

SECTION 09 77 23

FABRIC-WRAPPED PANELS

(Also applicable: 10 11 23.13 Fixed Tackboards and 09 84 13 Fixed Sound-Absorptive Panels)

Fabricmate Systems, Inc. is a leading supplier of pre-assembled panels and stretched-fabric wall systems. Both our Interactive Panel System (IPS Pre-assembled Panels) and stretched-fabric wall systems are available in acoustical, tackable, and magnetic versions. The Fabricmate IPS Pre-assembled Panels are shipped ready to mount and can be quickly and easily installed using basic tools and techniques. The installed panels, available in a variety of standard and custom sizes, provide functional and design solutions for walls and ceilings (baffles and clouds). The panels can be composed of products that have up to 100% recycled content for sustainability. The panels can exhibit outstanding acoustical and tackable qualities. Fabrics can be easily changed when required for repairs or when redecorating, resulting in significantly reduced maintenance costs. IPS Pre-assembled Panels and stretched-fabric systems can also be used for ceiling applications. IPS Pre-assembled Panels can be configured for use as baffles or clouds. Contact Fabricmate Systems for additional information.

ENVIRONMENTAL CONSIDERATIONS: 1. Many backing materials (substrates/cores) and fabrics with high recycled content are available. 2. Fabricmate products can be used to improve the acoustical characteristics of a space. 3. Fabricmate products can also provide thermal insulation. 4. Our standard products have low to no formaldehyde or other VOC content.

DRAWING COORDINATION: Shows locations where IPS Pre-assembled Panels are to be installed, locations of joints and any special requirements such as changes of fabrics or substrate/core, changes in direction, pattern matching, and fabrics with repeats. Contact our value engineering group for assistance with specific issues or items.

SPECIFICATION COORDINATION: Edit this guide specification to meet your project requirements. Remove language that is not applicable and add additional language as required. Coordinate work in these sections with other sections of the specifications.

HIDDEN TEXT: Use your word processor's "Hidden Text" option to display or print specifier notes. In Microsoft Word go to Tools|Options, select the View tab and check the "hidden text" box.

DESIGN ASSISTANCE: Design details can be found in Fabricmate technical manuals and at www.fabricmate.com that describe design and installation requirements for most applications. For special requirements, value engineering options, and names of local installers contact Fabricmate at (866)622-2996 toll free or outside the United States at (805)642-7470 or e-mail us at info@fabricmate.com.

PART 1 - GENERAL

1.01 SUMMARY

- A. Section Includes: IPS Pre-assembled Panels.
- B. Related Work:
 - 1. Section [09 77 13 – Stretched-Fabric Wall System.]

1.02 REFERENCES

- A. ASTM E84 – Surface Burning Characteristics of Building Materials.
- B. ASTM C208 – Cellulosic Fiber Insulating Board.
- C. ASTM C423 – Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method.
- D. ASTM C612 – Mineral Fiber Block and Board Thermal Insulation.
- E. NFPA 255 – Surface Burning Characteristics of Building Materials.
- F. NFPA 701 – Fire Tests for Flame Propagation of Textiles and Films.

1.03 SYSTEM DESCRIPTION

- A. System shall consist of pre-assembled panels. Panels consist of an acoustical, tackable, or magnetic (or combination thereof) backing framed completely in high-impact plastic to secure the fabric covering and to prevent edge damage. The specified fabric covering will free-float above the backing eliminating most visible surface damage. The system shall allow for removal and replacement of fabric with the panel mounted in-place (beveled edge profile).

1.04 SUBMITTALS

- A. Comply with Division 01 submittal requirements.
- B. Product Data:
 - 1. Manufacturer's Technical Data: Submit for [track], [backing material,] and fabric showing compliance with Specifications.
 - 2. Installation Instructions: Submit track manufacturer's installation instructions.
 - 3. Cleaning Instructions: Submit fabric manufacturer's cleaning and instructions for fabric.
 - 4. [Fabric Replacement Agreement: Submit sample copy.] (Note: This is a program where it is specified that the installer or manufacturer shall agree to provide a percentage of the amount of the fabric installed on the project for a specific period of time following the installation).
- C. Shop Drawings:
 - 1. [If necessary to supplement information shown on Drawings,] show types and locations of panels and fabric direction [pattern matching or repeats].
 - 2. Show special installation instructions not included in product data.
 - 3. [Printed Graphics: _____.]
- D. Samples:
 - 1. Panel: [two] [_____] 1' x 2' IPS Panels.
 - 2. [Fabric Submittal for Color Selection: Submit [two] [_____] sets of fabric manufacturer's standard tip cards showing full range of colors, textures, and patterns available.]
 - 3. [Fabric: Submit [two] [_____] swatches in fabric manufacturer's standard size showing fabric, color, texture and pattern.]
 - 4. [Accessories: Submit [one] [_____] of each type of accessory kit.]
- E. Installer Qualification Statement: Submit certification of installer qualifications.
- F. QUALITY ASSURANCE
 - 1. In accordance with panel manufacturer's quality assurance program.
 - 2. Mock-Up: Install panel on wall selected by Architect. Notify Architect and allow Architect to review mock-up. Make modifications to mock-up as required by Architect. Accepted mock-up establishes quality for remaining work and may remain as part of Project.

1.05 DELIVERIES, STORAGE, AND HANDLING

- A. Comply with instructions of manufacturer. Protect from moisture in shipment, storage, and handling. Deliver in unopened bundles and store in a dry place with adequate air circulation. Do not deliver [backing materials or] fabrics until wet work such as concrete and plaster has been completed.

1.06 PROJECT CONDITIONS

- A. Do not install panels until building is enclosed and temperature and humidity are maintained at approximate conditions planned for occupancy and in accordance with instructions of manufacturer.
- B. Install panels under lighting conditions similar to permanent lighting. [If permanent lighting is not operable when fabric is installed, provide not less than 50 foot candles of illumination on surfaces to be covered.]

1.07 WARRANTY

- A. Provide panel manufacturer's five-year limited warranty against defects and workmanship.

1.08 EXTRA MATERIALS

- A. Fabric: Furnish [two] [_____] percent of gross wall system area for each color, pattern, and type of fabric used. Pack for storage with protective covering and label.
- B. Accessories: Furnish extra [ten] [_____] percent of each accessory.

1.09 NO-COST FABRIC REPLACEMENT PROGRAM

- A. Provide fabric replacement agreement signed by [installer.] [Fabricmate Systems.] Owner will not be liable for additional payments for work performed under agreement.
- B. Agreement shall have a [3-year term and include replacement of up to ten percent] [15-year term and include replacement of up to fifteen percent] of fabric on Project.
- C. Provide materials and labor to replace fabric damaged for any reason. Replacement fabric may not exceed cost of original fabric.
- D. If fabric in excess of specified percent requires replacement during term of agreement, [installer] [Fabricmate Systems] shall [replace] [provide] fabric at standard prices plus labor at the installer's standard rates.
- E. [Installer] [Fabricmate] shall make reasonable efforts to respond to Owner's service requests within 48 hours.
- F. Agreement will not cover removal or replacement of items not specified in this section.
- G. If Owner chooses to install or maintain the IPS Pre-assembled Panels, Fabricmate shall sell Owner additional panels, fabric and installation tools at standard terms and prices.

PART 2 - PRODUCTS

2.01 "OWNER'S STANDARD" PRODUCTS

- A. Products in this Section are designated "Owner's Standard" products and Owner will accept no substitutes.

2.02 PANELS

- A. Manufacturer: Fabricmate Systems Inc. (www.fabricmate.com); (866)622-2996 or (805)642-7470 (from outside the United States), info@fabricmate.com.
- B. Fabrication: Pre-assembled panels. Panels consist of an acoustical, tackable, or magnetic (or combination thereof) backing framed completely in high-impact plastic to secure the fabric

covering and to prevent edge damage. The specified fabric covering will free-float above the backing eliminating most visible surface damage. The system shall allow for removal and replacement of fabric with the panel mounted in-place. PRE-WRAPPED PANELS WHERE FABRIC IS GLUED DIRECTLY TO THE BACKING MATERIAL WILL NOT BE ACCEPTED.

- C. Performance: Panel frame shall be able to securely hold fabric without sagging, allow fabric to be easily removed, and permit repeated cycles of fabric attachment and removal.
- D. Depth: [½”] [1”] [As shown on Drawings.] [As required to accommodate backing materials.]
- E. Color: [Natural] [Black] [Paint with [_____]] to match color selected by Architect.]
- F. Edge Profile:
 - 1. Profile: [Square] [Beveled] [Square and beveled as shown on panel detail drawings.]
 - 2. Type: [Fabric inserts from front. Side of frame is exposed.] [Fabric inserts from rear and wraps frame.]
- G. Fasteners: Provide double-sided tape, hook & loop tape, impaling clips, z-clips, or other fasteners suitable for use on different surfaces as recommended by the panel manufacturer.

2.03 BACKING MATERIALS

- A. Tackable/Acoustical Backing Material:
 - 1. Type: [Fabricmate ReCore® Single-Solution Substrate – 65% post consumer product content, lightweight, tackable, high-impact], [Wood fiberboard complying with ASTM C208] [or] [mineral fiberboard equal to USG Micore].
 - 2. Density: [½”-7.5 pcf minimum] [1”- 6.8 pcf minimum].
 - 3. Thickness: [1/2”] [1”].
 - 4. Noise Reduction Coefficient (NRC): 0.25 – 0.45, ASTM C423, Type A mounting.
 - 5. Surface Burning Characteristics: ASTM E84 Class A.
 - 6. Recycled Content: up to 65%, Post-Industrial Content: up to 100%.
- B. Acoustical Backing Material:
 - 1. Types: [Fabricmate ReCore® Single-Solution Substrate – 65% post consumer product content, lightweight, tackable, high-impact] or [fiberglass].
 - 2. Thickness: [1 inch], [____inch].
 - 3. Density: [6.8 pcf], [6 pcf], [6 pcf (with 1/8 inch thick, 12 pcf minimum “High Impact/Tackable” facing)], [____pcf].
 - 4. NRC: 0.80, Type A mounting.
 - 5. Surface Burning Characteristics: ASTM-E84, Class A.
 - 6. Thermal Insulation: 4.5 R-Value .
 - 7. Recycled Content: [____] % post-industrial.
- C. Recycled Acoustical Backing Material:
 - 1. Types: [Fabricmate ReCore® Single-Solution Substrate – 65% post consumer product content, lightweight, tackable, high-impact] or [Cotton.]
 - 2. Thickness: 1”. [____.]
 - 3. Density: [6.8 pcf], [6.0 pcf].

4. NRC: 0.75, Type A mounting.
 5. Surface Burning Characteristics: ASTM-E84, Class A.
 6. Recycled Content: [65% post-consumer], [80% post-industrial].
- D. [_____] backing material:
1. Type: [_____].
 2. Density: [_____].
 3. Thickness: [_____].
 4. Noise Reduction Coefficient (NRC): [_____].
 5. Surface Burning Characteristics: [_____].
 6. Recycled Content: [_____].
- E. Magnetic Surfaces: To add magnetic properties to a backing material specify Mag-tack® .040” magnetic receptive layer. The tackability of tackable backing materials is maintained.
- F. Adhesive: Provide construction-grade adhesive suitable for conditions of use.
- G. Low-VOC, Low-Odor Adhesive: DYNAMITE 111 Heavy-Duty Clay Non-Strippable Wall covering Adhesive by Gardner-Gibson.
- H. Fasteners: Provide types suitable for conditions of use.

2.04 FABRIC

- A. Each type of fabric shall be from a single run or lot.
- B. Fabric:
1. Product: FR701, Style 2100 by Interface Fabrics.
 2. Fiber: 100% Recycled Polyester.
 3. Weight: 16 +/- 0.5 oz./lin. yd.
 4. Usable Width: 66”.
 5. Repeat: None.
 6. Flammability: Passes NFPA 701 large scale test.
 7. Surface Burning Characteristics: ASTM E84 is Class 1 or Class A.
 8. Color/Pattern/Texture: [_____]. [Not more than [two] [_____] selected by Architect from fabric manufacturer’s standards.]
- C. Fabric:
1. Product: [_____].
 2. Fiber: [_____].
 3. Weight: [_____].
 4. Usable Width: [_____].
 5. Repeat: [_____].
 6. Flammability: [_____].
 7. Surface Burning Characteristics: [_____].
 8. Color/Pattern/Texture: [_____].
- D. Printed Graphics: [_____].
- E. Fabric Backing: Acoustically transparent, spunbonded polypropylene scrim complying with ASTM E84 Class A. Backing shall be factory applied to fabric or installed on wall system tracks.

2.05 ACCESSORIES

- A. Stapler Kit: Provide one light-duty stapler, a box of 3/8” staples for each room with [tackable] [or] [nailable] wall system, and user instructions.
- B. “Pintainer” Accessory Kit:
 - 1. “Pintainer”: In each room with [tackable,] [and] [magnetic] wall system, provide a clear plastic tube with colored, spill-resistant end cap that opens when squeezed. End caps shall be [_____] color.
 - 2. Graphic: [Container shall have imprint or decal with [name of school.] [2-color artwork as supplied by Architect.]
 - 3. Contents: Fill container with [approximately 100 push pins in rooms with [tackable wall system] [and] [an assortment of magnets in rooms with magnetic wall system.]

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Examine substrates and conditions under which the wall system is to be applied and notify Architect in writing of conditions detrimental to proper and timely completion. Do not proceed until unsatisfactory conditions have been corrected.
- B. Install IPS Pre-assembled Panels in accordance with the manufacturer's instructions.
- C. Layout: Panels shall be installed [tiled vertically] [tiled horizontally] [in a mosaic] [art design] [_____] per drawing .
- D. Fabric:
 - 1. Install fabric plumb, level, and in proper relation to panel edges.
 - 2. Direction of fabric shall be consistent on panel and on adjacent panels [except where otherwise shown on Drawings.] Install fabric with consideration for pattern matching and repeats.
 - 3. Stretch over backing material and tucked into the panel frame’s locking jaws using panel manufacturer’s professional installation tool.
 - 4. Fabric shall “float” above backing; do not fix in place with adhesives, fasteners, sewn seams or tape.
 - 5. Fabric shall be sufficiently taut to avoid sagging under seasonal temperature and humidity variations; shall maintain its shape after being touched or leaned against without leaving any indentations or blisters; and shall be free from ripples, waviness or "hourglass" effects.

3.02 CLEANING AND PROTECTION

- A. Clean exposed surfaces and repair minor damage in accordance with the panel manufacturer's instructions.
- B. Protect finished installation against damage by other work.

3.03 SCHEDULE

- A. Lobby – Room 110.
 - 1. Quantity: 2
 - 2. Size: 1/2”T x 2’W] x 4’L.
 - 3. Backing Material: ReCore®.
 - 4. Frame Profile: Beveled
 - 5. Frame Color: Natural.
 - 6. Fabric: FR701.

7. Fabric Color: 549 Chrome Green on east wall, 402 Green Neutral elsewhere.

If select fabric has a direction or repeat, specify fabric orientation on panel.

8. Fabric Direction: Horizontal

END OF SECTION

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