

SECTION 097713 - STRETCHED-FABRIC WALL SYSTEMS

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes stretched fabric wall systems.

1.2 ACTION SUBMITTALS

- A. Product Data: Submit product data for each type of frame and core material specified.
- B. Shop Drawings: Submit shop drawings including attachment devices; seaming diagrams; and details at head, base, joints, corners and intersections with shelves, countertops, doors, electrical outlets and switches, thermostats, and other components. Indicate frame edge and core materials.
 - 1. Include elevations showing panel sizes and direction of fabric weave.
 - 2. Include elevations showing location of tackable board substrates located beneath stretched fabric.
- C. Samples: Submit samples of the following products. Prepare Samples from the same material to be used for the Work.
 - 1. Fabric: Full-width by 36 inch long Sample from dye lot to be used for the Work, with specified treatments applied. Show complete pattern repeat. Mark top and face of fabric.
 - 2. Frame System: 12 inch long Sample showing edge profile and corner.
 - 3. Core Material: 12 inch square Sample, each core type.
 - 4. Portable mockup of complete installation, no smaller than 24 by 24 inches and no larger than 36 by 36 inches. Show joints at seams.

1.3 INFORMATIONAL SUBMITTALS

- A. Warranty: Special warranty specified in this Section.

1.4 CLOSEOUT SUBMITTALS

- A. Maintenance Data: Submit maintenance instructions for stretched-fabric systems including fabric manufacturer's cleaning and stain-removal recommendations.

1.5 QUALITY ASSURANCE

- A. **Installer Qualifications:** Engage a firm with a minimum of 5 years successful experience in the fabrication and erection of fabric wall panel units of similar sizes, shapes, and finishes to the units required for this Project, and which has ample production facilities to produce, furnish, and supply the units as required for this Project.
- B. **Sample Installations:** Before installing stretched-fabric wall systems, install sample installations for each type of system and finish required to verify selections made under sample submittals and to demonstrate aesthetic affects and qualities of materials and workmanship. Install sample installations to comply with the following requirements, using materials indicated for the completed Work:
 - 1. Install sample installations in the location and of the size indicated or, if not indicated, as directed by Architect.
 - a. Include intersection at door opening.
 - b. Include intersection at wall and ceiling.
 - 2. Demonstrate the proposed range of aesthetic effects and workmanship.
 - 3. Obtain Architect's approval of sample installations before starting installation of stretched-fabric systems.
 - 4. Maintain sample installations during installation in an undisturbed condition as a standard for judging the completed Work.
 - 5. Approved sample installations may become part of the completed Work if undisturbed at time of Substantial Completion.
- C. **Formaldehyde-Free:** Third Party Certified with UL Environmental Validation.
- D. **Low-Emitting Materials:** For all thermal and acoustical applications of glass insulation products, provide materials complying with the testing and products requirements of UL Environmental Validation and UL GreenGuard Gold certification.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Framing members, fabrics, and core materials shall be delivered to the job site and stored elevated above the floor in an enclosed space with proper ventilation and protection from damage.
- B. Comply with fabric manufacturer's written instructions for minimum and maximum temperature and humidity requirements for storage.

1.7 FIELD CONDITIONS

- A. Environmental Limitations: Do not install stretched-fabric systems until wet-work in spaces is complete and dry, work above ceilings is complete, and ambient temperature and humidity conditions are maintained at the levels indicated for Project when occupied for its intended use.
- B. Field Measurements: Verify dimensions by field measurements.
- C. Lighting during Installation: Provide not less than 50 fc on surface to be covered.

1.8 WARRANTY

- A. Special Warranty: Provide a written warranty for a period of at least two years from date of substantial completion that the fabric installation shall remain dimensionally stable year round and will not sag or distort due to variances in temperature and humidity conditions. Further warranty that the grain and weave will be level and true and that all seams are plumb and true without sagging and equally spaced. If the fabric should sag due to climatic conditions, or if the fabric or seams are imperfect, the installing contractor will replace or repair, restretch and reinstall the fabric at his own expense. The Owner and/or Architect will be the determinant if the fabric is sagging, distorted or imperfect in any way.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. Fire-Test-Response Characteristics: Stretched-fabric wall systems shall comply with "Surface-Burning Characteristics" or "Fire Growth Contribution" Subparagraph below, or both, as determined by testing identical products by UL or another testing and inspecting agency acceptable to authorities having jurisdiction:
 - 1. Surface-Burning Characteristics: Comply with ASTM E84 or UL 723; testing by a qualified testing agency on systems prepared according to ASTM E2573. Identify products with appropriate markings of applicable testing agency.
 - a. Flame-Spread Index: 25 or less.
 - b. Smoke-Developed Index: 450 or less.
 - 2. Fire Growth Contribution: Comply with acceptance criteria of local code and authorities having jurisdiction when tested according to NFPA 286.

2.2 SYSTEMS AND MANUFACTURERS

- A. General: Subject to compliance with requirements, provide products by one of the following:
1. Accutrack Upholstered Wall System; Accutrack Systems.
 2. Type SWB Butt Joint Snap-Loc; StretchWall Products, Inc.
 3. Fabri-Trak Upholstered Wall System, Fabri-Trak Systems, Inc.
 4. Snap-Tex Acoustical Fabric Mounting System; Snap-Tex, (800) 762-7875.

2.3 STRETCHED-FABRIC WALL SYSTEM COMPONENTS (SF##)

- A. Fabric: As indicated in Finish Schedule on Drawings and specified under Section 097200 "Wall Coverings." Fabrics shall be shop cut, stitched together, squared and trimmed to appropriate sizes. All sewing shall be perfectly straight, seams pressed flat.
1. Provide appropriate lining on fabrics as required to avoid core material color showing through.
- B. Edge Profile: Square.
- C. Frame System: Extruded PVC or extruded aluminum as follows:
1. SnapLoc 90; Stretchwall Products, Inc.
 2. 20,000 S 2 inch thick with Square Edge; Accutrack Systems, Inc.
 3. Fabri-Trak 2 inch Height SE; Fabri-Trak Systems, Inc.
 4. Snap-Tex 2 inch Square Track; Snap-Tex.

2.4 CORE MATERIALS

- A. Glass-fiber acoustical infill board insulation:
1. Free of Formaldehyde: Insulation manufactured with 100 percent acrylic binders and no formaldehyde.
 2. Low Emitting: Insulation tested according to ASTM D 5116 and shown to emit less than 0.05-ppm formaldehyde.
 3. Acoustical Infill: Standard acoustical infill manufactured from 2 inches thick unless otherwise indicated, 6 lb. density compressible fiberglass having an NRC value of 1.00, one of the following:
 - a. Knauf Insulation; Acoustical Smooth Board with ECOSE Technology.
 - b. GLT Products; Formaldehyde Free Acoustical Fiberglass Board.

- c. Accutrack; Acoustical Fiberglas Board Subsurface.
- B. Tackable Infill: Hybrid high/low density fiberglas or mineral fiberboard. Hybrid high/low density fiberglas or mineral fiberboard. Hybrid high/low density fiberglass bearing a minimum 16 pcf , density board laminated to a 3 pcf density fiberglass layer. Mineral-Fiber Board bearing a minimum density of 23 pcf , plus or minus 3 pcf , with perforated surface, in thickness indicated, the following:
 - 1. Non-Hybrid Tackable Board: USG; Micore Brand 300 Board.
 - 2. Hybrid Tackable Board: One of the following:
 - a. Accutrack; Composite Acoustical Fiberglas Board Subsurface.
 - b. GLT Products: Dual Density Fiberglas Board.
- C. Artwork Blocking: Untreated plywood, refer to Section 061053 "Miscellaneous Rough Carpentry."
- D. VOC Content for Core Mounting Adhesive: Not more than 70 g/L when calculated according to 40 CFR 59, Subpart D (EPA Method 24).

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine fabric, substrates, and conditions, with Installer present, for compliance with requirements, installation tolerances, and other conditions affecting performance of stretched-fabric systems.
 - 1. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

- A. Acclimatize Fabric: Before installation, allow fabric to adjust to and become stable at ambient temperature and humidity of spaces where it will be installed.
- B. Install framing members at the areas indicated to receive fabric wall panels around the perimeter of each fabric panel. Install framing members wherever practical, in one continuous piece with smooth edges so as not to show irregularities. All framing members shall be installed, shimmed, plumbed, scribed and trued to align perfectly with adjacent surfaces. All framing members shall be installed in such a way as to prevent them from sagging or moving out of position after fabric has been stretched tightly over them.

- C. Install core materials flush with face of stretched-fabric system track. Core shall be smooth and free from bumps and protrusions. Bond or fasten core materials to substrate by method recommended by stretched-fabric system manufacturer.
 - 1. Install artwork blocking where indicated on the Drawings, or if not indicated, as directed by the Owner. Infill the areas between the artwork blocking and the framing members with acoustical infill core material.
- D. Woof and warp yarns shall be stretched perfectly square and plumbed so that the fabric is not distorted and does not pucker or ripple. If sewn seams are required, they shall be squared with a plumb bob and must be true top to bottom without wavering. All fabrics shall be stretched and secured in such a way as not to show the fastening technique. All fabrics shall be blind fastened using manufacturer's proprietary fabric tensioning system framing on all sides of each wall area in and around cut-outs without the use of any gimp, trim, hand sewing, welts or batons. All fabric pattern and grains shall match horizontally and be perfectly level.
- E. Fabric shall be removable in case of damage and easily replaceable without affecting adjacent surfaces.

3.3 CLEANING AND PROTECTION

- A. During installation, protect all existing work from damage. Remove all trimmings and other debris.
- B. Immediately after the installation is completed, thoroughly clean all exposed surfaces and finished materials and restore all damaged surfaces to the complete satisfaction of the Owner and the Architect.
 - 1. Vacuum all exposed fabric surfaces.
 - 2. Trim and remove all loose threads.

3.4 DEMONSTRATION AND TRAINING

- A. Train Owner's permanent maintenance staff in the proper methods of maintaining, removing, installing, and replacing fabric material.

END OF SECTION