

AA-L-486g

January 11, 1967

SUPERSEDING

Int. Fed. Spec. AA-L-06486f (GSA-FSS)

April 1, 1965 and

Fed Spec AA-L-486e

November 29, 1961

FEDERAL SPECIFICATION

LOCKERS, CLOTHING, STEEL

*This specification was approved by the Commissioner, Federal Supply Service,
General Services Administration, for the use of all Federal agencies*

1. SCOPE AND CLASSIFICATION

1.1 **Scope.** This specification covers requirements for single-tier and double-tier clothing lockers (see 6.1)

1.2 Classification.

1.2.1 *Types sizes, and styles* The lockers shall be of the following types, sizes, and styles as specified (see 6.2)

Type I—Single-tier lockers (semilouvered door)

Size 1—15 inches wide, 15 inches deep, 78 inches high, overall

Size 2—15 inches wide, 18 inches deep, 78 inches high, overall

Size 3—18 inches wide, 21 inches deep, 78 inches high, overall

Size 4—18 inches wide, 24 inches deep, 78 inches high, overall

Type II—Double-tier lockers (semilouvered door)

Size 1—15 inches wide, 15 inches deep, 78 inches high, overall

Size 2—15 inches wide, 18 inches deep, 78 inches high, overall

Style 1—Single unit

Style 2—Sectional groups (see 8.4.4)

Note Overall height of lockers includes legs

2. APPLICABLE DOCUMENTS

2.1 The following specifications and standards, of the issues in effect on date of invitation for bids or request for proposal, form a part of this specification to the extent specified herein:

Federal Specifications

FF-P-101—Padlocks

TT-C-490—Cleaning Methods and Pre-treatment of Ferrous Surfaces for Organic Coatings

TT-E-529—Enamel, Alkyd, Semi-gloss

TT-P-636—Primer Coating, Alkyd, Wood and Ferrous Metal

PPP-P-15—Packaging and Packing of Storage Cabinets and Clothing Lockers, Metal

Federal Standard

Fed Std No 595—Colors

(Activities outside the Federal Government may obtain copies of Federal Specifications, Standards, and Handbooks as outlined under General Information in the Index of Federal Specifications and Standards and at the prices indicated in the Index. The Index which includes cumulative monthly supplements as issued is for sale on a subscription basis by the Superintendent of Documents, U S Government Printing Office, Washington, D C 20402)

(Single copies of this specification and other product specifications required by activities outside the Federal Government for bidding purposes are available without charge at the General Services Administration Regional Offices in Boston, New York, Washington, D C, Atlanta, Chicago, Kansas City, Mo, Dallas, Denver, San Francisco, Los Angeles, and Seattle, Wash)

(Federal Government activities may obtain copies of Federal Specifications, Standards, and Handbooks and the Index of Federal Specifications and Standards from established distribution points in their agencies.)

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Military Specification:

MIL-P-17802—Padlocks, and Padlock Sets Pin Tumbler Mechanism, Key Operated

Military Standard

MIL-STD-105 — Sampling Procedures and Tables for Inspection by Attributes

(Copies of Military Specifications and Standards required by contractors in connection with specific procurement functions should be obtained from the procuring activity or as directed by the contracting officer)

3 REQUIREMENTS

3.1 Preproduction sample. When specified (see 6.2), before production is commenced, a sample of the finished commodity shall be made available to the contracting officer or his authorized representative for approval in accordance with 4.2. Approval of the preproduction sample authorizes the commencement of production but does not relieve the supplier of responsibility for compliance with all applicable provisions of this specification. The preproduction sample shall be manufactured in the same facilities to be used for the manufacture of the production items.

3.2 Standard product. Except as otherwise specified herein, the lockers shall be the standard product of the manufacturer.

3.3 Materials and components. Materials and components shall conform to requirements specified herein. Materials and components not definitely specified shall be as regularly used by the manufacturer.

3.3.1 Fastening devices. Fastening devices such as threaded fasteners, washers, rivets, and clips shall be commercially available items, fabricated from steel. Alternatively, if rivets are used to secure the sides, back, and top of lockers shipped set-up, they may be of a nonferrous material and shall have a rated single shear strength of 900 pounds minimum. Steel fastening devices shall be cadmium zinc, or nickel plated.

3.3.2 Built-in-locks.

3.3.2.1 Built-in flat key locks. Except as otherwise specified herein, the lock component parts shall be fabricated from steel and shall be cadmium or zinc coated after fabrication and prior to assembly. All locks within the key change range specified herein shall be master keyed. Each lock shall also have its own keys and shall not be operable by the keys of any other lock within the key range other than the master key. In addition, the locks shall conform to the following:

- (a) Case shall be approximately 1-1/2 by 1-5/8 inches with top and bottom attaching ears
- (b) Backset shall be approximately 7/8 inch
- (c) Dead bolt shall be brass or die cast zinc alloy
- (d) Tumblers shall consist of 3 to 6 secured levers or 5 disc tumblers
- (e) Unless otherwise specified (see 6.2) 200 key changes but not to exceed 7500
- (f) 2 flat keys for each lock and master keys in the specified quantity (see 6.2)

3.3.2.2 Built-in combination lock. The lock shall be set proof, pick proof, keyless, 3 point combination mechanism and capable of not less than 24,000 combinations without duplication. The mechanism shall be self-locking so that upon door closure it will automatically throw off the combination (with or without moving the dial), and shall require complete resetting to open. A knurled rotating dial shall be incorporated and shall contain not less than 40 setting points, indicated by depressed white figures on a black dial. The lock shall not open when any individual combination number is varied 1-1/2 full points. No setting point shall be revealed in operation. The rotating dial shall be secured to resist effort to insert an instrument between the edge of the dial and the escutcheon. The lock shall permit at least 4 changes in the combination setting that can be made after delivery. Each lock

combination shall be different and the factory setting shall be clearly noted on a tag attached to the lock

3.3.3 Paint

3.3.3.1 *Primer* Primer shall conform to TT-P-636

3.3.3.2 *Enamel* Unless otherwise specified (see 6.2), enamel shall conform to class B of TT-E-529, and shall approximate color No 26134, gray, of Fed Std No 595

3.3.4 *Coat hooks* Coat hooks shall be commercially available items, fabricated from ferrous or nonferrous metal, nickel, chrome cadmium or zinc plated, and shall have ball shaped hook ends (see 3.6.2) Wall hooks shall have one or more prongs and may include a retainer for a hanger rod Under shelf and ceiling hooks shall have 2 or more prongs Each coat hook shall have not less than 2 mounting holes provided

3.3.5 *Hanger rods* Hanger rods shall be not less than 3/8 inch diameter round steel bar, tubing or pipe, having protective hot dipped galvanized coating or electrodeposited zinc cadmium, nickel or chrome plating (see 3.6.2)

3.3.6 *Door handles* Door handles shall be fabricated from ferrous or nonferrous metals and shall be a commercially available design for surface or recess mounting and interconnection to a door latching mechanism In either case, a 3/8 \pm 1/16 inch diameter padlock eye shall be incorporated to immobilize the operating mechanism by means of a padlock A padlock strike shall be incorporated when the padlock eye location would permit an attached padlock to strike the painted locker surface Aluminum alloy handles shall have an anodized satin finish Zinc alloy or steel handles shall be chromium or nickel plated.

3.4 *Design and construction.* Details of design and construction not specifically defined herein shall be left to the discretion

of the manufacturer. Except where otherwise permitted herein, the entire assembly shall be fabricated from steel. All lockers of the same type and size furnished under any one contract or purchase order, including parts and assemblies thereof, shall be identical

3.4.1 *Illustration* Figure 1 is included to illustrate the general appearance of the types I and II lockers and is not intended to restrict exact details of design and construction

3.4.2 *Locker dimensions.* The following plus or minus tolerances shall be applicable to the overall dimensions indicated in 1.2.1

Width—1/16 inch
Depth—1/16 inch
Height—1/8 inch.

When lockers without legs are required (see 3.4.13), the overall locker height specified in 1.2.1 shall be reduced by 6 inches

3.4.3 *Assembly* Assembly of the lockers furnished in the knock-down condition shall be by means of bolts and nuts, spring clips, interlocking of members or by any combination of these methods Alternatively, when set-up lockers are required assembly may be by means of rivets conforming to 3.3.1. When clips, rivets, or bolt and nut assembly is furnished, vertical and horizontal spacing of the fasteners shall not exceed 12 inches on centers All assembly joints on the exterior of the lockers shall be designed so that sheet metal edges shall not be exposed directly at the exterior vertical edges of assembled lockers

3.4.3.1 *Bolts, nuts, and rivets* Heads of bolts used to assemble panel sections and the top and bottom shall be round (truss) head slotless type All bolts regardless of head style, shall be inserted from outside surfaces and secured by self-energizing locknuts or by lockwashers and nuts. Rivets shall have countersunk heads and shall be not less than size 10 with a nominal diameter of 0.134 inch when used to attach hinges. Other rivets used shall have oval or truss heads and a body diameter of at least 5/32 inch.

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3.4.3.2 Spring clips Spring clips shall be a one piece design and shall require access to the locker interior before removal from the outside can be accomplished. The spring clips shall be capable of installation and removal without the need for special tools.

3.4.4 Locker arrangement The lockers shall be furnished in single units or sectional groups as specified (see 6.2). Sectional groups shall consist of 2 or more lockers, side by side and assembled as an integral unit. Type II sectional groups shall not exceed 10 lockers (10 openings) per sectional group. Type II sectional groups shall not exceed 10 double-tier lockers (20 openings) per sectional group. Single partitions may be used between each locker of the sectional groups.

3.4.5 Doors Doors shall be of the louvre type, formed from not less than 16 gauge (0.0598 inch) steel and shall close within a door frame or against formed edges of the locker side panels top and bottom. The doors shall be hinged on the right hand side and shall latch on the left hand side. Each door shall be equipped with a handle specified in 3.3.6, and, unless otherwise specified (see 6.2), a built-in flat key lock conforming to 3.3.2.1, except when a combination lock conforming to 3.3.2.2 is specified (see 6.2). Door handles and built-in locks shall be attached by concealed fasteners slotless truss head bolts, rivets or other methods equally secure against removal from the outside of the closed door.

3.4.5.1 Door flanges All edges of the door shall be flanged not less than 3/4 inch. The flanges shall be of the closed square bead type or 90° flanges with an additional return flange of not less than 1/4 inch in channel formation on the hinge and latch sides. The inside of doors of all lockers 18 inches wide shall have a 22 gage min (0.0299 inch) reinforcing hat section, centrally located laterally and extending the full distance between the top and bottom sets of louvres. The hat section, not less than 5-1/2 inches wide by 1/2 inch deep overall, with a 4-1/2

inch channel section and 1/2 inch flanges, shall be spotwelded to the door with welds located not more than 8 inches on center. Additional flanging will be permitted when considered necessary by the manufacturer.

3.4.5.2 Louvres Each door shall have 2 sets of louvres centrally located laterally. One set starting 3 to 4 inches from the top of the door and the other set starting 3 to 4 inches from the bottom of the door. Type I lockers shall have door louvres sets consisting of from 6 to 9 louvres each. Type II lockers shall have door louvres sets consisting of from 4 to 6 louvres each.

3.4.5.3 Hinges Type I locker doors shall have not less than 3 hinges. Type II locker doors shall have not less than 2 hinges. The required hinges shall be of the fast pin type. Attachment of all hinges to the door and locker shall be so concealed that the hinges are not removable or separable when the locker door is closed. The attached hinges shall permit the door to open at least 160°.

3.4.5.4 Latching mechanism The door latching mechanism shall be of the prelocking type, permitting the latching mechanism to be locked with the door open, by means of a padlock thru the padlock eye of the door handle and when furnished, a built-in lock as well as a padlock. The entire mechanism shall be fully or partially enclosed and mounted inside the door on the vertical latching edge.

3.4.5.5 Padlocks When specified (see 6.2) a padlock shall be furnished for each locker. For civil agency procurement, the padlocks shall conform to FF-P-101 in the specified type and size. For military use, the padlocks shall conform to MIL-P-17802 in the specified style class and size.

3.4.6 Latch strikes Not less than 3 latch strikes shall be provided for the type I locker and not less than 2 for each compartment of the type II locker. The strikes shall be permanently fixed to engage the latching mechanism near the top and bottom of the

door. The remaining strikes, when applicable, shall be located between the top and bottom strikes. The strikes shall be further positioned to preclude any free motion of the closed door and to be shielded from view when the door is closed.

3.4.7 Silencers Replaceable rubber silencers shall be provided on each locker to minimize the noise and metal to metal contact when the locker door is closed. The silencers shall be incorporated at, or in close proximity to each latching point of the locker.

3.4.8 Back and side panels Back and side panels shall each be formed of one piece of sheet metal. Formation of the panels shall be such as to eliminate exposure of sheet metal edges directly at the exterior corners of the assembled locker or at the locker door opening.

3.4.9 Door opening The door opening shall be formed as required to impart strength and rigidity to the side panels top and bottom, and shall serve as a stable mount for the hinged door and door latch strikes. When the door closes within a door frame clearance between the closed door and frame shall not exceed 1/16 inch at the latch side nor 1/8 inch at the top, bottom, and hinge side. When the door closes against the face of the open side, clearance between the face and closed door shall not exceed 1/16 inch at any point and the closed door shall not protrude beyond the top, bottom, and sides of the locker.

3.4.10 Tops Tops shall be flat and formed as required to secure the top to the back, front and side walls.

3.4.11 Shelves The front edge of shelves shall be formed to not less than 1/2 inch diameter, 270° coiled bend, or alternatively, channel formed and flanged with a 3/4 inch front face. The shelf shall be not more than 2-3/8 inches back from the closed door and from that point shall extend full depth and width of the locker interior.

3.4.12 Bottoms Locker bottoms shall be formed as required for assembly to the lockers and reinforced when necessary to meet performance requirements specified herein.

3.4.13 Legs Unless otherwise specified (see 6.2), all lockers shall be provided with legs. Types I and II single unit lockers shall have a leg at each of the 4 corners. Sectional groups shall have not less than one front leg and one back leg for each side panel. The legs shall elevate the lockers 6 inches above the floor and shall incorporate a vertical adjustment feature having a range of not less than 1/2 inch to compensate for irregular floor surfaces. In addition, base pads and floor mounting holes shall be incorporated for use in securing the lockers to the floor.

3.4.14 Number plate An aluminum, brass, or zinc number plate with attaching hardware shall be supplied by the supplier for each locker door. When specified (see 6.2) numbers shall be stamped, embossed or engraved by the manufacturer in accordance with a system or sequence furnished by the contracting officer. The height of numbers shall be not less than 3/8 inch. The manufacturer's name or trademark of such known character as to be easily identifiable with said manufacturer shall appear on the number plate. Unless otherwise specified (see 6.2) number plates will be attached in the field at the time of assembly and installation.

3.4.15 Label holder When specified (see 6.2), each locker shall be equipped with a label holder of satin finish, natural color anodized aluminum, type 430 corrosion-resisting steel, brushed chromium or steel or die cast zinc, brass, or bronze. The label holder shall be secured to the door immediately above the handle by not less than 2 concealed or slotless head machine screws, lockwashers, and nuts. The attached holders shall accommodate label cards not less than 3-1/4 inches wide by 2-1/4 inches high.

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3.4.16 Interior arrangement.

3.4.16.1 *Type I lockers* All type I lockers shall be equipped with a shelf specified in 3.4.11, located 9 to 10 inches below the locker top.

3.4.16.1.1 *Type I, size 1 lockers* In addition to a shelf, coat hooks conforming to 3.3.4 shall be located, one on each side wall, one on the back wall, and one centered under the shelf.

3.4.16.1.2 *Type I, sizes 2, 3, and 4 lockers* In addition to a shelf, the lockers shall have a full width hanger rod conforming to 3.3.5, located 2 to 3 inches below the shelf and midway between the front and back of the locker. Coat hooks conforming to 3.3.4 shall be located one on each side wall and 2 on the back wall.

3.4.16.2 *Type II lockers* Coat hooks for type II lockers shall conform to 3.3.4. Each compartment of the size 1 locker shall be equipped with one ceiling mounted coat hook and one wall mounted coat hook on each side wall. In addition to the foregoing, the size 2 locker shall have 2 additional wall mounted coat hooks on the rear wall.

3.4.16.2.1 *Optional shelves* When specified (see 6.2), in lieu of coat hooks, each compartment of the type II lockers shall be equipped with 2 intermediate shelves conforming to 3.4.11. The shelves shall be located 15-1/2 and 10-1/2 inches, respectively, above the inside bottom of the locker.

3.5 *Finish* All ferrous metal parts of the door latching mechanism shall be painted, hot dip galvanized or electrodeposited zinc or cadmium plated after fabrication and prior to assembly. All other visible ferrous metal surfaces of the knocked-down locker shall be prepared for painting and painted in accordance with requirements hereinafter specified.

3.5.1 *Surface preparation* Surfaces to be painted shall be prepared for painting in accordance with any method of TT-C-490.

3.5.2 *Priming* Except as otherwise indicated in 3.5.3, all prepared surfaces shall be uniformly coated with primer specified in 3.3.3.1.

3.5.3 *Enameling* Primed surfaces shall be coated with enamel specified in 3.3.3.2 and baked as recommended by the enamel manufacturer. The enamel finish shall level out to produce a smooth surface of uniform color and free of runs, wrinkles, grit, blisters, pronounced orange peel, checks, peeling, and color separation. Total dry film thickness of primer and enamel shall be not less than 1.4 mils on all exterior surfaces with no reading less than 1.0 mil on remaining surfaces. Primer may be omitted from any surface prepared in accordance with type I or II of TT-C-490 provided the dry enamel film thickness averages not less than 1.0 mil with no reading less than 0.7 mil, except that doors, front frame and legs shall have an average film thickness of 1.4 mils and no reading less than 1.1 mils.

3.6 Performance characteristics

3.6.1 *Leg stability* When applicable (see 3.4.1.3), the fully assembled lockers, with a 50 lb internal load, shall not reveal any evidence of permanent distortion or failure of legs or any other locker component when dragged across a floor surface in the upright position and across a 3-1/2 inch barrier in the tilted positions, in accordance with the test procedure in 4.4.1. In addition, the floor surface shall reveal no torn or scarred grain resulting from the upright portion of the drag test.

3.6.2 *Static loads* The fully assembled lockers shall withstand static loads indicated in table I without any evidence of permanent distortion or failure of any component or assembly, after application of the static loads applied in accordance with 4.4.2.

Table I. Static loads

Location of load	Load (lbs. min.)
Sides	75
Back	75
Top	100
Bottom	

Table I. *Static loads (cont'd)*

Location of load	Load (lbs min.)
Front edge	225
Center	100
Shelf	50
Coat hooks	50
Hanger rods	50
Doors	200

3.6.3 *Impact loads*

3.6.3.1 *Free fall* Sides of the fully assembled lockers, loaded in accordance with 4 4 3 1, shall withstand a tilt and free fall test conducted in accordance with 4 4 3 1, without any evidence of distortion, functional failure or dislocation of any component, assembly or subassembly

3.6.3.2 *Door locking* The locked and closed door of the fully assembled lockers shall resist all attempts at opening when subjected to mallet blows and impacting in accordance with 4 4 3 2 thru 4 4 3 2.2

3.7 *Identification marking.* Each locker shall have the letters "U S", the specification number, manufacturer's name, Federal stock number, and the date of manufacture stenciled in a plain and legible manner on the inside of the door with white or yellow stencil ink or paint. Alternatively a metal embossed plate or a decal may be used for the identification marking

3.8 *Assembly instruction* One set of comprehensive assembly instructions imprinted on white paper, shall be furnished in each individual unit package or sectional unit package as applicable

3.9 *Workmanship* The finished lockers shall be clean and free from any defects affecting serviceability or safety of the users. All surfaces and edges of the knocked-down and assembled lockers accessible to erection personnel and users shall be free of sharp edges and burrs. Assembly of the lockers shall be accomplished using regular hand tools such as screwdrivers and wrenches. The fit of components and the alignment of

holes shall be such as to negate the need to modify any component or to require the use of exceptional force to assure proper alignment of component parts. The assembled lockers shall not reveal any visible evidence of twists, buckle or out of square conditions

4 QUALITY ASSURANCE PROVISIONS

4.1 *Responsibility for inspection.* Unless otherwise specified in the contract or purchase order, the supplier is responsible for the performance of all inspection requirements as specified herein. Except as otherwise specified, the supplier may utilize his own facilities or any commercial laboratory acceptable to the Government. The Government reserves the right to perform any of the inspections set forth in the specification where such inspections are deemed necessary to assure that supplies and services conform to prescribed requirements

4.2 *Preproduction sample inspection.* When a preproduction sample is required, it shall be examined for defects in tables III and IV, dimensions specified, and tested as specified in 4 4 thru 4 4.3.2.2

4.3 *Sampling for inspection.* Sampling for inspection shall be performed in accordance with the provisions set forth in MIL-STD-105, except where otherwise specified herein.

4.3.1 *Component and material inspection* In accordance with 4.1, components and materials shall be inspected and tested in accordance with all the requirements of referenced specifications, drawings and standards unless otherwise excluded, amended, modified or qualified in this specification or applicable purchase document

4.3.2 *In-process examination* Examination shall be made during the manufacturing process, for the requirements in table II, to establish that no deviation is made from indicated requirements. When nonconformance is noted, correction shall be made to affected items and process

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Table II. *In-process examination*

Requirements	Requirement paragraph
Surface preparation	3 5 1
Application of primer	3 5 2 and 3 5 3
Baking of enamel	3 5 3

4.3.3 *Inspection of the end item.* The lot shall be all lockers of the same type, size, and style offered for inspection at one time. Except as otherwise permitted in 4.3.3.4, the sample unit shall be one locker or one sectional group, as applicable.

4.3.3.1 *Visual examination.* The knocked-down locker shall be examined for defects in table III. The inspection level shall be I, with an acceptable quality level (AQL) of 2.5 for major defects and 10.0 for total defects, expressed in terms of defects per hundred units.

Table III. *Classification of defects of knocked-down lockers*

Examine	Defect	Classifier	
		Major	Minor
Finish paint	Indication of rust	X	
	Poor adhesion, i.e., blistered, chalking, or peeling		X
	Tacky (not dry to touch)		X
	Wrong color		X
	Foreign matter imbedded		X
	Not uniform color and coverage		X
	Runs or wrinkles		X
	Pronounced orange peel		X
	Scratch through to base metal		X
	Blistered, chalking or peeling		X
	Metallic coatings	Not coated as specified	
Poor adhesion, i.e., blistered, peeling, flaky			X
Construction and workmanship	Any part or component missing	X	
	Any part or component malformed or damaged	X	

Table III. *Classification of defects of knocked-down lockers (cont'd)*

Examine	Defect	Classification	
		Major	Minor
Doors	Any rough or sharp edges and burrs	X	
	Not louvre type	X	
	Not hinged or right hand side and latched on left hand side	X	
Louvres	Less than 2 set per door		X
	More or less than specified quantity of louvres per set		X
Built-in lock (when applicable)	Not attached as specified	X	
	Keys missing for keyed lock	X	
	Master keys not furnished for keyed locks		X
Handles	Handle not attached as specified, i.e. can be removed from outside of door	X	
Flanges	Not flanged as specified	X	
	Return flange on hinge side and latch side omitted (when applicable)		X
	Reinforcing hat section omitted on 18 inch lockers	X	
Hinges	Less than specified number	X	
	Required hinges not fast pin type	X	
	Attachment not concealed		X
Latching mechanism	Not fully or partially enclosed on vertical latching edge		X
Latch strikes	Less than specified number	X	
	Location not as specified		X
Silencers	Not replaceable		X
	Not located as specified		X
Backs and sides	More than one missing	X	
	Backs not one piece construction	X	
	Sides not one piece construction	X	

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Table III. Classification of defects of knocked-down lockers (cont'd)

Examine	Defect	Classification	
		Major	Minor
Tops	Tops not flat -----		X
Shelves	Front edge not formed as specified (coil bend or channel form and flanged) -		X
Legs (when applicable)	Not specified quantity -----	X	
	Vertical adjustment provisions missing		X
	Floor mounting holes not provided -----		X
Number plates	Not marked as specified -----		X
	Not attached or not furnished unattached as applicable -----		X
Label holders (when required)	Not specified finish --		X
	Not attached or not attached above door handles -----		X
	Not attached by concealed or slotless head machine screws, lockwashers and nuts -----		X

4.3.3.2 *Visual examination of assembly and assembled locker* Knocked down lockers shall be erected in accordance with the supplier's assembly instruction sheet and examined for defects in table IV. The sample unit shall be one locker or sectional group as applicable. The inspection level shall be S-2 with an AQL of 2.5 expressed in terms of defects per hundred units.

Table IV. Visual defects of assembly and assembled lockers

Examine	Defect
Assembly of lockers	1/Requires special tools for erection 1/Not easily assembled, i.e., requires modification, excess force, or enlargement of holes Not assembled by rivets (when applicable, see 3.3.1), threaded

Table IV. Visual defects of assembly and assembled lockers (cont'd)

Examine	Defect
	fasteners, clips, interlocking of members or a combination of same Any component or fastener missing Exposed sheet metal edges directly at the vertical outside edges of backs and sides or at door opening Any malfunctioning of fastening device. Assembly twisted, buckled, or visibly out of square Not prelocking type. Padlock strikes any painted surface (use padlock having shackle 7/32 to 1/4 inch diameter by 1 1/16 to 3/4 inch long) Does not engage all latch strikes Closed door extends beyond the sides, top or bottom of locker Hinge mounting not concealed Door opens less than 160° Any free motion of closed door Latch strikes or latches visible on closed door Any metal to metal contact between door and door stop Missing, incorrect, illegible, wrong color, or method of application. Missing, illegible, or incorrect.
Doors	
Marking for identification	Missing, incorrect, illegible, wrong color, or method of application.
Assembly instructions	Missing, illegible, or incorrect.

1/Applicable when lockers are to be furnished in the knocked-down condition

4.3.3.3 *Dimensional examination* Assembled lockers shall be examined for compliance with specified dimensions. Any deviation from specified dimensions shall constitute a defect. The inspection level shall be S-2 with an AQL of 2.5 expressed in terms of defects per hundred units.

4.3.3.4 *Testing of the end item.* Assembled lockers shall be tested as specified in 4.4 thru 4.4.3.2.2. The inspection level shall be S-2 with an AQL of 2.5, expressed in terms of defects per hundred units. When sectional groups over two lockers wide are applicable, single unit lockers may be substituted for

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est purposes, provided the lockers tested are identical to the sectional groups in all other respects

4.3.4 *Examination of preparation for delivery* Tests shall be performed as required in PPP-P-15 to determine compliance with requirements specified therein. In addition, visual examination shall be made for defects specified in table V. The sample unit or this examination shall be one shipping container fully prepared for delivery, except that it need not be sealed. Defects of closure shall be examined on shipping containers fully prepared for delivery. The lot shall be all containers offered for acceptance at one time. The inspection level shall be S-2 with an AQL of 4.0, expressed in terms of defects per hundred units.

Table V *Examination of preparation for delivery*

Examine	Defect
Marking	Missing, incorrect, illegible, of improper size, location, sequence, or method of application.
Materials	Component missing or damaged
Workmanship	Inadequate application of components such as container flaps, loose strapping, inadequate or missing barrier material, inadequate stapling, bulging or distortion of containers, blocking or bracing inadequate, missing, or improper. Components improperly secured.
Contents	Contents per container more or less than required.

4.4 Tests Tests shall be performed on fully assembled lockers with attached legs when required in the following order to determine compliance with requirements under 3.6

4.4.1 *Legs* A fifty pound sandbag shall be placed in the bottom of each locker and the door (or doors) closed. The locker shall then be dragged, in the upright position, not less than 10 feet across the grain of a hardwood floor surface. The locker shall then be tilted from the upright position to a convenient dragging angle (approximately 20° from

the horizontal) and dragged across a barrier fixed to the floor, 3-1/2 inches square by 4 feet long. The locker shall be dragged so that both legs contact the floor and block, as applicable, at the same time. This test shall be repeated until the legs on all four sides have been subjected to the resulting 3-1/2 inch impact drop (see 3.6.1)

4.4.2 *Static loads* Static load tests for the back and sides shall be performed with the locker in the horizontal position and the test surface facing up. The remaining test shall be performed with the locker upright. All test loads, except the bottom front edge (see 4.4.2.3), shall be applied by means of sandbags (see 3.6.2)

4.4.2.1 *Sides and back* Not less than a 75 lb test load shall be applied to the sides and back for not less than 5 minutes each, midway between supports and shall be retained within the area circumscribed by a 10 inch diameter circle.

4.4.2.2 *Top, bottom, center, and shelf* Test loads of not less than 100 lbs for the top, not less than 100 lbs for the bottom center, and not less than 50 lbs for the shelf shall be applied simultaneously for not less than 5 minutes, midway between supports, and shall be retained within an area not to exceed the area circumscribed by a 10 inch diameter circle.

4.4.2.3 *Bottom front edge* During conduct of the test in 4.4.2.2, an additional test load of not less than a 225 lb shall be applied not less than 6 times, to represent a user stepping on and off the center of the bottom front edge. On type II double-tier lockers the test shall apply to the bottom front edge of the lower unit.

4.4.2.4 *Doors* During conduct of the test in 4.4.2.2, a 200 lb test load shall be suspended from the door by a rope located not more than 3 inches back from the latch side of the top edge of the door. In a normal manner, the door shall then be pivoted on its hinges, back and forth, at least 150° in each direction and not less than 6 times each way. To preclude tilting or upsetting during this

test, counterweights may be placed within the locker

4.4.2.5 Coat hooks The installed coat hooks may be tested simultaneously or separately. A 50 lb test load shall be suspended by a rope from the coat hook for not less than 5 minutes. The test load for multiple prong coat hooks may be equally distributed between the individual hooks.

4.4.2.6 Hanger rods When the hanger rod is retained by coat hooks, the test load shall be applied to the hanger rod while the hanger rod and coat hooks are being tested (see 4.4.2.5). A 50 lb test load shall be suspended by a rope at the center of the hanger rod for not less than 5 minutes.

4.4.3 Impact loads

4.4.3.1 Free fall With a 50 pound sandbag on the bottom of the closed locker and a 25 pound sandbag on the top shelf when applicable manually tilt the locker to its point of balance. At this point allow the locker to fall free to a smooth concrete floor surface. This test shall apply to the back and 2 sides only (see 3.6.3.1).

4.4.3.2 Door locking With the door open insert a 3/16 inch diameter rod, shackle or padlock with a 3/16 inch diameter shackle, through the door handle padlock eye. Close the door and proceed in accordance with 4.4.3.2.1 and 4.4.3.2.2 to determine compliance with 3.6.3.2. When doors with built-in locks are required the tests shall be repeated after prelocking the door.

4.4.3.2.1 Hammer blows Alternately strike the closed locker door and door frame with moderate blows from a 24 ounce rubber mallet throughout the perimeter of each component (door and door frame) while manipulating the door handle in every possible manner in an attempt to open the door. This test shall be conducted with the locker in the upright position and in the inverted position.

4.4.3.2.2 Impact Elevate the closed locker 6 to 8 inches above an unpadded floor, in the

upright and inverted positions; release in a free fall and simultaneously attempt to open the door.

5 PREPARATION FOR DELIVERY

5.1 Packaging, packing and marking. Unless otherwise specified (see 6.2), lockers shall be shipped knocked-down. Packaging, packing and marking for level A, B, or C shall be in accordance with PPP-P-15.

6. NOTES

6.1 Intended use. The lockers covered by this specification are intended to be used for storing the clothing and personal effects of personnel in barracks, gymnasiums, schools, hospitals, shops, office buildings and other similar types of structures.

6.2 Ordering data. Purchasers should select the preferred options permitted herein and include the following information in procurement documents:

- (a) Title, number, and date of this specification
- (b) Type, size, and style locker required (see 1.2 and 3.4.4)
- (c) When a preproduction sample is required (see 3.1)
- (d) Key changes for built-in flat key locks when other than specified (see 3.3.2.1)
- (e) Number of master keys required, when applicable (see 3.3.2.1)
- (f) Color required if other than specified (see 3.3.3.2)
- (g) When sectional groups are required specify the number of units per sectional group (see 3.4.4)
- (h) When built-in flat key locks are not required or when built-in combination locks are required, as applicable (see 3.4.5)
- (i) When required, specify type and size padlocks required (see 3.4.5.5)
- (j) When legs are not required (see 3.4.1.3)

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- (k) When number plates are to be numbered by the supplier and when number plates are to be attached before shipment of lockers (see 3 4 14)
- (l) When optional shelves for type II lockers are required (see 3 4 16 2 1)
- (m) When label holders are required (see 3 4 15)
- (n) When lockers are to be shipped assembled (see 5 1)
- (o) Selection of applicable levels of packaging and packing required (see 5 1)

CUSTODIANS:

Army—GL
Air Force—69

Review activities:

Army—GL
Air Force—69

Preparing activity.

Army—GL

User activity

Army—CE, MD

Review and user information is current as of the date of this document. For future coordination of changes to this document, draft circulation should be based on the information in the current Federal Supply Classification Listing on DOD Standardization Documents.

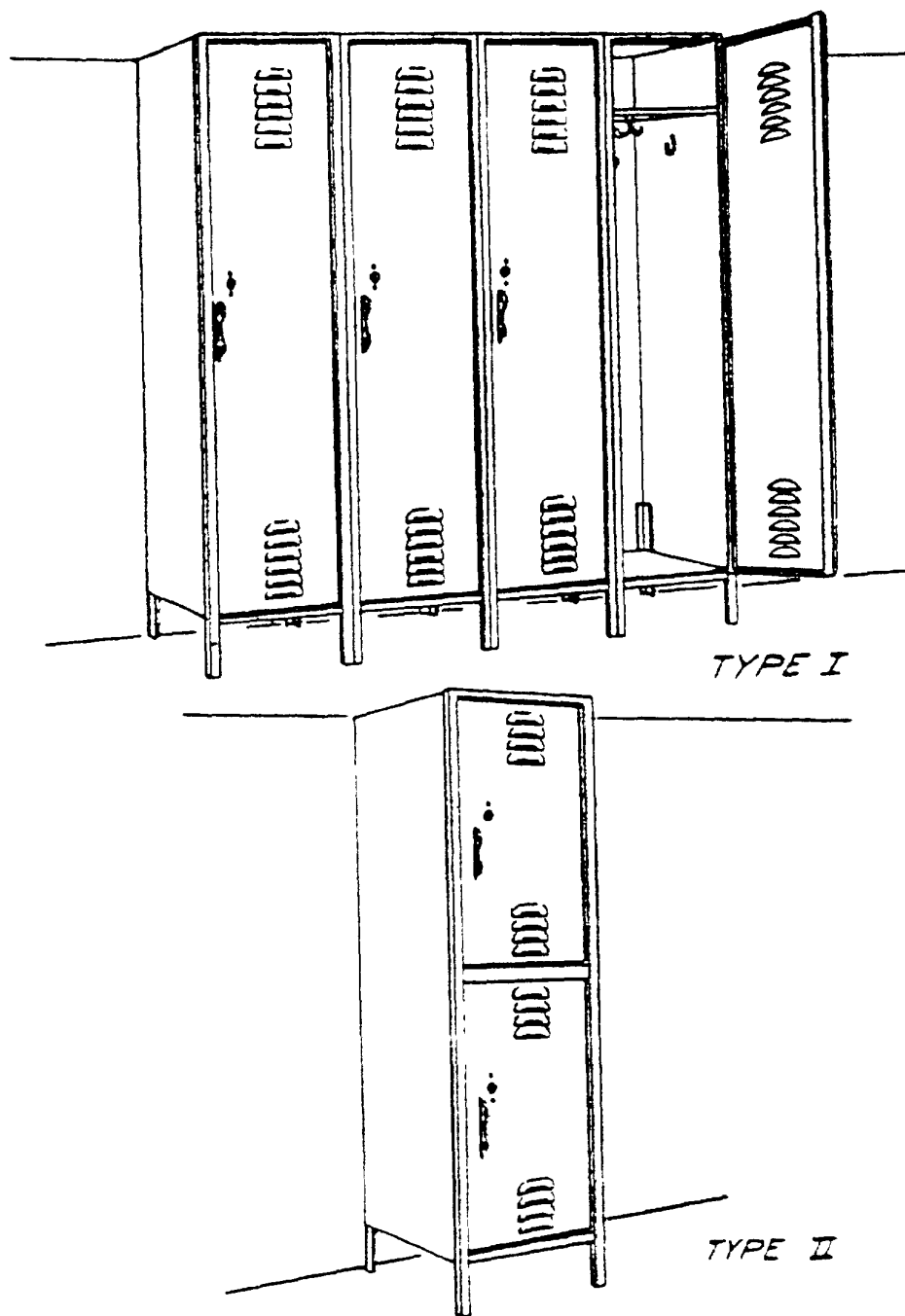


Figure 1. Lockers, clothing, steel

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