**SECTION 10 11 00**

**VISUAL DISPLAY BOARDS**

**PART 1- GENERAL**

**1.1 SUMMARY**

 A. Section Includes:

1. Vertical Sliding Wall Panel and Track System Component Boards

a. Dry-erase Glass/Porcelain Marker Boards (Flexible Component Boards)

b. Chalkboards (Flexible Component Boards)

c. Fabric Tackable Boards (Flexible Component Boards)

d. Acousticor Boards (Flexible Component Boards)

2. Rail Systems/Presentation Rails/Aluminum Trays/Sliding Wall Panel Hardware

 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 Markerboards: Actual sections of porcelain enamel steel finish for each type of Chalkboard and Markerboard required
2. Glass: Actual sections of ¼” Back Painted Glass Magnetic or Non-Magnetic

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. Glass or Porcelain Enamel Writing Surface Warranty: Submit a written warranty executed by the manufacturer agreeing to replace glass/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 Warranty for Glass or CPS Porcelain Steel Markerboards and Chalkboards.

**PART 2- PRODUCTS**

**2.1 MANUFACTURERS**

A. Basis-of-Design Product: Dry-erase glass or porcelain markerboards, chalkboards, Notice Boards and Acousticor Panels are based on Corona Group VIP+ Series

email: info@coronagroupinc.com – call: Corona Group @ 205-941-1942 – website: coronagroupinc.com

B. Approved Alternates: (DUE TO THE UNIQUE NATURE OF THIS PRODUCT – Please 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 MARKERBOARD/CHALKBOARD – VIP+ SLIDING WALL SYSTEM**

A. VIP+ SERIES Flexible Sliding Panels, as magnetic dry-erase glass or porcelain markerboards for VIP+ single, double or triple sliding systems

1. Sliding Panels GLASS

a. Face Sheet: ¼” Starphire (low-iron), tempered glass with flat polished glass edges, back painted (see finish schedule for color)

b. Backer: 1mm Galvanized Steel Plate if Magnetic

c. Wood Filler as needed to fill frame for single sided panels

d. Sizes: As indicated in Drawings

1. Sliding Panels PORCELAIN

a. Face Sheet: CPS Satin, scratch-resistant, porcelain enamel steel .4-.6mm thick; fused twice between 1200º F - 1600º F

b. Core: 19mm (3/4”) honeycomb core laminated to CPS Face Sheets on both sides to create a balanced sturdy light weight panel

c. Sizes: As indicated in drawings

1. Sliding Panels ACOUSTICOR OR FABRIC (Notice Board)

a. Face Sheet: 3/8” (9mm) PET – 100% Polyester fiber acoustic felt -60% Recycled 40% Virgin – ASTM E84 A Rating permanently achieved – FABRIC Panels vary according to manufacturer approval

b. Core: Varies according to other materials specified for reverse side

c. Sizes: As indicated in drawings

4. Aluminum Frame Profiles for VIP+ System

a. Frame Profile: Manufacturer’s standard VIP FLEX Top and Bottom Profiles, Natural anodized extruded aluminum, 2mm gauge, and 60mm high x 20 mm deep. Frame shall be slotted to allow for machined hardware

b. Side Profiles: Natural anodized extruded aluminum 2mm gauge, 6mm wide x 25mm deep

5. Panel Hardware for Bottom Rolling System with Top Guide Track

a. For Bottom Rolling Track: Adjustable integral rolling hardware with 3/8” adjustability machined into VIP+ Profile

b. For Top Guide Track: integral fixed sliding guide for stability and ease of movement machined into VIP+ Profile

c. Soft Close Mechanisms: Factory assembled into VIP+ Sliding Panels. One or two mechanisms available per panel, depending on its width. Minimum indicated in drawings or specifications

**2.3 VIP+ SLIDING PANEL SYSTEM TRACKS**

1. VIP+ BOTTOM ROLLING TRACK SYSTEM: Natural Anodized Aluminum, 2mm gauge, and suitable for sliding various size panels of various materials according to drawings. Track system can be single, dual or triple. Compatible board construction with 2.2 (1) above or other material as specified
2. Bottom Rolling Track in lengths up to 19’8” long x 3/8”high. ADA compliant .
3. Top Guide Track in lengths up to `19’8” long x 2 3/8”high. With available stops and end caps
4. ALUMINUM L-BRACKET FOR TRACK MOUNTING shall be a minimum of ¼” satin anodized solid aluminum pre-drilled for track mounting both top and bottom (when not on floor). Refer to drawings and/or specifications

**2.4 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 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 Marker or Chalkboard – Maximum of 16’

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

c. One Piece length of Rail System/Presentation Rail–’ Maximum 12’

2. Provide manufacturer’s standard vertical butt joint system between abutting sections of writing boards – Standard ¼” Side Profile per board

3. Provide manufacturer’s standard mullion trim at joints between writing boards and boards made of other materials – Maximum 12mm (½”) wide H- Profile with finish to match frame

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

**2.5 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, completely assembled in one piece without joints, where possible

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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