
USACE / NAVFAC / AFCEA / NASA UFGS-10800 (July 2002)

Preparing Activity: USACE MasterFormat™ 2004 - 10 28 13
Superseding
UFGS-10800A (April 2001)
UFGS-10800N (September 1999)

UNIFIED FACILITIES GUIDE SPECIFICATIONS

References are in agreement with UMRL dated 23 June 2005

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SECTION 10800

TOILET ACCESSORIES

07/02

NOTE: This guide specification covers the requirements for toilet accessories suitable for a wide variety of applications.

Comments and suggestions on this guide specification are welcome and should be directed to the technical proponent of the specification. A listing of technical proponents, including their organization designation and telephone number, is on the Internet.

Recommended changes to a UFGS should be submitted as a Criteria Change Request (CCR).

Use of electronic communication is encouraged.

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

PART 1 GENERAL

NOTE: For Army construction, buildings not excluded by the TI 800-01 Design Criteria will be accessible in accordance with 36 CFR, Part 1191, Americans with Disabilities Act (ADA) Accessibility Guidelines for Buildings and Facilities.

Drawings will indicate location, dimensions, elevations, schedules, details, and such other information as required to indicate the extent of the work.

Product selections shall be based on esthetic values and cost as related to project needs.

1.1 REFERENCES

NOTE: This paragraph is used to list the publications cited in the text of the guide specification. The publications are referred to in the text by basic designation only and listed in this paragraph by organization, designation, date, and title.

Use the Reference Wizard's Check Reference feature when you add a RID outside of the Section's Reference Article to automatically place the reference in the Reference Article. Also use the Reference Wizard's Check Reference feature to update the issue dates.

References not used in the text will automatically be deleted from this section of the project specification when you choose to reconcile references in the publish print process.

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 C 1036 (2001) Flat Glass

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.

A "G" following a submittal item indicates that the submittal requires Government approval. Some submittals are already marked with a "G". Only delete an existing "G" if the submittal item is not complex and can be reviewed through the Contractor's Quality Control system. Only add a "G" if the submittal is sufficiently important or complex in context of the project.

For submittals requiring Government approval on Army projects, a code of up to three characters within the submittal tags may be used following the "G" designation to indicate the approving authority. Codes for Army projects using the Resident Management System (RMS) are: "AE" for Architect-Engineer; "DO" for District Office (Engineering Division or other organization in the District Office); "AO" for Area Office; "RO" for Resident Office; and "PO" for Project Office. Codes

following the "G" typically are not used for Navy,
Air Force, and NASA projects.

Choose the first bracketed item for Navy, Air Force
and NASA projects, or choose the second bracketed
item for Army projects.

Government approval is required for submittals with a "G" designation;
submittals not having a "G" designation are [for Contractor Quality Control
approval.][for information only. When used, a designation following the
"G" designation identifies the office that will review the submittal for
the Government.] The following shall be submitted in accordance with
Section 01330 SUBMITTAL PROCEDURES:

SD-03 Product Data

Finishes
Accessory Items

Manufacturer's descriptive data and catalog cuts indicating
materials of construction, fasteners proposed for use for each
type of wall construction, mounting instructions, operation
instructions, and cleaning instructions.

SD-04 Samples

Finishes
Accessory Items

One sample of each accessory proposed for use. Approved samples
may be incorporated into the finished work, provided they are
identified and their locations noted.

SD-07 Certificates

Accessory Items

Submit for each type of accessory specified, attesting that the
items meet the specified requirements.

HAND=DRYER> /public.html> HAND=DRYER> /public.html> HAND=DRYER>
/public.html> HAND=DRYER> /public.html>

SD-10 Operation and Maintenance Data

Electric Hand Dryer

[Four] [_____] complete copies of maintenance instructions
listing routine maintenance procedures and possible breakdowns and
repairs. Instructions shall include simplified wiring and control
diagrams and other information necessary for unit maintenance.

1.3 DELIVERY, STORAGE, AND HANDLING

Toilet accessories shall be wrapped for shipment and storage, delivered to
the jobsite in manufacturer's original packaging, and stored in a clean,
dry area protected from construction damage and vandalism.

1.4 WARRANTY

Manufacturer's standard performance guarantees or warranties that extend beyond a 1 year period shall be provided.

PART 2 PRODUCTS

NOTE: Only those accessories and finishes normally suitable for military construction are included in this guide specification. When other accessories and finishes are required to meet the needs of the project, the specifier must add them. Maximum use should be made of recessed accessories in areas of hard usage.

2.1 MANUFACTURED UNITS

Toilet accessories shall be provided where indicated in accordance with paragraph SCHEDULE. Porcelain type, tile-wall accessories are specified in Section 09310 CERAMIC TILE QUARRY TILE, AND PAVER TILE. Each accessory item shall be complete with the necessary mounting plates and shall be of sturdy construction with corrosion resistant surface.

2.1.1 Anchors and Fasteners

NOTE: Tamperproof fasteners will be specified for accessories which have exposed fasteners in areas used by neuropsychiatric patients or prisoners and where theft or vandalism would be a problem. This guide specification places the responsibility with the Contractor for providing, subject to Government approval, fasteners and anchors of the type, size and number required to adequately secure the accessory items. Specific requirements for critical or unusual applications may refer to details on the drawings, or the specifications may be expanded to include the necessary requirements.

Anchors and fasteners shall be capable of developing a restraining force commensurate with the strength of the accessory to be mounted and shall be suited for use with the supporting construction. Exposed fasteners shall [have oval heads] [be of tamperproof design] and shall be finished to match the accessory.

2.1.2 Finishes

Except where noted otherwise, finishes on metal shall be provided as follows:

| Metal | Finish |
|-----------------------------|-------------------------|
| Stainless steel | No. 4 satin finish |
| Carbon steel, copper alloy, | Chromium plated, bright |

Metal
and brass

Finish

2.2 ACCESSORY ITEMS

NOTE: Drawings will show location, widths and heights, and vertical height above finished floor, as required, for accessory items.

Only those accessory items to be used will be retained. Identifying abbreviation in parentheses will be retained for those items to be used and shown on the drawings. The various accessory items will generally be used in the following locations:

DCS: Public toilets and toilets in nondomiciliary type buildings in accordance with the requirements of the using service.

EHD: Public toilets and toilets in nondomiciliary type buildings upon specific written request by the using service.

FTD: Private bathrooms used by women.
Private/semi-private bathrooms in guest/transient quarters. Limit to one per bathroom.

GB: Bathrooms that will be used by handicapped or people in a weakened condition, such as in hospitals. Vertical grab bars should be considered in private bathrooms where a soap and grab bar combination (SGR) accessory is not provided. Forms and lengths will be shown on the drawings.

MC: Private bathrooms where storage of personal items in the bathroom is desirable. Limit to one per bathroom.

MG: Private bathrooms where a medicine cabinet is not provided, in general-use toilets, and hand washing areas. Mirror 450 mm (18 inches) by 750 mm (30 inches) will be specified in Section 08810 GLASS AND GLAZING. Limit to not more than one per lavatory. Adjustable tilt mirror will be provided in areas to be used by wheelchair handicapped.

MM: Areas used by neuropsychiatric patients or prisoners and where vandalism would be a problem. Limit to one per toilet in single lavatory installation.

PTD: Public toilets and toilets in nondomiciliary type buildings in accordance with the requirements of the using service. Limit to not more than one per two lavatories, except one per toilet in single lavatory installation.

PTDWR: Public toilets and toilets in nondomiciliary type buildings in areas which have regularly scheduled waste removal. Limit to one per two lavatories except one per toilet in single lavatory installation.

SND: Public toilets and toilets in nondomiciliary type buildings used by women. Disposer will be mounted in the toilet compartments. Each toilet compartment shall be accessible to a disposal unit.

SNTD: Public toilets and toilets in nondomiciliary type buildings used by women. Use of recessed units will be considered for installations which are required to present an excellent appearance. Limit to one per toilet.

SC & SCR: Installations with combination bathtub and shower SCR units which include rails and curtains. One per shower-tub installation and one per individual shower installation.

SD: Public toilets and toilets in nondomiciliary type buildings unless included with paper towel dispenser. Limit to one per lavatory.

SH: Private toilets with lavatory unless soap dispenser is specified. Limit to one per private toilet.

SMHD: Troop facilities and other areas subject to rough usage. Installation will be detailed on the drawings.

SMLD: Private bathrooms where a glass shelf or medicine cabinet is not provided.

SGR: Installations with bathtub or shower. Limit to one per bathtub or shower-tub installation and one per separate showerhead.

TB: Private bathrooms. Limit to two per bathroom. For safety purposes in wet areas consider using a horizontal grab bar in lieu of towel bar.

TSCD: Public toilets and toilets in nondomiciliary type buildings in accordance with the requirements of the using service.

TP: Private bathrooms where a shower is provided in lieu of a bathtub. Limit to one per bathroom.

TTD: All toilet areas. Limit to one per water closet.

TTH: Private bathrooms. Limit to one per lavatory.

WR: Public toilets and toilets in nondomiciliary

type buildings when requested by the using service.
Limit to not more than one per two paper towel
dispensers. Use of recessed combination units will
be considered for installations which have frequent
scheduled trash removal service.

Accessory items shall conform to the requirements specified below.

2.2.1 Facial Tissue Dispenser (FTD)

Facial tissue dispenser shall be [surface] [recessed] mounted, Type 304 stainless steel face, [satin finish] [bright polished finish]. Face of recessed dispenser shall be secured by friction with suitable spring steel clips. Dispenser shall have a minimum capacity of [150] [200] [300] two-ply tissues.

2.2.2 Grab Bar (GB)

Grab bar shall be 18 gauge, 32 mm 1-1/4 inches OD Type 304 stainless steel. Grab bar shall be form and length as indicated. [Concealed] [Exposed] mounting flange shall have mounting holes concealed. Grab bar shall have [satin finish] [peened non-slip surface]. Installed bars shall be capable of withstanding a 2.225 kN 500 pound vertical load without coming loose from the fastenings and without obvious permanent deformation. Space between wall and grab bar shall be 38 mm. 1-1/2 inch.

2.2.3 Medicine Cabinet (MC)

Medicine cabinet shall be constructed with cold-rolled carbon steel sheet of not less than 0.76 mm .03 inch thick, formed from a single sheet of steel or shall have mechanically formed spot welded or any other suitable joints. Width, height and depth of cabinet shall be in accordance with paragraph SCHEDULE.

2.2.3.1 Sliding Door Cabinet, Class 1

Sliding door cabinet assembly shall be [surface mounted vanity] [recessed cabinet] with design and lighting arrangement as indicated. Cabinet shall have a minimum of 2 shelves. The mirror shall have [a wide frame] [a narrow frame] [no frame].

2.2.3.2 Swinging Door Cabinet, Class 2

Swinging door cabinet assembly including the lighting arrangement shall be as indicated. Assembly shall be [surface] [recess] mounted. Cabinet shall be located centrally behind the door and shall contain a minimum of two shelves. Door hinges shall be stainless steel or carbon steel. Magnets used in door catches shall be permanent type. Doors shall be [with] [without] a mirror.

2.2.4 Mirrors, Glass (MG)

Glass for mirrors shall be Type I transparent flat type, Class 1-clear. Glazing Quality q1 6 mm 1/4 inch thick conforming to ASTM C 1036. Glass shall be coated on one surface with silver coating, copper protective coating, and mirror backing paint. Silver coating shall be highly adhesive pure silver coating of a thickness which shall provide reflectivity of 83 percent or more of incident light when viewed through 6 mm 1/4 inch thick

glass, and shall be free of pinholes or other defects. Copper protective coating shall be pure bright reflective copper, homogeneous without sludge, pinholes or other defects, and shall be of proper thickness to prevent "adhesion pull" by mirror backing paint. Mirror backing paint shall consist of two coats of special scratch and abrasion-resistant paint and shall be baked in uniform thickness to provide a protection for silver and copper coatings which will permit normal cutting and edge fabrication.

2.2.5 Mirror, Metal (MM)

Metal mirror shall be bright polished stainless steel, mirror quality, 0.94 mm 0.037 inch minimum thickness, edges turned back 6 mm 1/4 inch and recess fitted with tempered hardboard backing, and theft-proof fasteners. Size shall be in accordance with paragraph SCHEDULE.

2.2.6 Mirror, Tilt (MT)

NOTE: Mounting height of mirror shall be shown on the drawings.

Tilt mirror shall be surface mounted and shall provide full visibility for persons in a wheelchair. Mirror shall have [adjustable] [fixed] tilt, extending at least 100 mm 4 inches from the wall at the top and tapering to 25 mm 1 inch at the bottom. Size shall be in accordance with [paragraph SCHEDULE] [the drawings] [_____]. Glass for mirrors shall conform to ASTM C 1036 and paragraph Glass Mirrors.

TOWEL=DISPENSER> NSER/WASTE>

TOWEL=DISPENSER> NSER/WASTE>

TOWEL=DISPENSER> NSER/WASTE>

TOWEL=DISPENSER> NSER/WASTE> 2.2.7 Paper Towel Dispenser (PTD)

NOTE: A tumbler key lock is the standard locking mechanism for manufacturers and push button or twist-type locks are normally a specialty, extra-cost item, if available.

Paper towel dispenser shall be [_____] and shall be constructed of not less than [22 gauge carbon steel] [0.683 mm 0.269 inch Type 304 stainless steel], and shall be [surface] [recessed] mounted. Dispenser shall have a towel compartment and a [mirror door] [and] [liquid soap dispenser]. Locking mechanism shall be [tumbler key lock] [concealed tumbler key lock].

TOWEL=DISPENSER/WASTE>

TOWEL=DISPENSER/WASTE>

TOWEL=DISPENSER/WASTE>

TOWEL=DISPENSER/WASTE> 2.2.8 Combination Paper Towel Dispenser/Waste Receptacle Units (PTDWR)

Dispenser/receptacle shall be [recessed] [semi-recessed] and shall have a capacity of [400] [600] [_____] sheets of C-fold, single-fold, or quarter-fold towel. Waste receptacle shall be designed to be locked in unit and removable for service. Locking mechanism shall be tumbler key lock. Waste receptacle shall have a capacity of [45] [68] [_____] L. [12] [18] [_____] gallons. Unit shall be fabricated of not less than 0.8 mm

0.30 inch stainless steel welded construction with all exposed surfaces having a satin finish. Waste receptacle that accepts reusable liner standard for unit manufacturer shall be provided.

2.2.9 Sanitary Napkin Disposer (SND)

Sanitary napkin disposal shall be constructed of Type 304 stainless steel with removable leak-proof receptacle for disposable liners. [Fifty] [_____] disposable liners of the type standard with the manufacturer shall be provided. Receptacle shall be retained in cabinet by tumbler lock. Disposer shall be provided with a door for inserting disposed napkins, and shall be [recessed] [partition mounted, double access] [surface mounted].

2.2.10 Sanitary Napkin and Tampon Dispenser (SNTD)

NOTE: Specify sanitary napkin and tampon dispensers only when they are specifically requested, in writing, by the Using Agency.

Sanitary napkin and tampon dispenser shall be [surface mounted] [recessed]. Dispenser, including door shall be Type 304 stainless steel and shall dispense both napkins and tampons with a minimum capacity of 20 each. Dispensing mechanism shall be for [complimentary] [coin] operation. Coin mechanisms shall have minimum denominations of 10 cents, 25 cents, 50 cents, [_____] [free]. Doors shall be hung with a full-length corrosion-resistant steel piano hinge and secured with a tumbler lock. Keys for coin box shall be different from the door keys.

2.2.11 Shower Curtain (SC)

Shower curtain shall be [_____] , size to suit conditions. Curtain shall be anti-bacterial nylon/vinyl fabric. Color shall be [_____] [as shown in Section 09915 COLOR SCHEDULE].

2.2.12 Shower Curtain Rods (SCR)

Shower curtain rods shall be Type 304 stainless steel 32 mm 1-1/4 inch OD by 1.24 mm 0.049 inch minimum [straight] [bent as required] to meet installation conditions.

2.2.13 Soap Dispenser (SD)

NOTE: Powdered soap dispenser should be included for a shop or industrial area. Edit to meet project requirements.

Soap dispenser shall be [surface mounted, liquid type consisting of a vertical Type 304 stainless steel tank with holding capacity of 1.2 L 40 fluid ounces with a corrosion-resistant all-purpose valve that dispenses liquid soaps, lotions, detergents and antiseptic soaps.] [surface mounted, powder type constructed of stainless steel or chromium plated zinc die casting, shall contain a swap feed mechanism and an agitator designed to break up powdered soap, and shall have a minimum capacity of 0.94 L. 32 ounces.] [lavatory mounted, liquid type consisting of a polyethylene tank with a minimum 0.94 L 32 fluid ounces holding capacity and a [100 mm 4 inch

] [150 mm 6 inch] spout length.]

2.2.14 Soap Holder (SH)

Soap holder shall be [surface mounted] [recessed] Type 304 stainless steel. Separate supports shall be stainless steel.

2.2.15 Shelf, Metal, Heavy Duty (SMHD)

NOTE: Where rough usage is anticipated, shelf support brackets and through-bolting of accessories should be required and indicated on the project drawings.

Heavy duty metal shelf shall be minimum of 18 gauge stainless steel with hemmed edges. Shelves over 750 mm 30 inches shall be provided with intermediate supports. Supports shall be minimum of 16 gauge, shall be welded to the shelf, and shall be spaced no more than 750 mm 30 inches apart.

2.2.16 Shelf, Metal, Light Duty (SMLD)

Light duty metal shelf shall be supported between brackets or on brackets. Brackets shall prevent lateral movement of the shelf. Shelf shall be [450 mm 18 inches] [600 mm 24 inches] long. Shelf and brackets shall be stainless steel.

2.2.17 Soap and Grab Bar Combination, Recessed (SGR)

Soap and grab bar combination shall be recessed type and shall be Type 304 stainless steel, [bright polished finish] [satin finish].

2.2.18 Towel Bar (TB)

Towel bar shall be stainless steel with a minimum thickness of 0.38 mm. .015 inch. Bar shall be minimum 19 mm 3/4 inch diameter, or 16 mm 5/8 inch square. Finish shall be [bright polish] [satin].

2.2.19 Towel Pin (TP)

Towel pin shall have concealed wall fastenings, and a pin integral with or permanently fastened to wall flange. Maximum projection shall be 100 mm 4 inches. Design shall be consistent with design of other accessory items. Finish shall be [bright polish] [satin].

2.2.20 Toilet Tissue Dispenser (TTD)

Toilet tissue holder shall be [Type II - surface mounted] [Type III - recess mounted] with two rolls of standard tissue [mounted horizontally] [stacked vertically]. Cabinet shall be [carbon steel, bright chromium plated finish] [stainless steel, satin finish].

2.2.21 Toilet Tissue Dispenser, Jumbo (TTDJ)

Toilet tissue dispenser shall be surface mounted with 2 rolls of jumbo tissue. Cabinet shall be fabricated of [Type 304, 18 gauge stainless steel with Type 304, 20 gauge stainless steel door] [high-impact plastic body and

transparent plastic front cover]. Cover shall have key lock.

2.2.22 Toothbrush and Tumbler Holder (TTH)

Toothbrush and tumbler holder shall be stainless steel, surface mounted. Holder shall hold a minimum of four toothbrushes in a vertical position. Size of hole for securing tumbler shall be 57 plus or minus 3 mm 2-1/4 plus or minus 1/8 inch in diameter.

2.2.23 Waste Receptacle (WR)

NOTE: Locks are typically provided on recessed and semi-recessed receptacles.

Waste receptacle shall be Type 304 stainless steel, designed for [recessed] [surface] mounting. Reuseable liner, of the type standard with the receptacle manufacturer, shall be provided. Capacity shall be not less than [_____] cubic meters cubic feet. Receptacles with push doors and doors for access to the waste compartment shall have continuous hinges. Locking mechanism shall be [tumbler key lock] [_____] .

2.2.24 Toilet Seat Cover Dispenser (TSCD)

Toilet seat cover dispensers shall be Type 304 stainless steel and shall be [recessed mounted] [surface mounted]. Dispenser shall have a minimum capacity of 500 seat covers.

2.2.25 Toilet Seat Cover/Tissue Dispenser/Waste Receptacle (TSCTDWR)

Toilet seat cover, tissue dispenser, and waste receptacle combination shall be stainless steel and shall be [partition mounted] [recessed mounted] [surface mounted]. Dispenser shall have a minimum of 500 [seat covers] [seat covers per side] and [2] [4 (2 per side)] standard tissue rolls. Waste receptacle shall have a reuseable liner of type standard with the receptacle manufacturer. Capacity of receptacle shall be [_____] cubic meters cubic feet. Locking mechanism shall be [tumbler key lock] [_____] .

2.2.26 Electric Hand Dryer (EHD)

NOTE: Consider the use of electric hand driers in public toilet areas that may not receive daily custodian care and in areas where cleanliness is an issue such as food preparation, dining facilities, and hospitals.

Electric hand dryer shall be wall mounted and shall be designed to operate on 110/125 volts, 60 cycle, single phase alternating current with a heating element core rating of not more than 2100 watts. Dryer housing shall be of single piece construction and shall be [white porcelain enamel] [chrome plated steel] [baked electrostatically applied epoxy] [_____] .

2.2.27 Diaper Changing Station (DCS)

NOTE: Omit requirement for integral dispenser for

sanitary liners if not required.

Diaper changing station shall be [recess mounted] [surface mounted] and shall be fabricated of high impact plastic with no sharp edges. Unit fold down platform shall be concave to the child's shape, equipped with nylon and velcro safety straps and engineered to withstand a minimum static load of [155 kg 340 lb] [113 kg 250 lb]. Unit shall have an integral dispenser for sanitary liners. Safety graphics shall be pictorial for universal use. Color shall be [_____] [as shown in Section 09915 COLOR SCHEDULE].

PART 3 EXECUTION

3.1 INSTALLATION

Surfaces of fastening devices exposed after installation shall have the same finish as the attached accessory. Exposed screw heads shall be oval. Install accessories at the location and height indicated. Protect exposed surfaces of accessories with strippable plastic or by other means until the installation is accepted. After acceptance of accessories, remove and dispose of strippable plastic protection. Coordinate accessory manufacturer's mounting details with other trades as their work progresses. [Brackets, plates, anchoring devices and similar items used for mounting accessories in showers shall be bedded in [a silicone or polysulphide sealant] [a sealant as specified in Section 07920 JOINT SEALANTS] as they are set to provide a watertight installation.] After installation, thoroughly clean exposed surfaces and restore damaged work to its original condition or replace with new work.

3.1.1 Recessed Accessories

Fasten accessories with wood screws to studs, blocking or rough frame in wood construction. Set anchors in mortar in masonry construction. Fasten to metal studs or framing with sheet metal screws in metal construction.

3.1.2 Surface Mounted Accessories

NOTE: Shelf support brackets and through-bolting of accessories should be required and indicated on the project drawings when rough usage of accessories is anticipated. Attachment by through-bolting should be indicated for shelf brackets and mirrors.

Mount on concealed backplates, unless specified otherwise. Accessories without backplates shall have concealed fasteners. Unless indicated or specified otherwise, install accessories with sheet metal screws or wood screws in lead-lined braided jute, teflon or neoprene sleeves, or lead expansion shields, or with toggle bolts or other approved fasteners as required by the construction. Install backplates in the same manner, or provide with lugs or anchors set in mortar, as required by the construction. Fasten accessories mounted on gypsum board and plaster walls without solid backing into the metal or wood studs or to solid wood blocking secured between wood studs, or to metal backplates secured to metal studs.

3.2 CLEANING

Material shall be cleaned in accordance with manufacturer's recommendations. Alkaline or abrasive agents shall not be used. Precautions shall be taken to avoid scratching or marring of surfaces.

3.3 SCHEDULE

NOTE: A schedule of the accessories required will be added. Format for the schedule may be modified to suit local preference. In some cases it may be adequate to simply show the locations on the drawings or to specify locations in the specification text.

Accessories Required

| Room or Space | MG | PTD | SMLD | SD | SH | TTD |
|---------------------|---------|---------|---------|---------|---------|---------|
| _____ | _____ | _____ | _____ | _____ | _____ | _____ |
| [_____] | [_____] | [_____] | [_____] | [_____] | [_____] | [_____] |

-- End of Section --