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DIVISION 10 - SPECIALTIES

SECTION 10500

LOCKERS

06/04

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SECTION 10500

LOCKERS
06/04

NOTE: Delete, revise, or add to the text in this section to cover project requirements. Notes are for designer information and will not appear in the final project specification.

This section covers single-and double-tier lockers single occupancy type for installation on legs, closed base, and prebuilt base.

Finish colors must be indicated on the finish schedules.

Locker type, installation details, and quantities must be indicated.

PART 1 GENERAL

1.1 REFERENCES

NOTE: The following references should not be manually edited except to add new references. References not used in the text will automatically be deleted from this section of the project specification.

The publications listed below form a part of this section to the extent referenced:

ASTM INTERNATIONAL (ASTM)

- ASTM A 366/A 366M (1997e1) Standard Specification for Steel, Sheet, Carbon, Cold-Rolled, Commercial Quality
- ASTM A 525 (1993) Standard Specification for General Requirements for Steel Sheet, Zinc-Coated (Galvanized) by the Hot-Dip Process
- ASTM A 525M (1991; Rev A) Standard Specification for General Requirements for Steel Sheet, Zinc-Coated (Galvanized) by the Hot-Dip Process (Metric)

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 (2003) Standard Specifications for Steel, Sheet, Carbon, and High-Strength, Low-Alloy, Hot-Rolled and Cold-Rolled, General Requirements for

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

ASTM D 2092 (1995; R 2001e1) Standard Practice for Preparation of Zinc-Coated Galvanized Steel Surfaces for Paint

U.S. DEPARTMENT OF DEFENSE (DOD)

MS MIL-C-22750 (1992e) Coating, Epoxy, High Solids

MS MIL-C-22751 (Rev D; Notice 1) Coating System, Epoxy-Polyamide, Chemical and Solvent Resistant, Process for Application of

MS MIL-P-23377 (1989f) Primer Coatings: Epoxy, Chemical and Solvent Resistant

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 01330 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. Include a columnar list of appropriate products and tests beneath each submittal description.

The following shall be submitted in accordance with Section 01330 SUBMITTAL PROCEDURES in sufficient detail to show full compliance with the specification:

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 12-inches 300 millimeter 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 15 inches wide, 15 inches deep, and 72 inches high 380 millimeter wide, 380 millimeter deep, and 1830 millimeter high, attached to 6-inch 150 millimeter high legs

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

Type STL-3: Single-tier locker 18 inches wide, 21 inches deep, and 72 inches high 457 millimeter wide, 533 millimeter deep, and 1830 millimeter high, attached to 6-inch 150 millimeter high legs

Type STL-4: Single-tier locker 18 inches wide, 24 inches deep, and 72 inches high 457 millimeter wide, 610 millimeter deep, and 1830 millimeter high, attached to 6-inch 150 millimeter 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 15 inches wide, 15 inches deep, and 72 inches high 380 millimeter wide, 380 millimeter deep, and 1830 millimeter high, attached to 6-inch 150 millimeter closed base

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

Type STC-3: Single-tier locker 18 inches wide, 21 inches deep, and 72 inches high 457 millimeter wide, 533 millimeter deep, and 1830 millimeter high, attached to 6-inch 150 millimeter high closed base

Type STC-4: Single-tier locker 18 inches wide, 24 inches deep, and 72 inches high 457 millimeter wide, 610 millimeter deep, and 1830 millimeter high, attached to 6-inch 150 millimeter 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 15 inches wide, 18 inches deep, and 72

inches 380 millimeter wide, 457 millimeter deep, and 1830 millimeter high, without base

Type STW-3: Single-tier locker 18 inches wide, 21 inches deep, and 72 inches 457 millimeter wide, 533 millimeter deep, and 1830 millimeter high, without base

Type STW-4: Single-tier locker 18 inches wide, 24 inches deep, and 72 inches 457 millimeter wide, 610 millimeter deep and 1830 millimeter 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 15 inches wide, 15 inches deep, and 72 inches 380 millimeter wide, 380 millimeter deep, and 1830 millimeter high, attached to 6-inch 150 millimeter high legs

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

Type DTC-2: Double-tier locker 15 inches wide, 18 inches deep, and 72 inches 380 millimeter wide, 457 millimeter deep, and 1830 millimeter high, attached to a 6-inch 150 millimeter 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 15 inches wide, 15 inches deep, and 72 inches 380 millimeter wide, 380 millimeter deep, and 1830 millimeter high, without base

Type DTW-2: Double-tier locker 15 inches wide, 18 inches deep, and 72 inches 380 millimeter wide, 457 millimeter deep, and 1830 millimeter

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 12-inches 300 millimeter 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 366/A 366M 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 1.25-ounce 35 grams zinc coating conforming to ASTM A 525 ASTM A 525M. 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 MS MIL-P-23377 and topcoat as specified in MS MIL-C-22750. Application shall conform to MS 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 0.0239-inch 0.607 millimeter (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 0.0478-inch 1.214 millimeter (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 0.0598-inch 1.519 millimeter (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 6 inches 150 millimeter (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 0.0598-inch 1.519 millimeter (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 0.0598-inch 1.519 millimeter (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 0.0747-inch 1.897 millimeter (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 0.0359-inch 0.912 millimeter (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 0.0747-inch 1.897 millimeter (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 --