



Specifications for Hero FabriDuct™ Fabric Air Dispersion System

1. **Manufacturer for Fabric Made Ductwork:** Hero FabriDuct, LLC

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2. **Diffusers shall be constructed of a woven fire retardant fabric complying with the following physical characteristics:**

- a. Fabric Construction: 100% Flame Retardant Polyester
- b. Weight: 7.0 oz
- c. Color: As selected by architect
- d. Air Permeability: 5 CFM/ft.² (+1-1) ASTM D737
- e. Temperature Range: 0° F to 250° F
- f. Fire Retardancy: Meets testing requirements of fabric air dispersion systems as defined in NFPA 90A & 90B. Our product achieves a Class 1 rating per ASTM E-84.

3. **Design & Fabrication Requirements:**

- a. Lengths to include required zippers as specified by manufacturer.
- b. Inlet transition and end cap to include zippers for easy removal/maintenance.
- c. Dispersion by Linear Slots
- d. Width of and location of linear slots to be specified and approved by manufacturer.
- e. Fabric System to include connectors to attach to suspension system listed below.
- f. Inlet connection to metal duct via metal band supplied by manufacturer.
- g. Fabric diffusers should only be used for positive pressure air distribution components of the mechanical ventilation system.
- h. Fabric air diffusers shall be designed for 0.5-inch water gage, producing a maximum operating pressure of 3.1 inches of water.

- i. Diffuser lengths, static pressure and design CFM shall be signed/approved by the manufacturer.
- j. Fabric air diffusers cannot be used in concealed locations.
- k. Fabric air diffusers shall be limited to design temperatures between 0° F and a maximum of 250° F.
- l. All deviations from a straight run shall be designed by the manufacturer to meet job specifications.

4. **Suspension Hardware:**

- a. **One & Two Row Cable:** Systems shall include plastic coated cable, eyebolts, cable clamps, thimbles, and turnbuckles. Attachment shall be made using snap clips spaced 24 inches apart. Vertical support hardware for longer and larger diameter applications is required. These supports should be installed approximately every 25 feet.
- b. **One & Two Row Aluminum Track/Roller Tab:** Hardware to include 12, 14 or 16-foot sections of track, sliders, splice connections and end caps. If suspended, vertical cable supports (max 8 foot spacing) require eyebolts and cable clamps.
- c. **One & Two Aluminum Track/Cord In:** Same options as the Roller Tab system, but attachment to track system will be made with a continuous length sewn into the appropriate position for installation.

5. **Installation, Cleaning and Protection:**

- a. Install chosen suspension system in accordance with the requirements of the manufacturer. The product manufacturer is to provide installation instructions.
- b. Clean air-handling unit (s) and duct work just prior to installing fabric air diffusers. Clean external surfaces of foreign substances that might cause corrosive deterioration of facing.
- c. At duct ends not connected to equipment or distribution device at time of ductwork installation, cover with polyethylene film or other covering to keep system clean until installation is completed.
- d. If Hero FabriDuct™ air diffuser system becomes soiled during installation, remove and clean in accordance with manufacturer's standard terms of laundry.
- e. Hero FabriDuct™ has been tested and meets the requirements of ASTM E 84 as an Air Distribution Device. The products also meet the requirements set by the NFPA 90A and 90B compliance: Class 1 rating per NFPA 255.
- f. Hero FabriDuct™ products shall be 100% warranted to be free from manufacturing defects for one year from date of shipment; prorated for 9 years thereafter.