**PART 1 – GENERAL**

**1.1 SUMMARY OF PRODUCT**

1. EchoFelt+ Suspended Acoustic Clouds manufactured with 100% recyclable polyester fiber without chemical binders.
   1. **SUBMITTALS**
2. Shop Drawings: Show fabrication and installation details for acoustic clouds, including plans, elevations, sections, details and attachment to other work.
3. Submittals: Furnish samples.
4. Qualification Data: For firms specified in “Quality Assurance” Article to demonstrate their capabilities and experience.
5. Product Certificates: Signed by manufacturer certifying that the products furnished comply with requirements.

* 1. **QUALITY ASSURANCE**

1. Manufacturer and Installer Qualifications: Manufacturer and Installer shall have a minimum of 5 years experience in producing and installing specified products and shall furnish supporting documentation showing completed jobs of approximately the same size and scope.
   1. **DELIVERY, STORAGE, AND HANDLING**
2. Protect clouds from water, rain, and/or snow when shipping/handling.
3. DO NOT drag material as damage/soiling can occur.
4. 2 people are to carry panels 1200 mm x 1200 mm in size and larger.
5. Only install clouds when building is enclosed, dust generating activity is completed, and HVAC is operational.
6. Do not install clouds until wet work is complete and dry.
7. Install clouds after painting and flooring is completed and/or installed.

**PART 2 – PRODUCTS**

**2.1 ECHOFELT+ SUSPENDED ACOUSTIC CLOUDS, GENERAL**

1. The manufacturer’s absorptive material shall be made with high density (96 kg/m3//6.0 lb/ft3) with 100% recyclable polyester fiber without chemical binders.
2. Product Model: EchoFelt+ Acoustic Clouds

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1. Cloud Thickness: Nominal 1” thick absorptive material
2. Noise Reduction Coefficient: NRC of 0.75 for 1” absorptive material.
3. Cloud Width: Up to 1,200 mm (48 inches/4 ft)
4. Cloud Length: Up to 2,440 mm (96 inches/8 ft) with 2,400 mm

**2.2 CONSTRUCTION**

1. Acoustic cloud product shall be supplied in widths, lengths, and finishes as indicated.
   1. **MOUNTING**
2. Mounting Accessories: Manufacturer’s standard accessories for securely mounting clouds of type and size indicated and complying with the following requirements:
   1. Ceilings: Proprietary factory-supplied cloud anchors are supplied along with a proprietary fastening assembly engineered for the specific ceiling clouds are being hung from. Ceiling substrate fasteners must be as per manufacturer’s specification to ensure loading is engineered so cloud cannot fall off ceiling. No adhesive is required for ceiling clouds.
3. Quantity of Mounting Points: 4 per cloud sized 1200 mm x 1500 mm or less, 6 per cloud sized 1200 mm x 2440 mm or less.

**2.4 ACOUSTIC PERFORMANCE**

Sound Absorption: Per ASTM C–423 Type A Mounting:

**1” Thick Sound Absorption Coefficient per Octave Band Center Frequency**

125Hz 250Hz 500Hz 1000Hz 2000Hz 4000Hz NRC

0.09 **0.23 .69 1.01 1.09** 1.06 **0.75\***

**\*Note:** Average NRC is based on the 250,500, 1000, and 2000 Hz

frequency bands and rounded to nearest multiple of 0.05

**2.5 SURFACE BURNING CHARACTERISTICS**

1. All components pass flame spread and smoke development tests for ASTM E84 Class 1/A.

**PART 3 – EXECUTION**

* 1. **INSTALLATION**

1. Acoustic clouds in locations and orientations indicated. Comply with manufacturer’s written instructions for installation of clouds using type of mounting accessories indicated or, if not indicated, as recommended by manufacturer.
   1. **CLEANING**
2. After completion of installation of clouds, remove dust and other foreign material with a horse hair duster brush mounted on a vacuum cleaner. A damp cloth with mild detergent and warm water or foam/pure water-free solvents can also be used for heavier soiling BUT an inconspicuous section on the side of the cloud should be tested beforehand when “wetting” the cloud/fabric with anything.

**END OF SECTION**