



## STEVENS ADVANTAGE 6120 MOBILES

### SECTION - 12400

#### PART 1 GENERAL

##### 1.01 QUALIFICATION

- A. Casework shall be Stevens Advantage 6120 Mobiles Series. Catalog numbers and specification details shall be based on product offerings of Stevens Industries, Inc., Teutopolis, Illinois. Configuration, size, material options, offerings and quality to be conformed to.
- B. **Approvals:**
1. Casework of other manufacturers will be considered for approval, providing written request is received and approved at least ten (10) days prior to announced bid date and approved by addendum. Bidder shall state in writing any deviations from requirements and specifications. The casework shall conform to the configuration, arrangement, design, material quality, joinery, panel thickness and surfacing of that specified and shown on drawings. Other manufacturers must provide evidence of prior background experience with this specialty cabinetry section.
  2. Manufacturers requesting approval shall submit samples with cut-aways showing cabinet construction, joinery, drawer and door construction, hardware and materials, along with catalogs and specification, in order that accurate evaluations can be made. Manufacturers shall show full sized working samples. Catalogs and specifications shall be submitted with written request, along with detailed list of compliance and deviations from these documents for approval. Samples may be impounded by owner and retained until completion of job for verification and compliance of specifications.
  3. Manufacturer must be a member in good standing of the Architectural Woodwork Institute and a participant in the AWI Quality Certification Program, capable of producing casework to the grade level required by the customer.

##### 1.02 SUBMITTALS

- A. **Catalog Cuts:** Additional catalog cuts, details and samples as requested by architect for evaluation and coordination.
- B. **Color Samples:** Shall be submitted for selection and coordination at time of shop drawing submittals. Samples of actual materials and colors shall be available as required.

##### 1.03 PRODUCT DELIVERY, STORAGE AND HANDLING

- A. **Protection:** Protect casework and related materials during transit, delivery, storage and handling to prevent damage, soiling and deterioration.
- B. **Storage:** Store casework and related materials at project site in installation and storage areas with similar ambient conditions as final installation. Storage areas must be kept dry, heated with low relative humidity and away from construction work such as painting, wet work, grinding and similar operations.
- C. **Site Conditions:** In accordance with AWI's *Quality Standards Illustrated* (current version) and Stevens Industries, Inc.'s *Site Conditions*.

##### 1.04 WARRANTY – refer to The Stevens Advantage Warranty

- A. Casework manufacturer shall warrant for a period of three (3) years that its manufactured product is free from defects in materials and workmanship when properly installed and under normal use and conditions.
- B. Accessory equipment (sinks, fittings, fixtures) shall be warranted to the limit of those specific manufacturers' guarantees.



### PART 2 PRODUCTS

#### 2.01 SURFACE MATERIAL

##### A. Cabinet:

1. Sides, fronts, top, bottom and back shall be faced with vertical grade PF-28 (.028") (.7mm) High Pressure Laminate (HPL), surface performance tested under National Electrical Manufacturers Association (NEMA) LD3-2005. Decorative laminate shall be thermoset to core using catalyzed Polyvinyl Acetate (PVA) glue with minimum 80 Pounds per Square Inch (PSI) pressure and average 180 degree F temperature. (Lower pressure and cold curing glues not acceptable.)
2. Panels with exterior PF-28 surfaces shall have Cabinet Liner Surface (CLS) (.020") (.5mm) interior cabinet liner.

B. **Interior:** Semi-exposed surfaces shall be Stevens Advantage Thermally Fused Laminate (TFL) two (2) sides. Laminate shall be homogenous, thermofused to core face resulting in panel structure warranted against any delamination. Stevens Advantage TFL shall be surface performance tested under NEMA LD3-2005 vertical grade GP-28 standards. TFL lamination shall use high pressure 350-400 PSI with thermosetting temperatures of 380-400 degrees F under precision controlled press cycle with textured surface finishes.

C. **Drawers:** Shall be finished entirely in Stevens Advantage TFL.

#### 2.02 CORE MATERIALS

A. **Particleboard:** Shall be high performance industrial grade core. Particleboard shall be 45# - 48# density 3-ply type formation, with physical attributes conforming to American National Standards Institute (ANSI) A208.1, as tested using American Society for Testing and Materials (ASTM) D1037-91A methods and current to applicable CARB (California Air Resources Board) standards.

B. **Medium Density Fiberboard (MDF):** Core shall be minimum 48# density, with physical attributes conforming to ANSI A208.1 MD-130 standard and current to applicable CARB standards.

#### 2.03 EDGINGS

A. **Door and Drawer Fronts:** Edges shall have 3mm radius edge extrusion banding. Automated hot melt adhesive application and trimming.

B. **Cabinet Edges:** Cabinet sides, tops, bottoms and other exterior components shall have 3mm radius edge extrusion banding. Automated hot melt adhesive application and trimming.

C. **Interior Components:** Shelves, verticals and drawer components shall be edged with (.020") flat edge extrusion. Automated hot melt adhesive application and trimming.

D. **Selections:** Edgebanding to be selected from Stevens Advantage current offering (one selection per unit).

#### 2.04 SELECTIONS AND APPLICATIONS


A. **Mobile Cabinet:** Sides, fronts, tops, bottoms and backs shall all have exposed finish. Patterns and color HPL shall be selected from Wilsonart standard offering (standard price category - one selection per unit).

B. **Interior and Semi-Exposed Surfaces:** Selected from Pearl White solid color or Maple woodgrain pattern.

C. **Drawers:** Shall be Pearl White solid color or Maple woodgrain pattern, coordinated to match interior selected.

D. **Metal Frame:** Caster base metal frame components shall be powder coated in standard black.

### 2.05 HARDWARE

- A. **Hinges:** Shall be heavy duty 5-knuckle 270 degree pivot reveal overlay style. Hinges shall have interlaying leaves 270 degree swing, constructed of (.090") thickness steel. Hinges shall be Grade 1 with hospital ground tips and non-removable pins. Doors 48" or less shall have two (2) hinges per door. Doors exceeding 48" shall have three (3) hinges per door. Hinges shall be mounted with 5mm thread-in screw bolts with additional #8 screws in cabinet leaf and door leaf. Total nine (9) fasteners per hinge.
- B. **Castors and Mounting Frames:** Heavy duty non-marring swivel casters shall have ball bearing swivels, 4 bolt mounting and tread braking. Mobile cabinets shall have 5" diameter casters (rated 300# each): (2) swivel braking and (2) swivel non-braking type. Casters shall be integral bolted onto steel channel cabinet member. 14-gauge formed channel member shall be 3 3/4" wide with 3/4" downturned legs each with double thick hem edge. Steel frame member shall have bolt attachment to unit bottom and also cross bolted into barrel style fastening system in cabinet ends.
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- C. **Door Catches:** Shall be heavy duty spring loaded, large diameter (17.5mm) roller catches. Catch strike plate shall be injection molded with integral molded engagement ridge and wide face bumper door stop. Mobile units shall have roller catches and mounted bumper/catch strike plates at both top and bottom of full height doors.
- D. **Pulls:** Shall be offered in easy grip 128mm (5" size). Pulls shall be available as selected from Stevens Advantage Essentials and Artisan Collections. (Offerings of less size, styles and selection shall not be acceptable.)
- E. **Drawer Slides:** Extension slides shall be bottom and side mounted epoxy powder coated steel slides. Lateral stability is achieved through a formed captive slide profile, and slides shall glide on nylon rollers. Slides shall have both in and out drawer stop with self close feature. Slides shall meet AWI 100# dynamic load rating requirement, exceeding Grade 1 as tested SEFA (The Scientific Equipment and Furniture Association) 8.0 Section 6 and/or PL 6.5.1 drawer suspension systems under ANSI/BHMA (Builders Hardware Manufacturers Association) A156.9.
- F. **Full Extension Slides:** Full extension ball bearing slides to be an option feature available for all cabinet drawers if selected in specification options. Ball bearing slides shall be tested under The Business and Institutional Furniture Manufacturer's Association (BIFMA) X5.5 Section 7. Slides shall pass 50,000 cycle test with a 120# load rating.
- G. **Hanger Bars:** Shall be heavy chrome plated oval tubing mounted in adjustable end wall sockets.
- H. **Trays and Bins:** High impact polystyrene or polyethylene formed trays and bins shall be provided where indicated by model numbers. Trays and bins shall be suspended on welded wire powder coated rack system. System includes side suspension rack uprights with top and bottom horizontal guideways to avoid inadvertent tip out.
- I. **Shelf Supports:** Adjustable shelf supports shall be injection molded clear polycarbonate. Supports shall incorporate integral molded lock tabs to retain shelf from tipping or inadvertent lift out. Supports shall have 5mm diameter double pin engagement into precision bored cabinet vertical hole patterns. Adjustment shall be 1 1/4" (32mm) spacings. Supports shall have a side compression profile effecting force against shelf edge to maintain positive pin engagement. Supports shall have molded-in screw attachment feature. Static test load shall exceed 200# per clip.
- J. **Locks:** High security SA402 6-tumbler dead bolt lock system shall be provided where noted by model number or indicated on drawings. Locks shall have diecast body with dead bolt engagement tang. (Cylinder locks with attached rotating cams not acceptable.) Locks shall have removable and interchangeable 6-tumbler core for field and customer re-keying options. Locks shall be master keyed and available key-alike or key-different. Each lock provided with a double bit key and face of lock stamped with key number.



- K. **Sliding Doors:** Solid 3/4" doors shall have double channel extrusion tracks both top and bottom. Glass sliding doors shall have aluminum top channel track and bottom track with fiber inserts. Glass doors above 36" tall include door bottom extrusion with track rollers.
- L. **Coat Hooks:** Under mount and wall mount hooks shall be selected from Stevens Advantage Gallery Collection designs. Hooks shall be formed cold roll steel with ball end tips and welded in stamped steel base. Gallery Collection includes three (3) under mount designs (double, triple, wardrobe) and three (3) wall mount designs (single, double, schoolhouse). Styles shall be design coordinated with powder coated matte nickel finish. (Cast hooks susceptible to breakage, non-matching finishes or designs not acceptable.)

### 2.06 COMPONENT DETAILS AND CONSTRUCTION

- A. **Door and Drawer Fronts:** Shall be 3/4" thick. Fronts shall be edged with 3mm radius edge extrusion with face laminated as described in 2.01.A. Automated hot melt adhesive application and trimming.
- B. **Mobile Cabinet Body:**
1. Components shall be 3/4" thick members throughout. Sides and back shall be integrally doweled into unit top and bottom. Sides, top, bottom and back shall be precision CNC drilled locations. Doweled components shall also be precision CNC drilled and glue doweled. Sides are additionally secured to back by cross bolting with internal hex drive trim bolts into barrel style molded fasteners.
  2. Side, top and bottom components shall be edged with 3mm radius edge extrusion.
  3. Top and bottom components with 3mm radius edge extrusions shall extend beyond face plane of sides, fronts and backs. All four (4) edges form a wraparound bumper of the mobile unit.
- C. **Caster Mounts:** Shall incorporate heavy duty 14-gauge formed steel frame channels. Channel members extend full width of the unit both front and back. Frame channels are bolted onto bottom panel. End bolt fasteners on all four (4) corners extend through bottom into cabinet sides, cross bolting into high strength molded barrel fasteners. Each caster is attached to channels with four (4) locknuts and four (4) 1/4-20 stud bolts per caster.
- D. **Adjustable Shelves:** Shall be 3/4" thick. Shelving shall have end 4-point support for spans 27" or less. Spans above 27" shall have 5-point support with backs drilled to receive additional mid-span shelf support, reducing deflection under heavier loads. Shelving above 36" in length shall be 1" thick.
- E. **Drawers:** Four (4) sided full box design with separate attached front shall be provided. Drawer members shall be 3/4" thick with dowel pin construction at all four (4) corners. Drawer bottoms shall be 1/4" MDF trapped in groove four (4) edges as well as mechanically fastened. Entire drawer box to be Stevens Advantage TFL. (Drawers utilizing 1/2" members or with overlay applied bottoms, non-captured groove or staple butt or lap joint construction not acceptable.)
- F. **File Drawers:** Shall be a four (4) sided box design with separate attached front. Drawer members shall be laminated and have dowel pin construction at all four (4) corners. Drawer bottoms shall be laminated 1/4" MDF core trapped in groove four (4) edges as well as mechanically fastened. File drawer sides shall include file hanging rails. Full extension ball bearing suspensions shall be BIFMA 120# load rated slides for standard files. Lateral files shall have 200# rated slides. File drawers shall be Pearl White.

### 2.07 ADD COST OPTIONS FOR 6120 MOBILE CASEWORK

- Special order Formica, Pionite and Nevamar laminates.
- Full extension 120# ball bearing slides throughout.

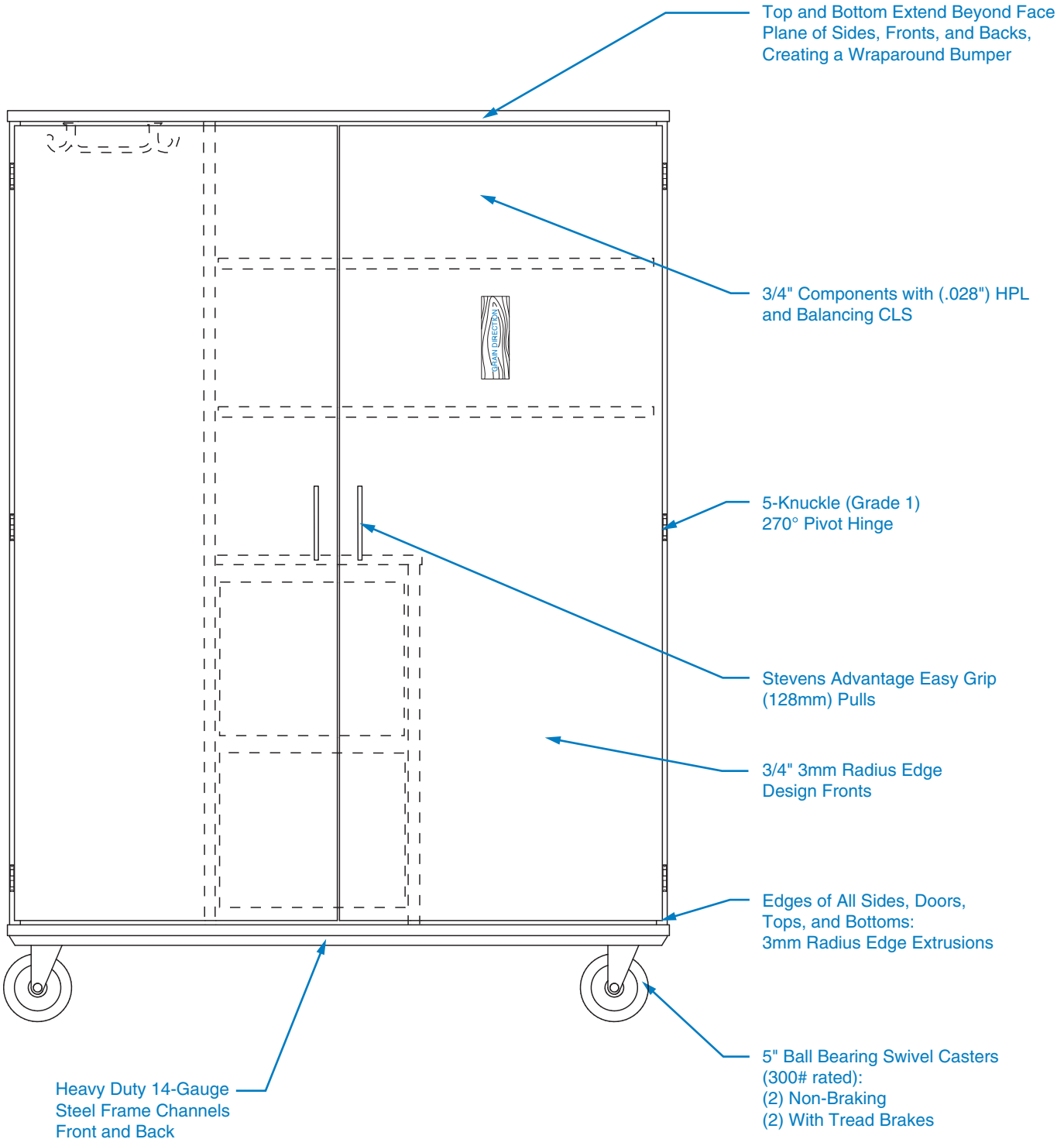
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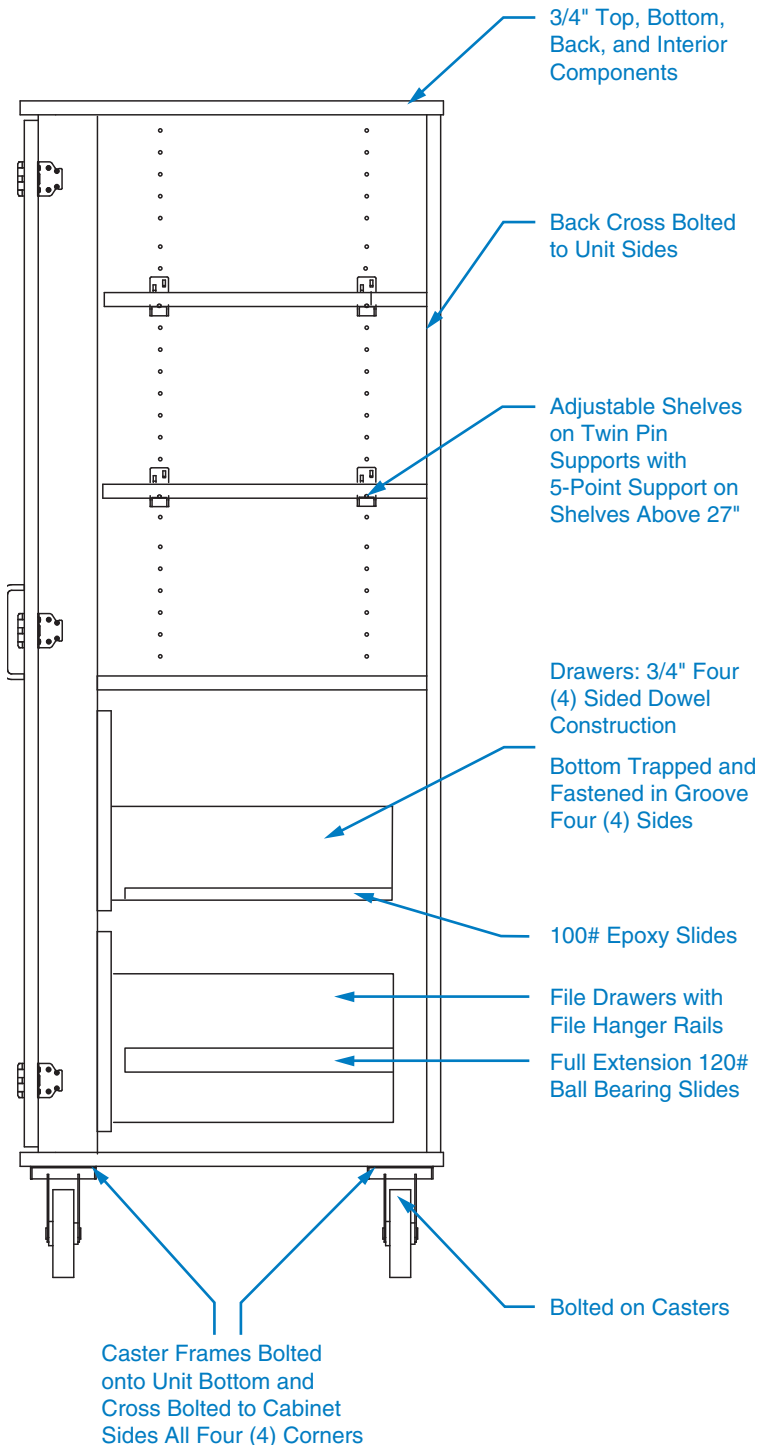
### GLOSSARY OF ACRONYMS

<b>ANSI:</b> American National Standards Institute	<b>CNC:</b> Computer Numerical Control
<b>ASTM:</b> American Society for Testing and Materials	<b>HPL:</b> High Pressure Laminate
<b>AWI:</b> Architectural Woodwork Institute	<b>MDF:</b> Medium Density Fiberboard
<b>BHMA:</b> Builders Hardware Manufacturers Association	<b>NEMA:</b> National Electrical Manufacturers Association
<b>BIFMA:</b> The Business and Institutional Furniture Manufacturer's Association	<b>PSI:</b> Pounds per Square Inch
<b>CARB:</b> California Air Resources Board	<b>PVA:</b> Polyvinyl Acetate
<b>CLS:</b> Cabinet Liner Surface	<b>SEFA:</b> The Scientific Equipment and Furniture Association
	<b>TFL:</b> Thermally Fused Laminate

# 6120 MOBILES

## Specifications





### Standard Features:

- 3mm radius edge extrusions on all exposed exterior edges
- Wilsonart standard selection HPL exteriors
- Interiors in Pearl White or Maple woodgrain
- Essentials and Artisan Collection 128mm pulls
- SA101 5-knuckle, institutional grade, 270° pivot hinge in standard finishes
- Double full width 14-gauge caster frame understructure
- Heavy duty 5" (300# rated) ball bearing swivel casters, (2) with tread brake
- SA402 6-tumbler high security dead bolt lock, where specified

### Optional Features:

- Special order Formica, Pionite and Nevamar laminates
- Full extension 120# ball bearing slides in lieu of 100# epoxy

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Due to continuing product development, Stevens reserves the right to change specifications without notice.

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## Specifications



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