SECTION 123216

MANUFACTURED PLASTIC-LAMINATE-CLAD CASEWORK

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**NOTE TO SPECIFIER**

*Use this Specification Section for Mail Processing Facilities.*

***This is a Type 1 Specification with completely editable text; therefore, any portion of the text can be modified by the A/E preparing the Solicitation Package to suit the project.***

*For Design/Build projects, do not delete the Notes to Specifier in this Section so that they may be available to Design/Build entity when preparing the Construction Documents.*

*For the Design/Build entity, this specification is intended as a guide for the Architect/Engineer preparing the Construction Documents.*

*The MPF specifications may also be used for Design/Bid/Build projects. In either case, it is the responsibility of the design professional to edit the Specifications Sections as appropriate for the project.*

*Text shown in brackets must be modified as needed for project specific requirements.* *See the “Using the USPS Guide Specifications” document in Folder C for more information.*

*The last date that USPS revised this standard specification section occurs in two places, at the end of this section and in the Table of Contents. If the date in this section matches the date in the Table of Contents, then you are using the latest version. Do not delete or revise the “last revised” date at the end of the section during the development of the Project Manual.*

*The footer in this section should be edited to replace the text, “USPS MPF SPECIFICATION” with the project name, and the blank date in the center should be replaced with the submission date, for interim design reviews, or the issue date of the completed Project Manual.*

**This specification may not be used for casework in public areas of retail facilities or where casework is within view of the public in an MPF, such as a BMEU.**

**For Postal Retail Casework, use Section 123504 - Postal Casework. It may be necessary to use both Section 123504 and 123216.**

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1. GENERAL
	1. 1.1 SUMMARY
		1. Section Includes:
			1. Fabricated custom cabinets and fixtures.
			2. Countertops.
			3. Cabinet and fixture hardware.
			4. Preparation for installing utilities.
		2. Related Documents: The Contract Documents, as defined in Section 011000 - Summary of Work, apply to the Work of this Section. Additional requirements and information necessary to complete the Work of this Section may be found in other Documents.
		3. Related Sections:
			1. Section 011000 - Summary of Work: Requirements for Postal Service furnished Products.
			2. Section 123504 - Postal Casework: USPS provided casework
	2. REFERENCES
		1. American National Standards Institute (ANSI):
			1. ANSI A135.4 - Basic Hardboard.
			2. ANSI A208.1 - Mat Formed Wood Particleboard.
		2. Architectural Woodwork Institute (AWI):
			1. AWI AWQS - Architectural Woodwork Quality Standards, 6th Edition Version 1.0.
		3. National Electric Manufacturer's Association (NEMA):
			1. NEMA LD3 - High Pressure Decorative Laminates.
		4. United States Department of Commerce Product Standard (PS):
			1. PS 1 - Construction and Industrial Plywood.
			2. PS 20 - American Softwood Lumber Standard.
	3. SUBMITTALS
		1. Section 013300 - Submittal Procedures: Procedures for submittals.
		2. Product Data: Data for hardware and accessories indicating material, type, function, attachment, and finish.
		3. Shop Drawings:
			1. Indicate each material used, wood species, component profiles, sections, and elevations, assembly methods, joint details, fastening methods, accessory listings, hardware location, and schedule of finishes in conformance with requirements of AWI AWQS.
			2. Indicate composition of each material and compliance with referenced standards.
			3. Keying Schedule: Indicate keying system for cabinet and fixture locks.
			4. Present drawings in related and dimensional positions; section details drawn at minimum 1-1/2 inch scale.
		4. Samples: Two 2 inch x 3 inch samples of each plastic laminate finish and color.
		5. Assurance/Control Submittals:
			1. Certificate: Manufacturer certificate indicating that Products meet or exceed specified requirements.
			2. Qualification Documentation: Custom cabinetwork and fixture manufacturer and installer documentation of experience indicating compliance with specified qualification requirements.
	4. QUALITY ASSURANCE
		1. Perform work in accordance with AWI AWQS Custom quality.
			1. Affix the AWI Quality Grade Stamp to each unit of custom cabinet and fixture work. The AWI Quality Grade Stamp shall display Custom Grade as specified for each section of Work.
		2. Qualifications:
			1. Manufacturer: Company specializing in manufacturing store fixtures specified in this section with minimum five years documented experience. Member in good standing of the Architectural Woodwork Institute.
			2. Installer: Company specializing in performing work of this Section with minimum 5 years documented experience.
		3. Pre‑installation Meeting:
			1. Convene a pre‑installation meeting at Project Site, one week prior to commencing work of this Section.
			2. Require attendance of parties directly affecting work of this Section.
			3. Review preparation and installation procedures and coordinating and scheduling required with related work.
			4. Agenda:
				1. Tour, inspect, and discuss condition of areas where custom cabinets and fixtures will be installed, and other preparatory work performed by other trades.
				2. Review custom cabinet and fixture requirements (drawings, specifications, and other contract documents). Identify requirements for Contractor furnished Products.
				3. Review required submittals, both completed and yet to be completed.
				4. Review and finalize construction schedule related to custom cabinet and fixture work and verify availability of materials, installer's personnel, equipment, and facilities needed to make progress and avoid delays.
				5. Review requirements for inspections, installation certification, and material usage accounting procedures.
	5. DELIVERY, STORAGE, AND HANDLING
		1. Section 016000 - Product Requirements: Transport, handle, store, and protect products.
		2. Package fixtures in watertight container for transportation to project site to prevent damage and for storage outside building, if required.
		3. Protect fixtures from damage and excessive or inadequate relative humidity.
		4. Maintain relative humidity between 25 percent and 55 percent.
2. PRODUCTS

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**NOTE TO SPECIFIER**

Verify and coordinate acceptable manufacturers listing with USPS Project Manager.

Insert appropriate names, addresses, and telephone numbers for each manufacturer below.

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* 1. MANUFACTURERS
		1. Manufacturers who have previously furnished and installed Products specified in this Section include the following:
		2. [ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ ]
		3. [ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ ]
		4. Alternate Manufacturers:
			1. Local millwork manufacturers may be approved by Contracting Officer.
			2. Submit documentation indicating local millwork manufacturer has produced millwork of a quality acceptable to United States Postal Service for Projects of similar type to Work of this Contract.
			3. Obtain approval from Contracting Officer.
	2. WOOD MATERIALS
		1. Softwood Lumber: PS 20; graded in accordance with AWI Custom; average moisture content of 6 percent.
		2. Hardwood Lumber: NHLA; graded in accordance with AWI Custom; average moisture content of 6 percent.
	3. PANEL MATERIALS
		1. Softwood Plywood: PS 1; graded in accordance with AWI, core materials of particleboard.
		2. Hardwood Plywood: PS 51; graded in accordance with AWI, core materials of particleboard, type of glue recommended for application.
		3. Wood Particleboard: PS1; AWI standard, composed of wood chips, medium density, made with water resistant adhesive; of grade to suit application; sanded faces.
		4. Hardboard: ANSI A135.4; Pressed wood fiber with resin binder, tempered grade, smooth two sides

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**NOTE TO SPECIFIER**

Specify or modify Plastic Laminate colors, accessories, and hardware for the particular facility design.

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* 1. PLASTIC LAMINATE AND OTHER FINISH MATERIALS
		1. Manufacturers: Subject to compliance with project requirements provide plastic laminates and other finish materials of one of the following:
			1. Formica Corporation.
			2. Micarta Corporation.
			3. Nevamar Corporation.
			4. Wilsonart International.
			5. Pionite.
			6. Samsung.
			7. Forbo.
		2. High-Pressure Decorative Laminate: NEMA LD3, GP-50 General Purpose .050 inch.
		3. Low Pressure Laminate: Melamine thermo set decorative overlay.
	2. COLOR SCHEDULE
		1. PL-1 White
			1. Nevamar, #S-7-27T, Smokey White, textured.
			2. Formica, #933, Mission White
			3. Micarta, #90M92, Dover White
			4. Pionite, #SW806, Carnation White
			5. Wilsonart, #1573-60, Frosty White
		2. PL-2 Red
			1. Formica #839-58, Stop Red
		3. PL-3 Blue
			1. Formica #914-58, Marine Blue
		4. PL-4 Gray
			1. Wilsonart #4142-60, Gray Glace
		5. PL-5 Countertop
			1. Forbo, Walton, UNI #186, Lead
		6. S-1 Solid Surfacing
1. Samsung Staron, Solid Bright White
	1. ACCESSORIES
		1. Adhesive: Type recommended by AWI to suit application.
		2. Plastic Edge Trim: Extruded flat shaped; smooth finish; self-locking serrated tongue; of width to match component thickness.
		3. Fasteners: Size and type to suit application.
		4. Bolts, Nuts, Washers, Lags, Pins, and Screws: Of size and type to suit application.
		5. Concealed Joint Fasteners: Threaded steel.
		6. Grommets: Metal material for cut-outs.
	2. HARDWARE
		1. [ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ ]
		2. Section 016000 - Product Requirements: Product options and substitutions. Substitutions: Permitted.
		3. Lock Keying: [ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ ]
	3. FABRICATION
		1. Fabricate cabinets and fixtures to AWI AWQS, Section 400 - Architectural Cabinets, Custom Grade Standards.
		2. Shop assemble casework for delivery to site in units easily handled and to permit passage through building openings.
		3. Fit shelves, doors, and exposed edges with matching plastic edging. Use one piece for full length only.
		4. Cap exposed plastic laminate finish edges with material of same finish and pattern.
		5. Door and Drawer Fronts: [ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ ]
		6. When necessary to cut and fit on site, provide materials with ample allowance for cutting. Provide trim for scribing and site cutting.
		7. Apply plastic laminate finish in full uninterrupted sheets consistent with manufactured sizes. Fit corners and joints hairline; secure with concealed fasteners.
		8. Mechanically fasten back splash to countertops with steel brackets at 16 inches on center.
		9. Provide cutouts for inserts, appliances, outlet boxes, fixtures, and fittings. Verify locations of cutouts from on-site dimensions. Prime paint cut edges.
2. EXECUTION
	1. EXAMINATION
		1. Section 017300 - Execution: Verification of existing conditions before starting work.
		2. Verification of Conditions: Verify that field measurements, surfaces, substrates, and conditions are as required, and ready to receive Work.
			1. Verify custom cabinet and fixture dimensions by field dimensions.
		3. Report in writing to Contracting Officer prevailing conditions that will adversely affect satisfactory execution of the Work of this Section. Do not proceed with Work until unsatisfactory conditions have been corrected.
		4. By beginning Work, Contractor accepts conditions and assumes responsibility for correcting unsuitable conditions encountered at no additional cost to the United States Postal Service.
	2. INSTALLATION
		1. Install custom fabricated cabinets and fixtures in conformance with AWI AWQS, Section 1700 - Installation of Woodwork.
		2. Set and secure fixtures in place; rigid, plumb, and level at locations indicated on Drawings.
			1. Attach to floor or walls with fasteners as indicated on Drawings.
		3. Use fixture attachments in concealed locations for wall mounted components.
		4. Carefully scribe fixtures abutting other components, with maximum gaps of 1/32 inch. Do not use additional overlay trim for this purpose.
		5. Secure fixtures to floor using appropriate angles and anchorages.
		6. Countersink anchorage devices at exposed locations. Conceal with solid wood plugs of species to match surrounding wood, finish flush with surrounding surfaces.
	3. CONSTRUCTION
		1. Interface with Other Work:
			1. Coordinate installation sequence of fixtures with trades providing data and communication connections to fixtures.
		2. Site Tolerances:
			1. Maximum Variation from True Position: 1/16 inch.
			2. Maximum Offset from True Alignment with Abutting Materials: 1/32 inch.
	4. FIELD QUALITY CONTROL
		1. Section 014000 - Quality Requirements: Inspection procedures.
		2. Contracting Officer will inspect custom cabinet and fixture installation, alignment, attachment to structure, and connection to data and communication lines.
	5. ADJUSTING
		1. Adjust moving or operating parts to function smoothly and correctly.
	6. CLEANING AND PROTECTION
		1. Section 017300 - Execution Cleaning and protection of installed Work.
		2. Clean casework, counters, shelves, hardware, fittings, and fixtures.

END OF SECTION

USPS MPF Specification Last Revised: 10/1/2022