

**SECTION 09 84 14**

**1/2" SITE FABRICATED ACOUSTICAL WALL SYSTEM**

**Beveled Edge, Low Density ReCore**

**PART 1 — GENERAL**

**1.01 SUMMARY**

- A. Provide Site Fabricated Acoustical Wall Systems as shown on the drawings, as specified herein and as needed for a complete and proper installation.
- B. Contractor will provide Manufacturer's Standard Fabric Replacement Warranty.
- C. Contractor will perform a "value engineering" review of provided drawings, seeking product manufacturers input as appropriate, and make recommendations for the benefit of the project.

**1.02 RELATED WORK**

- A. Documents affecting work of this section include, but are not necessarily limited to, General Conditions, Supplementary Conditions, and sections in Division 1 of these Specifications.

**1.03 SUBMITTALS**

- A. General: Submit five (5) copies of the following in accordance with Conditions of Contract and Division 1 Specification Sections.
- B. Product Data: Submit manufacturer's technical data, installation instructions, and maintenance and cleaning instructions.
- C. Certified Test Reports: Submit test data for the manufacturer's products from an independent testing agency, acceptable to authorities having jurisdiction, evidencing the panel components and/or assemblies comply with requirements indicated for acoustical and fire performance characteristics.
- D. Provide a copy of the Manufacturer's Standard Fabric Replacement Warranty and Manufacturer's Lifetime Warranty on Track, 10-Year Warranty on ReCore certificates, available at manufacturer's website: [www.fabricmate.com](http://www.fabricmate.com). All Warranty Certificates must include the Project Registration Number to ensure validity of Manufacturer's Warranty. Warranty certificates without a registration number are not valid.
- E. Samples:
  - 1. Fabric — Submit manufacturer's standard size swatches of acoustic fabric.
  - 2. Core Material — Submit 8 1/2"X 11" samples of each core material used, showing full range of materials, thicknesses, acoustics, and densities.

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3. Track — Submit samples of manufacturer's "Track" or "Frame" showing full range of edge profiles, thicknesses, and details for each type of acoustical panel. Where more than one edge profile is used on a panel, clearly show how each edge profile transitions into a different edge profile.
4. Samples — Provide 8 ½"X 11" samples of each type of panel used, including representative samples of each thickness and panel type. Install samples on a substrate of sufficient firmness to allow the samples to be handled without damage.

#### 1.04 QUALITY ASSURANCE

- A. Contractor: Provide verifiably genuine products for each type of wall panel as produced by the manufacturer(s), including recommended primers, adhesives, and sealants. The manufacturer's published product literature shall clearly indicate compliance of wall panels with requirements indicated.
- B. Both individual components and finished assemblies shall meet the following as appropriate:
  1. Thickness: 1/2", Density: 4.5 pcf.
  2. Fire Performance Characteristics: Provide acoustical wall panels with surface-burning characteristics as indicated below, as determined by testing assembled materials and construction according to ASTM E-84 Class A, by a testing organization acceptable to authorize having jurisdiction.
    - i. Flame Spread: 25 or less
    - ii. Smoke Developed: 450 or less
  3. Sound Absorption Characteristics: Provide acoustical wall panels with a noise reduction coefficient (NRC) of 0.4 or better.
  4. Be free of volatile organic compounds (VOCs).
  5. Fungi Resistance Certification of core material in accordance with ASTM C 1338.

#### 1.05 DELIVERIES, STORAGE, AND HANDLING

- A. Protect the Fabric, core material, and track from excessive moisture in shipment, storage, and handling. Deliver in unopened bundles and store in a dry place with adequate air circulation. Do not deliver material until wet work such as concrete and plaster has been completed.

#### 1.06 PROJECT CONDITIONS

- A. Do not begin installation until spaces to receive acoustical panels have been enclosed and maintained at approximately the same humidity and temperature conditions as planned for occupancy. Maintain temperature conditions as recommended by panel manufacturer.

#### 1.07 EXTRA MATERIALS

- A. No extra materials are to be provided.

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1. No free fabric to be provided, except as provided by the Manufacturer's Standard Fabric Replacement Warranty.
2. Contractor to provide Owner/District additional system materials at manufacturer's current retail price.

## **PART 2 — PRODUCTS**

### **2.01 ACOUSTICAL WALL PANEL MATERIALS**

- A. Available Manufacturers: Subject to compliance with requirements, the product used as basis-of-design is provided by the manufacturer listed below:
- B. Acoustical Site-fabricated Track System, as distributed by Fabricmate Systems, Inc., P:(805)642-7470, F:(805)642-3154, Toll Free:(866)622-2996, [www.fabricmate.com](http://www.fabricmate.com). No substitutions accepted.
  1. Contractor shall provide a Standard Fabric Replacement Warranty.
- C. Design Requirements:
  1. Stretched fabric panel system shall consist of continuous perimeter and intermediate mounting extrusions that are site fabricated, and applied directly to the wall surface.
  2. Fabric face shall be stretched over core materials and tucked into the track's locking jaws, leaving fabric floating above core surface. Installation of fabric facing shall not utilize any adhesives, nails, tacks, screws, sewn seams, thermally bonded seams, or tape.
  3. Systems shall allow for removal and replacement of fabric from individual panels. Removal of fabric shall provide access to surface behind fabric. Fabric shall be removable and replaceable without dismantling, removal, damaging, or replacement of the track extrusions or core material.
  4. All fabrics shall be evaluated by the contractor for suitability with its system, the intended application, and for warranty purposes. When uncertain, the contractor should consult with the system manufacturer.
  5. Framework: One-piece extruded polymer track system with jaws of sufficient strength to securely hold fabric in place after repeated applications. Minimum track wall thickness specification shall be .065". Track style and color (standard colors or specified PMS color) to be selected by architect.
  6. Edge detail: Beveled.
  7. Intermediate detail: Beveled or Square.
  8. Outside Corner Detail: Fabric shall wrap around MDF backed corners in one piece without seams or joints unless otherwise indicated or necessary.
  9. Prefabricated panels "fabric or vinyl wrapped" do not satisfy the intent of this specification and will not be accepted.
  10. Hinged, self-locking (snap-lock) type mounting extrusions do not satisfy the intent of this specification and will not be accepted.
  11. Fire resistance: Complete panel assembly shall have an ASTM E-84 Class A.
- D. Acoustical wall panels: Fabricmate Systems Site-fabricated track system. No substitutions accepted.

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1. Track profile: Fabricmate Systems FS200 and FS210 for perimeter and FS100 or FS230 for intermediate joints as indicated on drawings.
2. ReCore polyester core material: 1/2" thick, 4.5 pcf white, certified tackable, ASTM E84 rated insulation board to fit within track's perimeter. Said board to have a minimum 50% post-consumer content. Material density to be consistent throughout the material.
3. Fabrics: **Suitable for the particular application, as selected by the Architect/Designer from the Manufacturer's Standard Fabric offering. Information regarding Fabric Application, Performance and Pricing Group is available at the manufacturer's website: [www.fabricmate.com](http://www.fabricmate.com).**
  - i. Fabric Manufacturer: \_\_\_\_\_
  - ii. Fabric Pattern: \_\_\_\_\_
  - iii. Fabric Width: \_\_\_\_\_
  - iv. Fabric Color: \_\_\_\_\_
  - v. Fabric Pricing Group: \_\_\_\_\_

### PART 3 — EXECUTION

#### 3.01 INSPECTION

- A. Contractor must examine substrates and conditions under which the acoustical system is to be applied and notify the Architect in writing of conditions detrimental to proper and timely completion. Do not proceed with work until unsatisfactory conditions have been deemed corrected and acceptable to contractor.
- B. Verify all stationary objects abutting acoustical panels are installed (i.e. casework, marker boards, door and window jams, ceiling) prior to installation.

#### 3.02 INSTALLATION

- A. Install acoustical wall panels in locations indicated on plans. Comply with manufacturer's printed instructions for installing site-fabricated track systems.
- B. Track: Install perimeter and intermediate track using screws, anchors and staples as project conditions warrant. Secure track base to wall (or ceiling) to prevent track framework from separating away from the wall. For masonry surfaces use a continuous bead of PL200 or equal with conical anchor and pin/nail/rivets every 6-8 inches per manufacturer's recommendation.
  1. Follow contours of the wall and scribe to adjoining work accurately at borders, penetrations, and imperfections.
  2. Track around all openings within a panel when needed as per manufacturer's instructions.
  3. Allow adequate spacing for insertion of installation tool.

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4. Wrap fabric around outside corners in one piece without seams or joints, creating one panel on two different wall planes. Fabric shall float over the corner matching the adjacent track's detail.
- C. Core Material — Prep surfaces that receive treatment; remove wall plates and other obstacles. Attach core to mounting surface per manufacturer's specifications. Cut core material to accurately fit inside tracked perimeter, maintaining the same plane. Mechanically fasten core to prevent air gaps between core and wall and to assure proper adhesion.
1. Assure that all fixtures have the necessary backing to keep them flush with the acoustical panels.
- D. Fabrics — Stretch fabric into the track's locking jaws using the manufacturer's recommended "rolling tool", keeping fabric weave plumb, level and true in proper relation to the building lines without ripples, waviness, or "hourglass" effects.
1. Use of adhesives or mechanical fasteners is strictly prohibited.
  2. The Fabricmate "floating-fabric" design shall not be compromised. Fabric shall not be glued or attached to the core material in any way.
  3. Fabric shall be stretched and tensioned sufficiently taut to avoid sagging under varying year-round temperature and humidity conditions.
  4. Fabric shall maintain its shape after being touched or leaned against without leaving any indentations, sags, or blisters.
  5. Ceiling applications shall not deviate more than 1" from true plane of ceiling in 20' span.

### 3.03 CLEANING AND PROTECTION

- A. Clean exposed surfaces of acoustical panels; comply with manufacturer's instructions for cleaning and repair of minor finish damage. Remove and replace work that cannot be successfully cleaned and repaired to permanently eliminate evidence of damage.
- B. The sub-contractor shall advise the general contractor of the required protection for the Fabricmate Systems panels, such as; temperature and humidity limitations and dust control, so that the finished work will be without damage and deterioration at the time of acceptance by the Owner/District.

### 3.04 WARRANTY

- A. All tackable and acoustical wall and ceiling panels shall have a warranty against defects or workmanship of not less than 5-Years, commencing on the date of substantial completion.
  1. Contractor shall provide a Standard Fabric Replacement Warranty.
  2. All certificates of warranty must include the Manufacturer's Project Registration Number, which must be obtained by installer prior to the date of installation. Project Registration Numbers may not be obtained after the installation has commenced.
  3. Warranty Certificates without a Manufacturer's Project Registration Number shall be deemed as invalid and unenforceable.

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3.05 SECURITY

- A. Contractor shall meet all requirements, as described by California Education Code §45125.1.

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