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USACE / NAVFAC / AFCESA / NASA **UFGS-10 51 13 (April 2006)**

Preparing Activity: NAVFAC **Replacing without change UFGS-10505 (August 2004)**

UNIFIED FACILITIES GUIDE SPECIFICATIONS

References are in agreement with UMRL dated 18 July 2006
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STEEL CLOTHING LOCKERS

04/06

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SECTION 10 51 13

STEEL CLOTHING LOCKERS
04/06

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

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).

Use of electronic communication is encouraged.

Brackets are used in the text to indicate designer choices or locations where text must be supplied by the designer.
****

****
NOTE: Show the following information on the drawings:

1. Location, size, quantity, and color of lockers

2. Mounting details and whether legs or base panels 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 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.

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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 A 366/A 366M	(1997e1) Commercial Steel, Sheet, Carbon,(0.15 Maximum Percent Cold-Rolled
ASTM A 569/A 569M	(1998) Steel, Carbon (0.15 Maximum Percent), Hot-Rolled Sheet and Strip, Commercial
ASTM A 653/A 653M	(2004a) Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process
ASTM B 456	(2003) Electrodeposited Coatings of Copper Plus Nickel Plus Chromium and Nickel Plus Chromium
ASTM D 2092	(2001) Preparation of Zinc-Coated (Galvanized) Steel Surfaces for Painting

U.S. DEPARTMENT OF DEFENSE (DOD)

MIL-C-22750	(Rev F) Coating, Epoxy, High Solids
MIL-P-23377	(Rev H) Primer Coatings: Epoxy, High Solids

U.S. GENERAL SERVICES ADMINISTRATION (GSA)

FS AA-L-00486	(Rev J) Lockers, Clothing, Steel

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

SD-02 Shop Drawings

Types[; G][; G, [_____]]

Location[; G][; G, [_____]]

Installation

[Numbering system]

SD-03 Product Data

Material

Finish

Locker components

Assembly instructions

SD-04 Samples

Color chips[; G][; 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.

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].

PART 2 PRODUCTS

2.1 TYPES

****
NOTE: Style 1 is "single unit" and Style 2 is "sectional groups." FS AA-L-00486 limits the number of lockers in a group to 10 for Type I and to 20 for Type II. Unless specified otherwise, lockers are provided "knocked down" for final assembly at the site. If "set-up" is justified, include the last bracketed sentence.
****

FS AA-L-00486. Provide [Type I, single-tier] [and] [Type II, double-tier], Style [1] [2] lockers in the location, quantities and size[s] indicated. Provide locker finish color[s] [as indicated] [as scheduled]. [Provide lockers "set-up" (pre-assembled).]

2.2 MATERIAL

2.2.1 [Galvanized] Steel Sheet

****
NOTE: Choose one of the following options.
****

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

[ASTM A 366/A 366M or ASTM A 569/A 569M, commercial quality, minimized spangle material. Prepare material surfaces for baked enamel finishing in accordance with FS AA-L-00486. Minimum uncoated sheet thickness [as specified] [_____].]

****
NOTE: Include the word "Galvanized" in the

paragraph title and choose this option for lockers located in high moisture areas such as shower rooms.
****

[ASTM A 653/A 653M, 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 D 2092, Method A. Minimum uncoated sheet thickness [as specified] [_____].]

2.2.2 Chromium Coating

Nickel and chromium electrodeposited on the specified base metal. Conform to ASTM B 456, SC-3, as applicable to the base metal.

2.2.3 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 for epoxy-based primer and topcoat coatings.
****

[FS AA-L-00486.]

[Primer, [MIL-P-23377] [_____]; topcoat, [MIL-C-22750] [_____].]

2.2.3.1 Color

As selected.

2.3 COMPONENTS

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

2.3.1 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 and delete the second.
****

[FS AA-L-00486. Provide [built-in key locks] [built-in combination locks] [and] [a padlock eye in the door latching mechanism].]

****
NOTE: If built-in locks are not required, use the following and delete the above.
****

[Built-in locks are not required.]

2.3.2 Coat Hooks

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

[2.3.3 Hanger Rods

FS AA-L-00486.

]2.3.4 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 zinc alloy or steel handles with a chromium coating.]

2.3.5 Doors

FS AA-L-00486, not less than 1.5 mm 0.0598 inch thick steel sheet.

2.3.5.1 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 0.0747 inch thick steel sheet. [A full height piano hinge may be provided if standard with the manufacturer.] Weld or bolt hinges to the door frame. Weld, bolt, or rivet hinges to the door.

2.3.5.2 Latching Mechanisms

FS AA-L-00486.

2.3.6 Latch Strikes

FS AA-L-00486. Fabricate from not less than 2 mm 0.0747 inch thick steel sheet, except latch strike may be continuous from top to bottom and fabricated as part of the door framing.

2.3.7 Silencers

FS AA-L-00486.

2.3.8 Back and Side Panels, Tops, and Bottoms

FS AA-L-00486, not less than 1.2 mm 0.0474 inch thick steel sheet.

2.3.9 Shelves

FS AA-L-00486. Fabricate from not less than 1.5 mm 0.0598 inch thick steel sheet.

[2.3.10 Base Panels

****

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

FS AA-L-00486.

]2.3.11 Legs

NOTE: FS AA-L-00486 normally includes legs unless specified otherwise.

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

2.3.12 Number Plates

NOTE: Choose one of the following.

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 [_____].]

NOTE: If number plates are not required, use this paragraph and delete the above.

[Number plates are not required.]

[2.3.13 Label Holders

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

FS AA-L-00486.

]2.3.14 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 --