
SECTION 06 40 00

ARCHITECTURAL WOODWORK

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes: Provide mill fabricated architectural woodwork with accessories as required for complete finished installation including cabinetwork hardware.
 - 1. Provide custom transparent/stained finished wood veneered cabinetwork for public areas.
 - 2. Provide custom plastic laminate veneered wood cabinetwork and countertops for back-of-house areas.
 - 3. Provide quartz based solid polymer countertops.
 - 4. Provide flush wood wall paneling.
- B. Related Sections:
 - 1. Section 04 44 00: Stone countertops.
 - 2. Section 06 20 00: Finish carpentry including trim and closet shelving.
 - 3. Section 12 33 00: Manufactured residential casework for Guest Rooms.

1.2 REFERENCES

- A. Architectural Woodwork Standards, Edition 2, 2014, (AWS) adopted and published jointly by AWI, AWMAC, and Woodwork Institute.

1.3 SUBMITTALS

- A. Product Data: Submit manufacturer's literature for manufactured items.
- B. Shop Drawings: Indicate materials and wood species, component profiles, fastening, joining details, finishes, and accessories.
 - 1. Certification: Provide Woodwork Institute Certified Compliance Label on shop drawings.
- C. Samples: Furnish samples of each exposed finish.
 - 1. Furnish samples of each exposed casework hardware.
 - 2. Furnish samples of wood paneling showing corner and edge treatment.

1.4 QUALITY ASSURANCE

- A. Sustainability Requirements: Comply with CALGreen requirements including those relative to finish material pollution control for adhesives, sealants, and caulks, for composite wood products formaldehyde limitations, and for paints and coatings.
- B. Fabricator Qualifications: Member of Sponsor of Architectural Woodwork Standards (Architectural Woodwork Institute or Woodwork Institute) with minimum five years successful experience fabricating woodwork similar to that required for Project.
- C. Standards: Perform architectural woodwork in accordance with Architectural Woodwork Standards, Edition 1, 2009, (AWS) adopted and published jointly by AWI, AWMA, and Woodwork Institute.
 - 1. Certified Compliance Program (CCP): Comply with Woodwork Institute "Certified Compliance Program (CCP)" as defined in AWS.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Do not deliver architectural woodwork until site conditions are adequate to receive work; protect items from weather while in transit.
 - 1. Allow architectural woodwork shop finish to completely dry prior to delivery to site; allow materials to off-gas volatile organic compound (VOC) emissions off site.
- B. Store materials indoors, in ventilated areas with constant but minimum temperature of 60 degrees F and maximum relative humidity of 25% to 55%.
- C. Do not begin installation of architectural woodwork until space is fully enclosed and mechanical systems are fully operational.
 - 1. Maintain interior installation areas at 70 degrees F and 50% to 55% relative humidity.
- D. Immediately remove from site materials with visible mold and materials with mildew.

PART 2 - PRODUCTS**2.1 MATERIALS**

- A. System Description: Provide mill fabricated architectural woodwork with accessories as required for complete finished installation including cabinet hardware.
- B. Transparent/Stained Finished Casework:
 - 1. Quality: AWS/Premium Grade Type A frameless, Style 1 - Overlay, flush overlay.
 - a. Special: Provide each single length section of casework in largest such sections as access and openings allow, formerly WI Type II.
 - 1) Multiple self-supporting units fastened together to form larger unit allowed only where access and openings do not allow single lengths.

2. Veneers: As indicated under Finishing; approved by Architect; a uniform appearance shall be required.
 - a. Exposed Exterior and Exposed Interior Veneer Thickness: Minimum 0.036" thick.
 - b. Semi-Exposed Surfaces: White Birch stained to match exterior veneers; melamine interiors is not acceptable.
 3. Wood Core: Medium density fiberboard (MDF) or particleboard, with no added formaldehyde and free of toxic materials.
 4. Exposed Edges: Wood matching veneer.
- C. Plastic Laminate Finished Casework and Countertops:
1. Quality: AWS/Custom Grade Type A frameless, Style 1 - Overlay, flush overlay.
 - a. Special: Provide each single length section of casework in largest such sections as access and openings allow, formerly WI Type II.
 - 1) Multiple self-supporting units fastened together to form larger unit allowed only where access and openings do not allow single lengths.
 2. Plastic Laminates:
 - a. Types: NEMA LD-3.1 high pressure laminates.
 - 1) Horizontal Surfaces: General Purpose Type, nominal 0.050".
 - 2) Vertical Surfaces: Vertical Surface Type, nominal 0.032".
 - 3) Unexposed Surfaces: Balanced with 0.030" melamine backing sheet.
 - b. Manufacturers:
 - 1) Formica Corp.
 - 2) Wilsonart, Wilsonart Engineered Surfaces.
 - 3) Nevamar Corp.
 - 4) Abet Laminati Co.
 - 5) Manufacturers listed on Finish Schedules.
 - 6) Substitutions: Refer to Section 01 25 00.
 - c. Colors: As selected by Architect from manufacturer's full range of available colors and patterns, excluding metallics.
 3. Wood Core: Medium density fiberboard (MDF) or particleboard, with no added formaldehyde and free of toxic materials.
- D. Casework Hardware: Provide casework hardware items as required for complete installation as indicated; provide types as listed in Architectural Woodwork Standards for Grade 1, but no less than following types.
1. Plug-In Pin Type Shelf Supports (Transparent Finished Casework): Match BHMA A156.9 B04013 spoon type plug-in supports; provide holes 1" on center.

2. Adjustable Shelf Standards and Supports (Plastic Laminate Casework): Match BHMA A156.9 B04073 adjustable standards and B04083 closed shelf rest brackets for mortis mounting; flush mounted in cabinet.
 3. Cabinet Hinges: BHMA A156.9 B01602 or B01603 frameless European concealed type, minimum 160 degree opening, with spring closer.
 4. Cabinet Pulls: Types as indicated as directed by Architect where not indicated.
 5. Drawer Slides: Full extension, rail mounted type, minimum 100 lb. capacity with ball-bearing rollers.
 6. Cabinet Locks: Pin and tumbler slide bolt lock with five pin tumblers as approved by Architect, two keys each.
- E. Quartz Based Solid Polymer Countertops: Manufacturer's standard quartz based polymer system with color throughout thickness; provide manufacturer recommended joint adhesive; exposed surfaces finished to match top.
1. Manufacturers:
 - a. Belstone/ecoQuartz.
 - b. CaesarStone USA/CaesarStone.
 - c. DuPont Co./Zodiaq.
 - d. Substitutions: Refer to Section 01 25 00.
 2. Quality: AWS/Premium Grade.
 3. Type: Not less than 1/2" thick sheet; coordinate with bowls as indicated and as specified in Division 22.
 4. Color: Manufacturer's standard color as selected by Architect.
- F. Transparent/Stained Finished Wood Paneling:
1. Quality: AWS/Premium Grade, type as indicated.
 2. Veneer: As indicated under Finishing; approved by Architect; a uniform appearance shall be required.
 - a. Thickness: Minimum 0.036" thick.
 3. Paneling Wood Core: Fire rated medium density fiberboard (MDF) with no added formaldehyde and free of toxic materials; type passing ASTM E84 with maximum flame spread of 200 and maximum smoke density of 450.
 - a. Fire Retardant Treatment: Type which does not bleed through and which does not adversely affect finishes.
 4. Exposed Edges: Hardwood matching veneer.
- G. Anchors, Nails and Screws: Select material, type, size and finish required by each substrate for secure anchorage; provide toothed steel or lead expansion bolt screws for drilled-in-place anchors.
- H. Wood Filler: Color to match wood being filled.

2.2 FABRICATION

- A. General: Fabricate architectural woodwork in accordance with specified Architectural Woodwork Standards.
- B. Plastic Laminate: Apply plastic laminate finish in full uninterrupted sheets consistent with manufactured sizes. Make corners and joints hairline; slightly bevel arises.
 - 1. Locate butt joints at least 2'-0" from cutouts.
 - 2. Cap exposed edges with plastic laminate of same finish and pattern.
 - 3. Apply laminate backing sheet to reverse side of laminate surfaces.
 - 4. Provide cutouts for inserts, fixtures and fittings; verify locations from on-site dimensions.
 - 5. Prime paint contact surfaces of cutouts.
 - 6. Plastic Laminate Countertops: Square butt joints and self edging; applied plastic or metal edging not permitted.
 - a. Splashes as indicated or as directed by Architect where not otherwise indicated.
- C. Quartz Based Solid Polymer Countertops: Provide maximum sizes available. Locate butt joints at least 2'-0" from cutouts where more than one-piece countertops are required.
 - 1. Make corners and joints hairline; slightly bevel arises.
 - 2. Provide cutouts for inserts, fixtures and fittings; verify locations from on-site dimensions.
 - 3. Splashes and edges as indicated or as directed by Architect where not otherwise indicated.
- D. Use exposed fastening devices or nails only when approved and unavoidable; arrange neatly.
- E. Assemble woodwork in shop in sizes easily handled and to ensure passage through building openings.

2.3 FINISHES

- A. Transparent/Stained Finished Woodwork: Finish architectural woodwork in shop unless otherwise indicated.
 - 1. Wood Veneers and Veneering: As indicated on Drawings; match Architect samples; as directed by Architect where not indicated.
 - 2. Sand work smooth; seal, stain and varnish concealed and semi-concealed surfaces of transparent/stained finished woodwork; brush apply.
 - 3. Transparent/Stained Finish: AWS/Premium Grade finish producing a dull rubbed effect, as approved by Architect.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Field Measurements: Take field measurements prior to preparation of shop drawings and fabrication where possible; do not delay job progress, allow for trimming and fitting.

3.2 INSTALLATION

- A. Install work consistent with Architectural Woodwork Standards specified quality grade, plumb, level, true and straight with no distortions.
 - 1. Shim as required, using concealed shims.
- B. Ensure mechanical and electrical items affecting architectural woodwork are properly placed, complete, and have been inspected by Architect prior to commencement of installation.
- C. Secure work to grounds, stripping and blocking with countersunk, concealed fasteners and blind nailing as required for a complete installation.
- D. Scribe and cut for accurate fit to other finished work.
- E. Install architectural woodwork under supervision of factory-trained mechanics.
- F. Attach architectural woodwork securely in place with uniform joints providing for thermal and building movements.
- G. Paneling: Provide fire-treated wood stops eight feet on center at paneling where required by applicable codes when paneling is not direct applied to substrate.
- H. Acceptable Tolerances:
 - 1. Variation from True Position: Maximum 1/16" at any position and maximum 1/8" in any 10'-0" length.
 - 2. Adjoining Surfaces of Same Material: No variation permitted.
 - 3. Offset with Abutting Materials: Maximum 1/32".

END OF SECTION