
USACE / NAVFAC / AFCEC UFGS-10 51 13 (August 2024)

Preparing Activity: NAVFAC

Superseding
UFGS-10 51 13 (May 2011)

UNIFIED FACILITIES GUIDE SPECIFICATIONS

References are in agreement with UMRL dated October 2024

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08/24

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SECTION 10 51 13

LOCKERS 08/24

NOTE: This guide specification covers the requirements for permanently installed metal lockers; single and double tier, used for temporary storage and security of personal belongings.

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 drawings:

1. Location, type and size, quantity, and color of lockers
2. Mounting details and whether legs, base panels, or pre-built bases are required.

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 A568/A568M	(2019a) Standard Specification for Steel, Sheet, Carbon, Structural, and High-Strength, Low-Alloy, Hot-Rolled and Cold-Rolled, General Requirements for
ASTM A653/A653M	(2023) Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process
ASTM A924/A924M	(2022a) Standard Specification for General Requirements for Steel Sheet, Metallic-Coated by the Hot-Dip Process
ASTM A1008/A1008M	(2024) Standard Specification for Steel, Sheet, Cold-Rolled, Carbon, Structural, High-Strength Low-Alloy, High-Strength Low-Alloy with Improved Formability, Solution Hardened, and Bake Hardenable
ASTM B456	(2017; R 2022) Standard Specification for Electrodeposited Coatings of Copper Plus Nickel Plus Chromium and Nickel Plus Chromium
ASTM D709	(2017) Standard Specification for Laminated Thermosetting Materials
ASTM D3451	(2006; R 2017) Standard Guide for Testing Coating Powders and Powder Coatings
ASTM D4976	(2012; R 2020) Standard Specification for Polyethylene Plastics Molding and

Extrusion Materials

ASTM D6386

(2022) Standard Practice for Preparation of Zinc (Hot-Dip Galvanized) Coated Iron and Steel Product and Hardware Surfaces for Painting

NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA)

ANSI/NEMA LD 3

(2005) Standard for High-Pressure Decorative Laminates

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)

NFPA 286

(2024) Standard Methods of Fire Tests for Evaluating Contribution of Wall and Ceiling Interior Finish to Room Fire Growth

U.S. DEPARTMENT OF DEFENSE (DOD)

MIL-PRF-22750

(2014; Rev G; Notice 1 2019) Coating, Epoxy, High Solids

MIL-PRF-23377

(2012; Rev K) Primer Coatings: Epoxy, High Solids

U.S. GENERAL SERVICES ADMINISTRATION (GSA)

FS AA-L-00486

(Rev J) Lockers, Clothing, Steel

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

36 CFR 1191

Americans with Disabilities Act (ADA) Accessibility Guidelines for Buildings and Facilities; Architectural Barriers Act (ABA) Accessibility Guidelines

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:

SD-02 Shop Drawings

Types; G, [_____]

Location; G, [_____]

Installation

[Numbering System

] SD-03 Product Data

Material

[Locking Devices

][Lock Control Chart

] Handles

Finish

Locker Components

Assembly Instructions

SD-04 Samples

Color Chips; G, [_____]

1.3 DELIVERY, HANDLING, AND STORAGE

Deliver lockers and associated materials in their original packages, containers, or bundles bearing the manufacturer's name and the name of the material. Protect from weather, soil, and damage during delivery, storage, and construction.

1.4 FIELD MEASUREMENTS

To ensure proper fits, make field measurements prior to the preparation of drawings and fabrication. Verify correct location.

1.5 QUALITY ASSURANCE

1.5.1 Color Chips

Provide a minimum of three color chips, not less than 75 mm 3 inches square, of each color[scheduled][indicated].

Government may request performance-characteristic tests on assembled lockers. Tests and results must conform to FS AA-L-00486.[Tests and results for HDPE lockers must conform to applicable requirements of ASTM D4976 and applicable requirements of FS AA-L-00486.][Phenolic core lockers must conform to applicable requirements of FS AA-L-00486 and be manufactured as high pressure phenolic panels with integral plastic laminate outer faces both sides of panels. Laminating faces to the core is not acceptable.] Lockers not conforming will be rejected.

PART 2 PRODUCTS

2.1 ACCESSIBILITY

Comply with 36 CFR 1191 with regard to accessibility of lockers[and locker benches], locker features, latching and locking, and signage.

2.2 TYPES

NOTE: Locker type and quantities must be indicated.

Add lockers for firearms, cellular phones, or other specialty purposes per specific using agency project requirements.

Lockers with closed bases (Type C) or legs and open bases (Type L) may be used for dry carpeted areas. Lockers without bases (Type W) may be used at locations with solid bases of other construction such as concrete curbs with tile wall bases not prone to water logging or water damage.

Add any locker requirements for promotion of drying damp clothing, such as athletic uniforms, that may require higher ventilation than standard lockers.

Locker must have the following type and size in the location and quantities indicated. Locker finish colors will be as scheduled.

Lockers must be manufactured as[fully welded steel][knocked-down for assembly in the field][prefabricated solid high-density polyethylene (HDPE)][prefabricated plastic laminate faced solid phenolic core] units.

[2.2.1 Single-tier Lockers

NOTE: Delete the paragraph heading and the following paragraphs if single-tier lockers are not required.

Single-tier lockers must be as follows:

Select from the following for single-tier lockers with legs to suit the project. Delete inapplicable paragraphs. HDPE lockers may not be available with legs.

- [Type STL-1: Single-tier locker 380 millimeter wide, 380 millimeter deep, and 1830 millimeter high 15 inches wide, 15 inches deep, and 72 inches high, attached to 150 millimeter 6-inch high legs
-][Type STL-2: Single-tier locker 380 millimeter wide, 457 millimeter deep, and 1830 millimeter high 15 inches wide, 18 inches deep, and 72 inches high, attached to 150 millimeter 6-inch high legs
-][Type STL-3: Single-tier locker 457 millimeter wide, 533 millimeter deep, and 1830 millimeter high 18 inches wide, 21 inches deep, and 72 inches high, attached to 150 millimeter 6-inch high legs
-][Type STL-4: Single-tier locker 457 millimeter wide, 610 millimeter deep, and 1830 millimeter high 18 inches wide, 24 inches deep, and 72 inches high, attached to 150 millimeter 6-inch high legs

-] *****
NOTE: Select from the following for single-tier lockers with a closed base to suit the project. Delete inapplicable paragraphs.

- [Type STC-1: Single-tier locker 380 millimeter wide, 380 millimeter deep, and 1830 millimeter high 15 inches wide, 15 inches deep, and 72 inches high, attached to 150 millimeter 6-inch closed base
-][Type STC-2: Single-tier locker 380 millimeter wide, 457 millimeter deep, and 1830 millimeter high 15 inches wide, 18 inches deep, and 72 inches high, attached to 150 millimeter 6-inch high closed base
-][Type STC-3: Single-tier locker 457 millimeter wide, 533 millimeter deep, and 1830 millimeter high 18 inches wide, 21 inches deep, and 72 inches high, attached to 150 millimeter 6-inch high closed base
-][Type STC-4: Single-tier locker 457 millimeter wide, 610 millimeter deep, and 1830 millimeter high 18 inches wide, 24 inches deep, and 72 inches high, attached to 150 millimeter 6-inch high closed base

-] *****
NOTE: Select from the following for single-tier lockers without a base to be installed on a prebuilt base. Base must be detailed on the drawings.

- [Type STW-2: Single-tier locker 380 millimeter wide, 457 millimeter

- deep, and 1830 millimeter 15 inches wide, 18 inches deep, and 72 inches high, without base
-][Type STW-3: Single-tier locker 457 millimeter wide, 533 millimeter deep, and 1830 millimeter 18 inches wide, 21 inches deep, and 72 inches high, without base
-][Type STW-4: Single-tier locker 457 millimeter wide, 610 millimeter deep and 1830 millimeter 18 inches wide, 24 inches deep, and 72 inches high, without base
-]][2.2.2 Double-tier Lockers

 NOTE: Delete the paragraph heading and the following paragraphs if double-tier lockers are not required.

Double-tier lockers must be as follows:

 Select from the following for double-tier lockers with legs to suit the project. Delete inapplicable paragraphs. HDPE lockers may not be available with legs.

Type DTL-1: Double-tier locker 380 millimeter wide, 380 millimeter deep, and 1830 millimeter 15 inches wide, 15 inches deep, and 72 inches high, attached to 150 millimeter 6-inch high legs

Type DTL-2: Double-tier locker 380 millimeter wide, 457 millimeter deep, and 1830 millimeter 15 inches wide, 18 inches deep, and 72 inches high, attached to 150 millimeter 6-inch high legs

 NOTE: Select from the following for double-tier lockers with a closed base to suit the project. Delete inapplicable paragraphs.

Type DTC-1: Double-tier locker 380 millimeter wide, 380 millimeter deep, and 1830 millimeter 15 inches wide, 15 inches deep, and 72 inches high, attached to a 150 millimeter 6-inch high closed base

Type DTC-2: Double-tier locker 380 millimeter wide, 457 millimeter deep, and 1830 millimeter 15 inches wide, 18 inches deep, and 72 inches high, attached to a 150 millimeter 6-inch high closed base

 NOTE: Select from the following for double-tier lockers without a base to be installed on a prebuilt base. Base details must be detailed.

Type DTW-1: Double-tier locker 380 millimeter wide, 380 millimeter deep, and 1830 millimeter 15 inches wide, 15 inches deep, and 72 inches high, without base

Type DTW-2: Double-tier locker 380 millimeter wide, 457 millimeter deep, and 1830 millimeter 15 inches wide, 18 inches deep, and 72 inches high, without base

][2.2.3 Double-tier Z-style Lockers

NOTE: Delete the paragraph heading and the following paragraphs if double-tier z-style lockers are not required.

Double-tier Z-style lockers must be as follows:

NOTE: Select from the following for double-tier z-style lockers with legs to suit the project. Delete inapplicable paragraphs. HDPE lockers may not be available with legs.

Type DTZL-1: Double-tier Z-style locker 380 millimeter wide, 380 millimeter deep, and 1830 millimeter 15 inches wide, 15 inches deep, and 72 inches high, attached to 150 millimeter 6-inch high legs

Type DTZL-2: Double-tier Z-style locker 380 millimeter wide, 457 millimeter deep, and 1830 millimeter 15 inches wide, 18 inches deep, and 72 inches high, attached to 150 millimeter 6-inch high legs

NOTE: Select from the following for double-tier z-style lockers with a closed base to suit the project. Delete inapplicable paragraphs.

Type DTZC-1: Double-tier Z-style locker 380 millimeter wide, 380 millimeter deep, and 1830 millimeter 15 inches wide, 15 inches deep, and 72 inches high, attached to a 150 millimeter 6-inch high closed base

Type DTZC-2: Double-tier Z-style locker 380 millimeter wide, 457 millimeter deep, and 1830 millimeter 15 inches wide, 18 inches deep, and 72 inches high, attached to a 150 millimeter 6-inch high closed base

NOTE: Select from the following for double-tier z-style lockers without a base to be installed on a prebuilt base. Base details must be detailed.

Type DTZW-1: Double-tier Z-style locker 380 millimeter wide, 380 millimeter deep, and 1830 millimeter 15 inches wide, 15 inches deep, and 72 inches high, without base

Type DTZW-2: Double-tier locker 380 millimeter wide, 457 millimeter deep, and 1830 millimeter 15 inches wide, 18 inches deep, and 72 inches high, without base

]2.3 MATERIAL

NOTE: Edit paragraphs that follow to select
intended materials, finishes, and options.

2.3.1 [Galvanized]Steel Sheet

NOTE: Choose one of the following options.

Delete the word "Galvanized" in paragraph title and
choose the first optional paragraph for normal
applications where moisture is not a problem.

Include the word "Galvanized" in the paragraph title
and choose the second optional paragraph for lockers
located in high moisture areas such as shower rooms.

NOTE: Consider ASTM A240/A240M stainless steel as a
sheet metal material for lockers where exposure to
high moisture, chlorides, or other corrosives may
lead to premature deterioration of metal lockers.
Indicate finishes such as an ASTM A480/480M No.4
directional polish.

[[ASTM A1008/A1008M,][ASTM A568/A568M,]commercial quality, minimized
spangle material. Prepare material surfaces for[baked enamel][powder
coat] [_____] finishing in accordance with FS AA-L-00486.[Fabricate
locker bodies from not less than 0.607 millimeter 0.0239-inch thick steel
sheet.][Fabricate locker frames from not less than 1.524 millimeter
0.060 inch thick steel sheet.][Minimum uncoated sheet thickness[as
specified] [_____.]

][ASTM A653/A653M and ASTM A924/A924M, commercial quality, minimized
spangle, galvanized steel sheet with not less than Z275 G60 zinc coating.
Prepare surface of sheet for painting in accordance with ASTM D6386,
Method A. Minimum uncoated sheet thickness[as specified] [_____.]

]2.3.2 Solid High-Density Polyethylene (HDPE)

NOTE: If lockers other than metal are used, HDPE
is preferred where available, such as projects
located CONUS.

ASTM D4976 solid [10 mm][13 mm] [3/8 inch][1/2 inch] HDPE panels,
extrusions, and casting forming locker bodies, doors, and shelves.[
Include[bases,][sloped tops,][end panels,][and][infill panels].]

]2.3.3 Solid Plastic Laminate Faced Phenolic Core

NOTE: Phenolic lockers should only be used in locations where HDPE is not available, such as projects located OCONUS.

ASTM D709 solid 13 mm 1/2 inch ANSI/NEMA LD 3 plastic laminate faced phenolic core panels forming locker bodies, doors, and shelves.[Include[bases,][sloped tops,][end panels,][and][infill panels]. Fire performance per NFPA 286.]

2.3.4 Chromium Coating

Nickel and chromium electrodeposited on the specified base metal. Conform to ASTM B456, SC-3, as applicable to the base metal.

2.3.5 Finish

NOTE: Standard finish in FS AA-L-00486 is gray, baked enamel. Use the first paragraph when baked enamel finish is required. Use the second paragraph when powder coat finish is required. Use the third paragraph for epoxy-based primer and topcoat coatings.

NOTE: HDPE locker and locker bench colors are integral to the material.

[FS AA-L-00486.

][ASTM D3451.

][Primer,[MIL-PRF-23377] [____]; topcoat,[MIL-PRF-22750] [____].

2.3.5.1 Color[s]

As selected.

2.4 COMPONENTS

NOTE: Delete items from the following paragraphs that are not required on the project.

NOTE: If ASTM A240/A240M stainless steel is used for locker fabrication, use stainless steel for fasteners and for locks, coat hooks, hanger rods, handles, hinges, number plates and other accessories.

2.4.1 Built-In Locks

NOTE: FS AA-L-00486 includes built-in locks as

standard items. It includes built-in key locks and built-in combination locks. It also includes a padlock eye in the door latching mechanism.

If built-in locks are required, use the first paragraph. If built-in locks are not required, use the second paragraph.

[FS AA-L-00486.[Provide locking devices as[built-in key locks][built-in combination locks][coin-operated locks][and][a padlock eye in the door latching mechanism].][Submit Lock Control Chart showing each lock required for the project, the locker identification plate number, and the lock combination.]

] [Built-in locks are not required.

]2.4.2 Coat Hooks

FS AA-L-00486,[chromium plated zinc][stainless steel][HDPE].

]2.4.3 Hanger Rods

FS AA-L-00486,[chromium plated steel][stainless steel].

]2.4.4 Door Handles

NOTE: FS AA-L-00486 allows aluminum alloy, zinc alloy, or steel handles. Aluminum handles are required to have satin anodized finish. Zinc alloy and steel handles are required to have chromium or nickel plated finish.

FS AA-L-00486. Provide[chromium plated zinc alloy or steel handles][stainless steel handles][HDPE handles].

2.4.5 Doors

FS AA-L-00486, not less than 1.5 mm 0.0598 inch thick steel sheet. Provide[closed face][partial louvered face][full louvered face][perforated face] providing a minimum [_____] percent open area.

2.4.5.1 Hinges

In addition to the requirements of FS AA-L-00486, provide 5-knuckle hinges, minimum 50 mm 2 inches high. Fabricate knuckle hinges from not less than 2 mm 0.0787 inch thick steel[chromium plated steel][stainless steel]. [A full height piano hinge may be provided if standard with the manufacturer.] Weld or bolt hinges to the door frame to suit materials. Weld, bolt, or rivet hinges to the door to suit materials.

2.4.5.2 Latching Mechanisms

FS AA-L-00486.

2.4.6 Latch Strikes

FS AA-L-00486. Fabricate from not less than 2 mm 0.0787 inch thick[chromium plated steel][stainless steel] sheet, except latch strike must be continuous from top to bottom and fabricated as part of the door framing. Provide no less than two silencers per door strike.

[2.4.7 Solid HDPE Latches

Provide recessed door latch assembly of solid HDPE with latching devices compatible with the locker body construction. Include necessary metal components to provide latching[and locking] function with latches engaging the locker body at two locations for double tier doors and three locations for single tier full height doors.

]2.4.8 Silencers

FS AA-L-00486.

2.4.9 Back and Side Panels, Tops, and Bottoms

FS AA-L-00486, not less than[1.2 mm 0.0474 inch thick steel sheet][13 mm 1/2 inch solid HDPE panel][13 mm 1/2 inch plastic laminate faced solid phenolic core panel].[Provide concealed anchored[filler pieces][and][boxed end panels] where indicated that match side panel material.]

[2.4.10 Sloping Locker Tops

Provide sloping locker tops in addition to the locker-section flat tops. Sloping tops must be continuous in length. Provide fillers or closures at the exposed end of sloping tops. Fabricate sloping tops from not less than[1.214 millimeter 0.0478-inch thick steel sheet][10 mm 3/8 inch solid HDPE panels][10 mm 3/8 inch plastic laminate faced solid phenolic core panels].

]2.4.11 Shelves

FS AA-L-00486. Fabricate from not less than[1.5 mm 0.0598 inch thick steel sheet][13 mm 1/2 inch solid HDPE panels][13 mm 1/2 inch plastic laminate faced solid phenolic core panels].

[2.4.12 Base Panels

NOTE: Base panels must be specified if required.
If none are required, delete this paragraph.

FS AA-L-00486.

]2.4.13 Legs

NOTE: FS AA-L-00486 normally includes legs unless specified otherwise. HDPE lockers may not be available with legs.

[FS AA-L-00486.][Provide lockers without legs, as indicated.]

2.4.14 Number Plates

NOTE: Choose one of the following paragraphs. If
number plates are not required, use the second
paragraph.

NOTE: Requirements for number plates are included
in FS AA-L-00486. Select material requirement and
range of numbers.

[FS AA-L-00486.[Aluminum][Brass][Zinc]. Provide consecutive numbers
from [_____] to [_____] .

] [Number plates are not required.

] [2.4.15 Label Holders

NOTE: Include if label holders are required.
Otherwise, delete.

FS AA-L-00486.

] [2.4.16 Locker Benches

Provide fixed locker benches as manufactured by the locker manufacturer.
Match materials and finishes of bench tops to lockers. Provide stainless
steel anchor types suited to the[floor substrate][and][wall substrate]
designed to transfer full support and stability loads to the substrates.

] [2.4.17 Locker Bench Tops

Support bench tops with welded metal tube pedestals or welded metal wall
brackets with a minimum of two support points for each bench length.
Maximum length 1829 mm 72 inches. Height from finished floor to top of
bench [445][_____] mm [17-1/2][_____] inches. Fabricate pedestal and wall
brackets from[powder coated galvanized steel][stainless steel]. Provide
stainless steel fasteners and anchors. Space support points for each
bench as required to support 150 kg/m 100 plf with maximum deflection not
to exceed L/180 between supports.

Provide bench tops fabricated from [32][_____] mm [1-1/4][_____] inch
thick solid[butcher block maple hardwood with polyurethane lacquered
finish][HDPE with textured finish][plastic laminate faced phenolic
core]. With top width of [241][305][381] mm [9-1/2][12][24] inches.
Provide bench dimensions required for accessibility compliance.

] [2.4.18 Fastening Devices

Provide bolts, nuts, and rivets as specified in FS AA-L-00486.

PART 3 EXECUTION

3.1 ASSEMBLY AND INSTALLATION

Assemble lockers according to the locker manufacturer's instructions. Align lockers horizontally and vertically. Secure lockers to wall[and base] with screws as indicated. Bolt adjacent lockers together. Adjust doors to operate freely without sticking or binding and to ensure they close tightly.

[3.2 NUMBERING SYSTEM

NOTE: If lockers require number plates, identify the system of numbering. Otherwise, delete this paragraph.

Install number plates on lockers consecutively[with odd numbers on top and even numbers on bottom][as indicated] [_____].

]3.3 FIELD QUALITY CONTROL

3.3.1 Testing

Government may request performance-characteristic tests on assembled lockers in accordance with FS AA-L-00486. Lockers not conforming will be rejected.

3.3.2 Repairing

Remove and replace damaged and unacceptable portions of completed work with new.

3.3.3 Cleaning

Clean surfaces of the work, and adjacent surfaces soiled as a result of the work, in an approved manner. Remove equipment, surplus materials, and rubbish from the site.

-- End of Section --