

## **PART 1 GENERAL**

### **1.1 SECTION INCLUDES**

- .1 PVC track mounted, acoustic ceiling assembly, stretched fabric covering, site assembled.
- .2 [Supplementary framing to permit secure mounting of panel.]
- .3 Substrate support.

### **1.2 RELATED SECTIONS**

- .1 Section [\_\_\_\_\_-\_\_\_\_\_]: Preparation of adjacent work and substrate to receive work of this Section.

### **1.3 REFERENCES**

- .1 ASTM C423 - Standard Test Method for Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method.
- .2 ASTM D5034 - Standard Test Method for Testing Breaking Loads of Woven Textiles.
- .3 ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials.
- .4 NFPA 701 - Standard Methods of Fire Tests for Flame Propagation of Textiles and Films.

### **1.4 PERFORMANCE REQUIREMENTS**

- .1 Fire Retardant Classification: Class A, to ASTM E84.
- .2 Acoustic Attenuation: NRC [0.80,] [\_\_\_\_\_,] to ASTM C423.
- .3 Minimum Breaking Load: [\_\_\_\_\_] N ([\_\_\_\_\_] lb), to ASTM D5034.
- .4 Fabric: High content stable yarns, acoustically transparent, when covering an acoustic substrate.
- .5 Suspended Ceiling Flatness Under Load: [1/180.] [1/240.] [1/360.]

### **1.5 SUBMITTALS**

- .1 Section 01300: Submission procedures.
- .2 Product Data: Submit product data for panel frame, [supports,] [suspended panels,] fabric, and rigid acoustic substrate.
- .3 Shop Drawings: Identify panel sizes, panel configurations, track frame profiles, fabric selections by elevation, and corner details.

- .4 Samples: Submit [one (1) sample,] [two (2) samples], [300 x 300 mm (12 x 12 inch)] [ ] size, including panel substrate and fabric. Sample for reviewing for color, texture, fabric tautness, alignment and pattern of weave, fabric translucency, and appearance of corners.
- .5 Installer Certificate: Showing installation certification by panel manufacturer.

## **1.6 QUALITY ASSURANCE**

- .1 Fabricators / Installers: Trained and certified by panel manufacturer.

## **1.7 MOCK-UP**

- .1 Section 01400: Requirements for mock-up.
- .2 Provide minimum [ ] x [ ] mm ([ ] x [ ] inches) mock-up of a panel, including acoustic substrate, fabric and a panel joint, as applicable.
- .3 Locate [where directed.] [ ].
- .4 Mock-up may [not] remain as part of the Work.

## **1.8 DELIVERY, STORAGE, AND PROTECTION**

- .1 Section 01600: Transport, handle, store, and protect products.
- .2 Deliver and store panels in a dry and stable environment.
- .3 Acclimatize fabrics for minimum 24 hours, at temperature and humidity approximating that of occupancy prior to installation.
- .4 Protect fabric surfaces from damage.

## **1.9 SPECIAL WARRANTY**

- .1 Section 01700: Warranties.
- .2 Provide a ten-year manufacturer's warranty against panel core or fabric material defects.

## **PART 2 PRODUCTS**

### **2.1 MANUFACTURERS:**

- .1 Snap-Tex International.
- .2 Substitutions: [Refer to Section 01600.] [Not permitted.] [Refer to Instructions to Bidders.]

### **2.2 MATERIALS**

- .1 Ceiling Grid:
  - .1 Mounting Track: Rigid PVC.

- .2 Suspension Assembly: [Steel] [Aluminum] [\_\_\_\_\_] grid members, suspension components, [exposed T-bar] [\_\_\_\_\_] grid style.
- .3 Grid: One-piece frame, hinged if required for above ceiling access, interlocking jaw, biased tension.
- .4 Grid Style: [Bevel tegular.] [Square tegular.] [Radius tegular.]
- .2 Panels:
  - .1 Individual Panel Size: [\_\_\_\_\_] mm ([\_\_\_\_\_] inches).
- .3 Acoustic Substrate:
  - .1 Panel: Glass fiber core, [2.7 to 3.2 kg (6 to 7 lb) density, semi-rigid acoustical glass fiber.] [Reflective substrate.] [Diffusive substrate.] [As required to achieve acoustic attenuation, diffusion, reflection, in combination, as required.]
  - .2 Ceiling Panel Edge Profile: [Radiused.] [Beveled.] [Square.]
  - .3 Panel Nominal Thickness: [\_\_\_\_\_] mm ([\_\_\_\_\_] inches).
  - .4 Panel Shape: Refer to Drawings.
- .4 Supplementary Frame/Furring:
  - .1 [Wood:] [Metal:] Of sufficient thickness to achieve panel thickness, frame integrity, support requirements, and acoustic performance requirements.
- .5 Fabric Covering:
  - .1 Fabric: [By Owner.] [Acoustically transparent fabric, fire retardant to meet [ASTM E84] [NFPA 701]] [Ameri-Span inherently flame retardant, wide fabrics.
  - .2 Liner: [Fabric] [Perforated Dupont Tyvek] [Snap-Span] [\_\_\_\_\_] type, [3 m (10 ft)] [4.2 m (14 ft)] [4.8 m (16 ft)] wide, [acoustically transparent,] [\_\_\_\_\_.]
  - .3 [Fabric Protection: Dupont Teflon based protectant.]
- .6 Fastener: [Heavy duty 25 mm (1 inch) staples.] [25 mm (1 inch) screws.] [As required, compatible with substrate frame surface.]
- .7 Accessories:
  - .1 Trim, special frame shapes: [As detailed.] [\_\_\_\_\_.]
  - .2 Suspension: Wire/rods from ceiling above, size and strength to support panel dead and live loads, other imposed loads, plus safety factor.

## **PART 3 EXECUTION**

### **3.1 PREPARATION**

- .1 Do not proceed until surrounding environment is clean and dry.
- .2 Maintain temperature, and humidity at conditions approximating those of occupancy prior to, during, and after installation.
- .3 Ensure substrate surface is smooth, flat, and taped and sealed prior to track installation. Directly adjoining work must be complete and dry.

- .4 Field measure areas to receive panels; establish exact layout of units.

### **3.2 INSTALLATION**

- .1 [Install [suspension grid] [furring] [tracks] to achieve nominal ceiling assembly thickness of [ ] mm ([ ] inches.)
- .2 Install track plumb and level, straight with fittings, flush to achieve panel configuration.
- .3 Fasten track frame in consistent manner, minimum 25 mm (1 inch) on center.
- .4 Install acoustic substrate material, continuous to rear base of track.
- .5 Cut fabric from each roll, maintaining sequence of drops and matching direction of weave [or pattern if fabric is digitally printed].
- .6 Install fabric into locking jaws of track. Stretch fabric taut; align fabric weave plumb vertically and level horizontally.

### **3.3 CLEANING**

- .1 Section 01700: Cleaning installed work.
- .2 Trim and remove all loose fabric threads.
- .3 Remove surplus materials and debris. Vacuum fabric as required.

### **3.4 EXTRA MATERIALS**

- .1 Provide [ ] extra panels [of each size].
- .2 Provide extra [ ] sq m ([ ] sq yd) of fabric.

### **3.5 PROTECTION OF FINISHED WORK**

- .1 Section 01700: Protecting installed work.
- .2 Protect finished Work from damage or soiling.

**END OF SECTION**