

CaseworkUSA®

Classic & Premium Finish
specifications



1.1 General

1.2 Summary

1. This section includes the following Scope of Work as referred to in the plans:
 - a. Plastic laminate manufactured casework with **Classic** Finish
 - b. Plastic laminate countertops

1.3 Related Sections

1. Applicable Provisions
 - a. All General, Supplementary and Special conditions listed elsewhere, and requirements including, but not limited to, shop drawing submittals, color schedules, completion schedules and sample requirements.
2. Work not included in this section
 - a. Rough carpentry
 - b. Mill work, moldings, trim and related items
 - c. Plumbing, electrical and mechanical fixtures, cutouts, locations and installation, unless otherwise specified by WB Mfg in quote, drawings, or any other WB Mfg document
 - d. Blocking within walls
 - e. Finished toe base, if other than plastic laminate, unless otherwise specified by WB Mfg in quote, drawings, or any other WB Mfg document
 - f. Fixture cutouts, installation and connections that occur in products defined in this section, unless otherwise specified by WB Mfg in quote, drawings, or any other WB Mfg document

1.4 Definitions

1. Exposed Surfaces
 - a. Surfaces visible with doors and drawers closed
 - b. Wall unit bottoms will be finished
 - c. Interiors of all open cabinets (without doors and/or drawers)
 - d. Interiors of all glass door cabinets, sliding door cabinets, or other transparent facematerial
2. Semi-Exposed Surfaces
 - a. Interior surfaces not visible with doors and drawers in closed position
3. Concealed Surfaces
 - a. Surfaces not visible after installation, or during use of the product.

1.5 Qualifications and Quality Assurance

1. Specifications and drawings are based on casework manufactured as Casework USA® by WB Manufacturing, 507 East Grant Street, Thorp WI 54771. www.wibenchmfg.com (715) 669-5360.
2. All products to be supplied with a ten year manufacturer's warranty against defects in manufacturing and workmanship.

1.6 Project Conditions

1. Products are not to be installed until the building is enclosed, and climate controlled under the following conditions:
 - a. Average temperature to be between 60 and 70 degrees Fahrenheit.
 - b. Maximum humidity not to exceed 70 percent.
2. Products are not to be installed until all overhead utilities and ceiling work are completed in the areas where casework is to be installed.

1.7 Materials

1. Core Materials
 - a. Particleboard
 - i. High performance industrial grade particleboard, 45 pound density, ANSI A 208.1-1993 M-3. Thickness as described herein. Provide at all components unless otherwise specified herein.
 - b. Medium Density Fiberboard
 - i. 45 pound density, ANSI A208.2. Use at all glass doors and where indicated.
 - c. Plywood
 - i. Exterior grade. Used at toe base.
2. Decorative Laminate
 - a. Thermal fused laminate (TFL) for all surfaces, compliant with NEMA performance standards. Colors to be selected from WB Standard colors unless otherwise specified.
3. Edge banding
 - a. .5mm nominal (.020/.018) PVC for drawer boxes only.
 - b. 3mm nominal (.118) PVC, edges and corners to be machined to a nominal 1/8" (.125) radius.
4. Adhesives
 - a. Water resistant adhesives containing no health hazardous ingredients are required. Methods requiring heat and/or "contact laminating" are not allowed.

1.8 Hardware

1. Hinges
 - a. Concealed hinges (standard), 120° swing. Provide baseplates to maintain 1/8" nominal reveals between doors/drawers within the same cabinet, and between doors of adjoining cabinets. Doors shall be self-closing and fitted with silencer bumpers.
 - b. Heavy duty, five knuckle 2 3/4" hinge (optional), shall meet ANSI/BHMA A156.9 Grade 1 requirements, color as noted on drawings.
 - i. Provide door catches as required to comply with Americans with Disabilities Act for opening resistance.
2. Pulls
 - a. Wire design, 96mm, standard WB finish colors as noted on drawings. Pulls are to be factory installed in reverse position.
3. Drawer Slides
 - a. Standard Drawers
 - i. 100# side-mount full extension slides
 - b. File and Paper Storage Drawers
 - i. 150# full extension, side mount
4. Adjustable Shelf Supports
 - a. Twin pin design with anti tip-up shelf restraints shelves with slot to mechanically attach shelf to clip. Load rating shall be minimum 300 lbs. each support.
5. Cabinet Locks, if required by drawings
 - a. Disc tumbler deadbolt action, bright nickel finish
 - i. All locks keyed alike, unless otherwise requested
 - ii. Master keys supplied upon request

6. Wardrobe rod
 - a. 14 gauge, 1 1/16" diameter chrome-plated hand rod with captive supports at each end, securely fastened to cabinet sides and/or fixed vertical divider.
7. Grommets
 - a. Nylon with removable cap. 2 1/2" diameter or as noted on drawings
 - b. Color: Black, or as noted on drawings
8. Specialty hardware
 - a. Hardware not listed herein, as required for specialty products, shall be of the manufacturer's standard, or as approved by the architect before manufacture.

1.9 Detailed Cabinet Construction

1. Surfaces
 - a. Exposed surfaces
 - i. Decorative thermal fused laminate (TFL)
 - b. Semi-exposed surfaces
 - i. Closed interior: Decorative thermal fused laminate (TFL)
 - ii. Drawer Boxes: White thermal fused laminate (TFL)
 - c. Edges
 - i. Cabinet body edge: nominal 3mm PVC at all exposed and semi-exposed
 - ii. Door and drawer front edge: 3mm PVC four sides
 - iii. Shelves: nominal 3mm PVC, front edge. Color to match shelf color.
 - iv. Drawers boxes: nominal .5mm PVC, color white.
 - d. Material balancing
 - i. Thermal fused laminate (TFL), is to be applied to both faces. Panels with melamine on one side only, or with decorative laminate balanced with melamine are not permitted.
2. Cabinet Construction
 - a. Components
 - i. Material Thickness
 1. 1 1/16" particle board core door and drawer face, base, wall, and tall cabinet tops and bottoms, cabinet sides, drawer spreaders, structural dividers, and cabinet backs.
 2. 1/2" particle board core drawer body and drawer bottoms.
 - ii. Fastening Methods
 1. All fixed components permanently assembled with dowel connectors, with additional support at these locations:
 - a. Vertical dividers to be mechanically fastened through the cabinet back at no more than 24" on center.
 - b. Wall cabinet bottoms to be mechanically fastened at no more than 24" on center, via castle mortise or pocket screw method, so screw heads do not protrude.
 - iii. Tops and bottoms
 1. Exterior exposed wall cabinet bottoms shall be matching TFL.
 2. Solid sub-top shall be furnished for all base and tall cabinets, except sink cabinets.

3. Sink cabinets to have full width doweled in place spreader, with sink clearance. Clips or other mechanical type fasteners are not permitted, unless used to strengthen the spreader.
- iv. End panels
 1. Exposed exterior cabinet ends shall be matching TFL at exposed.
 2. Holes drilled for adjustable shelves 1 1/4" on center.
- v. Backs
 1. Cabinet back to be fill 11/16" back panel mechanically fastened to top and bottom depending on final assembly methods. shall be fully bound into sides, top, and bottom.
 2. Sink Cabinets: Rear hang rails shall be doweled to cabinet end panels. Provide minimum of 2 at base.
 3. Provide removable back panels and closure panels for plumbing access at all sink cabinets, and where shown on drawings.
- vi. Shelves
 1. 3/4" thick up to 36" in length, 1" thick over 36" in length.
 2. Fixed shelves to be securely fastened to end panels and/or dividers during the manufacturing process. Locations as indicated on drawings or as defined by manufacturer model number. Field applied fasteners or clips to create a fixed shelf are not permitted.
 3. All shelves to be installed in cabinets prior to shipment.
- vii. Vertical and Horizontal Dividers
 1. Secured in cabinet with dowels and mechanical fasteners.
- viii. Drawer Spreaders
 1. Provide minimum 3/4" x 4" x full width cabinet body rails immediately behind all door/drawer horizontal joints to maintain exact body dimensions, close off reveal, and be locator for lock strikes.
- ix. Drawers
 1. Drawer sides shall be doweled and glued to receive front and back, machine squared and held under pressure to set.
 2. Drawer bottom shall be fully bound into front, sides, and back. Routing, in drawer body for bottom, shall receive glue. Reinforce drawer bottoms with 1/2" x 4" side to side intermediate under body stiffeners.
 3. Drawer fronts shall be applied to separate drawer body component sub- front.
- x. Door and Drawer Fronts
 1. Laminated door and drawer fronts shall be 3/4" finished thickness for all hinged and sliding doors. Drawer fronts and hinged doors shall overlay the cabinet body. Maintain a maximum 1/8" reveal between pairs of doors (dependent on hinge selection), between door and drawer front, at bottom of cabinet, or between multiple drawer fronts within the cabinet. Maximum 1/4" reveal at top of base cabinets to the underside of the countertop.

2. Stile and Rail doors shall be ¾" thick medium density fiberboard with machined exposed interior frame. All exposed light-opening edges shall be finished with black paint and sealed.
- xi. Cabinet Base /Toe Kick
 1. Each base and tall cabinet to have factory applied ladder base system unless noted otherwise on contract drawings. Material is to be plywood.
 2. Full length ladder base system is acceptable provided it is factory assembled to the size requirements for each location, for field placement, leveling and securing.
- xii. Filler panels and Scribes
 1. Laminated filler panels shall be ¾" thick and made from the same material as the cabinet end panels.
 2. Color to match cabinet door and drawer front color, vertical grain.
 3. Fillers to be oversized in width and field cut as necessary to provide a tight fit between the cabinet and wall.
3. Workmanship
 - a. Cabinet parts shall be accurately machined and bored to ensure consistent sizing.
 - b. All cases shall be square, plumb, and true.

1.10 Plastic Laminate Countertops

1. Decorative plastic laminate bonded to core. Thickness as shown on plans.
 - a. Underside shall be properly balanced with heavy gauge backing sheet.
2. Furnish countertops with edge treatment and design profile as shown on drawings.
3. Provide tops in as long as practical continuous lengths.
4. Provide mechanical fasteners at splines and joints. No joints closer than 24" either side of sink cutout unless conditions do not allow.
5. Particle board core at all locations.
6. No splines or joints are to occur over open areas below and are to be fully supported by casework. No ledger strips or other supports at open areas are allowed.
7. Unsupported spans are not to exceed 48" without brackets or blocking. See drawings for type of support required.

1.11 Coordination

1. Coordinate work of this Section with related work of other trades to ensure proper installation of all items.

1.12 Preparation

1. Prior to delivery, casework representative is to verify that the job site conditions as required by this section have been established. Work is not to proceed until conditions are acceptable.
2. Prior to installation, casework and countertops are to be conditioned to the average prevailing humidity levels of the building.

1.13 Installation by Others

1. Casework
 - a. Install casework level, plumb, true, and straight. Shim as required, including base/toe kick assemblies.
 - b. Align and secure all adjoining cabinets to each other, and to wall via in wall blocking, or direct if

masonry or other type of solid wall is present.

2. Countertops
 - a. Anchor to cabinets at a maximum of 24" on center, front, and back.
 - b. Install all splashes, supports and grommet as shown on manufacturers drawings, and as required in this section.
 - c. Seal all joints between countertops, splashes, and walls with clear acrylic caulk.

1.14 Adjusting and Cleaning

1. Adjust all hardware to manufacturer specifications to ensure smooth operation.
2. Adjust all doors and drawers as required to maintain uniform reveals.
3. Remove and dispose of all packing materials. Dispose all installation debris and dust.
4. Deliver any keys, built as drawings, warranty information or other materials that were shipped with casework and countertops to the on-site Project Superintendent.

1.1 General

1.2 Summary

1. This section includes the following Scope of Work as referred to in the plans:
 - a. Plastic laminate manufactured casework with **Premium** Finish
 - b. Plastic laminate countertops

1.3 Related Sections

1. Applicable Provisions
 - a. All General, Supplementary and Special conditions listed elsewhere, and requirements including, but not limited to, shop drawing submittals, color schedules, completion schedules and sample requirements.
2. Work not included in this section
 - a. Rough carpentry
 - b. Mill work, moldings, trim and related items
 - c. Plumbing, electrical and mechanical fixtures, cutouts, locations and installation
 - d. Blocking within walls
 - e. Finished toe base, if other than plastic laminate
 - f. Fixture cutouts, installation and connections that occur in products defined in this section

1.4 Definitions

1. Exposed Surfaces
 - a. Surfaces visible with doors and drawers closed
 - b. Wall unit bottoms will be finished
 - c. Interiors of all open cabinets (without doors and/or drawers)
 - d. Interiors of all glass door cabinets, sliding door cabinets, or other transparent facematerial
2. Semi-Exposed Surfaces
 - a. Interior surfaces not visible with doors and drawers in closed position
3. Concealed Surfaces
 - a. Surfaces not visible after installation, or during use of the product.

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2. All products to be supplied with a ten year manufacturer's warranty against defects in manufacturing and workmanship

1.6 Project Conditions

1. Products are not to be installed until the building is enclosed, and climate controlled under the following conditions:
 - a. Average temperature to be between 60 and 70 degrees Fahrenheit.
 - b. Maximum humidity not to exceed 70 percent.
2. Products are not to be installed until all overhead utilities and ceiling work are completed in the areas where casework is to be installed.

1.7 Materials

1. Core Materials
 - a. Particleboard
 - i. High performance industrial grade particleboard, 45 pound density, ANSI A 208.1-1993 M-3. Thickness as described herein. Provide at all components unless otherwise specified herein.
 - b. Medium Density Fiberboard
 - i. 45 pound density, ANSI A208.2. Use at all glass doors and where indicated.
 - c. Plywood
 - i. Exterior grade. Used at toe base.
2. Decorative Laminate
 - a. High pressure laminate (HPL), for exposed surfaces shall meet NEMALD3-2000 standards including thickness as listed:
 - i. Horizontal Grade Postform (.039) to be used for countertops and work surfaces.
 - ii. Vertical Grade Surface (.028) to be used for all exposed surfaces.
 - iii. White CLS Cabinet Liner (.5mm) to be used to balance finished surfaces.
 - iv. Colors to be selected from WB standard offerings.
 - v. Grain direction for exposed surfaces shall be vertical on doors, drawer faces, end panels, fascia panels, and exposed backs; horizontal at aprons and light valances behind extended doors. Material size limitations may override. See shop drawings for deviations.
 - b. Decorative high pressure laminate (HPL) for exposed surfaces, compliant with NEMA performance stang. White high pressure laminate (HPL) for semi-exposed surfaces, complaint with NEMA performance standards.
3. Edge banding
 - a. .5mm nominal (.020/.018) PVC for drawer boxes only.
 - b. 3mm nominal (.118) PVC, edges and corners to be machined to a nominal 1/8" (.125) radius.

1.8 Hardware

1. Hinges
 - a. Concealed hinges (standard), 120° swing. Provide base plates to maintain 1/8" nominal reveals between doors/drawers within the same cabinet, and between doors of adjoining cabinets. Doors shall be self-closing and fitted with silencer bumpers.
 - b. Heavy duty, five knuckle 2 3/4" hinge (optional), shall meet ANSI/BHMA A156.9 Grade 1 requirements, color as noted on drawings.
 - i. Provide door catches as required to comply with Americans with Disabilities Act for opening resistance.
2. Pulls
 - a. Wire design, 96mm, standard WB finish colors as noted on drawings. Pulls are to be factory installed in reverse position.
3. Drawer Slides
 - a. Standard Drawers
 - i. 100# side-mount full extension slides
 - b. File and Paper Storage Drawers
 - i. 150# full extension, side mount

4. Adjustable Shelf Supports
 - a. Twin pin design with anti tip-up shelf restraints shelves with slot to mechanically attach shelf to clip. Load rating shall be minimum 300 lbs. each support.
5. Cabinet Locks, if required by drawings
 - a. Disc tumbler deadbolt action, bright nickel finish
 - i. All locks keyed alike, unless otherwise requested
 - ii. Master keys supplied upon request
6. Wardrobe rod
 - a. 14 gauge, 1 1/16" diameter chrome-plated hand rod with captive supports at each end, securely fastened to cabinet sides and/or fixed vertical divider.
7. Grommets
 - a. Nylon with removable cap. 2 1/2" diameter or as noted on drawings
 - b. Color: Black, or as noted on drawings
8. Specialty hardware
 - a. Hardware not listed herein, as required for specialty products, shall be of the manufacturer's standard, or as approved by the architect before manufacture.

1.9 Detailed Cabinet Construction

1. Surfaces
 - a. Exposed surfaces
 - i. Decorative high pressure laminate (HPL), grade VGS
 - b. Semi-exposed surfaces
 - i. Closed Interior: White thermal fused laminate (TFL) or white high pressure laminate (HPL).
 - ii. Reverse faces of exposed surfaces: White high pressure laminate (HPL)
 - iii. Drawer boxes: white thermal fused laminate (TFL)
 - c. Edges
 - i. Cabinet body edge: nominal 3mm PVC at all exposed and semi-exposed
 - ii. Door and drawer front edge: 3mm PVC four sides
 - iii. Shelves: nominal 3mm PVC, front edge. Color to match shelf color.
 - iv. Drawers boxes: nominal .5mm PVC, color white.
 - d. Material balancing
 - i. All panels to be produced of balanced laminate construction.
 - ii. Panels with unbalanced or unfinished faces are not permitted regardless of location.
2. Cabinet Construction
 - a. Components
 - i. Material Thickness
 1. 1 1/16" particle board core door and drawer face, base, wall, and tall cabinet tops and bottoms, cabinet sides, drawer spreaders, structural dividers, and cabinet backs.
 2. 1/2" particle board core drawer body and drawer bottoms.

- ii. Fastening Methods
 - 1. All fixed components permanently assembled with dowel connectors, with additional support at these locations:
 - 2. Vertical dividers to be mechanically fastened through the cabinet back at no more than 24" on center.
 - 3. Wall cabinet bottoms to be mechanically fastened no more than 24" on center, via castle mortise or pocket screw method, so screw heads do not protrude.
- iii. Tops and bottoms
 - 1. Exterior exposed wall cabinet bottoms shall be decorative high pressure laminate (HPL), unless noted otherwise.
 - 2. Solid sub-top shall be furnished for all base and tall cabinets, except sink cabinets.
 - 3. Sink cabinets to have full width doweled in place spreader, with factory cutout for sink clearance. Clips or other mechanical type fasteners are not permitted, unless used to strengthen the spreader.
- iv. End panels
 - 1. Exterior exposed wall cabinet bottoms shall be decorative high pressure laminate (HPL), unless noted otherwise.
 - 2. Holes drilled for adjustable shelves 1¼" on center.
- v. Backs
 - 1. Cabinet back shall be fully bound into sides, top, and bottom. Rear, unexposed, side of back shall be toe-nailed to cabinet body with mechanical fasteners and solidified with a continuous bead of industrial grade hot melt adhesive.
 - 2. Sink Cabinets to have rear hang rails doweled to cabinet end panels. Provide minimum of 2 at base.
 - 3. Provide removable back panels and closure panels for plumbing access at all sink cabinets, and where shown on drawings.
- vi. Shelves
 - 1. ¾" thick up to 36" in length, 1" thick over 36" in length.
 - 2. Fixed shelves to be securely fastened to end panels and/or dividers during the manufacturing process. Locations as indicated on drawings or as defined by manufacturer model number. Field applied fasteners or clips to create a fixed shelf are not permitted.
 - 3. All shelves to be installed in cabinets prior to shipment.
- vii. Vertical and Horizontal Dividers
 - 1. Secured in cabinet with dowels and mechanical fasteners.
- viii. Drawer Spreaders
 - 1. Provide minimum ¾" x 4" x full width cabinet body rails immediately behind all door/drawer horizontal joints to maintain exact body dimensions, close off reveal, and be locator for lock strikes.

- ix. Drawers
 - 1. Drawer sides shall be doweled and glued to receive front and back, machine squared and held under pressure to set.
 - 2. Drawer bottom shall be fully bound into front, sides, and back. Routing, in drawer body for bottom, shall receive glue. Reinforce drawer bottoms with ½" x 4" side to side intermediate under-body stiffeners.
 - 3. Drawer fronts shall be applied to separate drawer body component sub- front.
 - x. Door and Drawer Fronts
 - 1. Laminated door and drawer fronts shall be ¾" finished thickness for all hinged and sliding doors. Drawer fronts and hinged doors shall overlay the cabinet body. Maintain a maximum ⅛" reveal between pairs of doors (dependent on hinge selection), between door and drawer front, at bottom of cabinet, or between multiple drawer fronts within the cabinet. Maximum ¼" reveal at top of base cabinets to the underside of the countertop.
 - 2. Stile and Rail doors shall be ¾" thick medium density fiberboard with machined exposed interior frame. All exposed light-opening edges shall be finished with black paint and sealed.
 - xi. Cabinet Base /Toe Kick
 - 1. Each base and tall cabinet to have factory applied ladder base system unless noted otherwise on contract drawings. Material is to be plywood.
 - 2. Full length ladder base system is acceptable provided it is factory assembled to the size requirements for each location, for field placement, leveling and securing.
 - xii. Filler panels and Scribes
 - 1. Laminated filler panels shall be ¾" thick and made from the same material as the cabinet end panels.
 - 2. Color to match cabinet door and drawer front color, vertical grain.
 - 3. Fillers to be oversized in width and field cut as necessary to provide a tight fit between the cabinet and wall.
3. Workmanship
- a. Water resistant adhesives containing no health hazardous ingredients are required. Methods requiring heat and/or "contact laminating" are not allowed.
 - b. Cabinet parts shall be accurately machined and bored to ensure consistent sizing. End panels shall be doweled to receive bottom and top.
 - c. All cases shall be square, plumb, and true.

1.10 Plastic Laminate Countertops

- 1. Decorative plastic laminate bonded to core. Thickness as shown on plans. Underside shall be properly balanced with heavy gauge backing sheet. Furnish countertops with edge treatment and design profile as shown on drawings. Provide tops in as long as practical continuous lengths. Provide mechanical fasteners at splines and joints. No joints closer than 24" either side of sink cutout unless conditions do not allow.
- 2. Particle board core at all locations.
- 3. No splines or joints are to occur over open areas below and are to be fully supported by casework. No ledger strips or other supports at open areas are allowed.
- 4. Unsupported spans are not to exceed 48" without brackets or blocking. See drawings for type of support required.

1.11 Coordination

1. Coordinate work of this Section with related work of other trades to ensure proper installation of all items.

1.12 Preparation

1. Prior to delivery, casework representative is to verify that the job site conditions as required by this section have been established. Work is not to proceed until conditions are acceptable.
2. Prior to installation, casework and countertops are to be conditioned to the average prevailing humidity levels of the building.

1.13 Installation by Others

1. Casework
 - a. Install casework level, plumb, true, and straight. Shim as required, including base/toe kick assemblies.
 - b. Align and secure all adjoining cabinets to each other, and to wall via in wall blocking, or direct if masonry or other type of solid wall is present.
2. Countertops
 - a. Anchor to cabinets at a maximum of 24" on center, front, and back.
 - b. Install all splashes, supports and grommet as shown on manufacturers drawings, and as required in this section.
 - c. Seal all joints between countertops, splashes, and walls with clear acrylic caulk.

1.14 Adjusting and Cleaning

1. Adjust all hardware to manufacturer specifications to ensure smooth operation.
2. Adjust all doors and drawers as required to maintain uniform reveals.
3. Remove and dispose of all packing materials. Dispose all installation debris and dust.
4. Deliver any keys, built as drawings, warranty information or other materials that were shipped with casework and countertops to the on-site Project Superintendent.