

SECTION 06 41 00
ARCHITECTURAL WOOD CASEWORK

PART 1 GENERAL

1.1 STIPULATIONS

- A. The specifications sections "General Conditions to the Construction Contract", "Special Conditions" and "Division 01 - General Requirements" form a part of this Section by this reference thereto, and shall have the same force and effect as if printed herewith in full.

1.2 SECTION INCLUDES

- A. Staff Break Room cabinets.
- B. Staff Break Room countertop.
- C. Hardware.

1.3 RELATED REQUIREMENTS

- A. Section 06 10 00 - Rough Carpentry: Support framing, grounds, and concealed blocking.

1.4 REFERENCE STANDARDS

- A. AWI/AWMAC/WI (AWS) - Architectural Woodwork Standards 2014, with Errata (2018).
- B. AWMAC/WI (NAAWS) - North American Architectural Woodwork Standards, U.S. Version 3.1 2017, with Errata (2019).
- C. BHMA A156.9 - American National Standard for Cabinet Hardware 2015.
- D. NEMA LD 3 - High-Pressure Decorative Laminates 2005.

1.5 REGULATORY REQUIREMENTS

- A. Comply with the applicable accessibility codes & standards listed on drawing sheet G-001 Building Code Sheet.

1.6 SUBMITTALS

- A. Shop Drawings: Indicate materials, component profiles, fastening methods, jointing details, and accessories.
 - 1. Scale of Drawings: 1-1/2 inch to 1 foot, minimum.
 - 2. Provide the information required by AWI/AWMAC/WI (AWS) or AWMAC/WI (NAAWS).
 - 3. Include certification program label.
- B. Product Data: Provide data for hardware accessories.
- C. Samples: Submit actual samples of architectural cabinet construction, minimum 12 inches square, illustrating proposed cabinet, countertop, and shelf unit substrate and finish.

- D. Samples: Submit actual sample items of proposed pulls, hinges, and shelf standards, demonstrating hardware design, quality, and finish.
- E. Certificate: Submit labels and certificates required by quality assurance and quality control programs.

1.7 QUALITY ASSURANCE

- A. Fabricator Qualifications: Company specializing in fabricating the products specified in this section with minimum five years of documented experience.
 - 1. Accredited participant in the specified certification program prior to the commencement of fabrication and throughout the duration of the project.
- B. Quality Certification:
 - 1. Provide labels or certificates indicating that the installed work complies with AWI/AWMAC/WI (AWS) or AWMAC/WI (NAAWS) requirements for grade or grades specified.
 - 2. Provide designated labels on shop drawings as required by certification program.
 - 3. Provide designated labels on installed products as required by certification program.
 - 4. Submit certifications upon completion of installation that verifies this work is in compliance with specified requirements.
 - 5. Replace, repair, or rework all work for which certification is refused.

1.8 DELIVERY, STORAGE, AND HANDLING

- A. Protect units from moisture damage.

1.9 FIELD CONDITIONS

- A. During and after installation of custom cabinets, maintain temperature and humidity conditions in building spaces at same levels planned for occupancy.
- B. Field Measurements: Field measure spaces to receive cabinets prior to ordering and beginning fabrication in order to verify sizes.
- C. Cabinets: Conform to building lines and neatly fitted around openings, pipes, and other obstructions.

1.10 PRE-INSTALLATION MEETING

- A. Contractor shall utilize the Pre-Installation Meeting Agenda and Pre-Installation Meeting Checklist documents located in e-Builder, Z - Standard Documentation & Training project: Documents \ 03 - Construction - Training and Guidance Documents \ 03 - Role Based Training and Guidance Documents \ Contractors.

1.11 WARRANTY

- A. Provide a five (5) year warranty against product defects in materials and workmanship on Cabinetry.

- B. Provide Lifetime warranty against product defects in materials and workmanship on cabinet hardware.

PART 2 PRODUCTS

2.1 MANUFACTURERS

2.2 CABINETS

- A. Quality Standard: Custom Grade, in accordance with AWI/AWMAC/WI (AWS), unless noted otherwise.
- B. **Scribe Mold:**
 - 1. Provide horizontal scribe mold at the intersection of all ceiling/bulkheads and cabinets.
Provide vertical scribe mold at intersecting of all cabinetry and walls.
- C. Plastic Laminate Faced Cabinets: Custom grade.
- D. Cabinets:
 - 1. Finish - Exposed Exterior Surfaces: Decorative laminate.
 - 2. Finish - Exposed Interior Surfaces: Decorative laminate.
 - 3. Finish - Semi-Exposed Surfaces: Decorative laminate
 - 4. Finish - Concealed Surfaces: Manufacturer's option.
 - 5. Cabinet Box Edge Profiles: Square edge with 1mm PVC edge banding.
 - 6. Door and Drawer Front Edge Profiles: Square edge with 3mm PVC edge banding.
 - 7. Casework Construction Type: Type A - Frameless.
 - 8. Cabinet Style: Flush overlay.
 - 9. Drawer Bodies: Grade A, Baltic Birch.
 - 10. Drawer Construction Technique: Dovetail joints.

2.3 LAMINATE MATERIALS

- A. High Pressure Decorative Laminate (HPDL): NEMA LD 3, types as recommended for specific applications.
- B. Provide specific types as follows:
 - 1. Exposed Horizontal Surfaces: HGS, 0.048 inch nominal thickness, color as scheduled, finish as scheduled.
 - 2. Concealed Horizontal Surfaces (shelves): VGS, 0.028 inch nominal thickness, color as scheduled, finish as scheduled.
 - 3. Vertical Surfaces: VGS, 0.028 inch nominal thickness, color as scheduled, finish as scheduled.

4. Cabinet Liner: CLS, 0.020 inch nominal thickness, color as scheduled, finish as scheduled.
5. Laminate Backer: BKL, 0.020 inch nominal thickness, undecorated; for application to concealed backside of panels faced with high pressure decorative laminate.
6. Melamine surfaced particleboard may be used in lieu of cabinet liner or laminate backer or vice versa.

2.4 COUNTERTOPS

A. Manufacturers:

1. Hartson-Kennedy: www.hartson-kennedy.com.
2. Rynone Manufacturing Corp: www.rynone.com.
3. VT Industries, Inc.: www.vtindustries.com
4. Substitutions: Or approved equal by the Professional.

- ### **B. Plastic Laminate Countertops:** Particleboard substrate covered with HPDL, conventionally fabricated and self-edge banded. HGS, 0.048 inch nominal thickness, color as scheduled, finish as scheduled.

2.5 ACCESSORIES

- ### **A. Adhesive:** Type recommended by fabricator to suit application.
- ### **B. Plastic Edge Banding:** Extruded PVC, flat shaped; smooth finish; self locking serrated tongue; of width to match component thickness, thickness as indicated, and color to match laminate.
- ### **C. Fasteners:** Size and type to suit application.
- ### **D. Bolts, Nuts, Washers, Lags, Pins, and Screws:** Of size and type to suit application; galvanized or chrome-plated finish in concealed locations and stainless steel or chrome-plated finish in exposed locations.

2.6 HARDWARE

- ### **A. Hardware:** BHMA A156.9, types as recommended by fabricator for quality grade specified.
- ### **B. Adjustable Shelf Supports:** Standard side-mounted system using multiple holes for pin supports and coordinated self rests, satin chrome finish, for 5 mm spoon shaped pins at 32 mm o.c. spacing adjustments.
- ### **C. Backsplash Clips:**
1. Smart Clip; University Plastics, Inc.
- ### **D. Drawer and Door Pulls:** Accurate Lock & Hardware (www accuratelockandhardware.com); Model CP-CAB, Ligature Resistant Cabinet Pull. Or equal as approved by the Professional.
- ### **E. Drawer Slides:**
1. Type: Full extension.

2. Static Load Capacity: Heavy Duty grade (100 lbs minimum).
3. Mounting: Side mounted.
4. Stops: Integral type.
5. Features: Provide soft-close type, lever-disconnect, ball bearings.
6. Finish: Clear zinc.
7. Manufacturers:
 - a. Accuride International, Inc; 3634 EC Easy-Close Heavy-Duty Slides:
www accuride.com/#sle.
 - b. Substitutions: Or approved equal by the Professional.
- F. Hinges: European style concealed European style concealed self-closing, self-closing self-closing type, 6-way adjustable, with integrated soft-close feature, corrosion resistant, steel with nickel-plated finish, steel with nickel-plated finish steel with polished finish.

2.7 MISCELLANEOUS

- A. Paintable caulk joint sealer.

2.8 FABRICATION

- A. Assembly: Shop assemble cabinets for delivery to site in units easily handled and to permit passage through building openings.
- B. Edging: Fit shelves, doors, and exposed edges with specified edging. Do not use more than one piece for any single length.
- C. Fitting: When necessary to cut and fit on site, provide materials with ample allowance for cutting. Provide matching trim for scribing and site cutting.
- D. Plastic Laminate: Apply plastic laminate finish in full uninterrupted sheets consistent with manufactured sizes. Fit corners and joints hairline; secure with concealed fasteners. Slightly bevel arises. Locate counter butt joints minimum 2 feet from sink cut-outs.
 1. Finish countertop edges with same material as top surface (self-edged).
 2. Apply laminate backing sheet to reverse side of plastic laminate finished surfaces. Melamine surfaced particleboard may be used in lieu of cabinet liner or vice versa.
 3. Cap exposed plastic laminate finish edges with plastic trim.
- E. Mechanically fasten back splash to countertops as recommended by laminate manufacturer at 16 inches on center.
- F. Provide cutouts for plumbing fixtures. Verify locations of cutouts from on-site dimensions. Seal cut edges.

PART 3 EXECUTION

3.1 EXAMINATION

A. Site Verification of Conditions:

1. Verify adequacy of backing and support framing.
2. Survey each kitchen to verify dimensions for cabinets and countertops.
3. Verify location and sizes of utility rough-in associated with work of this section.

3.2 INSTALLATION

A. Install work in accordance with AWI/AWMAC/WI (AWS) or AWMAC/WI (NAAWS) requirements for grade indicated.

B. General: Deliver, uncrate, place in proper location and assemble cabinets and countertops in accordance with manufacturer's recommendations and approved Shop Drawings.

C. Cabinets:

1. Field measure and coordinate with all architectural features and General Contractor. Ensure that the drawers clear other cabinet pulls.
2. Installation must be in accordance with the manufacturer's recommendations. It is a requirement that all wall cabinets be mounted directly to structural framing otherwise solid wood blocking in wall behind cabinets is required. Wall cabinets to be mounted using appropriate fasteners thru the top and bottom hanging rails and spaced no farther apart than the framing members of the wall on which they are being mounted.
3. Set and secure custom cabinets in place, assuring that they are rigid, plumb, and level.
4. Adjust all drawers to open and close smoothly and ensure that the self-close and stay-closed feature is working properly. Adjust all doors to be tight and open and close properly.
5. Scribe and secure to floor and walls. Scribe to bulkheads. Fill nail holes with putty.
6. Provide connecting and attaching devices, closures, and trim members as required for complete installation.
7. Install items complete and adjust moving parts to operate smoothly.
8. Use fixture attachments in concealed locations for wall mounted components.
9. Use concealed joint fasteners to align and secure adjoining cabinet units.
10. Carefully scribe casework abutting other components, with maximum gaps of 1/32 inch. Do not use additional overlay trim for this purpose.
11. Maintain distance between bottom of wall cabinets and top of countertop between 15 and 18 inches and coordinate with Handicapped wall cabinet accessible reach range of 48" maximum to top of bottom shelf.
12. Wall Cabinets: Secure directly to wall studs with a minimum of 4 screws each.

- 13. Cabinet Pulls: Install level and plumb. Remove all pencil marks.
- D. Secure cabinets to floor using appropriate angles and anchorages.
- E. Countertops:
 - 1. Miter inside corner joints flush and level.
 - 2. Secure to casework and walls with concealed fasteners.
 - 3. Seal cut edges of Countertop at sink and range opening with spar varnish or other approved product.
 - 4. Install Side Splashes at all wall terminations. Side splashes should not extend around rounded counter edge.
 - 5. Seal joints between countertops and walls with joint sealant. Sealant color shall be selected by the Architect, typically to match wall paint. Sealant shall be applied in a craftsman-like manner by experienced personnel. This shall be a thin bead and shall not be spread onto wall. If excess caulk occurs it shall be removed to the satisfaction of the Architect.

3.3 ADJUSTING

- A. Adjust installed work.
- B. Adjust moving or operating parts to function smoothly and correctly.

3.4 CLEANING

- A. Clean casework, counters, shelves, hardware, fittings, and fixtures.

3.5 PROTECTION

- A. Provide final protection and maintain conditions in a manner acceptable to fabricator and installer that ensure that woodwork is without damage or deterioration at the time of Substantial Completion.

END OF SECTION