



SECTION 10 11 00 VISUAL DISPLAY UNITS

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Porcelain enamel steel markerboards.
- B. Tackboards.
- C. Tackstrips.

1.2 RELATED SECTIONS

- A. Section 06 1000 - Rough Carpentry: blocking and supports.
- B. Section 09 2116 - Gypsum Board Assemblies: concealed supports in metal stud walls.
- C. Section 09 2216 - Non-Structural Metal Framing: concealed supports in metal stud walls.

1.3 REFERENCE STANDARDS

- A. ANSI A135.4 - Basic Hardboard 2012 (Reaffirmed 2020).
- B. ANSI A208.1 - American National Standard for Particleboard 2022.
- C. ASTM A424/A424M - Standard Specification for Steel, Sheet, for Porcelain Enameling 2018.
- D. ASTM B221 - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes 2021.
- E. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials 2023.

1.4 SUBMITTALS

- A. Submit under provisions of Section 01 3000.
- B. Product Data: Provide manufacturer's data on porcelain enamel steel markerboard and tackboard.
- C. Samples: Color charts for selection of color and texture of porcelain enamel steel markerboard and tackboard.
- D. Test Reports: Show compliance to specified surface burning characteristics requirements.
- E. Maintenance Data: Include data on regular cleaning, stain removal, and recommended maintenance precautions.

1.5 WARRANTY

- A. See Section 01 7800 - Closeout Submittals, for additional warranty requirements.
- B. Provide lifetime warranty for markerboard to include warranty against discoloration due to cleaning, crazing or cracking, and staining.
- C. Provide 1-year warranty for natural cork tackboard against defects in material or workmanship.
- D. Provide 3-year warranty for Forbo tackboard against defects in material or workmanship.

1.6 DELIVERY, STORAGE AND HANDLING

- A. Manufacturer to provide temporary protective cover: sheet polyethylene.
- B. Schedule delivery of visual display boards with spaces sufficiently complete so that visual display boards can be installed upon delivery.
- C. Store products in manufacturer's unopened packaging until ready for installation.
- D. Store materials protected from exposure to harmful weather conditions and at temperatures and humidity conditions recommended by manufacturer.

PART 2 PRODUCTS

2.1 VISUAL DISPLAY UNITS

- A. Porcelain Enamel Steel Markerboards:
 - 1. Manufacturers:
 - a. ASI Visual Display Products
 - b. Claridge Products and Equipment, Inc
 - c. Neal Slate Co.
 - d. Substitutions: Similar systems by other manufacturers are acceptable, subject to compliance with requirements herein and approval by the Architect.
 - 2. Color: White.
 - 3. Steel Face Sheet Thickness: 28-gauge up to 59" tall, 24-gauge for all boards 60" and taller.
 - 4. Core: Particleboard, manufacturer's standard thickness, laminated to face sheet.
 - 5. Overall assembly thickness: 1/2 inch.
 - 6. Backing: Manufacturer's standard moisture barrier.
 - 7. Size: As indicated on drawings.
 - 8. Frame: Extruded aluminum, with concealed fasteners. Size as indicated on drawings.
 - 9. Frame Finish: Anodized, natural.

10. Flame Spread Rating: Comply with ASTM E84, with flame spread rating of 25.
 11. Joints: Make joints only where total length exceeds maximum manufactured length. Fabricate with minimum number of joints, as indicated on approved Shop Drawings. Provide manufacturer's standard spline.
- B. Tackboards: Seamless 1/4" thick sealed {Natural Cork surface or Forbo}
1. Manufacturers: Use same manufacturer providing Porcelain Marker Boards.
 2. Material Thickness: 1/4 inch.
 3. Color: As selected from manufacturer's full range.
 4. Backing: Hardboard, 1/4 inch thick, laminated to tack surface.
 5. Overall assembly thickness: 1/2 inch.
 6. Surface Burning Characteristics: Flame spread index of 75, maximum, and smoke developed index of 450, maximum, when tested in accordance with ASTM E84.
 7. Size: As indicated on drawings.
 8. Frame: Same type and finish as for markerboard.
- C. Tackstrips: Seamless 1/4" thick sealed {Natural Cork surface or Forbo}
1. Material Thickness: 1/8 inch.
 2. Surface Burning Characteristics: Flame spread index of 75, maximum, and smoke developed index of 450, maximum, when tested in accordance with ASTM E84.
 3. Height: As indicated on drawings.
 4. Length: As indicated on drawings.
 5. Frame and End Stops: Extruded aluminum, with concealed fasteners.
 6. Frame Profile: Manufacturer's standard.
 7. Frame Finish: Anodized, natural.

2.2 MATERIALS

- A. Porcelain Enamelled Steel Sheet: ASTM A424/A424M, Type I, Commercial Steel, with fired-on vitreous finish.
- B. Hardboard for Cores: ANSI A135.4, Class 1 - Tempered, S2S (smooth two sides).
- C. Particleboard: ANSI A208.1; wood chips, set with waterproof resin binder, sanded faces.
- D. Adhesives: Type used by manufacturer.

2.3 ACCESSORIES

- A. Map Rail: Extruded aluminum, manufacturer's standard profile, with cork insert and runners for accessories; height as indicated on drawings, full width of frame.

- B. Map Supports: {Sliding hooks or roller brackets} to fit map rail as indicated on drawings.
- C. Marker Tray: Aluminum, manufacturer's standard profile, one-piece, spanning full length of markerboard, molded ends, concealed fasteners, same finish as frame.
- D. Mounting Brackets: Concealed.
- E. Flag holders: Aluminum, manufacturer's standard finish, as indicated on drawings

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify that field measurements are as indicated.
- B. Verify that internal wall blocking is ready to receive work and positioning dimensions are as indicated on shop drawings.

3.2 PREPARATION

- A. Acclimatize tackable wall panels by removing from packaging in installation area not less than 24 hours before application.
- B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

3.3 INSTALLATION

- A. Install boards level and plumb in accordance with manufacturer's instructions.
- B. Remove all protective films.

3.4 CLEANING

- A. Clean board surfaces in accordance with manufacturer's instructions.

END OF SECTION