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SECTION 233716 - FABRIC AIR-DISTRIBUTION DEVICES

TIPS:

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PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Fabric air-distribution devices.

1.2 ACTION SUBMITTALS

A. Product Data: For each type of product.

1. Data Sheet: Indicate materials of construction, finish, and mounting details; and performance data including throw and drop, static-pressure drop, and noise ratings.

B. Shop Drawings: For fabric air-distribution devices.

1. Include plans, elevations, sections, and suspension and attachment details.
- C. Samples for Initial Selection: For diffusers with factory-applied color finishes.
- D. Samples for Verification: For diffusers, in manufacturer's standard sizes to verify color selected.
- E. Diffuser Schedule: Use same designations indicated on Drawings. Indicate room location, quantity, model number, size, and accessories furnished.

1.3 INFORMATIONAL SUBMITTALS

- A. Coordination Drawings: Reflected ceiling plans, drawn to scale, on which the following items are shown and coordinated with each other, using input from Installers of the items involved:
 1. Ceiling suspension assembly members.
 2. Method of attaching hangers to building structure.
 3. Ceiling-mounted items including lighting fixtures, diffusers, grilles, speakers, sprinklers, access panels, and special moldings.
- B. Source quality-control reports.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. Fabric Duct/Air Dispersion diffuser materials to be listed and labeled as complying with [UL 2518] [UL 723] [NFPA 90A].
- B. Air permeability of fabric will comply with ASTM D737.

2.2 MANUFACTURERS

- A. Basis-of-Design Product: Subject to compliance with requirements, provide Prihoda North America; Fabric Duct Air Dispersion System or comparable product by one of the following:
 1. Airsox.
 2. KE Fibertec.
 3. <Insert manufacturer's name>.
- B. Description:
 1. Fabric Duct Air Dispersion System constructed of premium woven, fire-retardant, and permeable fabric.
 - a. Material: 100 percent flame retardant treated antimicrobial agent.
 - b. Weight: 6.5 oz/yd² (220.4 oz/m²) as required by ASTM D3776 minimum.
 - c. Shrinkage: Maximum 0.5 percent as required by ISO 6330-2000.

- d. Available Standard Colors: [White-RAL 9016] [Light Grey-Pantone 420/RAL 7035] [Dark Grey-Pantone 424/RAL 7037] [Yellow-Pantone 135/RAL 1017] [Light Blue-Pantone 2915/RAL 5012] [Blue-Pantone 7462/RAL 5005] [Green-Pantone 340/RAL 7037] [Black-Pantone 419/RAL 9017] [Red-Pantone 187/RAL 3001] [Custom graphics, logo or pattern] <Insert color>.
- e. Temperature Range: Minus 75 to plus 230 deg F (Minus 22 to plus 110 deg C).
- f. Permeability: 2 cfm or less.
- g. Fire Retardant: As required by NFPA 90-A, ICC AC-167, and UL 2518.

C. Air-Outlet Configuration:

1. Micro-Perforation: [Uniform micro-perforation] [Directional].
2. Laser Cut Perforations/Holes: 5/32 to 3 inches (4 to 76 mm) diameter size hole dependent on Project.
3. Small Conical Textile Nozzles: Ultrasonically welded to duct. [3/4 inch (20 mm)] [1-5/8 inch (42 mm)] [1-1/4 inch (32 mm)] diameter, spacing, location to meet throw requirements.
4. Large Conical Textile Nozzles:
 - a. Large nozzles have a 3-inch (80-mm) minimum diameter. Spacing and diameter are determined by design.
 - b. Nozzles to include internal adjustable damper.

D. Duct Connection Type: Round [worm-gear band] [rectangular flange].

E. Hanging Hardware Options:

1. Plastic-coated stainless steel cable.
2. Galvanized cable with gripple.
3. Plastic-coated galvanized cable.

F. Hold Open Accessories: [None] [Internal 180-degree arcs] [Internal rings] [Helical coil with full tensioning] [Internal rings with full tensioning] [Endcap tensioners].

G. Accessories:

1. Cleanout zipper.
2. Fabric damper.
3. End cap.
4. Elbows.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Examine any conditions under which the duct system is to be installed. Do not continue any installation until unsatisfactory conditions have been corrected. Install duct system in accordance with the requirements provided by manufacturer.

- B. Coordinate layout with suspended ceiling, lighting layouts, and similar finished work.

3.2 SUSPENSION METHOD

A. Single Cable-Wire Suspension:

1. One row cable system located 1-1/4 inch (32 mm) above twelve o'clock of duct system. Duct system to be attached to hardware using one single row of plastic hooks located at twelve o'clock spaced 20 inches (508 mm). Hardware to include cable, cable clamps, turnbuckles, and tie-down straps as required. Support hangers spaced at 16 ft. (5 m) on centers.

B. Double Cable-Wire Suspension:

1. Two-row cable system with hooks located at three and nine o'clock on duct system. Fabric duct system to be attached to wire-cable using double row of plastic hooks located at three and nine o'clock spaced 20 inches (508 mm) on centers. Hardware to include cable, cable clamps, turnbuckles, and tie down straps as required. Support hangers spaced at 16 ft. (5 m) on centers.

C. Triple Cable-Wire Suspension:

1. Duct system to be attached to cable-wire using three rows of plastic hooks located at three, twelve, and nine o'clock spaced 20 inches (508 mm) on centers. Hardware to include cable-wire, cable clamps, turnbuckles, and tie-down straps as required. Support hangers spaced at 16 ft. (5 m) on centers.

D. Single Aluminum Track Profile:

1. Duct system to be attached to track profile using plastic gliders located at twelve o'clock spaced 20 inches (508 mm) on centers or continuous reinforced fabric strip. Cable-wire hangers spaced at 6.6 ft. (2.1 m) on centers. *Note: To increase distance between hanger spacing up to 13 ft. (4.0 m) specify reinforced track option.

E. Double Aluminum Track Profile:

1. Duct system to be attached to track profile using plastic gliders or reinforced fabric strips located at nine and three o'clock spaced 20 inches (508 mm) on centers or continuous reinforced fabric strip. Cable-wire hangers spaced at 6.6 ft. (2.1 m) on centers. *Note: To increase distance between hanger spacing up to 13 ft. (4.0 m) specify reinforced track option.

F. Triple Aluminum Track Profile:

1. Duct system to be attached to track profile using plastic gliders or reinforced fabric strip located at three, twelve, and nine o'clock spaced 20 inches (508 mm) on centers or continuous reinforced fabric strip. Cable-wire hangers spaced at 6.6 ft. (2.1 m) on centers. *Note: To increase distance between hanger spacing up to 13 ft. (4.0 m) specify reinforced track option.

3.3 CLEANING

- A. Clean air handling unit and other ductwork prior to installation of fabric duct system. Make sure all dust and debris from installation is removed from air handling unit and other ductwork before connecting the fabric duct system.
- B. If fabric duct system becomes soiled during installation, it should be removed and cleaned following manufacturer's cleaning instructions.

END OF SECTION 233716