

WW-P-541/8B  
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SUPERSEDING  
Fed. Spec. WW-P-541/8A  
October 12, 1971

FEDERAL SPECIFICATION SHEET

PLUMBING FIXTURES (ACCESSORIES, LAND USE)  
(DETAIL SPECIFICATION)

This specification forms a part of the latest issue of Federal Specification WW-P-541/GEN.

1. SCOPE AND CLASSIFICATION

1.1 Scope. This specification covers specific requirements for accessories.

1.2 Classification.

1.2.1 Types, classes, styles, and mountings. Accessories shall be of the following types, classes, and styles, as specified (see 6.1).

Type I - Dispensers.

Class 1 - Seat cover, toilet tissue - and sanitary napkin disposal.

Style P - Partition mounted.

Style R - Recessed mounted.

Style S - Surface mounted.

Class 2 - Seat cover.

Style P - Partition mounted.

Style R - Recessed mounted.

Style S - Surface mounted.

Class 3 - Seat cover and sanitary napkin disposal.

Style P - Partition mounted.

Style R - Recessed mounted.

Style S - Surface mounted.

Class 4 - Facial tissue.

Style R - Recessed mounted.

Style S - Surface mounted.

Class 5 - Sanitary napkin and tampon.

Mounting R - Recessed mounted.

Mounting S - Surface mounted.

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Type II - Waste receptacles.

Style S - Surface.

Style R - Recessed.

Style P - Partition.

Type III - Medicine cabinets.

Class 1 - Slide door.

Class 2 - Swing door.

Style R - Recessed.

Style S - Surface.

Type IV - Bar, surface mounted.

Class 1 - Towel.

Class 2 - Grab.

Class 3 - Soap and bar combination.

Type V - Shelf, single, surface mounted.

Class - 1 - Glass.

Class - 2 - Metal.

Type VI - Holder.

Class 1 - Soap, surface mounted.

Class 2 - Soap, recessed.

Class 3 - Toothbrush.

Class 4 - Toothbrush and tumbler.

1.2.2 Definitive part number (DPN). DPNs have not been established for the plumbing fixtures covered by this specification sheet. The items covered herein are not normally stocked and issued but rather are ordered for specific application and require that option decision be made regarding specific installation criteria. This is best controlled through use of ordering data options (see 6.1).

1.2.3 Deleted accessories. For accessories formerly covered by this specification sheet, see 6.3.

## 2. APPLICABLE DOCUMENTS

2.1 Latest issue of WW-P-541/GEN and documents referenced therein.

## 3. REQUIREMENTS

3.1 Material. Materials shall meet the requirements in the basic specification WW-P-541/GEN and as specified herein.

3.1.1 Material, type I, dispensers. All type I dispensers shall be porcelain enameled steel, baked enamel coated steel, stainless steel, or plastic.

### 3.2 Type I, class 1, 2 and 3.

3.2.1 Construction. Dispensers shall be constructed for horizontally folded seat covers. When specified (see 6.1), dispensers shall be constructed to dispense seat cover tissues that are half-folded, quarter-folded, or mounted on a roll.

3.2.1.1 Styles 1, 2 and 3 horizontally folded seat covers. Dispensers shall be formed stainless steel sheet. Dispensers shall have an opening on the door for dispensing seat cover tissue. Dispensers with sanitary napkin disposal shall include a swinging door for inserting disposed napkins, and a locked door on the bottom receptacle compartment. Class 1 dispensers shall include a dispenser for single-fold toilet tissue. Recessed dispensers shall be constructed for installation in walls or water closet partitions.

### 3.2.2 Capacity.

#### 3.2.2.1 Class 2.

3.2.2.1.1 Horizontally folded seat cover dispensers. Wall mounted seat cover dispensers shall have a minimum capacity for 200 seat covers. Partition mounted dispensers shall have a minimum capacity for dispensing 500 covers on each side of the partition.

3.2.2.2 Classes 1 and 3. Combination seat cover dispenser and sanitary napkin disposal units shall have a minimum capacity for 500 single-fold or half-fold seat covers. Capacity of the cabinet space for sanitary napkins shall be at least 600 cubic inches. Partition mounted combination units with seat cover dispenser, toilet tissue dispenser, and sanitary napkins disposal shall have a minimum capacity for 1,000 half-fold seat covers for dispensing 500 covers on each side of the partition, and a capacity for dispensing 1,000 single-fold toilet tissue. Capacity of the sanitary napkin disposal space shall be at least 400 cubic inches.

### 3.2.3 Size.

3.2.3.1 Classes 1, 2, and 3. Outside front dimensions of the dispenser shall be as follows:

Style	Length inches	Height inches	Depth inches
Surface, seat cover only.	15	10-3/4	2-3/8
Recessed, seat cover only.	15	20-3/4	2-3/4
Recessed, seat cover and napkin disposal.	15	10-3/4	4
Partition, seat cover and napkin disposal	15	10-3/4	4-1/4

Tolerance on length, height, and depth shall be  $\pm 1/8$  inch. Dimensions of the napkin disposal container shall be at the manufacturer's option.

3.2.3.2 Class 2, vertically folded seat cover dispenser. Dimensions of the dispenser shall be at the manufacturer's option.

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3.2.4 Style R, recessed. Recessed units, styles and M shall have flanges  $1 \pm 1/8$  inch wide on the facing perimeter.

3.2.5 Door hinges. All door hinges shall be continuous and shall be of the same material as the door.

3.2.6 Locks. Seat cover dispenser compartment and sanitary napkin disposal compartment shall be equipped with self-closing locks. Two duplicate keys shall be furnished with each complete unit.

3.2.7 Fastening holes. Size, number, and location of fastening holes or slots shall be at the manufacturer's option.

3.2.8 Finish, seat cover dispensers.

3.2.8.1 Classes 1 and 3. Stainless steel dispensers shall have a No. 4 general-purpose polished finish on all exposed surfaces or may have a plastic coated steel door.

3.2.8.2 Class 2. Dispensers for vertically folded seat covers shall be chromium plated or painted. Thickness of the electroplate shall be at the manufacturer's option. Hue, value, and chroma of painted dispensers shall be at the manufacturer's option.

3.3 Class 4, facial tissue dispensers.

3.3.1 Style S, surface. Dispensers shall accommodate a box of 300 two-ply facial tissues. Construction of dispensers shall be at the manufacturer's option.

3.3.2 Style R, recessed.

3.3.2.1 Construction. Containers shall be formed from carbon steel sheet and the face shall be formed from stainless steel sheet. Face shall be secured by friction with suitable spring steel clips. Containers shall have mechanically soldered or welded joints.

3.3.2.2 Face of dispensers. The face of dispensers shall be  $11-7/16 \pm 1/2$  inches long by  $6-1/4 \pm 1/16$  inches high. Dimension and shape of the dispensing slot shall be at the manufacturer's option.

3.3.2.3 Container dimensions. Exterior dimensions shall be as follows:

Length -  $10-5/8 \pm 3/8$  inches.

Depth -  $4 \pm 1/8$  inches for 300 tissues

$2-1/2 \pm 1/8$  inches for 200 tissues.

Height -  $5-1/4 \pm 3/8$  inches.

3.3.2.4 Capacity. Containers shall hold a box of 200 to 300 two-ply facial tissues.

3.3.2.5 Finish. Face of dispensers shall have a No. 4 general-purpose polished finish or a No. 8 reflective finish. Concealed carbon steel parts of container shall be zinc-coated. Weight of zinc shall be at the manufacturer's option.

### 3.4 Class 5, sanitary napkin and tampon dispensers.

#### 3.4.1 Construction, styles S and R.

3.4.1.1 Style S, surface. Dispensers shall be formed from stainless steel or carbon steel sheet. Cabinets shall be formed from a single steel sheet.

3.4.1.2 Style R, recessed. Dispensers shall be formed from stainless steel sheet. Cabinets shall be formed from a single sheet of steel or shall have joints that are mechanically formed, spot welded, or welded using MIG or TIG methods. Flanges shall be 1  $\pm$  3/16 inch wide.

3.4.1.3 Dispensing mechanism. Design of operating mechanism and shape of knobs and handles shall be at the manufacturer's option.

3.4.1.3.1 Dispensing slots. Number and size of dispensing slots shall be at the manufacturer's option.

3.4.1.3.2 Fastening holes. Size, number, and location of fastening holes shall be at the manufacturer's option.

3.4.1.3.3 Door hinges. All door hinges shall be continuous and shall be attached by spot welding or by any other suitable method. Length of hinges shall be at the manufacturer's option.

3.4.2 Exterior dimensions. Dimensions of dispensers shall be at the manufacturer's option.

3.4.3 Capacities. Surface and recessed mounted dispensers shall have the following minimum capacities, as specified (see 6.1).

- (a) 22 napkins.
- (b) 30 napkins.
- (c) 15 napkins or 20 tampons.
- (d) 15 napkins and 22 tampons.
- (e) 15 napkins and 50 tampons.
- (f) 20 napkins and 20 tampons.
- (g) 30 napkins and 27 tampons.

Volume of disposal container below the door opening shall be 0.2 cubic feet or greater.

3.4.4 Operating mechanism. The operating or dispensing mechanism shall be for complimentary use or coin operated, as specified (see 6.1). Type and number of coins shall be as specified (see 6.1).

3.4.5 Locks. Locks shall be point or tumbler type. Duplicate keys shall be furnished with each lock on dispensers. Keys for coin box shall be different from the door keys.

3.4.6 Finish. Surface mounted and recessed stainless steel dispensers shall have a No. 4 general-purpose polished finish on all exposed surfaces or shall have doors with a white plastic coat. Pattern and color of plastic coat

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shall be at the manufacturer's option. Surface mounted carbon steel dispensers shall have a white baked enamel finish. Thickness of the total painted coat shall be 1 mil or greater and value of white shall be at the manufacturer's option.

### 3.5 Type II, waste receptacles.

3.5.1 Materials, type II waste receptacles. Waste receptacles shall be porcelain enameled steel, baked enamel coated steel, stainless steel, or plastic.

#### 3.5.2 Construction.

3.5.2.1 Style S, surface. Details of wall and floor surface mounted receptacles including material, shape, and capacity shall be as specified (see 6.1). Receptacles equipped with other accessories such as paper towel dispensers shall also be as specified (see 6.1).

3.5.2.2 Styles R and P recessed and partition. Receptacles shall be formed from stainless steel sheet. Cabinets shall be formed from a single sheet of steel or shall have joints that are mechanically formed, spot welded, or welded using MIG or TIG methods. Receptacles with flanges shall have flanges that are 1  $\pm$  1/8 inch wide.

#### 3.5.3 Dimensions of receptacles, style R.

3.5.3.1 Recessed receptacle, 0.3 cubic foot capacity. Outside recessed dimensions shall be 16  $\pm$  1/4 inches in height, 12  $\pm$  1/8 inches in width, and 4  $\pm$  1/16 inches in depth.

3.5.3.2 Recessed receptacle, 1.6 cubic foot capacity. Outside recessed dimensions shall be 47 to 49 inches in height, 12 to 14 inches in width, and 7-3/4  $\pm$  1/4 inches in depth.

3.5.3.3 Semi-recessed, open at top. Recessed outside dimensions shall be 28-5/8 to 30-5/8 inches in height and 15-3/16  $\pm$  1/16 inches in width. Depth and capacity shall be in accordance with Table I.

TABLE I. Capacity and depth of semi-recessed receptacles with open top.

Capacity, minimum cubic feet	Recessed depth <sup>1/</sup> inches	Extension from wall inches
1.6	2-3/4	5-7/16
1.6	3-3/4	4-1/2
2.4	3-3/4	8-1/4
2.4	7-7/32	4
2/4	3-3/4	8-1/16

<sup>1/</sup> Dimensional tolerances on recessed depth shall be  $\pm$  1/16 inch, except for depth of 7-7/32 inches which shall have a tolerance of  $\pm$  1/4 inch.

3.5.3.4 Semi-recessed, push door. Receptacles shall have a capacity of 1.0 cubic foot. Dimensions shall be as follows:

Recessed dimensions, inches	Overall dimensions, inches
Height 25-1/8 +1/8	30-5/8 +1/8
Width 10-3/4 +1/8	17-13/16 +1/8
Depth 3-1/2 +1/16	7-3/4 +1/16

3.5.4 Style P, partition. Partition mounted receptacles shall have a push door on each side. Recessed height shall be 15 to 18 inches and width 8 to 10-1/2 inches. Overall depth shall be at the manufacturer's option. Capacity of container shall be 0.2 cubic feet or greater. Receptacle shall be suitable for mounting in partitions 3/4 to 1-5/8 inches in thickness.

3.5.5 Doors. Receptacles with push doors and doors for access to the waste compartment shall have continuous hinges. Hinges shall be secured by spot welding or any other suitable method. Length of hinges shall be at the manufacturer's option.

3.5.6 Locks. Receptacles with door for access to the waste compartment shall have a tumbler lock on the door. Two keys shall be furnished with each receptacle.

3.5.7 Finish, waste receptacles. All exposed stainless steel surfaces shall have a No. 4 general-purpose polished finish or doors shall be covered with white plastic. Pattern of plastic shall be at the manufacturer's option.

### 3.6 Type III, medicine cabinets.

#### 3.6.1 Materials, type III, medicine cabinets.

3.6.1.1 Cabinet body. Cabinet shall be plain carbon steel sheet.

3.6.1.2 Shelf supports. End supports for shelves shall be plain carbon steel, stainless steel, or aluminum alloy.

3.6.1.3 Shelves. Shelves shall be any of the following materials:

- (a) Sheet glass.
- (b) Plate or float glass.
- (c) Stainless steel.
- (d) Aluminum alloy.

#### 3.6.1.4 Doors.

3.6.1.4.1 Slide doors. Doors shall be mirror glazing quality glass. Door pull, tracks, and frames shall be of any suitable material.

3.6.1.4.2 Swing doors. Doors shall be mirror glazing quality glass framed by any suitable material. Door hinges shall be stainless steel or carbon steel. Magnets used in door catches shall be permanent type.

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3.6.2 Construction, styles S and R. Cabinets shall be constructed with cold-rolled carbon steel sheet formed from a single sheet of steel or shall have mechanically formed, spot welded, or any other suitable joints. All interior joints shall be closed.

3.6.3 Dimensions, medicine cabinets.

3.6.3.1 Style S, surface. Width, height, and depth of cabinets shall be as specified (see 6.1).

3.6.3.2 Style R, recessed. External recessed width shall not exceed 14-3/8 inches. Height and depth shall be at the manufacturer's option.

3.6.4 Shelf supports. Shelf supports shall be designed to prevent the shelf from tipping or sliding forward.

3.6.5 Shelves. When glass shelves are furnished they shall have heat strengthened longitudinal edges.

3.6.6 Toothbrush holder, and razor blade slot. Design and location of the toothbrush holder, and razor blade slot shall be at the manufacturer's option.

3.6.7 Mirrors. Mirror on doors and accessory mirrors shall be plate, sheet or float glass at the manufacturer's option.

3.6.8 Electrical accessories. Cabinets provided with electrical accessories shall be UL listed as complete unit in the Electrical Appliance and Utilization List. Electrical outlets shall be the grounded type.

3.6.9 Class 1, sliding door cabinets.

3.6.9.1 Design. Cabinets shall be vanity assemblies or cabinet assemblies and design of each including size, usable space, and lighting arrangement shall be as specified (see 6.1).

3.6.9.2 Mounting, vanity cabinets. All vanity cabinets shall be surface mounted.

3.6.9.3 Shelves. Vanity cabinets shall have two shelves. Cabinet assemblies shall have two or more shelves.

3.6.9.4 Frame. The mirror may have a wide or narrow frame or shall be without a frame.

3.6.9.5 Slide tracks. Tracks shall be provided at the top and bottom, and extend the full width of the cabinet.

3.6.9.6 Slide doors. Each door shall be provided with a ground slot, suitable knob, or handle for opening or closing. Doors shall open, and close against suitable bumpers.



### 3.6.10 Class 2, swing door cabinets.

3.6.10.1 Design. Design of cabinet assemblies including size, usable space, and lighting arrangement shall be as specified (see 6.1).

3.6.10.2 Shelves. Cabinets shall have three or more shelves.

3.6.10.3 Cabinets. Cabinets shall be located centrally behind the door or shall be on each side of the mirror at the manufacturer's option.

3.6.10.4 Doors. Doors shall have a mirror. Door hinges shall be at the manufacturer's option.

3.6.10.5 Back of doors. Doors with steel back shall be cold rolled steel sheet.

3.6.10.6 Door catch and stop. The door shall be provided with a suitable catch, latch, or magnetic device to hold the door in closed position. A suitable door stop or device shall be provided to prevent door from swinging open more than 100° from closed position.

3.6.11 Finish, classes 1 and 2. Cabinet bodies and doors with steel backs shall be zinc coated, phosphate treated, chromate primed, and finished with a coat of baked-on enamel. Thickness of paint shall be 1 mil or greater and color shall be white. Value of white shall be at the manufacturer's option. Steel and copper alloy parts that are not painted shall be cadmium or chromium plated.

### 3.6.12 Performance, type III, medicine cabinets.

3.6.12.1 Shelf supports. Supports shall be capable of preventing dislodgement of the shelf from the supports while supporting a 5 pound (1b) weight when tested in accordance with 4.4.1.1.

3.6.12.1.1 Shelves. Shelves shall not deflect more than 1/2 inch and shall not have a visible permanent set when tested in accordance with 4.4.1.2.

3.6.12.1.2 Class 2. When cabinet is tipped or leaned over, the door shall remain in closed position (see 4.4.1.3).

### 3.7 Type IV, bars, surface mounted.

3.7.1 Material, type IV, surface mounted. Towel and grab bars shall be stainless steel, or copper alloy. Soap dishes for soap and bar combination may be plastic, and brackets for supporting the bar shall be stainless steel, aluminum alloy, copper alloy, or die-cast zinc alloy.

#### 3.7.1.1 Class 1, towel bars.

3.7.1.2 Bars. Bars may be formed with an unwelded seam or may be seamless at the manufacturer's option.

3.7.1.2.1 Shape. Bars shall be round, square, or any other suitable cross-section. Square bars shall be 5/8 or 3/4 inch on a side for bars 18 and 24 inches in length at the manufacturer's option. Round bars shall be 3/4 inch in diameter (see 4.3.1.2).

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3.7.1.2.2 Length. Length of bars shall be 18, 24, 30, or 36 inches long, as specified (see 6.1).

3.7.1.2.3 Thickness. Thickness of bars (tubes) shall be as follows:

- (a) Stainless steel - 0.015 inch or greater.
- (b) Chromium plated copper alloy - 0.020 inch or greater including thickness of the coating.
- (c) Aluminum alloy - 0.028 inch or greater.

Chromium plated bars and supports shall have a bright or satin finish. Aluminum bars and brackets shall have a clear anodic finish.

3.7.2 Class 2, grab bars.

3.7.2.1 Bars. Copper alloy tubes shall be 7/8, 1, or 1-1/4 inches outside diameter, as specified (see 6.1). Stainless steel tubes shall be 7/8, 1, 1-1/4, or 1-1/2 inches outside diameter, as specified (see 6.1). Unless otherwise specified (see 6.1), bars shall be seamless.

3.7.2.1.1 Form. Grab bars shall be the following forms, or any other suitable form, as specified (see 6.1):

- (a) Straight.
- (b) 90°, right hand.
- (c) 90°, left hand.
- (d) 45°, right hand.
- (e) 45°, left hand.
- (f) Side bar with outrigger.
- (g) Wall to floor bar with outrigger.
- (h) Wall to floor bar with socket.
- (i) Horizontal angle bar.
- (j) Tub bar.
- (k) Two way tub bar.
- (l) Straddle bar.
- (m) Horizontal shower bar.
- (n) Inside corner angle bar.
- (o) Outside corner angle bar.

3.7.2.1.2 Dimensions of bars. Length of straight bars and dimensions of angulated bars shall be as specified (see 6.1).

3.7.2.2. Support bars. Support bars (tubes) shall be joined to grab bars by suitable tube fittings or by welding. Welded joints shall be braze welded, resistance welded, or welded by the MIG OR TIG methods at the manufacturer's option.

3.7.2.3 Flanges. Exposed flanges shall braze welded to grab bars or joints shall be welded by the MIG or TIG welding methods. Flange shall have exposed screw mounting holders on the face or concealed on the lip of flanges. Shape of flanges shall be at the manufacturer's option.

3.7.2.4 Mounting plates. Design of mounting plates including shape and size of holes or slots for accommodating various types of fasteners shall be

at the manufacturer's option. Grab bar and mounting plates shall be securely anchored to a permanent surface or structural member. Space between wall and grab bar shall be  $1\frac{1}{2}$   $\pm$   $\frac{1}{8}$  inches.

3.7.2.5 Finish, grab bars, support bars, flanges and mounting flanges. Grab bars shall have a nonslip finish. Nonslip finish shall be knurled, peened, or roughened by any other suitable method. Copper-alloy grab bars, support bars, and exposed surfaces of flanges shall have a bright chromium plated finish. Stainless steel grab bar, support bars, and exposed surfaces of flanges shall have a No. 4 general-purpose polished finish or a No. 8 reflective finish. Mounting plates shall be zinc coated. Weight or thickness of the zinc coat shall be at the manufacturer's option.

### 3.7.3 Class 3, soap and bar combination.

3.7.3.1 Length and cross-sectional shape. Bars shall be  $9\frac{1}{4}$  inches long between centers of supports, and shall be  $\frac{3}{4}$  inch square or  $\frac{3}{4}$  inch round at the manufacturer's option.

#### 3.7.3.2 Thickness.

3.7.3.3 Supports. Shape of bar supports shall be at the manufacturer's option.

3.7.3.4 Soap dish. Soap dish shall have drain holes of any suitable shape, size, and number. Molded plastic soap dish shall be clear or transparent.

### 3.7.3.5 Finish, soap and bar combination.

3.7.3.5.1 Bars. Copper alloy bar shall have a bright chromium plated finish or an uncoated satin finish at the manufacturer's option.

3.7.3.5.2 Soap dish. Formed copper alloy and die cast zinc alloy soap dishes shall have a bright chromium plated finish or copper alloy dishes shall have an uncoated satin finish. Molded plastic soap dishes shall be smooth on all surfaces.

3.7.4 Performance grab bars, classes 2 and 3. Grab bars shall withstand a static load of 250 lb without any permanent set or deformation (see 4.4.2).

### 3.8 Type V shelf, single, surface mounted.

3.8.1 Material, type V, shelf, single, surface mounted. Glass shelf, class 2 shall be plate, float glass, or sheet glass at the manufacturer's option. Metal shelf, class 2, shall be stainless steel. Brackets supporting class 1 and 2 shelves shall be stainless steel copper alloy or die cast zinc alloy.

#### 3.8.2 Shelf dimensions.

3.8.2.1 Width. Shelves shall be 5, 6, or 8 inches in width, as specified (see 6.1).

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3.8.2.2 Length. Glass shelves shall be 18, 24, or 30 inches long, as specified (see 6.1). Stainless steel shelves shall be 18, 24, or 30 inches long, or any length between 16 and 72 inches, as specified (see 6.1). Aluminum shelves shall be 18, 24, or 30 inches long, or any length between 14 and 120 inches long, as specified (see 6.1).

### 3.8.2.3 Thickness of shelves.

3.8.2.3.1 Glass shelves. Sheet glass shall be 7/32 inch, 0.206 inch minimum, or greater in thickness. Plate and float glass shall be 1/4 inch, 0.219 inch minimum, or greater in thickness.

3.8.2.3.2 Metal shelves. Stainless steel shelves shall be 0.030 inch or greater in thickness for lengths up to 30 inches, and for longer lengths shall be 1/8 inch or greater in thickness. Aluminum shelves shall be 1/8 inch or greater in thickness. Tolerances on shelves 1/8 inch thick shall be +5 mils.

### 3.8.2.4 Edge of shelves.

3.8.2.4.1 Glass shelves. Longitudinal edges shall be ground, round, and polished, or beveled at the manufacturer's option.

3.8.2.4.2 Metal shelves. Longitudinal and end edges shall be smooth, rounded, 90° bend lip, or suitably formed to remove sharp edges at the manufacturer's option.

3.8.3 Supports for shelves. Integral supports shall be formed with the shelf or suitable separate supports shall be provided. When separate supports are provided, they shall prevent lateral movement of the shelf.

3.8.4 Shelf accessories. When specified (see 6.1), shelves shall include an ash receiver or an ash receiver, and one or two suspended toilet tissue dispensers.

### 3.8.5 Finish, shelves and supports.

3.8.6 Shelves. Stainless steel shelves shall have a No. 4 general-purpose polished finish. Aluminum shelves shall have a satin clear anodic finish.

3.8.7 Supports. Separate stainless steel supports shall have a No. 4 general-purpose polished finish. Copper alloy and die-cast zinc alloy supports shall have a satin or bright chromium plated finish. Supports integral with shelves shall have the same finish as the shelf.

### 3.9 Type VI, holders.

3.9.1 Material type VI, holder. Holders shall be copper alloy, stainless steel, plastic coated steel, copper, die cast zinc alloy, aluminum alloy, or ceramic. Ceramic holders shall be porcelain composition. Zinc-base alloys shall be either AG40A or AC41A, in accordance with ASTM B86. Copper-zinc alloys shall be any copper alloy No. 852 to 858, inclusive. Wrought stainless steel shall be AISI types 200 or 300 series and cast corrosion-resisting steel shall be any suitable composition.

### 3.9.2 Class 1 soap holders, surface mounted.

3.9.2.1 Construction. Soap holders shall be formed or cast with integral supports, separately attached supports or without any support other than the holder itself.

3.9.2.2 Holder dish. The soap dish shall have drain holes, or shall be without drain holes, as specified (see 6.1). Number, shape, and size of drain holes shall be at the manufacturer's option.

3.9.2.3 Insert dish. When specified (see 6.1), holders shall have an insert plastic dish.

### 3.9.3 Class 2 soap holders, recessed.

3.9.3.1 Dimension requirements. Length, width, and thickness of holders shall be at the manufacturer's option for each shape.

3.9.3.2 Shape. Shape of holders shall be at the manufacturer's option.

3.9.3.3 Soap dish. A plastic soap dish may be furnished with holders at the manufacturer's option. Surface of dish shall be plain or ribbed.

3.9.3.4 Mounting bracket. Brackets shall be concealed. Shape of bracket and surface finish on bracket shall be at the manufacturer's option. Ceramic units shall include an integral bracket having re-entrant angles for adherence of the setting cement.

### 3.9.4 Class 3 and 4 tumbler toothbrush holders.

3.9.4.1 Toothbrush, and toothbrush and tumbler holder. Holder shall be surface mounted. Combined unit including soap holder shall be recessed. Shape and size of brackets for mounting holders shall be at the manufacturer's option. Ceramic units shall include an integral bracket having re-entrant angles for adherence of the setting cement.

#### 3.9.4.2 Holes in holders.

3.9.4.2.1 Toothbrush. All holder shall hold four or more toothbrushes in a vertical position. Shape and size of holes shall be at the manufacturer's option (see 4.3.1.3).

3.9.4.2.2 Tumbler. Size of hole for securing tumbler in position shall be 2-3/8  $\pm$  1/16 inches in diameter (see 4.3.1.3).

### 3.9.5 Classes 1, 2, 3, and 4.

3.9.5.1 Thickness. Thickness of flanges on recessed holders shall be 0.030 inch or greater, and thickness of projecting sections of holders shall be 0.100 inch or greater.

3.9.5.2 Fasteners. Fasteners for holders shall be concealed or exposed at the manufacturer's option.

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### 3.9.6 Finish for soap, toothbrush and tumbler holders.

3.9.6.1 Stainless steel. Holder shall have a No.-4 general-purpose polished finish or No. 8 reflective finish.

3.9.6.2 Copper alloy and die-cast zinc alloy. Holder shall have a satin or bright chromium plated finish.

3.9.6.3 Aluminum alloy. Holders shall have a satin anodic clear finish.

3.9.6.4 Ceramic. Finish shall be glazed or unglazed matte finish. Color shall be white. Pattern and white value shall be at the manufacturer's option.

3.10 Workmanship. All ferrous and nonferrous accessories shall be free from cracks and sharp edges. Plastic accessories shall be free from sharp edges and mold defects affecting their function. Glass shelves shall be free from edge cracks. Ceramic accessories shall be uniform in color and pattern, and shall be free from exposed surface chips. All metal surfaces and spool guide grooves in the side of cabinet toilet tissue dispensers shall be smooth and free from burrs.

## 4. QUALITY ASSURANCE PROVISIONS

4.1 Responsibility for inspection (see WW-P-541/GEN).

4.2 Sampling for lot acceptance.

4.2.1 Inspection lot. A lot shall consist of all types, classes, and styles offered for delivery at the same time.

4.2.2 Sampling for examination and tests. Size of sample for examination shall be level S-4 in MIL-STD-105. Accessories that require tests shall be selected in accordance with level S-2.

4.3 Examination and tests.

4.3.1 Examination for visual and dimensional characteristics. Examine accessories for defects listed in Table III. The Acceptable Quality Levels (AQL) for defects shall be 2.5 percent defective for major defects and 4.0 percent defective for minor defects.

TABLE III. Classification of defects, end item.

	Major	Minor
Type, class, and style, not as specified.	X	
Material not as specified.	X	
Accessories not complete or parts missing except for fasteners.	X	
Mirrors cracked, chipped or discolored.	X	
Magnetic door catches on medicine cabinets not permanent type.	X	
Electrical outlets on medicine cabinets not grounded type.		X
Cracks or edges of glass shelves.	X	
Keys for locked dispensers not included when required.		X
Flange width of recessed and semi-recessed dispensers and waste receptacles not as specified.	X	

TABLE III. Classification of defects, end item. - cont'd

	Major	Minor
Door hinges on tampon dispensers and waste receptacles not continuous over their length.	X	
Surface finish on accessories not as specified.	X	
Satin finishes not uniform in appearance.		X
Frosty areas on chromium plated accessories.	X	
Anodic coat on anodized aluminum accessories not uniform in appearance.		X
Painted dispensers not fully covered.		X
Dimensions not within tolerance where applicable.	X	
Cracks in metal accessories.	X	
Chips in ceramic accessories.	X	
Ceramic accessories not uniform in color or pattern.	X	
Damage or defects affecting function or serviceability.	X	
Damage or defects not affecting function or serviceability.		X

4.3.1.1 Waste receptacles. Determine capacity by measuring inside dimensions.

4.3.1.2 Towel and grab bars. Measure diameter, and where applicable width across flats, using any suitable caliper or rule (see 3.7.1.1.1).

4.3.1.3 Toothbrush and tumbler holders. Examine holes in these accessories, and determine whether they will contain in-place toothbrushes and tumbler (see 3.9.4.2.1 and 3.9.4.2.2).

#### 4.4 Test methods.

##### 4.4.1 Medicine cabinets.

4.4.1.1 Shelf supports. Place a 5 lb lead weight measuring not more than 3 inches at the widest point of its base with its center of gravity in vertical alinement with the extreme front and rear edges anywhere along the length of the shelf with its upper surface in a horizontal plane (see 3.6.12.1).

4.4.1.2 Shelves. Place a 5 lb lead weight measuring not more than 3 inches at the widest point of its base, midway between the shelf support (see 3.6.12.1.1).

4.4.1.3 Swing doors and catch. Tip the cabinet forward 50° from vertical position (see 3.6.12.1.2).

4.4.2 Grab bars, type IV, classes 2, and 3. Bolt grab bars to a steel plate or wood board to prevent pulling out when under load. Hang a load of 250 lb using a strap around the bar handle 2 to 3 inches wide and of sufficient length to support the load at least 10 inches from the lower surface of the grab bar (see 3.7.4).

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## 5. PREPARATION FOR DELIVERY (see WW-P-541/GEN)

## 6. NOTES

6.1 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, class, and style (see 1.2.1 and 1.2.2).

Seat cover, sanitary napkin, and tampon dispensers:

(c) Whether constructed to dispense half-fold, quarter-fold or roll tissue (see 3.2.1).

(d) Capacity (see 3.4.3).

(e) Whether complimentary or coin operated, and if coin operated, type and number of coins (see 3.4.4).

Waste receptacles;

(f) Details of wall and floor surface mounted receptacles and accessories required (see 3.5.2.1).

Medicine cabinets:

(g) Dimensions required for surface mounted cabinets (see 3.6.3.1).

(h) Design of sliding door cabinets (see 3.6.9.1).

(i) Design of swing door cabinets (see 3.6.10.1).

Towel bars:

(j) Length required (see 3.7.1.2.2).

Grab bars:

(k) Outside diameter of bars required and if other than seamless (see 3.7.2.1).

(l) Form of bars required (see 3.7.2.1.1).

(m) Length of straight bars or dimensions of angulated bars required (see 3.7.2.1.2)

Surface mounted single shelf:

(n) Width of shelves required (see 3.8.2.1).

(o) Length of shelves (see 3.8.2.2).

(p) Whether ash receiver and/or toilet tissue dispensers required (see 3.8.4).

Holders, soap, toothbrush, toothbrush, and tumbler:

(q) Whether soap dish shall be with or without drain holes (see 3.9.2.2).

(r) Whether plastic insert soap dish required (see 3.9.2.3).



**6.2 Specification cross reference:****WW-P-541/8A**

<u>Type</u>	<u>Class</u>	
I	1	Toilet tissue dispenser
I	3	Paper towel dispenser

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<u>Type</u>	<u>Class</u>	
I	1	Seat cover, toilet tissue dispenser and sanitary napkin disposal
I	3	Seat cover dispenser and napkin disposal

**6.3 Accessories not covered.** Accessories formerly covered by this specification (see 1.2.3) should be procured using the following documents:

Type I, class 1, toilet tissue dispensers use WW-D-1908 and WW-H-1911  
 Type I, class 3, paper towel dispensers use WW-D-1909  
 Type VII, waste drain stoppers use WW-D-1991  
 Type VIII, lawn faucets use WW-F-1910

**6.4 Finishes for aluminum alloys.** Designation system for aluminum finishes is contained in Metals Handbook, volume 2, Heat treating, Cleaning and Finishing. Copies may be obtained from the American Society for Metals, Metals Park, OH 44073.

**MILITARY CUSTODIANS:**

Army - ME  
 Navy - YD  
 Air Force - 99

**CIVIL AGENCY COORDINATING ACTIVITIES:**

DOE - AEC  
 GSA - FSS  
 HUD - TCS

**Review activity:**

Navy - MS

**Preparing activity:**

Navy - YD

**User activities:**

Navy - MC, CG

Project No. 4510-0171-8

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Orders for this publication are to be placed with General Services Administration, acting as an agent for the Superintendent of Documents. See section 2 of this specification to obtain extra copies and other documents referenced herein.

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