

- 1) GENERAL
 - a) SECTION INCLUDES
 - i) Fixed modular laminate clad casework and components.
 - ii) Flexible rail mounted laminate clad casework and components.
 - iii) Mobile storage units, tables and components.
 - b) RELATED SECTIONS
 - i) Divisions 5 and 6: Behind the Wall Blocking and Studs
 - ii) Division 9: Base Molding
 - iii) Division 11: Appliances
 - iv) Division 15: Plumbing
 - v) Division 16: Electrical Service Fixtures and Connections
 - c) DEFINITIONS
 - i) Identification of casework components and related products by surface visibility.
 - (1) Exposed Exterior Surfaces – All surfaces visible when doors and drawers are closed, including knee spaces. The underside of cabinet bottoms over 42" above the finished floor. Cabinet tops under 80" above the finished floor, or if 80" and over and visible from an upper building level or floor. Front edges of stretchers, ends, divisions, tops and bottoms. Sloping tops of cabinets that are visible.
 - (2) Exposed Interior Surfaces – All interior surfaces exposed to view in open casework or behind transparent doors.
 - (3) Semi-Exposed Surfaces – Interior surfaces only exposed to view when doors or drawers are opened.
 - (4) Concealed Surfaces – Exterior or interior surfaces that are covered, or not normally exposed to view.
 - d) QUALITY ASSURANCE
 - i) Manufacturer: Minimum of 5 years experience in providing manufactured casework systems for similar types of projects, produce evidence of financial stability, bonding capacity, and adequate facilities and personnel required to perform on this project.
 - ii) Manufacturer: Provide products certified as meeting or exceeding ANSI/AWI 0641-2019 Duty Level 4 testing standards.
 - iii) Manufacturer: Provide products meeting or exceeding SEFA 8 PL-2016 Recommended Practices for Plastic Laminate Laboratory Grade Furniture, Casework, Shelving and Tables, as established in the Scientific Equipment & Furniture Association (SEFA) 2016 Desk Reference, 5th Edition.

OPTIONAL LANGUAGE: Architectural Woodwork Quality Standards (Delete this subsection if not required.)

 - iv) Quality Standard: Unless otherwise indicated, comply with AWI's Architectural Woodwork Quality Standards Current Edition for grades of interior architectural woodwork, construction, finishes and other requirements.
 - (1) Provide current license from AWI Quality Certification Program that manufacturer is duly certified for premium grade quality standards in sections 10.3 (Laminate Cabinets) and P10.0620 (Installation)
 - (2) Provide labels indicating that manufactured casework meets AWI standards.
 - e) SUBMITTALS
 - i) Comply with Division 1, unless otherwise indicated.

- ii) Product Data: Manufacturer's catalog with specifications and construction details.
- iii) Shop Drawings: Indicate dimensions, description of materials and finishes, general construction, specific modifications, component connections, anchorage methods, hardware, and installation procedures, plus the following specific requirements.
 - (1) Include section drawings of typical and special casework, work surfaces and accessories.
 - (2) Indicate locations of plumbing and electrical service field connection by others.

f) **PRODUCT HANDLING**

- i) Deliver completed laminate clad casework, countertops, and related products only after wet operations in building are completed, store in ventilated place, protected from the weather, with relative humidity range of 30 percent to 55 percent.
- ii) Protect finished surfaces from soiling and damage during handling and installation with a protective covering.

g) **JOB CONDITIONS**

- i) Environmental Requirements: Do not install casework until permanent HVAC systems are operating and temperature and humidity have been stabilized for at least 1 week.
 - (1) Manufacturer/Supplier shall advise Contractor of temperature and humidity requirements for architectural casework installation areas.
 - (2) After installation, control temperature and humidity to maintain relative humidity between 30 percent and 55 percent.
- ii) Conditions: Do not install casework until interior concrete work, masonry, plastering and other wet operations are complete.

h) **WARRANTY**

- i) All materials and workmanship covered by this section will carry a five (5) year warranty from date of acceptance.

2) **PRODUCTS**

a) **ACCEPTABLE MANUFACTURERS**

- i) Manufacturer:
 - (1) OnePointe Solutions
 - (a) Drawings and specifications are based on OnePointe Solutions laminate products for fixed modular, flexible rail mounted, and mobile casework and accessories.
 - (b) Other manufacturers shall comply with the minimum levels of material and detailing indicated on the drawings or as specified.

b) **MATERIALS**

- i) Core Materials:
 - (1) Particleboard: 40-50-pound density particleboard according to ANSI A208.1-2016, grade M-2 specifications.
 - (2) MR Moisture Resistant Particleboard: 40-50-pound density particleboard according to ANSI A208.1-2016, grade M-2-MR10 moisture resistant specifications.
 - (3) Medium Density Fiberboard: 1/4" thick: Average 54-pound density MDF according to ANSI A208.2-2016 grade 130 specifications.
 - (4) Hardwood Plywood: 3/4" (18mm) thick, 13-ply, CP/CP Grade according to ANSI/HPVA HP-1 specifications.
- ii) Decorative Laminates: GREENGUARD Indoor Air Quality Certified
 - (1) High-pressure decorative laminate HGS (0.045"), NEMA Test LD 3-2005.
 - (2) High-pressure decorative laminate VGS (0.025"), NEMA Test LD 3-2005.
 - (3) High-pressure decorative laminate HGP (0.036"), NEMA Test LD 3-2005.

- (4) High-pressure cabinet liner CLS (0.020"), NEMA Test LD 3-2005.
- (5) Chemical-Resistant decorative laminate, NEMA Test LD 3-2005
- (6) High-pressure backer, NEMA Test LD 3-2005.
- (7) Thermally fused melamine TFM laminate, NEMA Test LD 3-2005.
- iii) Laminate Color Selection: Maximum 1 color per unit face and 5 colors per project. (See Color Selection in section 3.e).
- iv) Edging Materials:
 - (1) 1 mm PVC banding, machine applied.
 - (2) 3 mm PVC banding, machine applied, and machine profiled to 3 mm radius.
- v) Glass:
 - (1) Wall unit full sliding glass doors: 1/4" thick laminated safety glass.
 - (2) Glass insert doors, hinged or sliding wall cabinets: 1/4" thick tempered glass.
 - (3) Glass insert doors, hinged or sliding tall or base cabinets. 1/4" thick tempered glass.
 - (4) Sliding doors mounted in aluminum track.
 - (5) Trim glass inserts: Transparent, vinyl panel retainer strip, field removable to replace broken panes.
- c) SPECIALTY ITEMS
 - i) Support Members:
 - (1) Countertop support brackets: Powder coated, 12ga steel with integral cleat mount opening and wire management opening.
 - (2) Undercounter support frames: Powder coated.
 - (3) Legs: Powder coated.
 - ii) Tote Trays:
 - (1) Heavy-duty vacuum-formed polypropylene plastic with full top rim and pull. Trays are ivory color, equipped with label holder.
 - (2) Tote tray/supply cabinets equipped with injection molded polycarbonate, continuous side rail support glide. Each side rail support glide is adjustable with integral support pins to interface 32 mm pre-drilled holes.
 - (3) Mobile Storage Units:
 - (a) Tall mobile storage units, as indicated on the drawings, are structural steel framed with powder coated tubing.
 - (b) Casters: 4.25" overall with a 3" soft rubber wheel, double ball bearing, heavy gauge steel fork, zinc plate finish with 4 brakes per unit. Load capacity per caster to be a minimum of 200 pounds.
 - (c) Side panels, back, top, drawer fronts, and doors are of 3/4" thick particleboard, laminated on the exterior with high pressure decorative laminate VGS and on the interior with high pressure CLS cabinet liner. Exposed edges are PVC banding, 1 mm or 3 mm thickness, to match adjacent casework.
 - (d) Low mobile storage units are mounted to a caster base.
 - (4) Computer Keyboard Tray:
 - (a) Non-articulating, undercounter mount with positive stop drawer slides.
- d) CABINET HARDWARE
 - i) Hinges:
 - (1) Concealed hinge with soft close functionality, and three-dimensional door adjustment. ANSI-BHMA standard A156.9, Grade 2.
 - (a) Doors 31" to 60" in height have 3 hinges per door.
 - (b) Doors 61" to 84" in height have 4 hinges per door.
 - (c) Doors 85" and higher in height have 5 hinges per door.
 - ii) Pulls:

- (1) Door and drawer front pulls are metal wire with brushed chrome finish, 96 mm spacing on fasteners. Pull design is compatible with the Americans with Disability Act (ADA).
- iii) Drawer Slides:
 - (1) Regular, knee space, and pencil: Full extension 100-pound load rated zinc coated steel, under mounted with soft close functionality and four-dimensional adjustment. Featuring an easy to operate disconnect finger release system. ANSI/BHMA standard A156.9, Grade 1.
 - (2) File: Full extension 150-pound load rated zinc coated steel, under mounted soft close functionality and four-dimensional adjustment. Featuring an easy lift-off drawer rail disconnect. ANSI/BHMA standard A156.9, Grade 1.
- iv) Adjustable Shelf Supports:
 - (1) Nickel plated metal shelf support, friction fit into cabinet end panels and vertical dividers adjustable to 32mm centers. Each shelf support allows field fixing of shelf to prevent accidental rotation of support if desired. ANSI/BHMA standard A156.9, Grade 1.
- v) Locks:
 - (1) Five-pin tumbler, deadbolt style lock with strike for drawers and non-sliding doors. Five-pin tumbler, plunger style lock with strike for sliding doors. ANSI/BHMA standard A156.11, Grade 1
 - (2) Elbow catch to secure inactive door on all locked cabinets. ANSI/BHMA standard A156.9, Meets Standards.
- vi) Sliding Door Track: Anodized aluminum double channel.
- vii) Coat Rods: 1 3/16" diameter, 16ga chrome plated steel installed in captive mounting hardware.
- viii) File Suspension System: Extruded molding integral with top of drawer box sides to accept standard hanging file folders.
- ix) Mirrors: 1/8" thick mirrored acrylic, break and impact resistant.
- e) FABRICATION
 - i) Fabricate casework, countertops and related products to dimensions, profiles, and details shown.
 - ii) All casework panel components must be precisely cut to size and squareness to ensure strict dimensional quality and structural integrity in the final fabricated product.
 - iii) Cabinet Body Construction:
 - (1) Tops and bottoms are made of particleboard core, glued and doweled to cabinet sides and internal cabinet components such as fixed horizontals, rails and verticals.
 - (2) Cabinet backs: 1/4 thick medium density fiberboard panel fully captured by the cabinet top, bottom and side panels. Finish to match cabinet interior. Mounting stretchers that are 3/4" thick hardwood plywood rails are placed behind the back panel for attachment to the wall and doweled to the cabinet sides. An additional mounting stretcher will be included on all cabinets taller than 60" at approximately mid height of the cabinet.
 - (a) Cabinets with a finished back: 3/4" thick particleboard with the exterior surface finished in VGS laminate as selected.
 - (3) Fixed base and tall units have an individual factory-applied base, constructed of 3/4" thick hardwood plywood. Base is 4" high unless otherwise indicated on the drawings.
 - (4) Base units, except sink base units: Top stretchers, 3/4" hardwood plywood x4" wide, located at the front and rear of the cabinet, attached to the sides.
 - (5) Sink base units are provided with open top and a stretcher at the front, attached to the sides. Back to be removable access panel.
 - (6) Side panels and vertical dividers shall receive adjustable shelf hardware at 32 mm line boring centers.
 - (7) Exposed and semi exposed edges.
 - (a) Edging: 1 mm PVC machine applied. (standard)
 - (b) Edging: 3 mm PVC machine applied and profiled to 3 mm radius. (option)

- (8) Adjustable Shelves in Cabinets: 3/4" particleboard core available in lengths of up to 36" to meet AWI specifications.
 - (a) Edge: 1 mm PVC on front edge only. (standard)
 - (b) Edge: 1 mm PVC on all four edges. (option)
- (9) Interior finish, units with open Interiors:
 - (a) Top, bottom, back, sides, horizontal and vertical members, and adjustable shelving faces with high pressure decorative VGS laminate.
- (10) Interior finish, units with closed Interiors:
 - (a) Top, bottom, back, sides, horizontal and vertical members, and adjustable shelving faces with TFM (Thermally Fused Melamine) laminate.
- (11) Exposed ends:
 - (a) Faced with high-pressure decorative VGS laminate. (standard)
 - (b) Faced with Chemical Resistant high pressure decorative laminate. (option)
- (12) Wall unit bottom:
 - (a) Faced with high pressure decorative VGS laminate.
- (13) Balanced construction of all laminated panels is mandatory. Unfinished core stock surfaces, even on concealed surfaces (excluding edges), is not permitted.
- iv) Drawers:
 - (1) Standard:
 - (a) Sides, back and sub front: Minimum 3/4" thick particleboard, laminated with thermally fused melamine doweled and glued into sides. Top edge banded with 1 mm PVC.
 - (b) Drawer bottom: Minimum 1/2" thick particleboard, laminated with thermally fused melamine, assembled into a machined groove on all four sides of the box and secured with glue.
 - (2) Option:
 - (a) Sides, back and sub front: Minimum 1/2" thick Baltic birch BB/BB grade, with a factory applied UV protective satin finish. Joined via half-blind dovetail. Top edge finished with UV protective satin finish.
 - (b) Drawer bottom: Minimum 1/2" thick Baltic birch BB/BB grade, with a factory applied UV protective satin finish, assembled into a machined groove on all four sides of the box and secured with glue.
- v) Door/Drawer Fronts:
 - (1) Core: 3/4" thick particleboard except at sink units which are 3/4" thick moisture resistant particleboard.
 - (2) Exterior Face:
 - (a) Faced with high-pressure decorative VGS laminate, balanced with high-pressure cabinet liner. (standard)
 - (b) Faced with Chemical Resistant high pressure decorative laminate, balanced with high-pressure cabinet liner. (option)
 - (3) Edges:
 - (a) 1 mm PVC, machine applied (standard)
 - (b) 3 mm PVC, machine applied, external edges and outside corners machine profiled to 3 mm radius. (option)
 - (4) Provide double doors when the opening is nominally in excess of 24" wide.
- vi) Miscellaneous Shelving (not in Cabinets):
 - (1) Core material: 1" thick particleboard.
 - (2) High-pressure decorative VGS laminate on both faces.
 - (a) Faced with high-pressure decorative VGS laminate on both faces. (standard)
 - (b) Faced with Chemical Resistant high-pressure decorative VGS laminate on both faces. (option)
 - (3) Edges:
 - (a) 1 mm PVC, machine applied (standard)

(b) 3 mm PVC, machine applied, external edges and outside corners machine profiled to 3 mm radius. (option)

3) EXECUTION

a) INSPECTION

- i) The casework contractor must examine the job site and the conditions under which the work under this section is to be performed and notify the building owner in writing of unsatisfactory conditions. Do not proceed with work under this Section until satisfactory conditions have been corrected in a manner acceptable to the installer.

b) PREPARATION

- i) Condition casework to average prevailing humidity conditions in installation areas prior to installing.

c) INSTALLATION

- i) Erect casework, plumb, level, true and straight with no distortions. Shim as required. Where laminate clad casework abuts other finished work, scribe and cut to accurate fit.
- ii) Adjust casework and hardware so that doors and drawers operate smoothly without warp or bind.
- iii) Repair minor damage per plastic laminate manufacturer's recommendations.

d) CLEANING

- i) Remove and dispose of all packing materials and related construction debris.
- ii) Clean cabinets inside and out. Wipe off fingerprints, pencil marks, and surface soil etc., in preparation for final cleaning by the building owner.

e) COLOR SELECTION

- i) Laminate Color Selection:
 - (1) Laminates will be chosen from the full range of standard Wilsonart and Nevamar stock color charts or equivalent products.
 - (2) Thermally fused melamine laminate matched to White color.
- ii) Pulls: Select from your choice of brushed chrome finish or epoxy powder coating stock colors matched to White, Beige, Gray, Black and Chrome.
- iii) Miscellaneous Hardware (support brackets, table frames, etc.): Select from your choice of powder coating stock colors matched to White, Beige, Gray, Black and Silver.
- iv) PVC Edge Banding Color Selection:
 - (1) 1 mm and 3 mm PVC: Select from the full range of pattern, woodgrain and solid colors matched to Wilsonart, Nevamar, or other equivalent laminates.

*For complete and current Laminate and PVC color availability charts please contact your sales representative.

END OF SECTION