
USACE / NAVFAC / AFCEA / NASA UFGS-10 51 00.00 40 (April 2007)

Preparing Activity: NASA Superseding
UFGS-10 51 00.00 40 (April 2006)

UNIFIED FACILITIES GUIDE SPECIFICATIONS

References are in agreement with UMRL dated 19 March 2007

Latest change indicated by CHG tags

SECTION TABLE OF CONTENTS

DIVISION 10 - SPECIALTIES

SECTION 10 51 00.00 40

LOCKERS

04/07

PART 1 GENERAL

- 1.1 REFERENCES
- 1.2 SUBMITTALS
- 1.3 DELIVERY, HANDLING, AND STORAGE
- 1.4 FIELD MEASUREMENTS
- 1.5 FIELD TESTS
- 1.6 LOCKER TYPES
- 1.7 SINGLE-TIER LOCKERS
- 1.8 DOUBLE-TIER LOCKERS
- 1.9 GENERAL INFORMATION

PART 2 PRODUCTS

- 2.1 LOCKER MATERIALS
 - 2.1.1 Steel Sheet
 - 2.1.2 Galvanized Steel Sheet
 - 2.1.3 Chromium Coating
 - 2.1.4 Locker Finish
- 2.2 LOCKER FABRICATION
 - 2.2.1 Locker Bodies
 - 2.2.1.1 Sloping Locker Tops
 - 2.2.1.2 Locker Legs
 - 2.2.1.3 Closed Locker Bases
 - 2.2.1.4 Locker Finish
 - 2.2.2 Doors, Door Frames, and Door Louvers
 - 2.2.3 Latch Strikes
 - 2.2.4 Shelves
 - 2.2.5 Hinges
 - 2.2.6 Latching Mechanisms
 - 2.2.7 Door Handles
 - 2.2.8 Built-in Locks
 - 2.2.9 Coat Hooks
 - 2.2.10 Hanger Rods

- 2.2.11 Number Plates
- 2.2.12 Label Holders
- 2.2.13 Fastening Devices

PART 3 EXECUTION

- 3.1 ASSEMBLY
- 3.2 ACCEPTANCE PROVISIONS
 - 3.2.1 Repairing
 - 3.2.2 Cleaning

-- End of Section Table of Contents --

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 A 1008/A 1008M (2005a) Standard Specification for Steel, Sheet, Cold-Rolled, Carbon, Structural, High-Strength Low-Alloy and High-Strength Low-Alloy with Improved Formability, Solution Hardened, and Bake Hardened

ASTM A 526/A 526M (1990) Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) by the Hot-Dip Process, Commercial Quality

ASTM A 568/A 568M (2005) Standard Specifications for Steel, Sheet, Carbon, and High-Strength, Low-Alloy, Hot-Rolled and Cold-Rolled, General Requirements for

ASTM A 653/A 653M (2004a) Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process

ASTM A 924/A 924M (2004) Standard Specification for General Requirements for Steel Sheet, Metallic-Coated by the Hot-Dip Process

ASTM B 456 (2003) Standard Specification for Electrodeposited Coatings of Copper Plus Nickel Plus Chromium and Nickel Plus Chromium

ASTM D 2092 (2001) Standard Guide for Preparation of Zinc-Coated (Galvanized) Steel Surfaces for Painting

U.S. DEPARTMENT OF DEFENSE (DOD)

MIL-C-22751 (Rev D; Notice 1) Coating System, Epoxy-Polyamide, Chemical and Solvent

	Resistant, Process for Application of
MIL-PRF-22750	(1994f) Coating, Epoxy, High Solids
MIL-PRF-23377	(Rev J; Am 1) Primer Coatings: Epoxy, High Solids

U.S. GENERAL SERVICES ADMINISTRATION (GSA)

FS AA-L-00486	(1993j) 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.] Submit the following in accordance with Section 01 33 00 SUBMITTAL PROCEDURES:

SD-02 Shop Drawings

The following drawings shall be submitted in accordance with paragraph entitled, "General Information," of this section.

Fabrication Drawings
Installation Drawings

SD-03 Product Data

Manufacturer's catalog data shall be submitted for the following items, including material qualities, locking devices, handles, finish assembly instructions, and other similar items.

NOTE: Delete the following paragraph if built-in combination locks or built-in key locks are not required.

A lock-control chart shall be submitted showing each lock required for the project, the locker identification plate number, and the lock combination or lock key number.

Locker Materials
Hardware and Accessories

SD-04 Samples

Three Color Chips, not less than 300 millimeter 12-inches square, of each color schedule shall be submitted.

SD-07 Certificates

Certificates shall be submitted in accordance with paragraph entitled, "General Information," of this section.

1.3 DELIVERY, HANDLING, AND STORAGE

Materials shall be protected from weather, soil, and damage during delivery, storage, and construction.

Materials shall be delivered in their original packages, containers, or bundles bearing the brand name and the name of the material.

1.4 FIELD MEASUREMENTS

To ensure proper fits, field measurements shall be taken prior to the preparation of drawings and fabrication.

1.5 FIELD TESTS

Government may request performance-characteristic tests on assembled lockers. Tests and results shall conform to FS AA-L-00486. Lockers not conforming will be rejected.

1.6 LOCKER TYPES

NOTE: Locker type and quantities must be indicated.

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

1.7 SINGLE-TIER LOCKERS

Single-tier lockers shall be as follows:

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

Select from the following for single-tier lockers with legs to suit the project. Delete inapplicable paragraphs.

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

1.8 DOUBLE-TIER LOCKERS

Double-tier lockers shall be as follows:

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

Select from the following for double-tier lockers with legs to suit the project. Delete inapplicable paragraphs.

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

1.9 GENERAL INFORMATION

Fabrication Drawings shall be submitted for lockers consisting of fabrication and assembly details to be performed in the factory.

Installation Drawings shall be submitted for lockers indicating the locker type required, location, locker-number sequence, and installation details.

Certificates showing Lockers will be free of defects in materials, fabrication, finish, and installation, and that they will remain so for a period of not less than [_____] years after completion.

Three **Color Chips**, not less than 300 millimeter 12-inches square, of each color schedule shall be submitted.

PART 2 PRODUCTS

2.1 LOCKER MATERIALS

2.1.1 Steel Sheet

NOTE: Use the following paragraph on sheet steel for fabrication of lockers unless galvanized steel is required for areas with high humidity and corrosive atmospheres. Delete if galvanized sheet steel is required.

Steel sheet used for the fabrication of lockers shall be cold-rolled, commercial-quality material conforming to **ASTM A 1008/A 1008M** and **ASTM A 568/A 568M**. Sheet thickness shall be as specified. Surface preparation and phosphate pretreatment of material shall be provided as required for subsequent finishing.

2.1.2 Galvanized Steel Sheet

NOTE: Use the following paragraph for galvanized steel sheet for fabrication of lockers installed in high humidity and corrosive atmospheres.

Galvanized steel sheet used for fabrication of lockers shall be hot-dipped commercial quality minimized spangle material conforming to **ASTM A 526/A 526M** with not less than a 35 grams 1.25-ounce zinc coating conforming to **ASTM A 653/A 653M** and **ASTM A 924/A 924M**. Surface preparation of material for finishing shall conform to **ASTM D 2092**, Method A. Sheet thickness indicated shall be the uncoated sheet-steel thickness.

2.1.3 Chromium Coating

Chromium coating shall be nickel and chromium electrodeposited on the specified base metal. Coating shall conform to **ASTM B 456**, SC-3, as applicable to the base metal.

2.1.4 Locker Finish

Primer shall conform to MIL-PRF-23377 and topcoat as specified in MIL-PRF-22750. Application shall conform to MIL-C-22751. Color shall be as indicated on the finish schedule.

2.2 LOCKER FABRICATION

Hardware and Accessories for locker fabrication and construction shall meet all design specifications for referenced standards within this section.

2.2.1 Locker Bodies

Locker-body fabrication including the back, sides, top, and bottom shall conform to FS AA-L-00486 and as herein modified. Locker bodies shall be fabricated from not less than 0.607 millimeter (0.0239-inch) 0.0239-inch thick steel sheet.

2.2.1.1 Sloping Locker Tops

Sloping locker tops shall be provided in addition to the locker-section flat tops. Sloping tops shall be continuous in length. Fillers or closures shall be provided at the exposed end of sloping tops. Sloping tops shall be fabricated from not less than 1.214 millimeter (0.0478-inch) 0.0478-inch thick steel sheet.

2.2.1.2 Locker Legs

NOTE: Delete the paragraph heading and the following paragraph if a closed base or no base is required.

Locker legs shall conform to FS AA-L-00486 and shall be fabricated from not less than 1.519 millimeter (0.0598-inch) 0.0598-inch thick steel sheet.

2.2.1.3 Closed Locker Bases

NOTE: Delete the paragraph heading and the following paragraph if legs or no base are required.

Closed locker base shall be 150 millimeter (6 inches) 6 inches high with edges flanged inward. Bases shall be continuous in length and placed in a plane flush with the locker surfaces. Bases shall be provided for all surfaces exposed-to-view. Closed locker bases shall be fabricated from not less than 1.519 millimeter (0.0598-inch) 0.0598-inch thick steel sheet.

2.2.1.4 Locker Finish

Application of the locker finish, including surface preparation, priming, and enameling, shall conform to FS AA-L-00486.

2.2.2 Doors, Door Frames, and Door Louvers

Doors, door frames, and door louvers shall conform to FS AA-L-00486 as herein modified. Doors, door frames, and door louvers shall be fabricated

from not less than 1.519 millimeter (0.0598-inch) 0.0598-inch thick steel sheet.

2.2.3 Latch Strikes

Latch strikes shall conform to FS AA-L-00486 as herein modified. Latch strikes shall be fabricated from not less than 1.897 millimeter (0.0747-inch) 0.0747-inch thick steel sheet.

2.2.4 Shelves

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

Shelves shall conform to FS AA-L-00486 as herein modified. Shelves shall be fabricated from not less than 0.912 millimeter (0.0359-inch) 0.0359-inch thick steel sheet.

2.2.5 Hinges

Hinges shall conform to FS AA-L-00486 as herein modified. Hinges shall be not less than the 5-knuckle type welded to the door frame and bolted to the door. Hinges shall be fabricated from not less than 1.897 millimeter (0.0747-inch) 0.0747-inch thick steel sheet.

2.2.6 Latching Mechanisms

Latching mechanisms shall conform to FS AA-L-00486.

2.2.7 Door Handles

Door handles shall conform to FS AA-L-00486 as herein modified. Zinc alloy or steel handles shall have a chromium coating as specified.

2.2.8 Built-in Locks

NOTE: Delete the paragraph heading and the following paragraph if built-in locks are not required. Use the following if key locks or padlocks are required.

Built-in key locks shall conform to FS AA-L-00486 as herein modified. Dead bolt shall be cast-brass alloy. Tumblers shall be 5-disk or 5-pin type. Provide two keys for each lock and three master keys. Keys shall be delivered in a key case with each key set identified by lock and locker number.

NOTE: Use the following if combination locks are required.

Built-in combination locks shall conform to FS AA-L-00486 as herein modified. Combination locks shall be master key controlled. Three master

keys shall be delivered in a key case.

2.2.9 Coat Hooks

Coat hooks shall conform to FS AA-L-00486. Hooks shall be chromium coated.

2.2.10 Hanger Rods

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

Hanger rods shall conform to FS AA-L-00486.

2.2.11 Number Plates

Number plates shall conform to FS AA-L-00486.

2.2.12 Label Holders

Label holders shall conform to FS AA-L-00486.

2.2.13 Fastening Devices

Fastening devices shall conform to FS AA-L-00486.

PART 3 EXECUTION

3.1 ASSEMBLY

Lockers shall be assembled according to the locker manufacturer's instructions.

Lockers shall be carefully assembled, lined up horizontally and vertically, and rigidly screwed to the base and wall. Adjacent lockers shall be bolted together.

Doors shall be adjusted to operate freely without sticking or binding and shall close tightly.

3.2 ACCEPTANCE PROVISIONS

3.2.1 Repairing

Damaged and unacceptable portions of completed work shall be removed and replaced with new work at no additional cost to the Government.

3.2.2 Cleaning

Surfaces of the work, and adjacent surfaces soiled as a result of the work, shall be cleaned in an approved manner. Equipment, surplus materials, and rubbish from the work shall be removed from the site.

-- End of Section --