

DIVISION 10 – SECTION 10 11 00 – VISUAL DISPLAY SURFACES

PART 1 – GENERAL

1.01 DESCRIPTION OF WORK

- A. Section Includes:
 - 1. Porcelain Enamel Steel Markerboards
 - 2. Glass Markerboards
 - 3. Tackboards

1.02 REFERENCED STANDARDS

- A. American Society for Testing Materials
 - 1. ASTM E84 Standard Test Method for Surface Burning Characteristics for Building Materials
 - 2. ASTM B221 Standard Specification for Aluminum and Aluminum Alloy Extruded Bars, Rods, Wires, Profiles and Tubes
- B. Porcelain Enamel Institute
 - 1. PEI-1002 Manual and Performance Specifications for Porcelain Enamel Writing Surfaces
- C. GREENGUARD Environmental Institute
 - 1. GREENGUARD Certified. UL2818-2013 Standard for Chemical Emissions for Building Materials, Finishes and Furnishings.
 - 2. GREENGUARD Gold Certified. UL2818-2013 Gold Standard for Chemical Emissions for Building Materials, Finishes and Furnishings.

1.03 SUBMITTALS

- A. Shop Drawings: Provide shop drawings for each type of visual display board required.
- B. Product Data: Provide technical data for materials specified. Include Material Safety Data Sheets, when applicable.
- C. Samples and color charts: Provide Manufacturer's color charts and composition samples of face, core, backing and trim to illustrate finish, color and texture, where required.
- D. Manufacturer's Instructions: Provide Manufacturer's installation and cleaning instructions.

1.04 QUALITY ASSURANCE

- A. Manufacturer Qualifications:
 - 1. Manufacturer shall be a firm engaged in the manufacture of visual display boards in the United States.
 - 2. Manufacturer shall have a minimum of 5 years experience in the manufacture of visual display boards.
- B. Regulatory Requirements: Conforms to applicable code for flame/smoke rating in tackboards in accordance with ASTM E84.
- C. Product Certifications: Provide GREENGUARD and GREENGUARD Gold certificates for markerboard surfaces, as applicable.
- D. Operation and Maintenance: Include data on regular cleaning, stain removal, and precautions.

1.05 PROJECT CONDITIONS

- A. Field measure prior to preparation of shop drawings and fabrication to ensure proper fit.
- B. Comply with manufacturer's recommendations for acclimating area for interior moisture and temperature to approximate normal occupied conditions.

1.06 DELIVERY, STORAGE AND HANDLING

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

1.07 WARRANTY

- A. Submit a "Life of the Building" warranty, stating that under normal usage and maintenance, and when installed in accordance with manufacturer's instructions and recommendations, Claridge porcelain enamel steel markerboard writing surfaces are guaranteed for the Life of the Building. Guarantee covers replacement of defective boards but does not include cost of removal or reinstallation.
- B. Submit a standard warranty, stating that when installed in a suitable environment, under normal intended usage, care and maintenance, Claridge glass markerboard writing surfaces are guaranteed for ten years. Guarantee covers replacement of defective surfaces but does not include damage to the edge of the glass board, cost of removal or reinstallation.
- C. Submit a standard warranty, stating that when installed in accordance with manufacturer's instructions and recommendations, Claridge tackboards are guaranteed for one year against defects in materials and workmanship. Guarantee does not cover normal wear and tear, improper handling, any misuse, or any defects caused by vandalism or subsequent abuse. Guarantee covers replacement of defective material but does not include cost of removal or reinstallation.
- D. Writing Surface Warranty Period: (Specify term) ____ years commencing on Date of Substantial Completion.

PART 2 – PRODUCTS

2.01 MANUFACTURERS

- A. Visual Display Board Manufacturer: Claridge Products and Equipment, Inc., Harrison, Arkansas 72601; Toll Free: 800-434-4610; Telephone: 870-743-2200; Fax: 870-743-1908; E-mail: claridge@claridgeproducts.com; website: www.claridgeproducts.com.

2.02 PORCELAIN ENAMEL MARKERBOARD

- A. Writing Surface Face Sheet – Manufactured in accordance with Porcelain Enamel Institute's specification.
 - 1. Shall be enameling grade cold rolled steel.
 - 2. Enameling grade steel shall be coated with LCS³ Porcelain Enamel
 - a. 3-Coat process shall include:
 - i. Bottom Ground Coat – 1.5 to 2.2 mils
 - ii. Top Ground Coat – 2.0 to 2.8 mils
 - iii. Top Cover (Color) Coat – 3.0 to 4.0 mils
 - 3. Firing Temperature: Enamel shall be fired at lowest possible temperatures to reduce steel and porcelain stresses and achieve superior enamel and hardness.
 - 4. Color: As selected by architect from manufacturer's standards. Color charts furnished on request. NOTE: LCS³ No. 100 White can be used as a projection surface.
- B. Factory Framed Markerboards
 - 1. Face Sheet: (Specify LCS³ porcelain enamel steel Markerboard)
 - 2. Core Material: (Specify 7/16" stabilizing core)
 - 3. Backing: (Specify Moisture Barrier Back;
 - 4. Series: (Specify X2)
 - 5. Size: (Specify writing surface panel length and height.)

6. Color: (Specify Lcs³ No. 100 White.) Color charts/sample furnished on request.
 7. Optional Gridlines: (Specify Visulines) Faint gray lines baked onto Porcelain surface – ‘ghost grid’
- C. Factory Framed Glass Boards
- a. Glass: ¼-inch thick tempered, low-iron, extra clear, safety writing glass with polished edges. Glass has smooth surface intended for use with dry-erase markers
 - b. Back-Painted Color: 10 standard colors. Calm White furnished if color not specified (optional colors available). Specially formulated back paint creates a durable paint/glass bond that is fade resistant, water resistant, heat resistant, environmentally friendly and free of unsafe chemicals.
 - c. Backing: Glass Markerboards have steel backing permanently adhered to the back of the glass.
 - d. Series: (Specify X2)
 - e. Sizes: 2’ x 3’, 3’ x 4’ and 4’ x 4’ (Specify size)

2.03 TACKBOARDS

- A. Materials for Tackboards
- a. Claridge Cork: Composed of 1/4” thick self-healing, burlap backed cork laminated to a ¼” hardboard backing
 - b. Fabrics: Select from pre-approved Guilford, Carnegie and Maharam fabrics.
- B. Factory Framed Tackboards
1. Tack Surface: (Specify Claridge Cork or Fabric)
 2. Series: (Specify Series X2)
 3. Size: (Specify tack surface panel length and height)
 4. Color: (Specify color(s) from manufacturer’s standard colors.) Color charts furnished on request.

2.04 ALUMINUM TRIM

- A. Trim shall be 6063 alloy grade aluminum with T5 tempering in accordance with ASTM B221, and shall have 201-R1 satin anodize finish. (Color Anodize and Powder Coat finishes optional)
1. Factory Built Trim
 - a. Series: (Specify Series X2 with 1/8” low profile face; trim depth is approx. 1”)
 - b. Finish: (Specify satin anodize unless optional finish required)
- B. Accessories:
1. Marker Tray (optional)
 - a. Tray width: approx. 2”; tray shape: sweeping curve, approx. 7/16” deep; softened corners
 2. Other optional accessories include:
 - a. LCS Markers
 - b. Microfiber eraser cloth
 - c. Felt eraser
- C. Hanging Devices: Concealed Z-clip hangers at top; dual-lock washer and tab at bottom

PART 3 – EXECUTION

3.01 PROJECT CONDITIONS

- A. Verify before installation that interior moisture and temperature approximate normal occupied conditions.
- B. Verify that wall surfaces are true and plumb and are prepared and ready to receive boards.

3.02 INSTALLATION

- A. Deliver factory built units completely assembled and of dimensions shown in details and in accordance with manufacturer's shop drawings as approved by the architect.
- B. Follow manufacturer's instructions for storage and handling of units before installation.
- C. Do not install boards on damp walls or in damp and humid weather without heat in the building.
- D. Install level and plumb, keeping perimeter trim straight in accordance with manufacturer's recommendations.

3.03 ADJUST AND CLEAN

- A. Verify that all accessories are installed as required for each unit.
- B. At completion of work, clean surfaces and trim in accordance with manufacturer's recommendations, leaving all materials ready for use.