

**SECTION 09545
WHISPERSPAN ACOUSTICAL CEILING SYSTEM**

PART 1 GENERAL

1.01 SUMMARY:

A. System Description:

WhisperSpan is site-fabricated acoustical fabric ceiling system consisting of a custom wide span fabric stretched over an acoustical core by means of rigid polymer extrusions as shown on the drawings and as manufactured by **Whisper Walls®** (800) 527-7817 and known as **Whisper Walls® WhisperSpan**.

1.02 SUBMITTALS:

A. Product Data:

Submit manufacturer's product specifications including certified laboratory test reports and other data as required to show compliance with the application.

B. Samples:

Provide 12" x 12" samples of fabrics, core, and representative samples of rigid polymer mounting devices.

C. Certified Test Reports:

Submit test data from an independent testing agency, acceptable to authorities having jurisdiction, evidencing that the systems components comply with requirements indicated for fire and toxicity performance characteristics.

1.03 QUALITY ASSURANCE:

A. Fire Hazard Classification: All fabrics, cores and mounting devices shall pass ASTM E84, Class A for flame spread and smoke.

Smoke developed Index: **5**

Flame spread Index: **10 "Class 0-25" (Class A)**

B. Minimum Noise Reduction Coefficient (NRC) of 0.80 with a 1" system and Acoustitherm 600 fiberglass core, per ASTM C423 (type A mounting).

C. Installer Qualifications: Installation shall be performed by an authorized entity licensed and trained for **Whisper Walls®**.

D. Prefabricated panels are not acceptable for this specification.

1.04 DELIVERY, STORAGE AND HANDLING:

A. Protect WhisperSpan system components from excessive moisture in shipment, storage, and handling. Deliver in unopened bundles and store in a dry area with adequate air circulation. Do not deliver material to building until all "wet conditions" such as concrete, plaster, paint, and adhesives have been completed and cured to a condition of equilibrium.

1.05 PROJECT CONDITIONS:

A. Do not install **Whisper Walls®** WhisperSpan ceiling system until space has been enclosed and is weathertight, and until other finishes and wet-work in the space have been completed and are nominally dry, and until ambient conditions of temperature and humidity will be continuously maintained at values near those indicated for final occupancy.

1.06 MAINTENANCE:

A. Extra Stock: As an option, matching replacement stock of fabric of custom **Whisper Walls®** WhisperSpan may be provided upon the request of the owner.

B. Cleaning: WhisperSpan fabric may be cleaned using water based cleaning agents. Consult **Whisper Walls®** for complete details.

1.07 PRODUCT DRAWINGS:

A. Installation company shall submit a finish schedule, typical elevations, and details to the Architect and the General Contractor, as required.

PART 2 PRODUCTS

2.01 SYSTEM DESCRIPTION:

A. Provide a complete WhisperSpan stretched fabric system, including anchoring as manufactured by **Whisper Walls®** and consisting of the WhisperSpan wide span fabric field applied over core material and mounted securely by continuous one-piece polymer extrusions, while still allowing for fabric removal and replacement without the removal of the means of attachment or disturbing adjacent panels.

System Manufacturer: Whisper Walls®
10957 E. Bethany Drive
Aurora, CO 80014

2.02 MATERIALS:

A. Fabric:

1. Fabric shall be WhisperSpan 100% Trevira CS fabric provided by **Whisper Walls®**. Fabric shall be standard white or other color in the WhisperSpan fabric line as specified by the Architect.
2. Fabric shall be available in a maximum dimension of 16 feet or 5 meters.
3. Minimum light reflectance for Natural (white) fabric shall be .80 per ASTM D 2244.

B. Core Material:

1. Standard system consisting of 1" Acoustitherm 600 fiberglass core or thickness and density as indicated. Other densities and configurations available including dual density cores.
2. Facing fabric is not to be adhesive-applied to acoustical core. Acceptable systems will stretch facing fabric over acoustical core material, leaving fabric independent from core surface.

C. Fabric Mounting System:

1. Standard **Whisper Walls®** one-piece square edge polymer Perimeter/Midwall extrusions of 1 ½" thickness. Other depths and configurations available as selected by the Architect and approved by **Whisper Walls®**.

D. Anchoring System:

- a. Use **Whisper Walls®** stapler that has the ability to mechanically diverge staples for securely attaching extrusions to drywall with 18 gage wire size.
- b. Standard fasteners recommended by the manufacturer to securely fasten extrusions to substrates other than drywall.

PART 3 EXECUTION

3.01 DELIVERY STORAGE AND EXAMINATION:

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

B. Field measure each ceiling area which is to receive the stretched fabric system to establish correct layout.

3.02 INSTALLATION:

A. Install materials in accordance with the manufacturer's instructions and complying with governing regulations, fire resistance rating requirements indicated and industry standards applicable to the work.

B. Fasten the rigid polymer extrusions to the surfaces which are to receive the treatment plumb, straight, flush and in proper alignment. Secure with **Whisper Walls®** mechanical diverging stapler using 1 inch 18 gage staples spaced on 2 inch centers.

C. Install the core material required, continuous and flush, to the shoulder of the track and secure in place with recommended fasteners.

D. Cut the fabric from each roll maintaining sequence of drops and matching direction of weave for sequential and uniform installation.

E. Stretch the fabric and secure into the locking jaws of the extrusions so that it will be smooth, free of wrinkles and the weave straight and parallel to perimeter anchors, plumb, and aligned horizontally and vertically. Gluing or stapling of fabric will not be acceptable for this work.

F. Examine fabric as it is installed for damage, imperfections, poor color match, or other deficiencies. Replace with acceptable material as directed by the Architect.

3.03 CLEANING AND PROTECTION:

A. Clean exposed surfaces of acoustical ceiling system, comply with manufacturer's instructions for cleaning and repair of minor finish damage. Remove and replace work which cannot be successfully cleaned and repaired to permanently eliminate evidence of damage.

B. The Installer shall advise the Contractor of required protection for the WhisperSpan, including temperature, humidity limitations, and dust control, so that the work will be without damage and deterioration at the time of acceptance by the Owner.

END OF SECTION 09585