

SECTION 10100

VISUAL DISPLAY BOARDS

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Porcelain enamel chalkboards.
- B. Porcelain enamel markerboards.
- C. Tackboards.
- D. Visual display board accessories.

1.2 RELATED SECTIONS

- A. Section 06114 - Wood Blocking and Curbing: Wood grounds for support of visual display boards.
- B. Section 06200 - Finish Carpentry: Custom wood frames.
- C. Section 09900 - Paints and Coatings: Finish of custom wood frames.

1.3 REFERENCES

- A. ASTM B 221 - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Shapes, and Tubes.

1.4 SUBMITTALS

- A. Submit under provisions of Section 01300.
- B. Product Data: Provide technical data for products specified. Include Material Safety Data Sheets, when applicable.
- C. Shop Drawings: Provide shop drawings for each type of visual display board specified.
- D. Selection Samples: Submit set of color chips displaying manufacturer's full range of colors and finishes.
- E. Verification Samples: Submit samples not less than six inches square and framed on two adjacent sides, to illustrate materials, finish, color, and texture of each type of visual display board required.

- F. Maintenance Data: Provide data on cleaning requirements, stain removal, and recommended maintenance precautions.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Comply with manufacturer's instructions for handling and storage of units.

1.6 PROJECT CONDITIONS

- A. Field measure prior to preparation of shop drawings and fabrication, to ensure proper fit.
- B. Do not begin installation of visual display boards until environmental conditions approximate normal occupied conditions.

1.7 WARRANTY

- A. Submit manufacturer's "Life of the Building" warranty, stating that under normal usage and maintenance, and when installed in accordance with manufacturer's instructions and recommendations, porcelain enamel steel chalkboards and markerboards are guaranteed for the life of the building.
- B. Warranty shall cover replacement of defective boards but not the cost of removal or reinstallation.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Provide visual display boards as manufactured by Claridge Products and Equipment, Inc.; Harrison, AR 72602-0910. ASD. Tel: (870) 743-2200. Fax: (870) 743-1908.
- B. Substitutions: Not permitted.

2.2 CHALKBOARD AND MARKERBOARD MATERIALS

- A. Steel Face Sheets: 24 gage commercial quality steel, fired with porcelain enamel, using the DuPont process.
 - 1. Face sheets with high-fired brittle ground and finish coats are not acceptable.
 - 2. Fire porcelain enamel finish at approximately 1000 degrees F, or lowest possible temperature thereunder

to reduce steel and porcelain stresses and achieve superior enamel bond and hardness.

- B. Core Material: 3/8 inch particle board.
- C. Backing Material: 0.002 inch aluminum foil.
- D. Metal Trim and Accessories: ASTM B 221 aluminum alloy.
- E. Laminations: Hot-type neoprene contact adhesive applied to both surfaces automatically.
 - 1. Each substrate shall have minimum 80 percent covering with 1.5-2.0 dry mils of adhesive.
 - 2. Panel components shall have uniform pressure applied mechanically over entire area.
 - 3. Laminations shall be made by manufacturer of face sheet.
- F. Adhesive: As recommended by manufacturer for project conditions.

2.3 PORCELAIN ENAMEL CHALKBOARDS

- A. Provide "Vitracite" chalkboards for project from manufacturer's Series _____.
 - 1. Metal trim and accessories: Series _____ heavy gage aluminum extrusions; etched and anodized satin finish.
 - a. Chalktrough: Standard continuous solid type, with ribbed section and injection molded end closures.
 - b. Chalktrough: Standard continuous hollow type, with injection molded end closures.
 - c. Map rail: Standard continuous rail with cork insert and end stops, and as follows:
 - 1) Height: 1 inch.
 - 2) Height: 2 inches.
 - 3) Map hooks: 1 hook for each 3 feet of rail.
 - 4) Roller brackets: _____ brackets per rail.
 - 5) Flag holder: _____ holders per rail.
 - 2. Size: Standard 4 feet height by lengths as shown on drawings.
 - 3. Size: Standard 4 feet height by 16 feet length.
 - 4. Size: As indicated on drawings.
 - 5. Size: _____ by _____.
 - 6. Color: As selected from manufacturer's standard colors.
 - 7. Color: _____.

2.4 PORCELAIN ENAMEL MARKERBOARDS

- A. Provide "LCS" markerboards for project from manufacturer's Series _____.
1. Metal trim and accessories: Series _____ heavy gage aluminum extrusions; etched and anodized satin finish.
 - a. Chalktrough: Standard continuous solid type, with ribbed section and injection molded end closures.
 - b. Chalktrough: Standard continuous hollow type, with injection molded end closures.
 - c. Map rail: Standard continuous rail with cork insert and end stops, and as follows:
 - 1) Height: 1 inch.
 - 2) Height: 2 inches.
 - 3) Map hooks: 1 hook for each 3 feet of rail.
 - 4) Roller brackets: _____ brackets per rail.
 - 5) Flag holder: _____ holders per rail.
 2. Size: Standard 4 feet height by lengths as shown on drawings.
 3. Size: Standard 4 feet height by 16 feet length.
 4. Size: As indicated on drawings.
 5. Size: _____ by _____.
 6. Color: As selected from manufacturer's standard colors.
 7. Color: _____.

2.5 TACKBOARDS

- A. Provide tackboards that are integrated with chalkboards and markerboards, as indicated on the drawings.
1. Metal trim and accessories: Series _____ heavy gage aluminum extrusions; etched and anodized satin finish.
 2. Tackboard surfacing: Claridge Cork; 1/4 inch thick cork and oxidized linseed oil laminated to backing of burlap and 1/4 inch hardboard.
 3. Tackboard surfacing: Fabricork; Vinyl fabric on 7/32 inch cork underlay with 1/4 inch hardboard back.
 4. Tackboard surfacing: Hook-Fab nylon fabric on 7/32 inch cork underlay with 1/4 inch hardboard back.
 5. Tackboard surfacing: Designer fabric on 7/32 inch cork underlay with 1/4 inch hardboard back.
 - a. Color: As selected from manufacturer's standards.
 - b. Color: As scheduled on the drawings.

- c. Color: _____.
- 6. Tackboard surfacing: Tan Nucork on 1/4 inch hardboard.

2.6 FABRICATION

- A. Laminate facing sheet and backing sheet to core material under pressure, using manufacturer's recommended adhesive.
- B. Provide factory-assembled visual display boards, except where sizes demand partial field assembly.
- C. Assemble units in one piece without joints, wherever possible. Where required dimensions exceed maximum panel size available, provide 2 or more pieces of equal length, as indicated on approved shop drawings. Assemble to verify fit at factory, then disassemble for delivery and final assembly at project site.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify that substrates are properly prepared to receive visual display boards. Do not begin installation until unsatisfactory conditions have been corrected.

3.2 INSTALLATION

- A. Comply with manufacturer's installation instructions.
- B. Where visual display boards must be partly assembled at project site, use factory-supplied H-bar to maintain proper alignment.
- C. Install visual display boards level and plumb, keeping perimeter trim aligned in accordance with manufacturer's recommendations.

3.3 ADJUSTING AND CLEANING

- A. Verify that all accessories are installed as required for each unit.

- B. Upon completion of installation, clean surfaces and trim in accordance with manufacturer's recommendations, leaving all materials ready for use.

END OF SECTION