SECTION 10100

VISUAL DISPLAY BOARDS

PART 1 - GENERAL

1.01 DESCRIPTION

A. This Section describes the requirements for furnishing and installing the following types of visual display boards:

1. Markerboards.

2. Fabric-covered tackable surface.

1.02 REFERENCE STANDARDS

A. Leadership in Energy and Environmental Design (LEED), www.usgbc.org/LEED (United States Green Building Council (USGBC).

1. LEED – NC v2.2 Reference Guide, first edition, dated December 2006.

1.03 SUBMITTALS

A. Refer to Section 01352 – LEED Requirements for LEED related submittal requirements.

B. Product Data: Manufacturer's technical data and installation instructions for each material and component part, including data substantiating that materials comply with specified requirements.

C. Shop Drawings: Include sections of typical trim members and dimensioned elevations. Show anchors, grounds, reinforcement, accessories, layout and installation details.

D. Samples: Full range of color samples for each type of markerboard, fabric-covered tackable surface, trim and accessory. Furnish 12-inch square samples of sheet materials and 12-inch lengths of trim members for color verification after selections have been made.

1.04 QUALITY ASSURANCE

A. Manufacturer: Unless otherwise acceptable to Architect, furnish markerboards and fabric-covered tackable surface by one manufacturer for the entire Project.

1.05 ENVIRONMENTAL QUALITY ASSURANCE

A. Applicable LEED Credits – Refer to Section 01352:

1. Credit EQc4.1 – Adhesives and Sealants.

2. Credit EQc4.4 – Composite Wood.

B. Adhesives used in fabrication of visual display boards shall be low VOC as specified in Section 01352.

PART 2 - PRODUCTS

2.01 APPROVED MANUFACTURERS

A. Carolina Chalkboard Co., Claridge Products and Equipment, Inc., Nelson Harkins or approved equal.

2.02 MARKERBOARDS

A. Porcelain Enamel Markerboards: Provide balanced, high-pressure-laminated porcelain enamel chalkboards of 3-ply construction consisting of face sheet, core material, and backing.

1. Face Sheet: 24-gauge enameling grade steel, exposed face coated with primer, ground coat, and color cover; concealed face coated with primer and ground coat. Cover coat shall be manufacturer's special writing surface with gloss finish intended for use with liquid felt-tipped markers.

2. Core: 3/8-inch thick particleboard or 1/4-inch thick tempered hardboard.

3. Backing Sheet: 0.015-inch thick aluminum sheet.

B. Metal Trim and Accessories: Minimum 0.062-inch thick aluminum. Provide straight, single-length units wherever possible. Miter corners to a neat, hairline closure.

1. Field-Applied Trim: Snap-on trim, with no visible screws or exposed joints. Trim shall be 1-1/2-inches wide.

2. Markertray: Manufacturer's standard continuous solid extrusion-type with ribbed section and smoothly curved exposed ends.

C. Finish aluminum trim and accessories with clear anodized finish.

D. Furnish each markerboard with 12 assorted color markers and a felt eraser.

E. Sizes: As scheduled on the Equipment Schedule.

2.03 FABRIC-COVERED TACKABLE SURFACE

A. Fabricate panels to sizes and configurations indicated. Attach facing materials to cores to produce installed panels with visible surfaces fully covered and free from wrinkles, sags, blisters, seams, adhesive or other foreign matter. Fabricate panels in factory to exact sizes required to fit wall surfaces based on field measurements.

B. Dimensional Tolerances of Finished Units: Overall height and width of panels: Plus or minus 1/16-inch.

C. Construction: Manufacturer's standard construction consisting of facing material laminated to front, edges and back border of Homasote core.

D. Thickness: ½-inch nominal thickness.

E. Fabric Facing Material: Guilford of Maine "Carina" style, color to be selected by the Architect.

F. Edge and Corner Detail: Square edges on all sides.

G. Mounting: Velcro or magnetic mounting system as approved by manufacturer.

PART 3 - EXECUTION

3.01 INSTALLATION

A. Deliver factory-built units completely assembled in one piece without joints.

B. Install units as indicated and in accordance with manufacturer's instructions. Maintain perimeter lines straight, plumb, and level. Provide grounds, clips, backing materials, adhesives, brackets, anchors, trim, and accessories required for installation.

3.02 ADJUST AND CLEAN

A. Verify that accessories required for each unit have been properly installed.

B. Clean units in accordance with manufacturer's instructions.

END OF SECTION

SECTION 10160

TOILET COMPARTMENTS

PART 1 - GENERAL

1.01 DESCRIPTION

A. This Section describes the requirements for furnishing and installing custom solid composite overhead-braced toilet compartments and wall hung urinal screens.

B. Related Sections:

1. Toilet accessories are specified in Section 10810.

1.02 REFERENCE STANDARDS

A. Leadership in Energy and Environmental Design (LEED), www.usgbc.org/LEED (United States Green Building Council (USGBC).

1. LEED – NC v2.2 Reference Guide, first edition, dated December 2006.

1.03 SUBMITTALS

A. Refer to Section 01352 – LEED Requirements for LEED related submittal requirements.

B. Product Data: Manufacturer's technical data for materials, fabrication, and installation, include catalog cuts of anchors, hardware, fastenings, and accessories.

1. Recycled Content: Furnish product data on post-consumer recycled content and post-industrial recycled content as a percentage of the full product composite.

2. Regional Materials: Furnish product data or letter stating the location (closest city, state) where product was manufactured (final processing or assembly) and, if available, the location where raw materials were harvested, extracted or recovered (mine, quarry, plantation, forest, recycling recovery center, etc.).

C. Shop Drawings: Furnish for fabrication and erection of assemblies not fully described by product drawings, templates, and installation instructions.

D. Samples: Full range of color samples for each type of unit required. Furnish 6-inch square samples of each color and finish on same substrate to be used in the work, for color verification after selections have been made.

1.04 QUALITY ASSURANCE

A. Field Measurements: Take field measurements prior to preparation of Shop Drawings and fabrication where possible. Allow for adjustments within specified tolerances wherever taking field measurements before fabrication might delay the work.

B. Coordination: Furnish inserts and anchors to be built into other work; coordinate delivery to avoid delay.

1.05 ENVIRONMENTAL QUALITY ASSURANCE

A. Solid composite toilet compartments shall include a minimum of 10-percent recycled content.

B. Applicable LEED Credits – Refer to Section 01352:

1. Credit MRc4 – Recycled Content.

PART 2 - PRODUCTS

2.01 APPROVED FABRICATORS

A. As approved by solid composite panel manufacturer.

2.02 MATERIALS

A. Solid Composite Panels: Trespa North America "Athlon DSQ" or approved equal, color selected by the Architect from manufacturer's complete color range, including premium colors.

1. Modulus of Elasticity: 1.5 million psi minimum.
2. Shear Strength: 2,000-psi minimum.
3. Compressive Strength: 24,000-psi minimum.
4. Weight: 93-pcf maximum.
5. Flammability: Self-extinguishing.
6. Water Absorption: 3-percent maximum.
7. Use Temperature: 350-deg. F. maximum.
8. Edges and Ends: Non-porous.
9. Will not support fungus or bacteria.
10. Uniform Load Deflection: ¼-inch maximum.
11. Screw Pull-out Strength: Per manufacturer's standards.

B. Pilaster Shoes and Caps: ASTM A167, Type 302/304 stainless steel, not less than 3-inches high, 20-gauge, finished to match hardware.

C. Stirrup Brackets: Either chromium-plated non-ferrous cast alloy or anodized aluminum, design to attach panels to walls and pilasters.

D. Hardware and Accessories: Heavy-duty operating hardware and accessories of chromium-plated non-ferrous cast alloy.

E. Anchors and Fastenings: Exposed fasteners of stainless steel, chromium-plated steel, or brass, finished to match hardware, with theft-resistant type heads and nuts. For concealed anchors, use hot-dip galvanized, cadmium-plated, or other rust-resistant protective-coated steel.

F. Overhead Bracing: Continuous extruded aluminum tubing in anti-grip profile, with clear anodized finish.

2.03 FABRICATION

A. General: Provide doors, panels, screens, and pilasters fabricated from solid composite panels. Furnish units with cutouts and drilled holes to receive partition-mounted hardware, accessories, and grab bars, as indicated. Fabrication panels in accordance with manufacturer's recommendations using proper tools and procedures.

B. Door Dimensions: Unless otherwise indicated, provide 24-inch wide in-swinging doors for regular stalls and 34-inch wide clear opening out-swinging doors at stalls equipped for use by the handicapped.

C. Overhead-Braced Compartments: Provide galvanized steel supports and leveling bolts at pilasters, as recommended by manufacturer to suit floor conditions. Make provisions for setting and securing continuous aluminum overhead-bracing tube at top of each pilaster. Furnish shoe at each pilaster to conceal supports and leveling mechanism.

D. Wall-Hung Urinal Screens: Provide panel units in sizes indicated, of same construction and finish as partition system panels.

E. Hardware:

1. Hinges: Adjustable to hold door open at any angle up to 90-deg. Provide gravity type, spring-action cam type, or concealed torsion rod type.

2. Latch and Keeper: Surface-mounted latch unit, designed for emergency access, with combination rubber-faced door strike and keeper.

3. Coat Hook: As specified in Section 10810.

4. Door Pull: Manufacturer's standard as approved by the Architect.

PART 3 - EXECUTION

3.01 INSTALLATION

A. General:

1. Comply with manufacturer's recommended procedures and installation sequence.

2. Install partitions rigid, straight, plumb, and level.

3. Provide clearances of not more than 1/2-inch between pilasters and panels, and not more than 1-inch between panels and walls.

4. Secure panels to walls with not less than two stirrup brackets attached near top and bottom of panel.

5. Locate wall brackets so that holes for wall anchors occur in masonry or tile joints.

6. Secure panels to pilasters with not less than two stirrup brackets located to align with stirrup brackets at wall.

B. Overhead-Braced Compartments:

1. Secure pilasters to floor and level, plumb, and tighten installation.

2. Secure overhead-brace to each pilaster with not less than two fasteners.

3. Hang doors and adjust so that tops of doors are parallel with overhead-brace when doors are in closed position.

C. Screens: Attach with concealed anchoring devices, as recommended by manufacturer. Set units to provide support and to resist lateral impact.

3.02 ADJUST AND CLEAN

A. Hardware Adjustment:

1. Adjust and lubricate hardware for proper operation.

2. Set hinges on in-swinging doors to hold doors open approximately 30-degrees from closed position when unlatched.

3. Set hinges on out-swinging doors and entrance swing doors to return to fully closed position.

B. Clean exposed surfaces of partitions using materials and methods recommended by manufacturer. Protect as required to prevent damage until final acceptance.

END OF SECTION