



Stretch Systems for Walls & Ceilings

SECTION 09772 – STRETCH FABRIC SYSTEM

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes site fabricated fabric **[wall] [and] [ceiling]** system.

1.3 REFERENCES

- A. ASTM C 423 - Standard Test Method for Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method; 2000.
- B. ASTM E 84 - Standard Test Method for Surface Burning Characteristics of Building Materials; 2000a.

1.4 PERFORMANCE REQUIREMENTS

- A. Acoustical Absorption: Perform testing in accordance with ASTM C 423, Type A mounting method unless otherwise specified.
- B. Flame Spread Rating: Provide all components with Class A flame spread rating when tested in accordance with ASTM E 84, unless otherwise specified.

1.5 SUBMITTALS

- A. Submit under provisions of Section 01300.
- B. Product Data: Manufacturer's data sheets on each product to be used, including:
 - 1. Preparation instructions and recommendations.
 - 2. Storage and handling requirements and recommendations.
 - 3. Installation methods.
 - 4. Independent testing agency test reports.
- C. Samples for Initial Selection: For each product specified, two complete sets of color samples representing manufacturer's full range of available colors and patterns.
- D. Samples for Verification: For each product specified, two samples, minimum size 6 inches square, representing actual product, color, and patterns.

1.6 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Minimum 5 years of experience in producing stretch fabric system of the types specified herein.
- B. Installer Qualifications: Acceptable to the manufacturer of the stretch fabric system being installed.
- C. Source Limitations: Obtain stretch fabric system through one source from a single manufacturer.
- D. Mock-Up: Upon request by the Architect, provide a mock-up for evaluation of installed appearance.
 - 1. Install stretch fabric system in areas designated by Architect.
 - 2. Do not proceed with remaining work until Architect approves workmanship and appearance.
 - 3. Approved mock-up may remain as part of the work.

1.7 DELIVERY, STORAGE, AND HANDLING

- A. Protect all products from moisture during shipment, storage, and handling.
- B. Store products in manufacturer's unopened packaging until ready for installation.
 - 1. Store materials flat, in dry, tempered, well-ventilated space.

1.8 PROJECT CONDITIONS

- A. Environmental Limitations: Do not install stretch fabric system until spaces are enclosed and weatherproof, 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.
 - 1. Minimum Requirements: 50° - 85° F; 40% - 60% Relative Humidity.

1.9 WARRANTY

- A. Special Warranty: Standard form in which Installer agrees to repair or replace components of stretch fabric system that fails in performance, materials, or workmanship within specified warranty period.
 - 1. Warranty Period: Two years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 MANUFACTURER

- A. Manufacturer: Subject to compliance with requirements, provide stretch fabric system by Fabric Wall; St. Louis, Missouri; 877-765-8283.
 - 1. Substitutions: If substitutions are permitted, products must match quality and performance of specified product.

2.2 SYSTEM COMPONENTS [select all that apply and indicate on drawings]

- A. Framing Materials: Extruded polymer extrusions as indicated below.
 - 1. Track Thickness: [3/8 inch], [1/2 inch], [5/8 inch], [1 inch], [2 inch].
- B. Core Materials: As indicated below:
 - 1. [1", sound absorbing 6 pcf fiberglass, NRC = .80]
 - 2. [2", sound absorbing 6 pcf fiberglass, NRC = 1.05]
 - 3. [1", sound absorbing and tackable multi-density fiberglass with 1/8", 18 pcf facing sheet, NRC = .80]
 - 4. [2", sound absorbing and tackable multi-density fiberglass with 1/8", 18 pcf facing sheet, NRC = 1.00]
 - 5. [2", low frequency sound absorbing fiberglass core with bass trap facing, NRC = .55]
 - 6. [1", LEED Certified, 80% recycled core, NRC = .70]
 - 7. [2", LEED Certified, 80% recycled core, NRC = 1.00]
 - 8. [2", two dimensional, thermoplastic sound diffusers.]
 - 9. [_____ ", tackable mineral fiber board.]
- C. Finish Material: As indicated below:
 - 1. **Manufacturer's standard Guilford 2100 polyester fabric.**
 - a. **Fabric shall be: Selected from manufacturers' full line of available fabrics.**
 - 2. **Custom fabric.**
 - a. **Fabric shall be [_____]**

2.3 ACCESSORIES

- A. Mounting Hardware: Installer shall provide fasteners to securely install track and core materials to substrate.
- B. Installation Tools: Manufacturers' fabric tucking tools are required for installation of stretch fabric.

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 acoustical wall panels.
 - 1. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Clean surfaces thoroughly prior to installation.
- B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

3.3 INSTALLATION

- A. Install stretch fabric wall in accordance with manufacturer' written instructions where indicated on drawings, scribed to fit adjoining work accurately at borders and at penetrations.
- B. Frame Materials: Install track level, plumb and securely fastened to supporting substrate.
- C. Core Materials: Mechanically attach securely to supporting substrate.
 - 1. Core material to be fit tight and flush with top edge of track, free from bumps and protrusions.
 - a. Use of adhesives is unacceptable.
- D. Finish Materials: Fabric shall be removable for ease of replacement.
 - 1. Use of manufacturers' fabric tucking tool is suggested.
 - 2. Fabric to be stretched taut without wrinkles or sagging.
 - 3. Fabric will be cut from manufacturers' roll, marked, and shall be installed in matching sequence.
 - a. Maintain fabric wrap and weave during installation.
 - b. Maintain fabric pattern throughout installation.

3.4 CLEANING

- A. Clip or tuck loose threads and extraneous materials.
- B. Clean stretch fabric facing, on completion of installation, to remove dust and other foreign materials according to manufacturer's written instructions.

3.5 PROTECTION

- A. Provide final protection and maintain conditions, in a manner acceptable to manufacturer and Installer, to ensure stretch wall system is without damage or deterioration at time of Substantial Completion.
- B. Replace stretch wall system that cannot be cleaned and repaired, in a manner approved by Architect, before time of Substantial Completion.

END OF SECTION 09772