
USACE / NAVFAC / AFCEC UFGS-12 55 00 (August 2024)

Preparing Activity: NAVFAC

Superseding
UFGS-12 55 00 (April 2006)

UNIFIED FACILITIES GUIDE SPECIFICATIONS

References are in agreement with UMRL dated July 2024

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08/24

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SECTION 12 55 00

DETENTION FURNITURE AND ACCESSORIES 08/24

NOTE: This guide specification covers the requirements for detention furniture, and accessories for use in brigs and detention facilities.

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 item(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 \(CCR\)](#).

NOTE: Show the following information on the project drawings:

1. Locations of each piece of furniture, equipment, and accessory item.
2. Details of equipment and accessories to convey design intent and coordinate any details with this specification.

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 Reference Identifier (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 A36/A36M (2019) Standard Specification for Carbon Structural Steel

U.S. NATIONAL ARCHIVES AND RECORDS ADMINISTRATION (NARA)

16 CFR 1633 (2006) Standard for the Flammability (Open Flame) of Mattress Sets

1.2 SUBMITTALS

NOTE: Review Submittal Description (SD) definitions in Section 01 33 00 SUBMITTAL PROCEDURES and edit the following list, and corresponding submittal items in the text, to reflect only the submittals required for the project. The Guide Specification technical editors have classified 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 Army projects, fill in the empty brackets following the "G" classification, with a code of up to three characters 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 and Air Force projects.

The "S" classification indicates submittals required as proof of compliance for sustainability Guiding Principles Validation or Third Party Certification and as described in Section 01 33 00 SUBMITTAL PROCEDURES.

Government approval is required for submittals with a "G" or "S" classification. Submittals not having a "G" or "S" classification are for Contractor Quality Control approval. Submittals not having a "G" or "S" classification are for information only. When used, a code following the "G" classification identifies the office that will review the submittal for the Government. Submit the following in accordance with Section 01 33 00 SUBMITTAL PROCEDURES:

NOTE: Specifier to confirm if samples of large items are needed and edit appropriately.

SD-02 Shop Drawings

Mirrors; G, [____]

Pass Window; G, [____]

Grab Bars; G, [____]

Pistol Locker; G, [____]

Safety Clothes Hooks; G, [____]

Key Cabinet; G, [____]

Bunks; G, [____]

Mattresses; G, [____]

Desks; G, [____]

Dining Table; G, [____]

Seats; G, [____]

SD-03 Product Data

Mirrors; G, [____]

Pass Window; G, [____]

Grab Bars; G, [____]

Pistol Locker; G, [____]

Safety Clothes Hooks; G, [____]

Key Cabinet; G, [_____]

Bunks; G, [_____]

Mattresses; G, [_____]

Desks; G, [_____]

Dining Table; G, [_____]

Seats; G, [_____]

SD-04 Samples

Mirrors; G, [_____]

Pistol Locker; G, [_____]

Key Cabinet; G, [_____]

Desks; G, [_____]

Dining Table; G, [_____]

Seats; G, [_____]

1.3 DELIVERY, STORAGE, AND HANDLING

Deliver furniture and accessories in packaging to provide protection during transit and job storage. Leave in unopened original containers, clearly labeled for location of installation.

1.4 COORDINATION

Coordinate installation of anchorages for detention furniture. Provide setting drawings, templates, and directions for installing anchorages; including sleeves, concrete inserts, detention grade anchor bolts, and items with integral anchors that are to be embedded in adjacent construction. Deliver such items to project site in time for installation. Coordinate size and location of recess in wall construction to receive detention furniture.

1.5 QUALITY ASSURANCE

**NOTE: If full size samples are required, retain
paragraph below to allow samples to remain on site
as part of the project.**

1.5.1 Mock-ups

Prior to final approval of shop drawings, provide a full size sample of items identified under samples. Upon disapproval, remove rejected units from the job site. Approved mock-ups may remain as part of the finished work.

PART 2 PRODUCTS

2.1 MATERIAL

Steel plate, **ASTM A36/A36M**.

2.2 MIRRORS

- a. Provide mirrors with a minimum **0.8 mm 0.031 inches** thick sheet steel[bright annealed][polished to #8 mirror finish].
- b. Provide a frame formed from [16][18] gauge cold-finished steel with **8 mm 5/16 inch** inner and outer flanges.
- c. Provide mirror with a minimum overall size of [**203 by 254 mm**][**279 by 432 mm**] [**8 by 10 inches**][**11 by 17 inches**] [_____].
- d. Provide one framed mirror over lavatory in each prisoner housing area.
- e. Frame to be secured with stainless steel flat head security fasteners.

2.3 PASS WINDOW

Window consists of a pass drawer below a speaker panel with a security glazing panel above. The glazing panel must be the same type as the adjacent glazing. The pass drawer must be **100 mm 4 inches** deep, **400 mm 16 inches** wide, **300 mm 12 inches** long, and roll horizontally with an interlocking hinged cover on both sides. The speaker panel must be constructed of perforated metal (T-304 stainless steel), 16 gauge, **5 mm 3/16 inch** perforated holes,[rectangular][circular] in shape, with 14 gauge baffles to prevent direct line of sight from one side to the other. Integrate this unit into the hollow metal of the adjacent unit.

2.4 GRAB BARS

Provide stainless steel security grab bars with safety gap filler between the round tube bar and the wall. For standard grab bars, refer to Section **10 28 13** TOILET ACCESSORIES. Provide in lengths and configurations indicated.

2.5 PISTOL LOCKER UNITS

Provide an outer shell and compartment doors made up of [10][16] gauge steel with continuous steel hinges. With[Hinged][Drop][Tilt-out] door compartments size at a minimum of **350 mm wide by 90 mm deep by 150 mm high 14 inches wide by 3-1/2 inches deep by 6 inches high** lined with felt and individually keyed. Provide two master keys per locker. Provide a powder coat finish. Provide unit designed for recessed installation in masonry. Units have [3][6][9] compartments. Locate units as indicated.

2.6 SAFETY CLOTHES HOOKS

Provide[single][grouped] safety clothes hook[s] with a collapsible ball joint, encased in a [10][14] gauge stainless steel housing. Hook is designed to collapse under a heavy load of a maximum of **18 kg 40 lbs**. Hook can be attached to wall plates or steel walls. Provide a brushed stainless steel finish. Provide manufacturer standard flat head spanner machine security screws to fit widely spaced holes designed to resist abuse.

2.7 BUNKS

NOTE: Retain first option for floor mounted single
or double bunks and retain second option for wall
mounted bunks, but not both.

- [Provide floor mounted[single][double] cell bunks. Each bunk frame consists of a bunk pan made from [3.42][2.66] mm [0.134][0.105] inch steel measuring a minimum of 689 mm wide by 1930 mm long by 356 mm deep 27 inches wide by 75 inches long by 14 inches deep with bunk pan 256 mm 10 inches above floor. Turn up edges of[back and sides and turn down edge of front][back, sides and front], with minimum 51 mm 2 inch flanges.[Provide drawer minimum 533 mm wide by 610 deep by 127 mm high 21 inches wide by 24 inches deep by 5 inches high, formed from 3.42 mm 0.134 inch nominal thickness steel sheet.] Legs and frames formed from 51 by 51 by 4.8 mm 2 by 2 inches by 3/16 inch steel angle welded at connections to each other and to bunk pan; provide four legs for each bunk. Mounting plates formed from 6 mm 1/4 inch thick, steel plate punched with one hole for floor anchorage; provide one mounting plate for each leg.
-][Provide wall mounted single cell bunks. Each bunk frame consists of a bunk pan made from [3.42][2.66] mm [0.134][0.105] inch steel measuring a minimum of 689 mm wide by 1930 mm long by 356 mm 27 inches wide by 75 inches long by 14 inches with bunk pan 256 mm 10 inches above floor. Turn up edges of[back and sides and turn down edge of front][back, sides and front], with minimum 51 mm 2 inch flanges.[Provide drawer minimum 533 mm wide by 610 deep by 127 mm high 21 inches wide by 24 inches deep by 5 inches high, formed from 3.42 mm 0.134 inch nominal thickness steel sheet.] Combination end panel and mounting plate is formed from 0.048 mm 3/16 inch thick steel sheet welded to a connection to bunk pan, with 51 mm 2 inch flange for wall mounting. Provide two end panel and mounting plates for each bunk.
-] Provide a[steel factory prime finish][[baked enamel][powder coat]finish].

2.8 MATTRESSES

Provide mattress core consisting of[Fire-resistive solid foam][Fire-resistive densified polyester fiber][Cotton, with 10 percent boric acid treatment, tufted to nylon netting to retain shape]. Mattress cover to be vinyl bonded to nylon scrim. Fabricate cover using[all sealed-seam construction with radio-frequency welded inverted seams][four-corner box construction with seams facing inside of detention mattress except end closing seam located at foot of mattress; sew with nylon thread in a double-lock stitch][, with integral pillow]. Cover to be[Fire retardant vinyl][Fire retardant polyurethane coated]. Overall size to be minimum 738 mm wide by 1956 mm long by 102 mm thick 29 inches wide by 77 inches long by 4 inches thick. Comply with 16 CFR 1633 and California Technical Bulletin 121 as determined by testing identical products by a testing and inspecting agency acceptable to authorities having jurisdiction. Identify materials with appropriate markings of applicable testing and inspecting agency.

2.9 DETENTION DESKS

Provide desk designed for wall mounting to masonry walls. Overall desk height to be no less than 762 mm 30 inches. Top size must be minimum 457 mm wide by 381 mm deep 18 inches wide by 15 inches deep; constructed of[10 gauge minimum, stainless steel, with minimum 38 mm 1-1/2 inch flanged edges for mounting to wall][single piece, molded high impact polyethylene with holes for concealed mounting to wall]. Provide a minimum seat size of 300 mm 12 inch diameter; constructed of[10 gauge minimum, stainless steel and supported by steel tubing][single piece, molded high impact polyethylene]. Seat to be securely bolted to floor. Steel tubing to be welded to desk top and mounting plate when desk top and seat are one assembly. Provide 6 mm 1/4 inch thick steel mounting plates punched with holes for floor anchorage.

2.10 SEATS

Include details of frames, conditions of openings, details of construction, location and installation requirements of hardware and reinforcements, and details of joints and connections showing sizes and locations of welds. Indicate fabrication, erection, anchorage, and accessories.

NOTE: Retain only one option depending on seating utilization

[Provide floor mounted stool minimum seat 305 mm 12 inch diameter, formed from[3.42 mm 0.134 inch nominal-thickness steel][1.90 mm 0.075 inch nominal-thickness steel][3.18 mm 0.125 inch thick, stainless steel][1.59 mm 0.062 inch thick, stainless steel] sheet; reinforced with 3.42 mm 0.134 inch thick steel sheet cut to interior dimension of seat, with minimum 38 mm 1-1/2 inch flanged edges. Seat support formed from steel pipe or 51 mm OD by 1.90 mm 2 inch deep by 0.075 inch thick steel tubing welded to seat reinforcement and base plate for an overall stool height of not less than 457 mm 18 inches. Base plate minimum 152 by 6 mm 6 by 1/4 inch thick,[square][round][steel] punched with four holes for floor anchorage.

] [Provide wall mounted stool, seat minimum 305 mm 12 inch diameter, formed from[3.42 mm 0.134 inch nominal-thickness steel][1.90 mm 0.075 inch nominal thickness steel][3.18 mm 0.125 inch thick, stainless steel][1.98 mm 0.078 inch thick, stainless steel] sheet; reinforced with 3.42 mm 0.134 inch thick steel sheet cut to interior dimension of seat, with minimum 38 mm 1-1/2 inch flanged edges. Seat support is formed from 25 by 51 by 1.90 mm 1 by 2 by 0.075 inch thick, steel tubing; 51 mm OD by 1.90 mm 2 inch deep by 0.075 inch thick steel tubing; or 9.5 mm 3/8 inch thick steel plate bar; welded to seat reinforcement and wall bracket. Swivel wall bracket is a minimum 12.7 mm 1/2 inch pivot pin, with 9.5 mm 3/8 inch thick steel plate[for welding to embedded steel plate][for welding to steel wall][punched with four holes for wall anchorage].

] 2.11 KEY CABINET

NOTE: Verify location of duplicate cabinet with the Chief of Naval Personnel, PERS-84.

Provide for detention lock keys with a capacity of 1.75 times the number of door locks and a complete dual-tag system. Provide cabinet with concealed-type hinges, rounded sides, and panels with individual hook and label pockets formed as an integral part of the panel. Cabinet is made of [10][14] gauge stainless steel. Provide tags of two types, one set for permanent holding of at least four keys. Provide indexing to record information concerning locks and keys, alphabetically; hook, numerically; and master key. Provide permanent loan registry to protect identity of key borrowers. Provide receipt tabs to protect identity of key borrowers and supply receipt tabs for temporary loan. Provide one cabinet in the main control center, one duplicate cabinet in the Station Security Office, and one duplicate cabinet in the Commanding Officer Office. Finish in manufacturer's standard powder coat finish.

2.12 DINING TABLE

Provide table designed for institutional use that permits seating in groups of four. Provide table top formed of minimum [10][12] gauge stainless steel, reinforced with steel plate. Cut corners at a 45 degree angle. Provide top, seat, and leg supports with heavy wall square steel tubing. Provide 300 mm 12 inch diameter seats made of high strength [14][16] gauge stainless steel. Provide a one piece table with seats, welded assembly, with welds neatly finished. Assembly framing must be painted, except for stainless steel, with one shop coat of primer. Provide a table top with a minimum top dimension of 900 mm 36 inches in the least dimension. Provide as indicated on drawings in location and quantity indicated.

PART 3 EXECUTION

3.1 INSTALLATION

Provide anchorage devices and fasteners where necessary for securing detention furniture to in-place construction. Include threaded fasteners for[concrete][and][masonry] inserts, security fasteners, and other connectors. Set detention furniture accurately in location, alignment, and elevation; with edges and surfaces level, plumb, true, and free of rack; and measured from established lines and levels. Provide temporary bracing or anchors in formwork for items that are to be built into[concrete][or][masonry] or similar construction. Fit exposed connections accurately together to form hairline joints. Weld connections that are not to be left as exposed joints but cannot be shop welded because of shipping size limitations. If field welding is necessary, use materials and methods that minimize distortion and develop strength and corrosion resistance of base metals. Obtain fusion without undercut or overlap. Remove welding flux immediately. Finish exposed welds and surfaces smooth and blended at exposed connections so that no roughness shows after finishing and contour of welded surface matches that of adjacent surface.

3.2 ADJUSTMENT

Adjust items and components of items specified in this section to ensure proper operation.

Assemble detention furniture requiring field assembly with security fasteners with no exposed fasteners on exposed faces and frames. Anchor furniture[with security fasteners][by welding][as indicated on Drawings] to floors and walls at intervals required by expected loads, but not more than 305 mm 12 inches On Center. Install anchors through backup

reinforcing plates where necessary to avoid metal distortion. Use security fasteners with head styles appropriate for installation requirements, strength, and finish of adjacent materials, except that a maximum of two different sets of tools must be required to operate security fasteners for Project.[Provide stainless steel security fasteners in painted materials.] Weld nuts onto cast-in-place anchors after installation so as to be nonremovable. Apply[polyurethane][epoxy] security sealant at all exposed gaps between detention furniture and adjacent construction greater than 1.6 mm 1/16 inch.

-- End of Section --