

SECTION 095443
STRETCHED-FABRIC CEILING SYSTEMS

NOTE TO SPECIFIER: Clipso technical fabrics: coatings innovative coverings for walls and ceilings.

NOTE TO SPECIFIER: This section is based on the products of Clipso technical fabrics, which is located at:

CLIPSO Americas, Inc.
275 Madison Avenue, Suite 1425 - New York, NY 10016
+1 (885) 4CLIPSO - (425-4776)

www.clipso.com

PART 1 - GENERAL

1.1 SECTION INCLUDES

- A. Site installed fabric-ceiling systems.
- B. Related Work in other sections:
 - 1. Section 018113 "Sustainable Design Requirements"-LEED credit requirements.
 - 2. Section 097713 "Stretched-Fabric Wall Systems"-Stretched-fabric systems applied to walls.
 - 3. Section 097200 "Wall Coverings" -Adhesively applied textile wall coverings.
 - 4. Section 098436 "Sound-Absorbing Ceiling Units"-Shop-fabricated, fabric-wrapped ceiling panels.

1.2 REFERENCES

- A. ASTM - American Society for Testing and Materials International.
 - 1. ASTM E 84-05: Standard Test Method for Surface Burning Characteristics.
 - 2. ASTM C 423-08A: Test Method for Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method.
- B. LEED-CI: Green Building Rating System for Commercial Interiors.
- C. Oeko-Tex Standard 100 certified.

1.3 PREINSTALLATION MEETINGS

- A. Preinstallation Conference: Conduct conference at Project site.

1.4 SUBMITTALS

- A. Product Data: For each type of product.
 - 1. Include material descriptions, dimensions of individual components and track profiles and finishes that will indicate compliance with the Contract Documents.

NOTE TO SPECIFIER: LEED credentialed professionals determine applicable credits for project. Delete if not a LEED project.

- B. LEED Submittal: For compliance with MR credit 1.2.
- C. Shop Drawings: Include installation and system details and intersections with walls. Indicate track profile.
 - 1. Include reflected ceiling plans.
 - 2. Show seam locations.
- D. Samples for Initial Selection: Color samples of fabric specified.
- E. Sample for Verification: Assembled system of selected fabric stretched between selected track, approximately 19-inches by 16-inches.
- F. Test Reports: Submit certified independent testing agency reports indicating fabric and track meet or exceed specified performance requirements.
- G. Quality Assurance: Submit evidence of certifications and qualifications as required in Quality Assurance Article.
- H. Maintenance Data: Include fabric written cleaning, stain-removal, and re-stretching instructions.

1.5 EXTRA MATERIALS

- A. Fabric: For each fabric, furnish length equal to 10 percent of amount installed.
- B. Track: Furnish full-length units equal to 5 percent of amount installed.

1.6 QUALITY ASSURANCE

- A. Installer Qualifications: Certified in accordance with the two day training program and approved for installation of systems required for this Project.

B. Mockups: Build mockup of typical ceiling area as directed by Architect.

1. Approved mockups may become part of completed Work.

1.7 DELIVERY, STORAGE, AND HANDLING

A. Comply with written instructions for minimum and maximum temperature and humidity requirements for shipment, storage, and handling of specific fabric selected.

B. Store materials off the ground and protected from the dirt and dust of construction operations.

C. Handle materials in a manner that will protect them from damage and soiling.

1.8 ENVIRONMENTAL REQUIREMENTS

A. Do not install CLIPSO ceiling system until ambient temperature and humidity conditions are maintained at the levels indicated for occupancy.

B. Air-Quality Limitations: Protect fabric from exposure to airborne odors and install systems under conditions free from odor contamination of ambient air.

1.9 WARRANTY

A. Manufacturer and Installer agree to repair or replace components of stretched-fabric systems that fail due to fabric pulling out of track within specified warranty period.

1. Warranty Period: 10 Year warranty on the Clipso system (fabric and track) when installed by a certified installation company.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Acceptable Manufacturer: **CLIPSO Americas, Inc.**
275 Madison Avenue, Suite 1425 - New York, NY 10016
+1 (885) 4CLIPSO - (425-4776)

Web: www.clipso.com.

B. Acceptable Installers:

AEC, Inc.
2855 Trinity Square Drive

Bid: estimating@aeccopr.com
Phone: 972-488-1066

Suite 110
Carrollton, Texas 75006

Fax: 972-488-0554

- B. Source Limitations: Obtain stretched-fabric systems from single source.
- C. Substitutions: Substitutions must be submitted to Architect two weeks prior to bid opening, and in compliance with Division 01 "Substitution Procedures."

2.2 PERFORMANCE REQUIREMENTS

- A. Surface-Burning Characteristics: Comply with ASTM E 84.
 - 1. Flame-Spread Index: 0 (Class A).
 - 2. Smoke-Developed Index: 45 (Class A).

NOTE TO SPECIFIER: Refer to the following definitions when applying acoustical requirements to the ceiling assembly.

NRC: Noise reduction coefficient.

SAA: Sound absorption average

- B. Acoustical Performance: Sound absorption [**NRC**] [**or**] [**SAA**] in accordance with ASTM C 423-08A.

NOTE TO SPECIFIER: Select from ratings below to suit ceiling application. Performance is based on the complete assembly.

- 1. 0.80 to 1.05.
- 2. 0.60 to 0.80
- 3. 0.50 to 0.60.
- 4. Not less than 0.65.
- 5. Not more than 0.35.

2.3 STRETCHED-FABRIC CEILING SYSTEMS

NOTE TO SPECIFIER: Copy below and re-edit for each type of system.

NOTE TO SPECIFIER: Field finished track to be painted AFTER installation of fabric.

- A. The system components shall consist of the following.
 - 1. Track: Extruded PVC frame.
 - a. CC:

- 1) Color: **[White] [Beige] [Black] [Field finished]**.
 - b. CW:
 - 1) Color: **[White] [Beige] [Black] [Field finished]**.
 - c.C10 QS:
 - 1) Color: **[White] [Field finished]**.
 - d. C11 QS:
 - 1) Color: **[White] [Field finished]**.
2. Track: Extruded PVC insert and aluminum frame.
- a. CCA: Available in mill finish only.
 - b. CWA: Available in mill finish only.

NOTE TO SPECIFIER: The next two selections are used for floating ceilings or clouds.

- c. CPA67:
 - 1) Finish: **[Mill] [Clear anodized] [Black baked enamel] [White baked enamel]**.
- d. CRA68:
 - 1) Finish: **[Mill] [Clear anodized] [Black baked enamel] [White baked enamel]**.

B. Fabric: Polyester knitted fabric with polyurethane coating.

NOTE TO SPECIFIER: Select one of the fabrics below from the CLIPSO product line.

- 1. 705S:
 - a. Color: **[Optical White] [Classic White]**.

NOTE TO SPECIFIER: Custom colors are available for orders over 7,000 square feet.

- 2. 705C:
 - a. Color: **[Black] [Beige] [Egg Shell] [Vanilla] [Saffran] [Chocolate] [Light Pink] [Rosewood] [Sky Blue] [Steel Blue] [Royal Blue] [Water Green] [Mint Green] [Pearl Grey] [Mouse Grey] [Green Grey] [Custom]**.

NOTE TO SPECIFIER: Custom colors are available for orders over 7,000 square feet.

- 3. 705A:

a. Color: [Optical White] [Black] [Beige] [Egg Shell] [Vanilla] [Saffran] [Chocolate] [Light Pink] [Rosewood] [Sky Blue] [Steel Blue] [Royal Blue] [Water Green] [Mint Green] [Pearl Grey] [Mouse Grey] [Green Grey] [Custom].

4. 495D: Optical White, Classic White, and Black
5. 705AB: Optical White.
6. Printed: Large-format Digital Images.
7. Printed Translucent: Large-format Digital Images.

1.2 INSTALLATION ACCESSORIES

A. Fasteners: Screws for profile installation as required for substrate.

B. Tension Profile:

1. Material: PVC.
2. Weight: 0.7 ounces per foot.

C. Frame reinforcement:

1. Material: Aluminum.
2. Weight: 1.9 ounces per foot.
3. Fasten with frame brackets.

D. Frame Bracket:

1. Material: Steel
2. Weight: 1.1 ounces per foot.

PART 3 - EXECUTION

3.1 EXISTING CONDITIONS

- A. Examine the condition of the substrate and the conditions under which the work of the Section is to be performed. Notify the Contractor in writing of any unsatisfactory conditions.
- B. Do not proceed with the work until unsatisfactory conditions have been corrected in a manner satisfactory to the Installer.

3.2 PREPARATION

NOTE TO SPECIFIER: Retain below for large areas in excess of 16 feet 8 inches that require jointing system tracks.

- A. Measure each area and establish layout of seams within a given area.
- B. Acclimatize profiles & aluminum frames for minimum of 24 hours at ambient temperature and humidity conditions indicated for spaces when occupied for their intended use.

3.3 INSTALLATION

- A. General: Install stretched-fabric systems in accordance with written instructions.
 - 1. Provide continuous perimeter tracks of each profile indicated.
 - 2. Install framing around penetrations as required.
 - 3. Tightly fit framing to adjacent construction and screw to substrate.
 - 4. Profiles are to be screwed into wood sub-straits and stapled with divergent staples when being fastened into Gypsum Board.
 - 5. Install acoustical absorbent material (supplied by others) based on NRC Value Specified by Architect.

NOTE TO SPECIFIER: Retain below if fabric seams are necessary due to room dimensions.

- 6. Install stretched-fabric systems vertical and plumb, unless otherwise indicated; true in plane, parallel seams.
- B. Fabric Installation: Apply fabric monolithically in continuous run over area, without joints or reveals, except where seams are indicated.
 - 1. Fabric Seams: Sewn seams are not permitted.
 - 2. Stretch fabric between fixing points around the entire perimeter of the room.
 - 3. Use CLIPSO spatula to anchor fabric within track along the entire perimeter of the room.
- C. Thermo-retraction: As necessary to remove visible wrinkles or creases with a heat gun.
- D. Finishing: Trim edges of fabric at track.

3.4 CLEANING

- A. Tuck in excess fabric and remove loose threads.
- B. Spot clean with a clean rag, soap, and water as needed.

3.5 PROTECTION

- E. Protect installed product from damage during construction.

END OF SECTION 095443