

SECTION 10 28 13

TOILET ACCESSORIES

PART 1 GENERAL

1.1 REFERENCES

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 F2285	(2004; R 2016; E 2016) Standard Consumer Safety Performance Specification for Diaper Changing Tables for Commercial Use
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INTERNATIONAL ORGANIZATION FOR STANDARDIZATION (ISO)

ISO 3864	(2011) Graphical Symbols - Safety Colours and Safety Signs
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ISO 7010	(2019) Graphical Symbols - Safety Colours and Safety Signs - Registered Safety Signs
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JAPANESE STANDARDS ASSOCIATION (JSA)

JIS R 3220	(2011) Glass in Building - Silvered, Flat-Glass Mirror
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JIS Z 2911	(2018) Methods of Test for Fungus Resistance
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JIS Z 9103	(2018) Graphic Symbols - Safety Colors and Safety Signs - Range of Chromaticity Coordinates and Measurement Methods for Safety Colors
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1.2 SUBMITTALS

Government approval is required for submittals with a "G" designation; submittals not having a "G" designation are for [Contractor Quality Control approval.] [information only. When used, a designation following the "G" designation identifies the office that will review the submittal for the Government.] Submittals with an "S" are for inclusion in the Sustainability eNotebook, in conformance to Section 01 33 29 SUSTAINABILITY REPORTING. Submit the following in accordance with Section 01 33 00 SUBMITTAL PROCEDURES:

SD-04 Samples

Finishes; G[, [_____]]

Accessory Items

SD-10 Operation and Maintenance Data

Electric Hand Dryer; G[, [_____]]

[1.3 CERTIFICATIONS

1.3.1 Baby Changing Stations

Provide certification that baby changing stations meet the performance criteria of ASTM F2285.

Provide certification that baby changing stations safety signage meet the requirements of JIS Z 9103, ISO 3864 or ISO 7010.

Provide certification that baby changing stations meet the testing requirements of JIS Z 2911.

]1.4 DELIVERY, STORAGE, AND HANDLING

Wrap toilet accessories for shipment and storage, then deliver to the jobsite in manufacturer's original packaging, and store in a clean, dry area protected from construction damage and vandalism.

1.5 WARRANTY

Provide manufacturer's standard performance guarantees or warranties that extend beyond a 1 year period.

PART 2 PRODUCTS

2.1 MANUFACTURED UNITS

Provide toilet accessories where indicated in accordance with paragraph SCHEDULE. Porcelain type, tile-wall accessories are specified in Section 09 30 10 CEMENT TILING, QUARRY TILING, AND PAVER TILING. Provide each accessory item complete with the necessary mounting plates of sturdy construction with corrosion resistant surface.

2.1.1 Anchors and Fasteners

Provide anchors and fasteners capable of developing a restraining force commensurate with the strength of the accessory to be mounted and suited for use with the supporting construction. Provide [tamperproof design] [oval heads] exposed fasteners with finish to match the accessory.

2.1.2 Finishes

Except where noted otherwise, provide the following finishes on metal:

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

2.2 ACCESSORY ITEMS

Conform to the requirements for accessory items specified below. Submit fasteners proposed for use for each type of wall construction, mounting, operation, and cleaning instructions and one sample of each other accessory proposed for use. Incorporate approved samples into the finished work, provided they are identified and their locations noted. Submit certificate for each type of accessory specified, attesting that the items meet the specified requirements.

2.2.1 Facial Tissue Dispenser (FTD)

Provide [surface] [recessed] mounted facial tissue dispenser, Type 304 stainless steel face, [satin finish] [bright polished finish]. Secure face of recessed dispenser by friction with suitable spring steel clips. Provide a minimum capacity of [150] [200] [300] two-ply tissues for dispenser.

2.2.2 Grab Bar (GB)

Provide an 18 gauge, 32 mm grab bar OD Type 304 stainless steel. Provide form and length for grab bar as indicated. Provide [concealed] [exposed] mounting flange. Provide grab with [satin finish] [peened non-slip surface]. Furnish installed bars capable of withstanding a 2.225 kN vertical load without coming loose from the fastenings and without obvious permanent deformation. Allow 38 mm space between wall and grab bar.

2.2.3 Medicine Cabinet (MC)

Construct medicine cabinet with cold-rolled carbon steel sheet of minimum 0.76 mm thickness, formed from a single sheet of steel or mechanically formed and spot welded. Provide width, height and depth of cabinet in accordance with paragraph SCHEDULE.

2.2.3.1 Sliding Door Cabinet

Provide [surface mounted vanity] [recessed cabinet] sliding door cabinet assembly with design and lighting arrangement as indicated. Provide a minimum of 2 shelves per cabinet. Provide [a wide] [a narrow] [no] frame mirror.

2.2.3.2 Swinging Door Cabinet

Provide swinging door cabinet assembly, including the lighting arrangement, as indicated. Provide [surface] [recess] mounted assembly. Locate cabinet centrally behind the door with a minimum of two shelves. Provide stainless steel or carbon steel door hinges. Provide permanent type magnets used in door catches. Provide doors [with] [without] a mirror.

2.2.4 Mirrors, Glass (MG)

Provide clear glass for mirrors conforming to JIS R 3220. Coat glass on one surface with silver coating, copper protective coating, and mirror backing paint. Provide highly adhesive pure silver coating of a thickness which provides reflectivity of 83 percent or more of incident light when viewed through 6 mm thick glass, free of pinholes or other defects. Provide copper protective coating with pure bright reflective copper, homogeneous without sludge, pinholes or other defects, of proper thickness

to prevent "adhesion pull" by mirror backing paint. Provide mirror backing paint with two coats of special scratch and abrasion-resistant paint and 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)

Provide a brightly polished stainless steel metal mirror of 0.94 mm minimum thickness, edges turned back 6 mm and recess fitted with tempered hardboard backing, and theft-proof fasteners. Provide size in accordance with paragraph SCHEDULE.

2.2.6 Mirror, Tilt (MT)

Provide surface mounted tilt mirror with full visibility for persons in a wheelchair. Furnish [adjustable] [fixed] tilt mirror, extending at least 100 mm from the wall at the top and tapering to 25 mm at the bottom. Provide size in accordance with [paragraph SCHEDULE] [the drawings] [_____]. Conform to JIS R 3220 and paragraph Glass Mirrors.

2.2.7 Paper Towel Dispenser (PTD)

Provide [_____] paper towel dispenser constructed of a minimum [22 gauge carbon steel] [0.7 mm Type 304 stainless steel], [surface] [recessed] mounted. Provide a towel compartment and a [mirror door] [and] [liquid soap dispenser] for each dispenser. Furnish [tumbler key lock] [concealed tumbler key lock] locking mechanism.

2.2.8 Combination Paper Towel Dispenser/Waste Receptacle (PTDWR)

Provide [recessed] [semi-recessed] dispenser/receptacle with a capacity of [400] [600] [_____] sheets of C-fold, single-fold, or quarter-fold towel. Design waste receptacle to be locked in unit and removable for service. Provide tumbler key locking mechanism. Provide waste receptacle capacity of [45] [68] [_____] L. Fabricate a minimum 0.7 mm stainless steel welded construction unit with all exposed surfaces having a satin finish. Provide waste receptacle that accepts reusable liner standard for unit manufacturer.

2.2.9 Sanitary Napkin Disposer (SND)

Construct a Type 304 stainless steel sanitary napkin disposal with removable leak-proof receptacle for disposable liners. Provide [fifty] [_____] disposable liners of the type standard with the manufacturer. Retain receptacle in cabinet by tumbler lock. Provide disposer with a door for inserting disposed napkins, [recessed] [partition mounted, double access] [surface mounted].

2.2.10 Sanitary Napkin and Tampon Dispenser (SNTD)

Provide sanitary napkin and tampon dispenser [surface mounted] [recessed]. Dispenser, including door of Type 304 stainless steel that dispense both napkins and tampons with a minimum capacity of 20 each. Furnish dispensing mechanism for [complimentary] [coin] operation. Provide coin mechanisms with minimum denominations of [_____] [free]. Hang doors with a full-length corrosion-resistant steel piano hinge and secure with a tumbler lock. Provide keys for coin box different from the door keys.

2.2.11 Shower Curtain (SC)

Provide [_____] shower curtain, size to suit conditions. Provide anti-bacterial nylon/vinyl fabric curtain. Furnish [_____] color [as shown in Section 09 06 00 SCHEDULES FOR FINISHES].

2.2.12 Shower Curtain Rods (SCR)

Provide Type 304 stainless steel shower curtain rods 32 mm OD by 1.24 mm minimum [straight] [bent as required] to meet installation conditions.

2.2.13 Soap Dispenser (SD)

Provide soap dispenser [surface mounted, liquid type consisting of a vertical Type 304 stainless steel tank with holding capacity of 1.2 L 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, containing a swap feed mechanism and an agitator designed to break up powdered soap, with a minimum capacity of 0.94 L.] [lavatory mounted, liquid type consisting of a polyethylene tank with a minimum 0.94 L holding capacity and a [100 mm] [150 mm] spout length.]

2.2.14 Soap Holder (SH)

Provide [surface mounted] [recessed] Type 304 stainless steel soap holder. Provide stainless steel separate supports.

2.2.15 Shelf, Metal, Heavy Duty (SMHD)

Furnish a minimum 18 gauge stainless steel heavy duty metal shelf with hemmed edges. Provide shelves over 750 mm with intermediate supports. Provide minimum of 16 gauge supports, welded to the shelf, and spaced no more than 750 mm apart.

2.2.16 Shelf, Metal, Light Duty (SMLD)

Support light duty metal shelf between brackets or on brackets. Purpose of brackets is to prevent lateral movement of the shelf. Furnish [450 mm] [600 mm] long shelf. Provide stainless steel shelf and brackets.

2.2.17 Soap and Grab Bar Combination, Recessed (SGR)

Provide recessed type, Type 304 stainless steel soap and grab bar combination [bright polished finish] [satin finish].

2.2.18 Hand Sanitizer Dispenser (HSD)

Provide hand sanitizer dispensers complete with mounting brackets, batteries as recommended by manufacturer, sanitizer solution, and one bottle of refill sanitizer solution for each dispenser installed. Dispenser properties and characteristics:

- a. Wall mounted
- b. Battery operated
- c. Automatic, touchless type that dispenses sanitizer when a hand is placed in proximity of a sensor

- d. Integral tray below the dispensing portal to catch wasted sanitizer
- e. Operated using standard size batteries

2.2.19 Towel Bar (TB)

Provide stainless steel towel bar with a minimum thickness of 0.38 mm. Provide minimum 19 mm diameter bar, or 16 mm square. Provide [bright polish] [satin] finish.

2.2.20 Towel Pin (TP)

Provide towel pin with concealed wall fastenings, and a pin integral with or permanently fastened to wall flange with maximum projection of 100 mm. Provide [bright polish] [satin] finish.

2.2.21 Toilet Tissue Dispenser (TTD)

Furnish [surface mounted] [recess mounted] toilet tissue holder with two rolls of standard tissue [mounted horizontally] [stacked vertically]. Provide [carbon steel, bright chromium plated] [stainless steel, satin] finish cabinet.

2.2.22 Toilet Tissue Dispenser, Jumbo (TTDJ)

Provide surface mounted toilet tissue dispenser with 2 rolls of jumbo tissue. Fabricate cabinet of [Type 304, 18 gauge stainless steel with Type 304, 20 gauge stainless steel door] [high-impact plastic body and transparent plastic front cover]. Provide cover with key lock.

2.2.23 Toothbrush and Tumbler Holder (TTH)

Provide stainless steel, surface mounted toothbrush and tumbler holder. Furnish holder to hold a minimum of four toothbrushes in a vertical position. Provide 57 plus or minus 3 mm in diameter size of hole for securing tumbler.

2.2.24 Waste Receptacle (WR)

Provide Type 304 stainless steel waste receptacle, designed for [recessed] [surface] mounting. Provide reusable liner, of the type standard with the receptacle manufacturer. Provide a minimum [_____] cubic meters capacity. Provide receptacles with push doors and doors for access to the waste compartment with continuous hinges. Furnish [tumbler key lock] [_____] locking mechanism.

2.2.25 Toilet Seat Cover Dispenser (TSCD)

Provide Type 304 stainless steel with [recessed mounted] [surface mounted] toilet seat cover dispensers. Provide dispenser with a minimum capacity of 500 seat covers.

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

Provide stainless steel and [partition mounted] [recessed mounted] [surface mounted] toilet seat cover, tissue dispenser, and waste receptacle combination. Provide a minimum of 500 [seat covers] [seat covers per side] and [2] [4 (2 per side)] standard tissue rolls for each

dispenser. Provide a waste receptacle of the reusable liner of type standard with the receptacle manufacturer. Provide receptacle with [_____] cubic meters capacity. Furnish [tumbler key lock] [_____] locking mechanism.

2.2.27 Electric Hand Dryer (EHD)

Provide wall mount and electric hand dryer designed to operate at [_____] phase alternating current with a heating element core rating of a maximum [_____]. Provide dryer housing of single piece construction and of [white porcelain enamel] [chrome plated steel] [baked electrostatically applied epoxy] [_____]. Submit [4] [_____] complete copies of maintenance instructions listing routine maintenance procedures and possible breakdowns. Include repair instructions for simplified wiring and control diagrams and other information necessary for unit maintenance.

2.2.28 Diaper Changing Station (DCS)

Provide [recess mount] [surface mounted] diaper changing station fabricated of high impact plastic with no sharp edges. Provide fold down platform concave to the child's shape, equipped with nylon and hook and loop safety straps and engineered to withstand a minimum static load of [155 kg] [113 kg]. Provide an integral dispenser for sanitary liners for each unit. Provide pictorial for universal use of safety graphics conforming to JIS Z 2911, ISO 3864 or ISO 7010. Provide stations that comply with these standards: ASTM F2285 Standard Safety Performance Specification for Diaper Changing tables for Diaper Changing Tables for Commercial Use. Furnish color [_____] [as shown in Section 09 06 00 SCHEDULES FOR FINISHES].

2.2.29 Folding Shower Seat (FSS)

Folding shower seat must have a frame constructed of type-304 satin finish stainless steel, 16-gauge, 32 mm square tubing, and 18-gauge, 25 mm diameter seamless tubing. Seat must be constructed of one-piece, 13 mm thick water-resistant, ivory colored solid phenolic with black edge. Clearance between back of shower seat and wall must be 38 mm to comply with ADA Accessibility Guidelines (ADAAG). Seat supports must not come into contact with the floor. Seat must be able to lock in upright position when not in use. Seat must be attached to wall by two 75 mm diameter mounting flanges constructed of type-304, 5 mm thick stainless steel with satin finish. Manufacturer's service and parts manual must be provided to building owner/manager upon completion of project.

2.2.30 Mop and Broom Holder (MH)

Stainless steel with grip jaw cam mechanism securing [3][4][5] mop or broom handles. [Also includes [hooks][and][storage shelf].]

PART 3 EXECUTION

3.1 INSTALLATION

Do not install items that show visual evidence of biological growth. Provide the same finish for the surfaces of fastening devices exposed after installation as the attached accessory. 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. [Use sealants for brackets, plates, anchoring devices and similar items in showers (a silicone or polysulfide sealant) 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

Mount on concealed backplates, unless specified otherwise. Conceal fasteners on accessories without backplates. Install accessories with sheet metal screws or wood screws in lead-lined braided jute, PTFE 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

Clean material in accordance with manufacturer's recommendations. Do not use alkaline or abrasive agents. Take precautions to avoid scratching or marring exposed surfaces.

3.3 SCHEDULE

Accessories Required						
Room or Space	MG	PTD	SMLD	SD	SH	TTD
[_____]	[_____]	[_____]	[_____]	[_____]	[_____]	[_____]

-- End of Section --