

SECTION 10 10 00

VISUAL COMMUNICATIONS SPECIALTIES
02/09

PART 1 GENERAL

1.1 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to within the text by the basic designation only.

ASTM INTERNATIONAL (ASTM)

ASTM B 221 (2008) Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes

ASTM F 152 (1995; R 2002) Tension Testing of Nonmetallic Gasket Materials

1.2 SYSTEM DESCRIPTION

The term visual display board when used herein includes presentation boards, marker boards, tackboards, board cases, display track system and horizontal sliding units. Visual display boards shall be from manufacturer's standard product line.

1.3 SUBMITTALS

Government approval is required for submittals with a "G" designation; submittals not having a "G" designation are for information only. When used, a designation following the "G" designation identifies the office that will review the submittal for the Government. Submit the following in accordance with Section 01 33 00 SUBMITTAL PROCEDURES:

SD-03 Product Data

Presentation Board; G, AE

Manufacturer's descriptive data and catalog cuts. Manufacturer's installation instructions, and cleaning and maintenance instructions.

Recessed Projection Screen; G

Manufacturer's descriptive data, wiring diagram, and catalog cuts. Manufacturer's installation instructions, and cleaning and maintenance instructions.

SD-04 Samples

Aluminum; G, AE

Sections of frame, map rail, and chalktray, and two map hooks.

Porcelain Enamel; G, AE

Section showing porcelain enamel coating, steel, core material and backing.

Materials; G, AE

Section of core material showing the lamination of colored cork, natural cork, woven fabric, non-woven fabric, and vinyl wall covering. Sample of hardwood and plastic laminate finish, and glass type. Samples shall be minimum 4 by 4 inches and show range of color.

1.4 DELIVERY, STORAGE, AND HANDLING

Deliver Materials to the building site in the manufacturer's original unopened containers and store them in a clean dry area with temperature maintained above 50 degrees F. Stack materials according to manufacturer's recommendations. Visual display boards shall be allowed to acclimate to the building temperature for 24 hours prior to installation.

1.5 WARRANTY

Provide manufacturer's standard performance guarantees or warranties that extend beyond a one year period.

PART 2 PRODUCTS

2.1 MATERIALS

2.1.1 Porcelain Enamel

Provide marker board writing surface composed of porcelain enamel fused to a nominal 28 gauge thick steel, laminated to a minimum 1/4 inch thick core material with a steel or foil backing sheet. Writing surface shall be capable of supporting paper by means of magnets. Marker board surface for display track system may be a powder paint dry erase surface adhered to a nominal 18 gauge thick steel.

2.1.2 Cork

Cork shall be a continuous resilient sheet made from soft, clean, granulated cork relatively free from hardback and dust and bonded with a binder suitable for the purpose intended. The wearing surface shall be free from streaks, spots, cracks or other imperfections that would impair its usefulness or appearance. The material shall be seasoned, and a clean cut made not less than 1/2 inch from the edge shall show no evidence of soft sticky binder.

2.1.2.1 Natural Cork

Material shall be a single layer of pure grain natural cork without backing or facing. The color shall be light tan. The cork sheet shall have a tensile strength of not less than 40 psi when tested in accordance with ASTM F 152.

2.1.3 Aluminum

Aluminum frame extrusions shall be alloy 6063-T5 or 6063-T6, conform to

ASTM B 221, and be a minimum 0.06 inches thick. Exposed aluminum shall have an anodized, satin finish. Straight, single lengths shall be used wherever possible. Joints shall be kept to a minimum. Corners shall be mitered and shall have a hairline closure.

2.1.4 Hardwood

Exposed hardwood for frames, cabinets, and cases shall be oak, walnut or mahogany. Provide hardwood with a durable factory-applied stain and lacquer finish of a type standard with the manufacturer.

2.2 PRESENTATION BOARD

The presentation board shall be a wall hung cabinet with lockable double doors and shall not have a projection screen that pulls down over the marker board writing surface in the cabinet interior. The doors shall be attached to cabinet with piano hinges and have a catch or closure to keep doors closed when not in use. The interior of the cabinet shall contain a porcelain enamel markerboard writing surface with chalktray, a flip chart that can be hung on an interior door panel, and fabric covered tacksurface on the interior door panels. The cabinet shall be oak hardwood. The edge detailing shall be bullnose or radius. Dry erase markings shall be removable with a felt eraser or dry cloth without ghosting. Each unit shall come complete with an eraser and four different color compatible dry erase markers. Two keys shall be provided for each unit. The size shall be as shown in the drawings.

2.3 MARKERBOARD

Markerboard shall have a porcelain enamel writing surface and a chalktray. Markerboard shall be a factory assembled unit complete in one piece, without joints whenever possible. When markerboard dimensions require delivery in separate sections, components shall be prefit at the factory, disassembled for delivery and jointed at the site. Frame shall be aluminum. Chalktray shall be the same material as the frame and extend the full length of the liquid markerboard. The markerboard shall not include a map rail. Dry erase markings shall be removable with a felt eraser or dry cloth without ghosting. Each unit shall come complete with an eraser and four different color compatible dry erase markers. The size shall be as shown in the drawings.

2.4 TACKBOARDS

2.4.1 Cork

Tackboard shall consist of a minimum 1/4 inch thick natural cork laminated to a minimum 1/4 inch thick hardboard, and shall have an aluminum frame. The size shall be as shown in the drawings.

2.5 HORIZONTAL SLIDING UNITS

The horizontal sliding unit shall be composed of a fixed back panel, sliding panels, an aluminum track assembly, and shall have a map rail and chalktray. The unit shall have 3 tracks. The fixed back panel shall be markerboard. The unit shall have two marker board sliding panel and one tackboard sliding panel. The track assembly and exposed members, including panel edging and chalktray, shall be extruded aluminum. Frame assembly shall be reinforced at corners. Sliding panels shall be suspended from the top and shall slide over the aluminum track using molded nylon ball bearing

rollers at the top of the track and nylon guide rollers at the bottom of the track to eliminate vibration and to provide quiet and smooth operation of the panels. Sliding panels shall have finger pulls at each end. The map rail shall have a tackable insert and extend the length of the horizontal sliding unit. The map rail shall have map hooks with clips for holding sheets of paper. Two map hooks shall be provided for each 4 foot of map rail. Chalktray shall extend the full length of the horizontal sliding unit. Dry erase markings on the marker board shall be removable with a felt eraser or dry cloth without ghosting. Each unit shall come complete with an eraser and four different color compatible dry erase markers. The size shall be as shown in the drawings.

2.6 RECESSED PROJECTION SCREEN

Recessed mount motorized projection screen shall have 120V motor that is lubricated for life, quick reversal type, has overload protector, integral gears, and preset accessible limit switches. Recessed mount projection screens shall have an operable closure door and access panel. Screen shall be flame retardant, mildew resistant, and glass beaded with black masking borders. Bottom of screen fabric shall be weighted with metal rod. Roller shall be a rigid metal at least 3 inches in diameter mounted on sound absorbing supports. Motor will be end mounted or motor-in-roller design. Screen shall have a 3 position control switch to stop or reverse screen at any point. The switch shall be installed in a flush electrical box with cover plate, location(s) as shown on the electrical drawings. All conduit and wiring from the control switch to the projection screen shall be furnished and installed by the Contractor. Ceiling recessed case shall be extruded aluminum. Ceiling mounted case shall be aluminum or steel. Screen shall be UL listed. The size shall be as shown in the drawings.

PART 3 EXECUTION

3.1 PLACEMENT SCHEDULE

Mounting height is defined as distance from finished floor to top of the display board frame.

3.2 INSTALLATION

Perform installation and assembly in accordance with manufacturer's printed instructions. Use concealed fasteners. Visual display boards shall be attached to the walls with suitable devices to anchor each unit. furnish and install trim items, accessories and miscellaneous items in total, including but not limited to hardware, grounds, clips, backing materials, adhesives, brackets, and anchorages incidental to or necessary for a sound, secure, complete and finished installation. Installation shall not be initiated until completion of room painting and finishing operations. Visual display boards shall be installed in locations and at mounting heights indicated. Visual display boards shall be installed level and plumb, and if applicable doors shall be aligned and hardware shall be adjusted. Damaged units shall be repaired or replaced as directed by the Contracting Officer.

3.3 CLEANING

Writing surfaces shall be cleaned in accordance with manufacturer's instructions.

-- End of Section --

