**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 Marker Boards (Wall Mounted Boards)

b. Chalkboards (Flexible Component Boards)

c. Tackable Boards (Flexible Component Boards)

d. Acoustic Boards (Flexible Component Boards

2. Rail Systems/Presentation Rails/Aluminum Trays/Vertical 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 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 Warranty 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 VIP+ Series TH1

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 – VIP+ SLIDING PANEL SYSTEM**

A. VIP+ SERIES Flexible Sliding Panels, as DOUBLE-SIDED magnetic dry erase markerboards for VIP+ TH1 single track sliding systems

1. Sliding Panels

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

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

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

d. Side Profiles: Natural anodized extruded aluminum 6mm wide x 25mm deep.

e. H Profile: Natural anodized extruded aluminum 12mm wide x 20 mm deep for combining like or different material boards together

2. Panel Hardware for Top Hung Rolling System with Bottom Guide Track

a. Mounting Hardware for Top Hung Tack, machined and fitted into VIP+ Top Profile to include dual wheels per running gear or smooth rolling and adequate weight support – quantity based on size of panels

b. Bottom Guide Pins machined into VIP+ Bottom Profile stability, security and ease of movement – quantity based on size of panels

c. Factory assembled flexible writing boards to sizes indicated in drawings or specifications per 2.2 (1) above

B. VIP SERIES Wall Mounted Markerboards: Magnetic Dry erase markerboards for marker pens and magnets

1. Finished Surface: CPS Satin Gloss, scratch-resistant, porcelain enamel steel .4 - .6mm thick; fused twice between 1200º - 1600º F

 2. Core/ Substrate:

a. 7/16” Medium Density Fiberboard (MDF) laminated to face steel for single piece boards up to 16’

 3. Backing: Foil, laminated to core/substrate

 4. Sizes: As indicated in Drawings

 5. Frame Profile: Manufacturer’s standard

6. Top and Bottom Frames: Natural anodized extruded aluminum, 2mm thick, and 60mm high x 20mm/40mm deep. Rail shall be slotted to accept concealed mounting hardware and ship complete with mounting sets

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

 8. Accessories:

a. Provide one accessory pack for each marker/wallboard. 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

 9. Board Color: Satin Gloss White unless otherwise specified

10. Optional: Full Length Aluminum Pen Shelf docks to bottom rail of whiteboard or wallboard. Or can be magnetic or wall mounted

**2.3 VIP+ TH1 TOP HUNG TRACK SYSTEM WITH BOTTOM GUIDE TRACK FOR HORIZONTAL SLIDING WALL PANELS**

1. VIP+ TH1 TRACKS: Natural Anodized Aluminum, 2mm gauge, and suitable for hanging and sliding various size panels of various materials according to drawings. SINGLE Track system (top and bottom) shall be mounted parallel and in alignment with each other to create a secure, smooth rolling and friction locking track for sliding boards of compatible board construction with 2.2 (A) above or other material as specified. Tracks shall be in sizes according to drawings and site conditions
2. FRICTION LOCKING SYSTEM shall be contained and concealed within tracks on each end. System shall allow for flexible location and removal should a board need to be replaced. Locking system shall be compatible with track and running gear system and tested to 100,000 cycles
3. 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

**2.4 FABRICATION**

A. Porcelain Enamel steel writing board facing sheets 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

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. Two Piece length of Markerboard – Maximum based on height of board

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 6mm (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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