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DIVISION 12 - FURNISHINGS

SECTION 12 34 00

MANUFACTURED PLASTIC CASEWORK

11/14

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-- End of Section Table of Contents --
NOTE: This guide specification covers the requirements for manufactured plastic casework.

Adhere to UFC 1-300-02 Unified Facilities Guide Specifications (UFGS) Format Standard when editing this guide specification or preparing new project specification sections. Edit this guide specification for project specific requirements by adding, deleting, or revising text. For bracketed items, choose applicable items(s) or insert appropriate information.

Remove information and requirements not required in respective project, whether or not brackets are present.

Comments, suggestions and recommended changes for this guide specification are welcome and should be submitted as a Criteria Change Request (CCR).

PART 1 GENERAL

1.1 REFERENCES

NOTE: This paragraph is used to list the publications cited in the text of the guide specification. The publications are referred to in the text by basic designation only and listed in this paragraph by organization, designation, date, and title.

Use the Reference Wizard's Check Reference feature when you add a RID outside of the Section's Reference Article to automatically place the reference in the Reference Article. Also use the Reference Wizard's Check Reference feature to update the issue dates.

References not used in the text will automatically
be deleted from this section of the project specification when you choose to reconcile references in the publish print process.

The publications listed below form a part of this specification to the extent referenced. The publications are referred to within the text by the basic designation only.

ASME INTERNATIONAL (ASME)


ASTM INTERNATIONAL (ASTM)


BUILDERS HARDWARE MANUFACTURERS ASSOCIATION (BHMA)

ANSI/BHMA A156.9 (2010) Cabinet Hardware

KITCHEN CABINET MANUFACTURERS ASSOCIATION (KCMA)


NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA)

ANSI/NEMA LD 3 (2005) Standard for High-Pressure Decorative Laminates
1.2  ADMINISTRATIVE REQUIREMENTS

1.2.1  Pre-Installation Meeting

Within [30] [_____] calendar days after [date of award] [date of receipt by him of notice of award], submit for the approval of the Contracting Officer [six (6)] [_____] copies of outline drawings of all casework to be furnished under this contract, together with weights and overall dimensions, and required samples. Ensure drawings show the general arrangement and overall dimensions of the casework, details of any casework supports[.][, and provisions for electrical outlets.][, special provisions for external cables and cords.] Submit the following for review and approval:

a. Fabrication Drawings

b. Installation Drawings

c. Casework Samples

d. Manufacturer's Standard Color Charts

e. Accessories and Hardware samples

f. Certificates of Conformance
Submit installation drawings for manufactured plastic casework. Include in
drawings location of cabinets, details of cabinets related and dimensional
positions[,], and locations for roughing in plumbing, including sinks,
faucets, strainers and cocks.]

Submit casework samples in accordance with ASTM D4000, and include
accessories and hardware, one each.

Submit manufacturer's standard color charts for plastic cabinets showing
the manufacturer's recommended color and finish selections.

1.3 SUBMITTALS

**************************************************************************
NOTE: Review Submittal Description (SD) definitions
in Section 01 33 00 SUBMITTAL PROCEDURES and edit
the following list to reflect only the submittals
required for the project.

The Guide Specification technical editors have
designated those items that require Government
approval, due to their complexity or criticality,
with a "G." Generally, other submittal items can be
reviewed by the Contractor's Quality Control
System. Only add a "G" to an item, if the submittal
is sufficiently important or complex in context of
the project.

For submittals requiring Government approval on Army
projects, a code of up to three characters within
the submittal tags may be used following the "G"
designation to indicate the approving authority.
Codes for Army projects using the Resident
Management System (RMS) are: "AE" for
Architect-Engineer; "DO" for District Office
(Engineering Division or other organization in the
District Office); "AO" for Area Office; "RO" for
Resident Office; and "PO" for Project Office. Codes
following the "G" typically are not used for Navy,
Air Force, and NASA projects.

An "S" following a submittal item indicates that the
submittal is required for the Sustainability
Notebook to fulfill federally mandated sustainable
requirements in accordance with Section 01 33 29
SUSTAINABILITY REPORTING.

Choose the first bracketed item for Navy, Air Force
and NASA projects, or choose the second bracketed
item for Army projects.
**************************************************************************

Government approval is required for submittals with a "G" designation;
submittals not having a "G" designation are [for Contractor Quality Control
approval.][for information only. When used, a designation following the
"G" designation identifies the office that will review the submittal for
the Government.] Submittals with an "S" are for inclusion in the
Sustainability Notebook, in conformance to Section 01 33 29 SUSTAINABILITY
REPORTING. Submit the following in accordance with Section 01 33 00 SUBMITTAL PROCEDURES:

SD-02 Shop Drawings
- Fabrication Drawings
- Installation Drawings

SD-03 Product Data
- Catalog Data

SD-04 Samples
- Casework Samples
- Accessories and Hardware
- Manufacturer's Standard Color Charts

SD-07 Certificates
- Certificates of Conformance

SD-08 Manufacturer's Instructions
- Manufacturer's Instructions

1.4 QUALITY CONTROL
Submit certificates of conformance for the following items showing conformance with the referenced standards contained in this section:

a. Corrosion-resistant steel
b. Glass
c. Adhesives
d. Filler material
e. Fasteners
f. Service fixtures
g. Accessories and hardware

1.5 DELIVERY, STORAGE, AND HANDLING
Deliver, handle, and store cabinets in a manner that will prevent damage or deformity. Provide temporary skids under units weighing more than [_____] kilogram pounds.

PART 2 PRODUCTS
2.1 SYSTEM DESCRIPTION
Furnish plastic laminate cabinets, factory-fabricated and finished in the
manufacturer's standard sizes and finishes of the type, design, and configuration indicated. Construct cabinets as specified and meet the requirements of KCMA A161.1. Submit fabrication drawings for review and approval prior to commencement of fabrication. Provide wall and base cabinet assemblies consisting of individual units joined into continuous sections. Accomplish fastenings to permit removal and replacement of individual units without affecting the remainder of the installation. Provide counters with watertight sink rim when indicated. Provide removable drawers equipped with position stops to avoid accidental complete withdrawals. Fix or adjust shelves as indicated.

2.2 COMPONENTS

Submit manufacturer's catalog data for the following items:

a. Cabinets

b. Glass

c. Adhesives

d. Filler material

e. Fasteners

f. Service fixtures

g. Accessories and hardware

h. Plastic laminate

i. Steel sinks

j. Countertops

Submit manufacturer's instructions for plastic cabinet systems including special provisions required to install equipment components and system packages, and any special notices detailing impedances, hazards and safety precautions and casework maintenance.

Provide the manufacturer's cabinets with the standard sizes, type, and design indicated. Both wall and base cabinet assemblies will consist of individual units joined into continuous sections as indicated. Accomplish fastenings to permit removal and replacement of individual units without affecting the remainder of the installation.

2.2.1 Cabinets

Provide new factory-finished kitchen wall and base cabinets with high pressure decorative laminate (HPDL) countertops [and bathroom vanity cabinets [with HPDL countertops] [to receive combination lavatory-countertops as specified in Section 22 00 00 PLUMBING, GENERAL PURPOSE]]. Provide cabinets conforming to KCMA A161.1, requirements specified herein, and bear the "KCMA Certified Cabinet" seal of the Kitchen Cabinet Manufacturers Association. Provide countertops that conform to NEMA LD 3.1 and requirements specified herein.
2.2.2 Miscellaneous Cabinets

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NOTE: Delete inapplicable paragraphs, or state appropriate options.
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[2.2.2.1 Combination Sink-and-Base Cabinet

Provide sink with matching drainboards, made of [corrosion-resistant steel] [porcelain-enamel steel][plastic laminate][solid surface][fiberglass composites]; equipped with a chromium-plated [swinging-spout faucet, chromium-plated water-control valves], [automatic faucet] and chromium-plated cup strainer. Make joints between sink and drainboard and between drainboard and countertop watertight.

][2.2.2.2 Special Purpose Cabinets

Provide special-purpose cabinets, such as cabinets for eye-level oven units, countertop range units, and built-in refrigerators as indicated on the drawings with the same materials and construction as adjacent cabinets.

]2.3 MATERIALS

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NOTE: Delete any of the following materials that are not applicable.
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[ Provide Corrosion-Resistant steel conforming to ASTM A167, Type [302] [304] [316] Finish 4.

][Provide glass conforming to ASTM C1036, Type I, Class 1, Quality q3, 6 millimeter 1/4 inch thick, for unframed sliding glass doors; and other glass conforming to ASTM C1036, Type II, Class 1, Quality q8, 5 millimeter 7/32 inch thick.

Provide thermosetting urea-resin Type II adhesives for application of plastic laminate conforming to ASTM D4690 as recommended by the manufacturer of the laminate. Provide adhesive for wood members conforming to ASTM D4689.

][Provide filler material conforming to FS TT-F-336.

]

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NOTE: Review ANSI/NEMA LD 3 and insert style, type, grade, class, and finish as required.
******************************************************************************

Provide plastic laminates conforming to ANSI/NEMA LD 3, Style [____], Type [____], Grade [____], Class [____], Finish [____].

Provide accessories and hardware conforming to the following requirements, as applicable:

a. Extension drawer slides: ANSI/BHMA A156.9, Type B85071

b. Semi-concealed hinges: ANSI/BHMA A156.9, Type B81201, 40 millimeter 1-1/2 inches
c. Full surface hinges: ANSI/BHMA A156.9, Type B81131, 40 millimeter 1-1/2 inches

d. Knob pulls: ANSI/BHMA A156.9, Type B12132 25 millimeter 1-inch diameter

e. Bar type pulls: ANSI/BHMA A156.9, Type B12012 100 millimeter 4-inch overall length

f. Locks, keying, and keys: As directed

g. Catches: Magnetic, 22 Newton 5-pound pull

h. Sliding door set: Nylon glides, [____]

Provide fasteners conforming to the following:

a. Screws: ASME B18.6.1, Group, Type and Class as applicable

b. Anchoring Devices: FS FF-S-325, Group, Type, and Class as applicable

c. Toggle bolts: FS FF-B-588, Type I, Class A, Style 2

d. Nuts: ASTM F836M ASTM F594, corrosion-resistant steel

e. Bolts: ASTM A325M ASTM A325, heavy, hexagon head bolts corrosion-resistant steel

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NOTE: Sink for inset-type installation is as specified in Section 22 00 00 PLUMBING, GENERAL PURPOSE.
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[ Provide integral Corrosion-resistant steel sinks with the following characteristics:

[ a. 1.3 millimeter 18-gage corrosion-resistant steel, integral with corrosion-resistant steel countertop

][b. 1.3 millimeter 18-gage corrosion-resistant steel, nonintegral, self-rimming

] c. Drain holes in center of bowl

d. Underside coated with 3 millimeter 1/8-inch thick sound deadener

e. Die-form, seamless, raised edges at front and ends

f. Cove corners to 13 millimeter 1/2-inch radius

g. Equip with strainers and tail pieces

][Provide sound deadening conforming to FS TT-C-520.

][Provide service fixtures conforming to the following requirements:

a. Provide fixtures in accordance with the water conservation policy as stated in the specified Standard Plumbing Codes, Appendix J.
b. Faucets: Splashback mounted, cast brass, chrome plated, FS WW-P-541

c. Faucets: Deck mounted, cast brass, chrome plated, FS WW-P-541

d. Gas, air, and vacuum, distilled water, steam, and de-ionized water cock: Cast brass, chrome plated, ground key type

e. Drains, strainers, and taps: Brass, chrome plated, FS WW-P-541

f. Index buttons: Plastic, color codes in accordance with SEFA 7

g. Special items: Nipples and locknuts with each fixture as directed.

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NOTE: Delete any of the following types that are not applicable.

Type I, zinc phosphate

Type II, iron phosphate

Type III, organic-paint, varnish, lacquer

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[ h. Metal pretreatment coatings: [FS TT-C-490, Type I][FS TT-C-490, Type II][FS TT-C-490, Type III] ]

[i. Enamel: FS TT-E-491, Class 2]

2.3.1 Finish

2.3.1.1 Cabinet Finish

Provide cabinets with a factory-applied durable finish in accordance with KCMA A161.1 requirements and of a type standard with the manufacturer.

2.3.1.2 Backer Sheets

Provide backer sheets of high pressure plastic laminate conforming to ANSI/NEMA LD 3, Grade BK20 applied to the underside of all core material.

2.3.2 Color, Texture, and Pattern

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NOTE: Coordinate editing of color reference sentence(s) with the Government. Generally, Section 09 06 90 COLOR SCHEDULE or drawing is used when the project is designed by an Architect or Interior designer. Select color from manufacturers standard colors or identified as a manufacturers color in this specification only when the project is very simple and has minimal finishes.

When the Government directs that color be located in the drawings add a note that states: "Where color is shown as being specific to one manufacturer, an equivalent color by another manufacturer may be submitted for approval. Manufacturers and materials
specified are not intended to limit the selection of equal colors from other manufacturers. The word "color" as used herein includes surface color and pattern."

Prior to specifying a custom color finish, research to determine if additional cost and lead time is feasible. Note there is often a minimum order requirement; this requirement will also affect future orders.

When a manufacturer's name, stock number, pattern, and color is used, be certain that the product conforms to this specification, as edited.

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Provide color [in accordance with Section 09 06 90 COLOR SCHEDULE.] [as indicated on the drawings.] [as selected from manufacturers standard colors.] [____]. Color listed is not intended to limit the selection of equal colors from other manufacturers.]

2.4 ACCESSORIES

Furnish accessories such as utility shelves and racks for [specialized lab equipment][extracts, condiments, and towels; bins for sugar and flour; breadboxes; and trays for cutlery and flatware as indicated.]

Provide corrosion resistant hardware. Provide exposed with a chromium-plated finish or a corrosion-resistant finish as approved. Paint semiconcealed hinges on cabinets where paint finish is required to match the cabinets. Equip doors with [bullet-type catches] [spring hinges] [magnetic-type catches]. Provide door and drawer pulls as indicated.

PART 3 EXECUTION

3.1 INSTALLATION

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NOTE: Installation of sinks is per the requirements of Section 22 00 00 PLUMBING, GENERAL PURPOSE.
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Install casework plumb with countertops level to within 1 millimeter in 3000 millimeter 1/16-inch in 10-feet. Level base cabinets by adjusting leveling screws. Scribe and fit scribe strips to irregularities of adjacent surfaces. Gap opening is not to exceed 0.63 millimeter 0.025-inch [____].

[ Secure cases permanently to floor and wall construction using 6 millimeter 1/4-inch diameter masonry anchors, spaced 760 millimeter 30-inches maximum on center, minimum of two for each case, where indicated.]

] Support wall cases on continuous 1.3 millimeter 18-gage galvanized steel hanging brackets. [Secure wall cases in position with screws to blocking, where indicated.] [Bolt adjoining cases together. Width of joints not exceed 0.79 millimeter 1/32 inch, where indicated.] [Provide closer strips, filler strips, and finish moldings as required.] Align doors, adjust hardware, clean and wax surfaces.
3.2 FIELD QUALITY CONTROL

Examine casework grounds and supports for adequate anchorage, foreign material, moisture, and unevenness that could prevent quality casework installation.

Ensure that [electrical and plumbing] rough-ins for casework are complete. Do not proceed with installation until defects are corrected.

3.3 CLEANING

On completion of cabinet installation, clean surfaces and surrounding area. Remove crating and packing materials from premises. Wipe down surfaces to remove fingerprints and markings and leave in clean condition.

-- End of Section --