



STEVENS ADVANTAGE 5120 BAND AND MUSIC

SECTION - 12400

PART 1 GENERAL

1.01 GENERAL PROVISIONS

- A. Applicable provisions of General Conditions, Special Conditions and General Requirements shall apply to this section as if repeated in full herein. Reference other Sections and Divisions for work in connection with this section.

1.02 SCOPE OF WORK

- A. **Cabinets:** Furnish Band and Music cabinetry and related components as specified herein. Refer to plans and equipment lists for details and requirements. Cabinetry shall include all fillers, scribes, finished ends and finished backs for complete installation. Locks to be provided where shown on casework drawings or described in equipment lists.

1.03 RELATED WORK NOT INCLUDED

- A. **Blocking, Framing and Reinforcements:** In walls, ceilings and floors for cabinetry anchorage and mountings. (Specified in carpentry section)
- B. **Vinyl Base Molding:** (Specified in resilient flooring section)

1.04 QUALIFICATION

- A. **Band and Music:** Casework shall be Stevens Advantage 5120 Inset Design Band and Music. 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.

1.05 SUBMITTALS

- A. **Shop Drawings:** Shall be submitted for approval after formal notification of award of contract. Drawings shall consist of floor plans indicating arrangement and relation to adjacent work and equipment and complete elevations of casework.
- B. **Color Samples:** Shall be submitted for selection and coordination at time of shop drawing submittals. Samples of actual materials and color shall be available as required.



- C. **Catalog Cuts:** Additional catalog cuts, details and samples as requested by architect for evaluation and coordination.

1.06 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 edition) and Stevens Industries, Inc.'s *Site Conditions*.

1.07 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 shall be warranted by appropriate manufacturer's guarantee to the limit of that manufacturer's standard warranties.

PART 2 PRODUCTS

2.01 SURFACE MATERIAL

- A. **Cabinet:**
1. Finished ends, fronts and finished backs 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) sided laminate shall become homogenous, thermofused to core face resulting in a unitized structure. Lamination shall be under precision controlled press cycle using high pressures of 350-400 PSI and thermosetting temperatures of 380-400 degrees F. Resin impregnated decorative faces shall be thermofused and chemically cross linked within laminate face and to core structure. Surface texture finishes to be formed against precision engraved chromed press plates. Laminates shall be warranted for life against delamination.
- C. **Backs:** Shall have a Pearl White finish.

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 high impact extrusion banding.
- B. **Cabinet Edges:** Cabinet sides, top, bottom, adjustable shelves and other interior components shall have 3mm radius edge high impact extrusion banding.
- C. **Instrument Cabinet Shelf Edges:** Shall have seamless one-piece wraparound front edge to shelf Scuff-Gard™ facing. Seamless nose shall have smooth rounded transition to shelf surfacing and flush machined to bottom shelf face.
- D. **Drawer Components:** 3/4" sides shall be edged with (.020") flat edge extrusion. Automated hot melt adhesive application and trimming.

2.04 SELECTIONS AND APPLICATIONS

- A. **Exposed:** Cabinet finished ends, fronts and finished back laminates shall be selected from Wilsonart standard offering (standard price category). Cabinet body ends and solid doors can be matching or different (one combination per project). (Products with less offerings not acceptable.)
- B. **3mm High Impact Edges:** Shall be chosen from Stevens Advantage current offering. Edgings can be matching to cabinet exterior face laminates and solid door laminates or contrasting (one combination per project). (Products with less offerings or applications not acceptable.)
- C. **Interior and Semi-Exposed Surfaces:** Shall have Stevens Advantage Pearl White high performance TFL faces.
- D. **Backs:** Shall have Pearl White finish.
- E. **Acousti-Grille Doors and Other Metal Components:** Shall have Pearl White powder coated finishes.

2.05 Hardware

- A. **Hinges:** For solid laminate and Acousti-Grille doors shall be inset type 5-knuckle design. Hinges shall have interlaying leaves, constructed of (.090") thickness steel allowing 180° pivot swing. Hinges shall be Grade 1 with hospital ground tips and non-removable pins. Grille and solid doors under 47" shall have two (2) hinges per door. Doors exceeding 47" shall have four (4) hinges per door. Solid door 5-knuckle 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. **Instrument Storage:**
 - 1. **Acousti-Grille Doors:** Shall be available in individual compartment and also full height cabinet one-piece sizes. Wire Acousti-Grille doors shall be one-piece welded with full wrap 5/16" diameter steel frame. 5/16" cross framing reinforcements with 13/64" diameter vertical grille wires. Acousti-Grille doors shall have welded attached 5-knuckle hinges with cabinet mounting leaf using two (2) 5mm thread-in screw bolts and two (2) additional #8 screws each leaf.
 - 2. **Latching Mechanism:** Shall be integral to solid doors and Acousti-Grille doors. Both door types shall have a lock hasp, label and catch mechanism. This mechanism shall latch door shut automatically, without the need of manual cross slides or finger activated locking. Latch shall release with a simple grab action to release and open door. Additionally the mechanism shall integrate a hasp design for padlock use. Padlock loop shall pass through the hasp and latch providing a secure locked door. Hasp design shall include a large label holder area suitable for slide-in labels, adhesive backed and laminated engraved number systems. (Latch systems without auto-latch closing not acceptable.)
 - 3. Acousti-Grille doors and hasp locking mechanisms shall have color coordinated Pearl White powder coated finish.



- C. **Door Catches:** Shall be positive engaging heavy duty spring loaded roller type. Catches shall have nylon movements with large (17.5mm) rollers. Catches shall be mounted at door bottom. Full height one-piece doors shall have catch top and bottom. Catches shall include injection molded strike plate with integral engagement ridge and wide face door bumper.
- 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. **Scuff-Gard™:** Shelving faces shall be standard in all units designated as instrument storage units. Instrument storage cabinet shelving shall have one-piece wraparound Scuff-Gard™. Pearl White Scuff-Gard™ is a one-piece high impact thermoform easy-clean surface with alternating tread design, allowing air circulation between stored material and shelf. The molded leading front edge shall encapsulate the shelf edge with radius corners and be a machined flush bottom design.
- F. **Wire Shelving:** Shall be welded wire type allowing air flow venting. Wire shelving shall have powder coated finish and shall be mounted to allow removal.
- 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 capture trays and bins and 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 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 secure 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. **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 8.0 Section 6 and/or PL 6.5.1 drawer suspension systems under ANSI/BHMA (Builders Hardware Manufacturers Association) A156.9.
- 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. 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

Stevens Advantage Band and Music casework shall be an inset front design. Vertical cabinet ends and compartment dividers shall extend to the frontal plane of door face. Hinge hardware shall be inset cabinet mounted and door back mounted allowing a 180° pivot opening.

- A. **Cabinet Components:** Shall be 3/4" thick members throughout. Cabinet ends and compartment verticals shall have 3mm high impact extrusion edges. Ends shall have back groove, and vertical components 3/4" thick shall be precision CNC drilled for accurate location of adjoining members. Horizontal members shall be permanently affixed into dowel joined location for maximum security of individual storage compartments. (Exposed screw fastening, clip system or removable shelf designs not acceptable.)
- B. **Tall Cabinets:** Shall have three (3) internal (dowel into end) mounting frames behind cabinet back. Additionally (dowel into end) toe kick frames shall be permanently mounted front and back. Entire unit to be case clamped and provided as a rigid one-piece assembly. (Units not providing rigid dowel pin design not acceptable.)
- C. **Door Fronts:** Full or individual compartment solid doors shall be 3/4" thick. Fronts shall be edged with 3mm radius edge high impact extrusions. Automated hot melt adhesive application and trimming. Face laminates to be as those described in 2.01.A.
- D. **Cabinet Backs:** Shall be in an integrated system of a 1/4" prefinished Pearl White MDF back captured in side and horizontal grooves. Unit back to be further integrated with attachment to 3/4" doweled-in mounting frames. Fixed backs are mechanically fastened into grooves and sealed with hot melt adhesive.
- E. **Adjustable Shelves:** Shall be 3/4" thick. Shelving shall have end 4-point support for spans under 27". Spans above 27" shall have 5-point support with backs drilled to receive additional mid-span shelf support, reducing deflection under heavier loads.
- F. **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 joint construction not acceptable.)
- G. **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.
- H. **Folio Cabinets:** Shall have adjustable dividers or shelves. 1/4" thick shelves shall be relocatable on 48mm (1 7/8" centers). Typical compartment openings shall be 1 5/8" high.
- I. **Instrument Storage Units:** Having both width and depth dimensions larger than 30" shall be shipped factory assembled. Fastening methods shall allow field disassembly, permitting passage through restrictive corridors and doorways.

2.07 ADD COST OPTIONS FOR 5120 BAND AND MUSIC

- Special order Formica, Pionite and Nevamar laminates for exterior and door front surfaces.
- Tamper resistant thru-bolt hinge to door attachment.
- Acoustic Absorption Construction: Helps to absorb high and low frequencies and direct sound reflection through sound deadening covered backs with pass-thru perforations into rear chamber containing commercial sound absorbing materials.



PART 3 EXECUTION

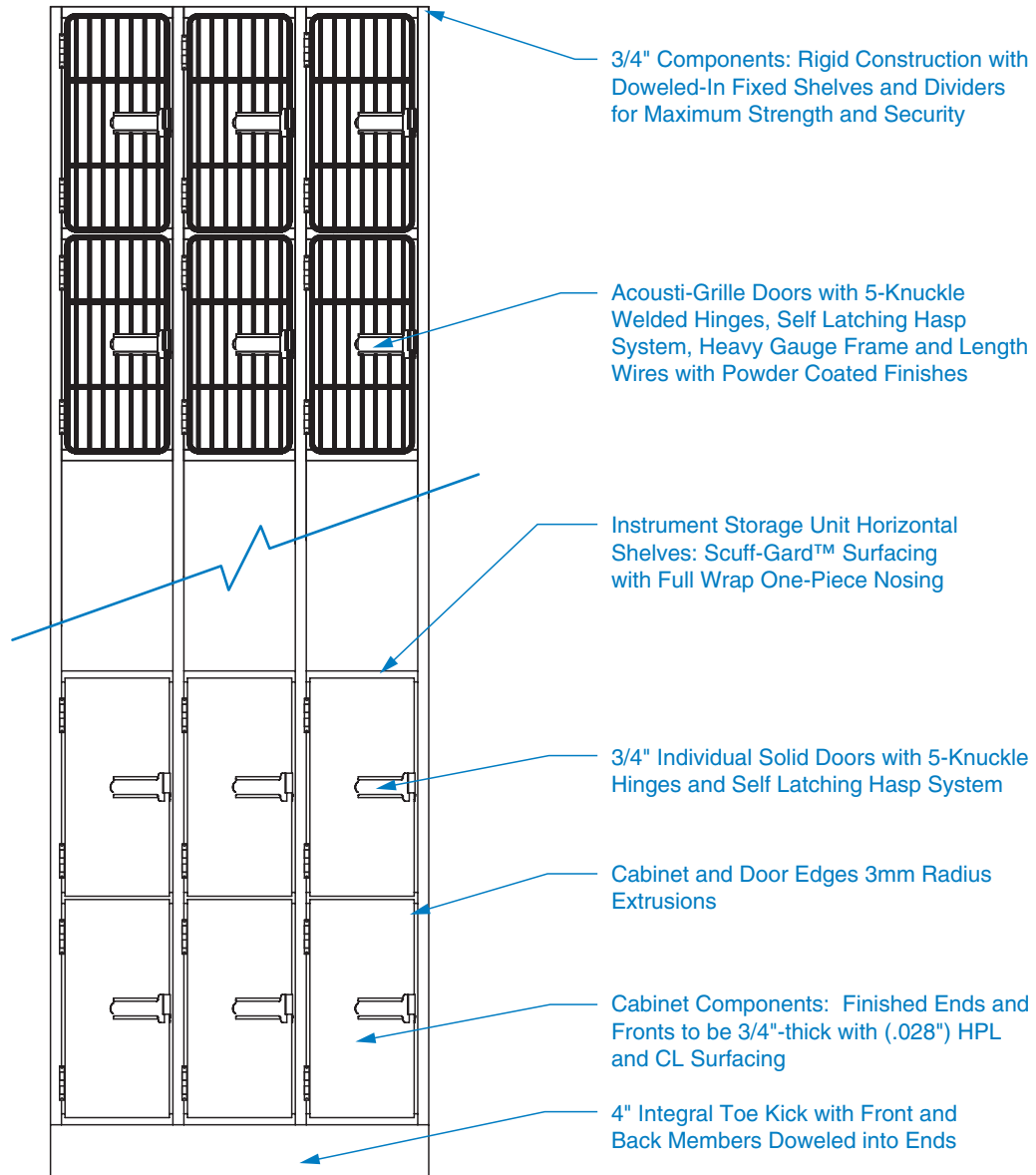
3.01 INSTALLATION

- A. The installer shall examine the job site and the conditions under which the work in this section is to be performed and notify the contractor in writing of any unsatisfactory conditions. Do not proceed with work under this section until unsatisfactory conditions have been corrected in a manner acceptable to the installer and in accordance with AWI's *Quality Standards Illustrated* (current edition) and Stevens Industries, Inc.'s *Site Conditions*.
- B. Casework, countertops and related materials to be conditioned to average prevailing humidity condition in installation areas prior to start of work.
- C. Install casework and countertops with factory-trained supervision, authorized by manufacturer. Casework shall be installed plumb, level, true and straight with no distortions (shim as required). Casework shall be securely attached to building structure with anchorage devices of appropriate type, size and quantity to meet applicable codes, specifications and safety conditions. Where casework and countertops abut other finished work, scribe and trim to accurate fit, and caulk as required.
- D. Adjust casework and hardware so that doors and drawers operate smoothly without warp or bind. Lubricate operating hardware.
- E. Repair, or remove and replace, defective work as directed upon completion of installation.
- F. Advise project site superintendent of problems and precautions for protection of casework and countertops from damage by other trades until acceptance of the work by the owner.
- G. Casework shall be provided with protection against soiling and deterioration during remainder of construction period.

END OF SECTION

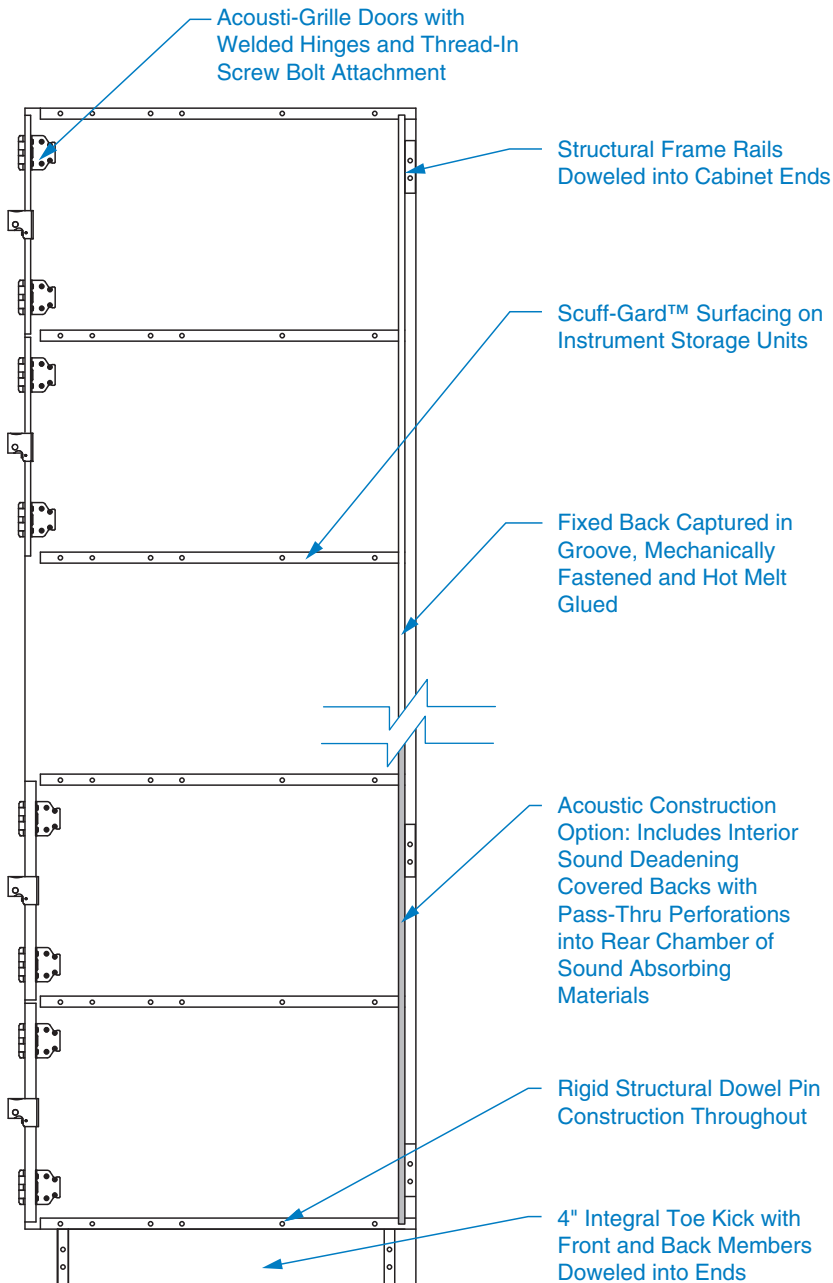
GLOSSARY OF ACRONYMS

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



5120 BAND AND MUSIC

Specifications



Standard Features:

- 3/4" components throughout
- Finished ends and fronts with Wilsonart standard laminates (.028") HPL
- 3mm radius edge extrusions Stevens Advantage edgebanding
- Inset cabinet designs with 5-knuckle hinges allowing 180° pivot swing
- Acousti-Grille doors and steel components Pearl White powder coated
- Lock hasps with self-latching mechanism
- Pearl White interiors throughout
- 6-tumbler dead bolt locks

Optional Features:

- Special order Formica, Pionite and Nevamar laminates for exterior and door front surfaces
- Tamper resistant thru-bolt hinge to door attachment
- Acoustic Absorption Construction: Helps to absorb high and low frequencies and direct sound reflection through sound deadening covered backs with pass-thru perforations into rear chamber containing commercial sound absorbing materials.

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