
USACE / NAVFAC / AFCEA / NASA UFGS-12 35 70 (February 2009)

Preparing Activity: USACE Superseding
UFGS-12 35 70 (April 2006)

UNIFIED FACILITIES GUIDE SPECIFICATIONS

References are in agreement with UML dated October 2009

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SECTION 12 35 70

MEDICAL AND DENTAL CASEWORK 02/09

NOTE: This guide specification covers the requirements for metal and wood casework for medical and dental facilities.

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 and suggestions on this guide specification are welcome and should be directed to the technical proponent of the specification. A listing of technical proponents, including their organization designation and telephone number, is on the Internet.

Recommended changes to a UFGS should be submitted as a Criteria Change Request (CCR).

PART 1 GENERAL

NOTE: This specification covers metal and wood casework, normally preassembled, for installation as fixed or built-in elements in medical and dental facilities. The "casework" includes: Cabinets, singularly or in assemblies; treatment room units wardrobes; deck units; reagent racks; countertops and sink; plus their components; hardware and service fixture trim. All casework must be shown on the drawings.

A schedule of casework, shown in alpha-numerical order, will be included on the drawings. Schedules will include the Joint Schedule Number (JSN) designator, and dimensions. The schedule or

elevations should indicate the number of shelves required. Joint Schedule Numbers (JSN) or the National Stock Numbers are specified in MIL-STD-1691. Any additional specially required casework items which are not covered by MIL-STD-1691 should be described herein and identified on the drawings and schedule.

On the drawings, show:

1. Sizes and spacing of casework units, plumbing fixtures and utility outlets.
2. Schedule of casework including all component parts and accessories.
3. Details of connections and anchorage where special conditions exist. Size and spacing of anchors.

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.

ASTM INTERNATIONAL (ASTM)

ASTM C 920 (2008) Standard Specification for Elastomeric Joint Sealants

U.S. DEPARTMENT OF DEFENSE (DOD)

MIL-STD-1691 (Rev F) Construction and Material Schedule for Military Medical and Dental Facilities

1.2 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. Submittals should be kept to the minimum required for adequate quality control.

A "G" following a submittal item indicates that the submittal requires Government approval. Some submittals are already marked with a "G". Only delete an existing "G" if the submittal item is not complex and can be reviewed through the Contractor's Quality Control system. Only add a "G" 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.

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.] [information only. When used, a designation following the "G" designation identifies the office that will review the submittal for the Government.] Submit the following in accordance with Section 01 33 00 SUBMITTAL PROCEDURES:

SD-02 Shop Drawings

Approved Detail Drawings[; G][; G, [_____]]

Drawings showing layout of casework at 1:20 3/4 inch equals one foot scale. Indicate details of construction and rough-in requirements. Indicate whether cabinets are metal or wood, whether countertop is corrosion-resisting steel or plastic laminate, and whether sink is coated with [modified epoxy resin] [polypropylene] [polyethylene] or corrosion-resisting steel. Verify job condition affecting the work and obtain accurate field measurements for incorporation into drawings. Locate structural members, required utilities and services provided by other sections of this specification. Submit details and information necessary for fabrication and installation.

SD-03 Product Data

Casework

Manufacturer's printed data, catalog cuts, and instructions for installation and cleaning.

SD-04 Samples

Casework[; G][; G, [____]]
Wall Hung Cabinets[; G][; G, [____]]
Floor Mounted Cabinets[; G][; G, [____]]
Countertops[; G][; G, [____]]
Laminated Plastic Sheets[; G][; G, [____]]

In lieu of individual samples, complete minimum size casework may be furnished as samples. Mock-up units are not acceptable. Samples shall be of sufficient size to show color, pattern, and method of assembly.

- a. Countertop and backsplash - One section, containing both.
- b. Door and drawer front - One of each, with hardware mounted.
- c. Melamine plastic color samples approximately 50 by 75 mm 2 by 3 inch size.
- d. Stain/color samples shall be approximately 50 by 75 mm 2 by 3 inch size.

SD-07 Certificates

Casework

Certificates attesting that the casework meets the requirements specified.

1.3 DELIVERY, STORAGE, AND HANDLING

Deliver casework to the jobsite in the original individual containers, complete with screws, keys, and instructions. Mark each container with the manufacturer's name and catalog number. Casework shall be stored in an adequately ventilated, dry location that is free of dust, water, or other contaminants and in a manner to permit access for inspection and handling. Casework shall be handled carefully to prevent damage to the surfaces. Replace damaged items that cannot be restored to like-new condition.

PART 2 PRODUCTS

2.1 CASEWORK

NOTE: Joint schedule numbers used in MIL-STD-1691 provide the Military Medical Services a uniform basis for identifying casework items in medical and dental facilities. Any items required which are not covered by MIL-STD-1691 should be described appropriately and identified on the drawings with a new assigned number.

Provide casework as scheduled on the [approved detail drawings](#). The casework shall be factory fabricated of manufacturer's standard sizes and finishes and shall conform to [MIL-STD-1691](#), and the requirements specified below. Supplementary ordering data are as follows: [____]. Casework items are identified on drawings with numbers preceded by the letters "C" and "D". These numbers are Joint Schedule Numbers in [MIL-STD-1691](#). Material finish and color shall be [in accordance with Section 09 06 90 COLOR SCHEDULE] [____].

2.1.1 Medical Casework

NOTE: Plastic laminated casework may be used in non corrosive areas such as hospital rooms and nursing stations. Corrosion resisting steel should be specified for areas, such as laboratories, where highly corrosive chemicals are handled. Enameled carbon steel casework should be utilized to the maximum practicable extent in lieu of corrosion-resistant steel.

Medical casework shall be [baked enamel carbon steel] [corrosion resisting steel] [wood core or carbon steel covered with laminated plastic sheets]. Color of finish shall be [____] [in accordance with color schedule as indicated] [selected by the Contracting Officer from the manufacturer's standard colors].

2.1.2 Dental Casework

NOTE: When selection is to be made from manufacturer's standard samples, specify whether solids or woodgrains are required.

Dental operator casework shall be [wood core] [carbon steel] covered with [laminated plastic sheets](#). Pattern, color and finish of decorative laminated plastic for exteriors of casework shall be [____] [in accordance with color schedule as indicated] [selected by the Contracting Officer from the manufacturer's standard [color] [woodgrain] samples].

2.1.3 Dental Prosthetics Casework

Dental prosthetics casework shall be [baked enamel carbon steel] [corrosion resisting steel]. Color of finish shall be [____] [in accordance with color schedule as indicated] [selected by the Contracting Officer from the manufacturer's standard colors].

2.1.4 Countertops

Countertops shall be [corrosion-resisting steel] [plastic laminate covered plywood] [plastic laminate covered particleboard] [modified epoxy resin] [or] [resin coated laminated pressed wood fiber].

2.2 PLUMBING FIXTURES

Provide faucet, trap and drain fittings, gas, air and vacuum cocks as required. Provide connection conforming to the requirements specified in Section 22 00 70 PLUMBING, HEALTHCARE FACILITIES.

PART 3 EXECUTION

3.1 INSTALLATION

Casework shall be located as indicated. The installation of the casework shall not damage the work of other trades. The casework shall be secured in place in true alignment, level, and plumb. Units shall be secured with screws through backs to cleats that have been anchored to building structure with toggle or expansion bolts.

3.1.1 Wall Hung Cabinets

Install wall-hung cabinets to support the weight of the cabinets plus the normally expected weight of the contents of the cabinets. Space fasteners 300 mm 12 inch on center using at least three bolts in each 900 or 1200 mm 3 or 4 foot unit width. Adjoining cabinets in an assembly shall be joined together at top and bottom with inconspicuous bolts or clips. Joints between the casework and wall surfaces which are not larger than the joints between casework sections shall be sealed flush with sealant conforming to ASTM C 920, Type M, Grade NS, Class 25, Use NT. Larger joints shall be closed with filler strips of the same material and finish as adjacent casework. Filler strips shall be cut to the contour of the wall surface and secured to the casework with concealed nails or screws. Width of filler strips shall not exceed 150 mm 6 inch in width.

3.1.2 Floor Mounted Cabinets

Set floor-mounted metal cabinets on a common metal base or integral base, in assemblies up to 1800 mm 6 feet in length in rooms having concrete or resilient flooring. Bolt cabinets to bases at cabinet corners. Face metal bases with resilient material to match wall base in space where the cabinets are located. Fasten together adjoining cabinets at top and bottom of front and back with bolts placed inconspicuously inside cabinets. Metal cabinets in rooms having terrazzo or ceramic-tile floors shall be set on concrete or masonry bases with exposed faces finished the same as other bases in the room. Openings between cabinet and wall surfaces, due to irregularity of surfaces, shall be sealed flush with Type S or M, Grade NS, Class 12.5, use NT, conforming to ASTM C 920. Close exposed-to-view openings larger than joints in tile work with filler or scribing strip of the same material and finish as adjacent casework. Cut filler to contour of wall surface and secure to casework with concealed sheet-metal screws. Use minimum width and number of fillers consistent with need and in no case shall filler exceed 150 mm 6 inch in width.

3.1.3 Countertops

Height of counter tops shall be as indicated on the drawings. Where required, toe space at front of cabinets shall be provided by installing front face of cabinets 75 mm 3 inch in front of face of base. Where toe space is not required, face of base and cabinets shall be flush. Bases shall have a height of approximately 100 mm 4 inch. All items shall be installed as required for proper operation in accordance with the manufacturer's directions.

3.2 INSPECTION AND CLEANING

Inspect placed items for proper location, fastening, connection to utilities, operation, and for damage which may have occurred during installation. Put each item into service to prove proper operation. Correct defects disclosed during inspection. Cabinets and countertops shall be cleaned in accordance with manufacturer's instructions.

-- End of Section --