SECTION 064116 - PLASTIC-LAMINATE-CLAD ARCHITECTURAL CABINETS

PART 1 - GENERAL

1.1   SUMMARY

   A.   Section Includes:

        1.   Plastic-laminate-clad architectural cabinets.
        2.   Cabinet hardware and accessories.
        3.   Wood furring, blocking, shims, and hanging strips for installing plastic-laminate-clad architectural cabinets that are not concealed within other construction.

1.2   PREINSTALLATION MEETINGS

   A.   Preinstallation Conference: Conduct conference at Project site .

1.3   ACTION SUBMITTALS

   A.   Product Data: For each type of product.

        1.   Include data for fire-retardant treatment from chemical-treatment manufacturer and certification by treating plant that treated materials comply with requirements.

   B.   Shop Drawings:

        1.   Include plans, elevations, sections, and attachment details.
        2.   Apply AWI Quality Certification Program label to Shop Drawings.

   C.   Samples: For each exposed product and for each color and texture specified.

1.4   INFORMATIONAL SUBMITTALS

   A.   Qualification Data: For manufacturer and Installer.

   B.   Field quality control reports.

1.5   CLOSEOUT SUBMITTALS

   A.   Quality Standard Compliance Certificates: AWI Quality Certification Program certificates.

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1.6   QUALITY ASSURANCE

A.   Manufacturer's Qualifications: Employs skilled workers who custom fabricate products similar to those required for this Project and whose products have a record of successful in-service performance.

1.   Manufacturer's Certification: Licensed participant in AWI's Quality Certification Program .

B.   Installer Qualifications: Licensed participant in AWI's Quality Certification Program .

1.7   FIELD CONDITIONS

A.   Environmental Limitations without Humidity Control: Do not deliver or install cabinets until building is enclosed, wet-work is complete, and HVAC system is operating and maintaining temperature and relative humidity at levels planned for building occupants during the remainder of the construction period.

B.   Environmental Limitations with Humidity Control: Do not deliver or install cabinets until building is enclosed, wet-work is complete, and HVAC system is operating and maintaining temperature between 60 and 90 deg F and relative humidity between 20 and 50 percent during the remainder of the construction period.

PART 2 - PRODUCTS

2.1   ARCHITECTURAL CABINET MANUFACTURERS

A.   Manufacturers: Subject to compliance with requirements, provide products by one of the following :

1.   Xylem, Inc. .
2.   Eidolon Designs
3.   Dopko Cabinetry

2.2   PLASTIC-LAMINATE-CLAD ARCHITECTURAL CABINETS

A.   Quality Standard: Unless otherwise indicated, comply with the Architectural Woodwork Standards for grades of cabinets indicated for construction, finishes, installation, and other requirements.

B.   Architectural Woodwork Standards Grade: Premium .

C.   Type of Construction: Frameless .

D.   Door and Drawer-Front Style: Flush overlay.

1. Reveal Dimension: 1/2 inch .

E. High-Pressure Decorative Laminate: ISO 4586-3, grades as indicated or if not indicated, as required by quality standard.

F. Exposed Surfaces:

1. Plastic-Laminate Grade: HGP.
2. Edges: Grade HGS .
3. Pattern Direction: As indicated.

G. Concealed Backs of Panels with Exposed Plastic-Laminate Surfaces: High-pressure decorative laminate, ISO 4586-3, grade to match exposed surface.

H. Drawer Construction: Fabricate with exposed fronts fastened to subfront with mounting screws from interior of body.

1. Join subfronts, backs, and sides with glued dovetail joints.

I. Colors, Patterns, and Finishes: Provide materials and products that result in colors and textures of exposed laminate surfaces complying with the following requirements:

1. As indicated by laminate manufacturer's designations.
2. Match Architect's sample.
3. As selected by Architect from laminate manufacturer's full range in the following categories:
    a. Solid colors, matte finish.
    b. Solid colors with core same color as surface, matte finish.
    c. Wood grains, matte finish.

2.3 WOOD MATERIALS

A. Wood Products: Provide materials that comply with requirements of referenced quality standard for each type of architectural cabinet and quality grade specified unless otherwise indicated.

1. Wood Moisture Content: 4 to 9 percent.

B. Composite Wood Products: Provide materials that comply with requirements of referenced quality standard for each type of architectural cabinet and quality grade specified unless otherwise indicated.

1. Thermally Fused Laminate (TFL) Panels: Particleboard or MDF finished with thermally fused, melamine-impregnated decorative paper and complying with requirements of ISO 4586.

2.4   FIRE-RETARDANT-TREATED MATERIALS

A.   Fire-Retardant-Treated Materials, General: Where fire-retardant-treated materials are indicated, use materials that are acceptable to authorities having jurisdiction as determined by testing performed on identical products by a qualified testing agency.

1.   Use treated materials that comply with requirements of referenced quality standard. Do not use materials that are warped, discolored, or otherwise defective.
2.   Use fire-retardant-treatment formulations that do not bleed through or otherwise adversely affect finishes. Do not use colorants to distinguish treated materials from untreated materials.
3.   Identify fire-retardant-treated materials with appropriate classification marking of qualified testing agency in the form of removable paper label or imprint on surfaces that will be concealed from view after installation.

2.5   CABINET HARDWARE AND ACCESSORIES

A.   Cabinet Hardware: Provide cabinet hardware and accessory materials associated with architectural cabinets except for items specified in Section 087100 "Door Hardware."

1.   Finish: Stainless Steel.

B.   Frameless Concealed Hinges (European Type): ANSI/BHMA A156.9, B01602, 170 degrees of opening.

C.   Adjustable Shelf Standards and Supports: ANSI/BHMA A156.9, B04071; with shelf rests, B04081 .

D.   Door Locks: ANSI/BHMA A156.11, E07121.

E.   Drawer Locks: ANSI/BHMA A156.11, E07041.

F.   Door and Drawer Silencers: ANSI/BHMA A156.16, L03011.

G.   Grommets for Cable Passage: 2-inch OD, aluminum grommets and matching caps with slot for wire passage.

1.   Finish: To be Selected from Manufacturer's full range .

H.   Exposed Hardware Finishes: For exposed hardware, provide finish that complies with ANSI/BHMA A156.18 for ANSI/BHMA finish number indicated.

1.   Satin Stainless Steel: ANSI/BHMA 630.

I.   Decorative Metal Foot Rails.

1.   Finish: To match cabinet hardware.

J.   For concealed hardware, provide manufacturer's standard finish that complies with product class requirements in ANSI/BHMA A156.9.

2.6   MISCELLANEOUS MATERIALS

A.   Furring, Blocking, Shims, and Hanging Strips: Fire-retardant-treated softwood lumber, kiln-dried to less than 15 percent moisture content.

B.   Anchors: Select material, type, size, and finish required for each substrate for secure anchorage. Provide metal expansion sleeves or expansion bolts for post-installed anchors. Use nonferrous-metal or hot-dip galvanized anchors and inserts at inside face of exterior walls and at floors.

C.   Adhesive for Bonding Plastic Laminate: Type I, waterproof type as selected by fabricator to comply with requirements.

1.   Adhesive for Bonding Edges: Hot-melt adhesive or adhesive specified above for faces.

2.7   FABRICATION

A.   Complete fabrication, including assembly and hardware application, to maximum extent possible before shipment to Project site. Disassemble components only as necessary for shipment and installation. Where necessary for fitting at site, provide ample allowance for scribing, trimming, and fitting.

B.   Shop-cut openings to maximum extent possible to receive hardware, appliances, electrical work, and similar items. Locate openings accurately and use templates or roughing-in diagrams to produce accurately sized and shaped openings. Sand edges of cutouts to remove splinters and burrs.

C.   Install glass to comply with applicable requirements in Section 088000 "Glazing" and in GANA's "Glazing Manual."

1.   For glass in frames, secure glass with removable stops.
2.   For exposed glass edges, polish and grind smooth.

PART 3 - EXECUTION

3.1   INSTALLATION

A.   Before installation, condition cabinets to humidity conditions in installation areas for not less than 72 hours.

B.   Architectural Woodwork Standards Grade: Install cabinets to comply with quality standard grade of item to be installed.

C.   Anchor cabinets to anchors or blocking built in or directly attached to substrates. Secure with wafer-head cabinet installation screws.

D.   Install cabinets level, plumb, and true in line to a tolerance of 1/8 inch in 96 inches using concealed shims.

   1.   Scribe and cut cabinets to fit adjoining work, refinish cut surfaces, and repair damaged finish at cuts.
   2.   Install cabinets without distortion so doors and drawers fit openings and are accurately aligned. Adjust hardware to center doors and drawers in openings and to provide unencumbered operation. Complete installation of hardware and accessory items as indicated.
   3.   Fasten wall cabinets through back, near top and bottom, and at ends not more than 16 inches o.c. with No. 10 wafer-head sheet metal screws through metal backing or metal framing behind wall finish .

3.2   FIELD QUALITY CONTROL

A.   Inspections: Provide inspection of installed Work through AWI's Quality Certification Program certifying that woodwork, including installation, complies with requirements of the Architectural Woodwork Standards for the specified grade.

   1.   Inspection entity is to prepare and submit report of inspection.

END OF SECTION 064116