**SECTION 10 11 00**

**VISUAL DISPLAY BOARDS**

**PART 1- GENERAL**

**1.1 SUMMARY**

 A. Section Includes:

1. Dry-erase Marker Boards (whiteboards)

2. Special Custom Fit Whiteboards for High Density Carriage System Application.

 B. Related Sections:

 1. Section 06 10 00 – Rough Carpentry: Wood blocking

 2. Section 09 29 00 – Gypsum Board

 3. Section 09 72 00 – Wall Coverings

 4. Section 09 91 00 – Painting

**1.2 SUBMITTALS**

 A. Product Data: Provide technical data for products specified.

B. Shop Drawings: Provide shop drawings for each type of visual display board specified, including section details indicating trim, face, core and backing materials, wall elevations, dimensions, joint locations between panels exceeding maximum panel length and anchor and installation details

C. Product Samples: Submit manufacturer’s color chart showing the full range of colors available for the following:

1. Chalkboards and whiteboards: Actual sections of porcelain enamel steel finish for each type of chalkboard and whiteboard required

2 Aluminum Trim and Accessories: Samples of each type and color, on 6-inch (150mm) long sections of extrusions and not less than 4-inch (100mm) squares of sheet or plate. Include sample sets showing the full range of color variations expected

 D. Contract Closeout Submittals:

1. Maintenance Data: Manufacturer’s cleaning and maintenance instructions covering both routine (daily or weekly) and long term (yearly or longer) operations

 2. Warranty: Executed copy of manufacturer’s warranty

**1.3 DELIVERY, STORAGE AND HANDLING**

 A. Storage and Protection:

1. Store factory framed units vertically with packaging materials between each unit to prevent damage

 2. Store materials in dry areas at temperatures above 55º F

**1.4 PROJECT CONDITIONS**

A. Field Measurements: Verify field measurements before fabrication to ensure proper fitting. Coordinate fabrication schedule with construction progress to avoid delaying the work. Notify the Architect of any conflicts with other construction such as casework, electrical switches, outlets, clocks, mechanical openings, fire detector devices, etc.

B. Environmental Requirements: Install only when the building is enclosed and interior air and substrate temperatures are stable and approximate design conditions

**1.5 WARRANTY**

A. Porcelain Enamel Writing Surface Warranty: Submit a written warranty executed by the manufacturer agreeing to replace porcelain enamel steel markerboards/chalkboards that do not retain their original writing and erasing qualities, become slick and shiny (if matt surface), or exhibit crazing, cracking or flaking within the specified warranty period, provided the manufacturer’s written instructions for handling, installation, protection and maintenance have been followed

1. Warranty Period: Forever for CPS Porcelain Steel Marker or Chalk Boards.

**PART 2- PRODUCTS**

**2.1 MANUFACTURERS**

A. Basis-of-Design Product: Dry-erase markerboards and chalkboards are based on Corona Group Elements Series Vertical Spline Joint Board System:

Tel. 205.941.1942, info@coronagroupinc.com

B. Approved Alternates: (Contact Corona Group for suitable equals in price, functionality and aesthetics):

C. Additional alternates must have prior approval. Submit technical information and samples to architect a minimum of 14 days prior to bid date

**2.2 MARKERBOARDS**

A. Elements SERIES Whiteboards: Magnetic Dry-erase markerboards for marker pens and magnets

1. Face Sheet: CPS Satin Gloss, scratch-resistant, porcelain enamel steel .4-.6mm thick; fused twice at 800º C or 1200º F

 2. Core:

a. 7/8” MDF laminated to face steel for boards up to 16’ in one single piece

 3. Backing: Aluminum foil, laminated to core

 4. Sizes: As indicated in Drawings

 5. Frame Profile: Manufacturer’s standard

6. Top and Bottom Profiles: Natural anodized extruded aluminum, 2mm gauge, and 6mm high x 20 mm deep. FRAMED Board shall be low profile and mount tight to the wall with concealed mounting hardware and shall ship complete with custom mounting sets for this application

7. Side Profiles: Natural anodized extruded aluminum 2mm gauge, 6mm wide x 20mm deep

8. Spline Joint shall consists of concealed routed slot in sub-strate, along with Galvanized steel spline, connecting two factory edges of the whiteboard with a nominal butt joint that is smooth and unobtrusive aesthetically or functionally.

 9. Accessories:

a. Provide one accessory pack for each whiteboard. Accessory Pack shall include four (4) dry-erase markers, one (1) magnetic penholder, one (1) magnetic felt eraser, one (1) package of ten (10) replacement eraser pads, one (1) package of three (3) Eximo™ whiteboard cleaning pads and one (1) soft drying cloth and twelve (12) round Teflon coated magnets

 10. Board Color: Satin Gloss White unless otherwise specified

**2.3 FABRICATION**

A. Porcelain Enamel steel writing board facing sheet and foil backer

sheet shall be laminated to the core material under pressure with manufacturer’s recommended flexible, waterproof adhesive

B. Assembly: Provide factory-assembled writing board units, as required. Writing boards to 16 feet should be factory framed in a single panel and delivered to the job site for installation using concealed fasteners. Boards over 16 feet should be spliced and “field installed” directly to the wall/ framework using concealed fastening systems recommended by the manufacturer. Splices should be as follows:

1. Make joints only where total length exceeds maximum length. Fabricate minimum number of joints, balanced around center of board, coordinate with Architect for approval

a. One Piece length of Markerboard – Maximum of 16’

b. One Piece length of Top and Bottom Rail (Frame) – Maximum 16’

2. Provide manufacturer’s standard vertical butt joint system between abutting sections of writing boards – Standard 6mm Side Profile per board

3. Make available seamless concealed splicing kit of parts for field installation upon request for both boards and aluminum trim and trays

**2.4 FINISHES**

A. Comply with NAAMM’s “Metal Finishes Manual for Architectural and Metal Products” for recommendations relative to applying and designating finishes

 B.     Manufacturer’s Standard finishes as designated above

**PART 3- EXECUTION**

**3.1 EXAMINATION**

A. Examine wall surfaces, with installer present, for compliance with requirements and other conditions affecting visual display board/rail installation

B. Verify flat wall surfaces for proper board installation; provide concealed shims as necessary within Architect’s acceptable variance. Minimum Level 4 finished wall required by contractor

C. Do not proceed with installation until unsatisfactory conditions have been corrected

**3.2 INSTALLATION**

A. Deliver factory built visual display boards/rails, assembled in two pieces for field joining in rolling carriages.

B. Install units in locations and mounting heights as indicated on drawings and according to manufacturer’s written instructions. Keep perimeter lines straight, plumb and level. Provide grounds, clips, backing materials, adhesives, brackets, anchors, trim and accessories necessary for complete installation

C. Coordinate project site assembled units with grounds, trim and accessories. Join with a neat, precision fit

**3.3 CLEANING**

 A. Clean units according to manufacturer’s written instructions

 B. Cover surface of all units with protective cover taped to frame

C. Remove protective cover and tape on date of Substantial Completion

END OF SECTION

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