

- A. Modified ASTM E108, Class A specification. Standard Test Methods for Fire Tests of Roof Coverings.

#### **1.4 SYSTEM DESCRIPTION**

- A. UPTEC Raised Floor Pedestal System
- B. UPTEC Pedestal System Configurations
- C. UPTEC Pedestal Accessories
- D. Mapei Reinforced Cold Applied Waterproofing System
- E. Daltile® TREAD 2CM Thick Porcelain Pavers, group 2, color and sizes to be determined.

#### **1.5 SUBMITTALS**

- A. Product Data: Manufacturers Data Sheets on Pedestal components
- B. Preparation instructions and requirements
- C. Shop Drawings: Submit shop drawings detailing the coordination and placements with locations noted on Contract Drawings

#### **1.6 QUALITY ASSURANCE**

- A. Single Source Requirements: To the greatest extent possible, provide pedestals and accessory products specified in this section from a single manufacturer.
- B. Installer Qualifications: The deck support system must have a minimum of two (2) years proven experience. All work must comply with Profilitec Installation procedures.

#### 1.5 DELIVERY STORAGE AND HANDLING

- A. Inspect delivered materials upon arrival to ensure they are undamaged, in good condition and as specified.
- B. Deliver, store and handle materials and products in strict compliance with manufacturer's instructions and recommendations and industry standards.
- C. Store products indoors in manufacturers or fabricator's original containers and packaging, with labels clearly identifying product name and manufacturer. Pedestals are delivered boxed in cardboard cartons. These cartons should be stored in dry conditions and should not come into contact with rain or damp conditions. Protect from damage.

#### 1.6 PROJECT CONDITIONS

- A. Surfaces to receive roof decking pedestals shall be broom clean, frost free, and free of dirt, oil or any rough foreign matter, which may impair the proper installation of the roof decking pedestals.
- B. Confirm that substrates have positive slope and provide adequate drainage in accordance with applicable building codes.
- C. Do not install roof decking pedestals over any roofing insulation without an adequate compressive resistance.

#### 1.7 SEQUENCING AND SCHEDULING

- A. Conference: Convene a pre-installation conference to establish procedures to maintain optimum working conditions and to coordinate this work with related and adjacent work.

#### 1.8 WARRANTY

- A. Manufacturer's Warranty: Pedestal system shall remain free from manufacturing defects for a period of seven years from date of Substantial Completion.
- B. Contractor's Warranty: Contractor shall warrant that their work will remain free from defects of labor and materials for a period of two years from date of Substantial Completion.

### **PART 2 PRODUCT**

#### 1.1 MANUFACTURER

- A. Profilitec S.p.A. Via Scotte, 3 - 36033 Isola Vicentina (Vicenza) – Italia  
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- B. Profilitec Corp. 472 Meeting Street Suite C, # 301, Charleston SC 29403 Tel.: 855 290 9591  
E-mail: sales@profilitec.us (USA)  
E-mail: sales@profilitec.ca (CANADA)  
www.profilitec.com  
www.profilitecsolutions.com  
uptec.profilitec.com
- C. Substitutions: Not permitted.
- D. Requests for substitutions will be considered in accordance with provisions of Section 01 60 00 - Product Requirements.

## 1.2 PERFORMANCE REQUIREMENTS

- A. COMPRESSION RESISTANCE: our system withstands a concentrated load up to 1400 kg. Please consider an adequate safety coefficient defined by the project engineer and verify that the substrate has adequate resistance.
- B. RECYCLED CONTENT: Pedestal system shall contain 80% post-industrial recycled content and be 100% recyclable.

## 1.3 ADJUSTABLE UNIVERSAL PEDESTALS FOR RAISED FLOORS (UPTEC)

- A. COMPONENTS MATERIAL: Standard, talc-loaded polypropylene copolymer with 80% recycled CCP material, 20% Talc, 100% recyclable; tested at temperatures -20°C, 21°C and 80°C (-4°F, 69.8°F and 176°F).
- B. COMPONENTS:
  - 1) SUPAL: Low Pedestal.
  - 2) SUPAS: Standard Pedestal.
  - 3) SUPAR: Modular Ring.
- C. CONFIGURATIONS:
  - 1) Configuration SUPAL-28/43:
    - a. Nominal Height Range: 1-3/32 to 1-11/16 inches (28 mm to 43 mm).
    - b. Top Diameter: 5-1/8 inches (130 mm).
    - c. Base Diameter: 7-31/64 inches (190 mm).
    - d. Load Data: with fixed head at 1-11/16 inches (43 mm) Height, 0 percent Slope, 21°C: 3503 lbF (15.58 kN).
  - 1) Configuration SUPAS-43/58:
    - a. Nominal Height Range: 1-11/16 to 2-9/32 inches (43 mm to 58 mm).
    - b. Top Diameter: 5-1/8 inches (130 mm).
    - c. Base Diameter: 7-31/64 inches (190 mm) .
    - d. Load Data: with fixed head at 2-9/32 inches (58 mm) Height, 0 percent Slope, 21°C: 3021 lbF (13.44 kN).
  - 2) Configuration SUPAS-58/88:
    - a. Nominal Height Range: 2-9/32 to 3-15/32 inches (58 mm to 88 mm).
    - b. Top Diameter: 5-1/8 inches (130 mm).

- c. Base Diameter: 7-31/64 inches (190 mm).
  - d. Load Data: with fixed head at 2-7/8 inches (73 mm) Height, 0 percent Slope, 21°C: 3332 lbf (14.82 kN).
- 3) Configuration: SUPAS-88/118
- a. Nominal Height Range: 3-15/32 to 4-41/64 inches (88 mm to 118 mm).
  - b. Top Diameter: 5-1/8 inches (130 mm).
  - c. Base Diameter: 7-31/64 inches (190 mm).
- 4) Configuration: SUPAS-118/148
- a. Nominal Height Range: 4-41/64 to 5-53/64 inches (118 mm to 148 mm).
  - b. Top Diameter: 5-1/8 inches (130 mm).
  - c. Base Diameter: 7-31/64 inches (190 mm).
- 5) Accessories:
- a. SUPT: SUPB extension of 3/16 inches (5 mm).
  - b. Spacer Tabs: to be fixed into top of pedestal, to obtain the desiderate joints:
    - SUPA2: Spacer Tabs for 3/32 inches (2 mm).
    - SUPA4: Spacer Tabs for 3/16 inches (4 mm), to be also used with aluminum joists.
    - SUPAW: Spacer to be used with wooden beams.
  - c. SUPAK: Adjusting Key permits to adjust the pedestal height, to switch from fix to self-leveling head and to remove tabs.
  - d. Leveling disks:
    - Width of 3/32 inches (2 mm) (SUPL2).
    - Width of 1/8 inches (3 mm) (SUPL3).
  - e. SUPACLPB: Clip for vertical edge base.
  - f. SUPACLPT: Clip for vertical edge head.
  - g. SUPACLPP: Perimeter tile spacer.
  - h. SUPAAN200: Aluminum joists.
  - i. SUPG: Anti-noise rubber.
  - j. SUPD: Tile Spacers 3/16 inches (4 mm).
  - k. SUPCLIP: Perimeter and central clips.
  - l. SUPAF59x59: Anti-fragmentation membrane; the patented system that passes the hard body impact test (UNI EN 12825:2003 Standards). The adhesive membrane, applied beneath each tile, prevents chipping and cracking upon the impact of a heavy object.
  - m. BSJ: Profile for raised floor, to contour the perimeter of the floor, resolving the joint between the floor and vertical wall covering.
  - n. BSR: Finishing profile for raised floor.
  - o. Wind Lift options: Refer to attached Wind Lift documents

## **PART 3 EXECUTION**

### **1.1 EXAMINATION AND PREPARATION**

- A. Verify all elevations, required pedestal heights, insulation density, and deck dimensions before commencing work.
- B. Do not begin installation until substrates have been properly prepared.
  - a. The substrate surface that will receive the pedestals must be well compacted (on grade) and structurally capable of carrying the dead and live loads anticipated.
  - 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. If substrate preparation is the responsibility of another installer, notify Architect (or other appropriate party: Engineer, General Contractor, or Project Manager) of unsatisfactory preparation before proceeding.

## 1.2 INSTALLATION

- A. Install roof decking pedestals in accordance with manufacturer's recommendations. Securely place base supports at locations shown on shop drawings.
- B. Locate pedestals at the proper elevation and placed in position prior to the installation of roof decking pavers.
- C. Level Installation: Establish starting point and finished elevation of the roof decking paver surface, and determine the pedestal head support elevation by subtracting the thickness of the paver. Mark around the perimeter using transit, or laser leveling device.
- D. Slope Compensation: Self-leveling head to reach up to 5% slope. The head of the pedestal is composed of a functional mechanism, seamlessly shifting from a self-leveling head to a fixed head quickly and precisely.
- E. Perimeter Containment: Provide field installed restraint, where roof decking is not constrained by an abutting wall. No movement shall be allowed at the perimeter of the roof decking greater than 3mm (1/8 inch).
- F. Make final slight adjustments to pedestals as they are fully loaded by roof decking pavers.
- G. Ensure roof decking pedestals are maintained in a straight and consistent pattern.
- H. At roof deck access points for pedestrians, ensure that pavers are level and that the walking surface does not have randomly raised or uneven joints creating a tripping or safety hazard.

## 1.3 ADJUSTMENT AND PROTECTION

- A. Adjustment: Eliminate rocking and uneven pavers; rotate pedestals for final adjustment after fully loaded.
- B. Touch-up, repair or replace damaged products before Substantial Completion.
- C. Protection: Protect installed products and finishes from damage during construction.