

SECTION 15415
RESTROOM PLUMBING FIXTURES

PART GENERAL

SECTION INCLUDES

Toilets, urinals, and flush valves.

Lavatories and faucets.

Fittings and trim.

RELATED SECTIONS

Section 07900 - Joint Sealers.

Section 15145 - Plumbing Piping.

Section 16155 - Equipment Wiring: Electrical connections for flushing systems.

REFERENCES

ANSI/ASME A112.19.1M - American National Standard for Enameled Cast Iron Plumbing Fixtures.

ANSI/ASME A112.19.2M - American National Standard for Vitreous China Plumbing Fixtures.

ANSI/ASME A112.19.4M - American National Standard for Porcelain Enameled Formed Steel Plumbing Fixtures.

ANSI/ASME A112.19.6 - American National Standard for Hydraulic Performance for Water Closets and Urinals.

SUBMITTALS

Submit under provisions of Section 01300.

Product Data: Manufacturer's data on fixtures, including dimensions, rough-in dimensions, pipe connection sizes, trim, and finishes.

Selection Samples: Color cards for selection of color.

Manufacturer's printed installation instructions.

Operation and maintenance data.

QUALITY ASSURANCE

Manufacturer Qualifications: Company specializing in the manufacture of products of this section, with minimum of three years experience.

Equipment Requiring Electrical Connection: Listed and classified by Underwriters Laboratories Inc. (UL) as suitable for the purpose intended.

PART PRODUCTS

MANUFACTURERS

Toilets, Urinals, Lavatories, and Faucets: American Standard, Inc.;
Tel: 800-217-1929; Fax: 800-233-1896.

Flush Valves: Sloan Royal.

Substitutions will not be permitted.

Requests for substitutions will be considered in accordance with provisions of Section 01600.

Provide all products from a single manufacturer, unless otherwise indicated.

TOILETS - GENERAL

Toilets: Vitreous china; comply with ANSI A112.19.2 for hydraulic performance, water surface area, trap seal depth, ballpass diameter, and dimensions; color white unless otherwise indicated; complete with flush valve and water control devices.

Accessories: Unless otherwise indicated provide the following for each toilet as applicable:

Seat: Manufacturer's standard or recommended open front seat, without cover; white.

Tank-type toilets: Chrome-plated supply and stops; size as indicated.

External flush valve type toilets: Chrome-plated supply and flush valve of type recommended by toilet manufacturer.
Wall-mounted toilets: Carrier fittings.
Bolt covers.

Seat with Lift-Off Hinge System: American Standard "Rise and Shine" closed front seat, white.

TANK-TYPE TOILETS

Toilet T-___: Cadet 17" H EL 1.6/PA; close-coupled flushometer tank, floor-mounted, bottom-outlet, elongated pressure-assisted siphon jet bowl, 1.6 gpf (6.0 Lpf), 17 inch (432 mm) rim height, 12 inch (305 mm) roughing-in.

Seat: Manufacturer's standard closed-front seat.

Seat: Closed front seat with with lift-off hinge system.

Tank cover locking device.

Color: White.

Color: Bone.

Color: _____.

Toilet T-___: Cadet 16-1/8" H EL 1.6/PA; close-coupled flushometer tank, floor-mounted, bottom-outlet, elongated pressure-assisted siphon jet bowl, 1.6 gpf (6.0 Lpf), 16-1/8 inch (410 mm) rim height, 12 inch (305 mm) roughing-in.

Seat: Manufacturer's standard closed-front seat.

Seat: Closed front seat with with lift-off hinge system.

Tank cover locking device.

Color: White.

Color: Bone.

Color: _____.

Toilet T-___: Cadet RF 1.6/PA; close-coupled flushometer tank, floor-mounted, bottom-outlet, round front pressure-assisted siphon jet bowl, 1.6 gpf (6.0 Lpf), 14-1/8 inch (359 mm) rim height, 12 inch (305 mm) roughing-in.

Seat: Manufacturer's standard closed-front seat.

Seat: Closed front seat with with lift-off hinge system.

Tank cover locking device.

Color: White.

Color: Bone.

Color: _____.

EXTERNAL FLUSH VALVE TOILETS

Toilet T-___: Madera EL 1.6 10" Rough; external flush valve, floor-

mounted, bottom-outlet, top-inlet, elongated siphon jet bowl, 1.6 gpf (6.0 Lpf), 14 inch (356 mm) rim height, 10 inch (254 mm) roughing-in.

Color: White.

Color: Bone.

Color: Silver.

Color: Black.

Toilet T-___: Madera 17" H EL 1.6 10" Rough; external flush valve, floor-mounted, bottom-outlet, top-inlet, elongated siphon jet bowl, 1.6 gpf (6.0 Lpf), 17 inch (432 mm) rim height, 10 inch (254 mm) roughing-in.

Color: White.

Color: Bone.

Color: Silver.

Color: Shell.

Color: Black.

Toilet T-___: Afwall EL 1.6; external flush valve, wall-mounted, elongated siphon jet bowl, 1.6 gpf (6.0 Lpf).

Top inlet.

Back inlet.

Color: White.

Color: Bone.

Color: Silver.

Color: Shell.

Color: Black.

Toilet T-___: Madera 16-1/8" Universal Height EL 1.6; external flush valve, floor-mounted, bottom-outlet, top-inlet, elongated siphon jet bowl, 1.6 gpf (6.0 Lpf)}, 16-1/8 inch (410 mm) rim height, 10 inch (254 mm) roughing-in.

Color: White.

Color: Bone.

Color: Silver.

Color: Shell.

Color: Black.

Toilet T-___: Afwall ADA Retrofit EL 1.6; external flush valve, wall-mounted, top-inlet, elongated siphon jet bowl, 1.6 gpf (6.0 Lpf); for mounting on existing carrier of standard Afwall to place rim at 16-1/8 inches (410 mm).

Color: White.

Color: Bone.

Color: Silver.

Color: Shell.

Color: Black.
Flush valve conversion kit.
Provide new flush valve.

URINALS

Urinals - General: Vitreous china; fixture dimensions complying with ANSI A112.19.2; complete with inlet and outlet fittings.

Accessories: Unless otherwise indicated, provide the following for each urinal as applicable.

Wall-mounted urinals: Carriers or hangers, as required.
External flush valve type urinals: Chrome-plated supply and flush valve of type recommended by urinal manufacturer.
Stainless steel strainer for each drain opening.

Urinal U-___: Washbrook 1.0; external flush valve, wall-mounted, 1.0 gpf (3.8 Lpf), washout flush action with flushing rim, rim extending 14 inches (356 mm) from wall, extended sides.

Top inlet.
Back inlet.
Color: White.
Color: Bone.
Color: Silver.
Color: Shell.
Color: Black.

Urinal U-___: Lynbrook 1.0; external flush valve, wall-mounted, 1.0 gpf (3.8 Lpf), blowout flush action with flushing rim, rim extending 12-3/4 inches (324 mm) from wall, extended sides.

Top inlet.
Back inlet.
Color: White.
Color: Bone.
Color: Silver.
Color: Shell.
Color: Black.

Urinal U-___: Allbrook 1.0; external flush valve, wall-mounted, top inlet, 1.0 gpf (3.8 Lpf), siphon jet flush action with flushing rim, rim extending 14 inches (356 mm) from wall.

Color: White.
Color: Bone.
Color: Silver.
Color: Shell.
Color: Black.

Urinal U-___: Maybrook 1.0; external flush valve, wall-mounted, bottom outlet with trap, top inlet, 1.0 gpf (3.8 Lpf), washout flush action with flushing rim, rim extending 12-3/4 inches (324 mm) from wall.

Color: White.

Color: Bone.

Color: Silver.

Color: Shell.

Color: Black.

Urinal U-___: Innsbrook 0.5; integral flush valve, wall-mounted, back inlet, 0.5 gpf (1.9 Lpf), washout flush action with flushing rim, rim extending 14 inches (356 mm) from wall, extended sides.

Proximity flush system, low voltage power.

Proximity flush system, battery power.

Color: White.

Color: Bone.

Color: Silver.

Color: Shell.

Color: Black.

Urinal U-___: Stallbrook 1.0; external flush valve, sloping front stall type, floor-mounted, top inlet, 1.0 gpf (3.8 Lpf), washout flush action.

Color: White.

Color: Bone.

Color: Silver.

Color: Shell.

Color: Black.

Electronic flush valve.

LAVATORIES - GENERAL

Lavatories: Comply with ANSI/ASME A112.19.1M, ANSI/ASME A112.19.2M, ANSI A112.19.4M as applicable for dimensions; color white unless otherwise indicated; complete with faucet, water supplies, and drain.

Accessories: Unless otherwise indicated provide the following for each lavatory as applicable:

Faucet, hot and cold supply.

Chrome-plated supply pipes; shut-off valves.

Chrome-plated outlet pipe and trap.

Lavatories with overflow: Chrome-plated pop-up drain.

Lavatories without overflow: Stainless steel grid drain.

Liquid Soap Dispenser: Deck-mounted, with plastic bottle below counter, chrome-plated.

WALL-HUNG LAVATORIES

Lavatory L-___: Comrade; wall-hung vitreous china, rectangular, rear overflow, faucet ledge, soap depression; ADA compliant.

Faucet holes on 4 inch (102 mm) centers.

Size: 20 inches (510 mm) wide by 18 inches (457 mm) front to back, nominal.

Concealed arm support.

Color: White.

Color: Bone.

Color: Silver.

Color: Fawn beige.

Lavatory L-___: Roxalyn; wall-hung vitreous china, rectangular, front overflow, faucet ledge.

Size: 20 inches (510 mm) wide by 18 inches (457 mm) front to back, nominal.

Faucet holes on 4 inch (102 mm) centers.

Faucet holes on 8 inch (203 mm) centers.

Single center faucet hole.

Single faucet hole on right.

Concealed arm support.

Exposed bracket support.

Color: White.

Color: Bone.

Color: Silver.

Lavatory L-___: Declyn; wall-hung vitreous china, rectangular, rear overflow, faucet ledge, soap depression; ADA compliant.

Faucet holes on 4 inch (102 mm) centers.

Size: 19 inches (482 mm) wide by 17 inches (432 mm) front to back, nominal.

Concealed arm support.

Wall bracket support.

Color: White.

Color: Bone.

Color: Silver.

Color: Fawn beige.

Lavatory L-___: Lucerne; wall-hung vitreous china, rectangular with D-shaped bowl, front overflow, self-draining deck; ADA compliant.

Size: 20-1/2 inches (523 mm) wide by 18-1/4 inches (463 mm)

front to back, nominal.
Faucet holes on 4 inch (102 mm) centers.
Faucet holes on 8 inch (203 mm) centers.
Single center faucet hole.
Single faucet hole on right.
Concealed arm support.
Wall bracket support.
Exposed bracket support.
Color: White.
Color: Bone.
Color: Silver.
Color: Shell.
Color: Black.

Lavatory L-___: Wheelchair Users Lavatory; wall-hung vitreous china, faucet ledge; ADA compliant.

Size: 20 inches (510 mm) wide by 27 inches (686 mm) front to back, nominal.
Faucet holes on 4 inch (102 mm) centers.
Faucet holes on 12 inch (305 mm) centers.
Single center faucet hole.
Concealed arm support.
Color: White.
Color: Bone.
Color: Silver.
Color: _____.

Lavatory L-___: Regalyn; wall-hung enameled cast iron, front overflow, integral backsplash, faucet ledge, soap depression.

Size: 19 inches (483 mm) wide by 17 inches (432 mm) front to back, nominal.
Size: 20 inches (508 mm) wide by 18 inches (457 mm) front to back, nominal.
Faucet holes on 4 inch (102 mm) centers.
Faucet holes on 8 inch (203 mm) centers.
Color: White.
Color: Bone.

Lavatory L-___: Ledgewood; wall-hung enameled cast iron, front overflow, integral backsplash for mounting faucets.

Size: 19 inches (483 mm) wide by 17 inches (432 mm) front to back, nominal.
Size: 22 inches (559 mm) wide by 19 inches (483 mm) front to back, nominal.
Manufacturer's standard factory-installed faucet and pop-up drain.

Lavatory L-___: Ledgemere; wall-hung enameled cast iron, front overflow, integral backsplash for mounting faucets.

Size: 13 inches (330 mm) wide by 13 inches (330 mm) front to back, nominal.

Size: 16 inches (406 mm) wide by 14 inches (356 mm) front to back, nominal.

Manufacturer's standard factory-installed faucet and pop-up drain.

Color: White.

Color: Bone.

Lavatory L-___: Corner Minette; wall-hung vitreous china, front overflow, faucet ledge.

Size: 11 inches (279 mm) wide by 16-3/4 inches (425 mm) front to back, nominal.

Faucet holes on 4 inch (102 mm) centers.

Color: White.

Color: Bone.

Color: Silver.

Color: Fawn beige.

UNDERCOUNTER LAVATORIES

Lavatory L-___: Ovalyn II; vitreous china, oval, rear overflow; ADA compliant.

Bowl size: 17 inches (432 mm) wide by 14 inches (356 mm) front to back, nominal.

Bowl size: 21-1/4 inches (540 mm) wide by 17-3/4 inches (451 mm) front to back, nominal.

Color: White.

Color: Bone.

Color: _____.

COUNTERTOP LAVATORIES

Lavatory L-___: Roma; vitreous china, self-rimming, rectangular with oval bowl, front overflow, faucet ledge; ADA compliant.

Size: 26 inches (660 mm) wide by 20 inches (508 mm) front to back, nominal.

Faucet holes on 4 inch (102 mm) centers.

Faucet holes on 8 inch (203 mm) centers.

Single center faucet hole.

Color: White.

Color: Bone.

Color: _____.

Lavatory L-___: Linear; vitreous china, self-rimming, front overflow, faucet ledge.

Round: 19 inches (483 mm) diameter, nominal.

Oval: 20-3/4 inches (527 mm) wide by 17-3/4 inches (451 mm) front to back, nominal.

Faucet holes on 4 inch (102 mm) centers.

Single center faucet hole.

Color: White.

Color: Bone.

Color: Silver.

Color: Peach blossom.

Lavatory L-___: Ellisse Petite; vitreous china, self-rimming, rear overflow, faucet ledge; ADA compliant.

Size: 24 inches (610 mm) wide by 18-3/8 inches (467 mm) front to back, nominal.

Faucet holes on 4 inch (102 mm) centers.

Faucet holes on 8 inch (203 mm) centers.

Single center faucet hole.

Color: White.

Color: Bone.

Color: _____.

Lavatory L-___: Heritage; vitreous china, self-rimming, front overflow, faucet ledge.

Size: 26 inches (660 mm) wide by 19-1/2 inches (495 mm) front to back, nominal.

Faucet holes on 8 inch (203 mm) centers.

Color: White.

Color: Bone.

Color: _____.

Lavatory L-___: Aqualyn; vitreous china, self-rimming, front overflow, faucet ledge; ADA compliant.

Size: 20-3/8 inches (518 mm) wide by 17 inches (432 mm) front to back, nominal.

Faucet holes on 4 inch (102 mm) centers.

Faucet holes on 8 inch (203 mm) centers.

Single center faucet hole.

Color: White.

Color: Bone.

Color: _____.

Lavatory L-___: Rondalyn; vitreous china, self-rimming, front overflow, faucet ledge; ADA compliant.

Size: 19 inches (483 mm) diameter, nominal.
Faucet holes on 4 inch (102 mm) centers.
Faucet holes on 8 inch (203 mm) centers.
Single center faucet hole.
Color: White.
Color: Bone.
Color: _____.

Lavatory L-___: Lexington; vitreous china, self-rimming, front overflow, faucet ledge.
Size: 21-5/8 inches (549 mm) wide by 19-1/4 inches (489 mm) front to back, nominal.
Faucet holes on 4 inch (102 mm) centers.
Faucet holes on 8 inch (203 mm) centers.
Single center faucet hole.
Color: White.
Color: Bone.
Color: _____.

Lavatory L-___: Renaissance; vitreous china, self-rimming, front overflow, faucet ledge.
Round: 19 inches (483 mm) diameter, nominal.
Oval: 20 inches (508 mm) wide by 17 inches (432 mm) front to back, nominal.
Faucet holes on 4 inch (102 mm) centers.
Faucet holes on 8 inch (203 mm) centers.
Color: White.
Color: Bone.
Color: Silver.
Color: Black.

Lavatory L-___: Highlyn; enameled cast iron, self-rimming, front overflow, faucet ledge.
Size: 20 inches (508 mm) wide by 18 inches (457 mm) front to back, nominal.
Faucet holes on 4 inch (102 mm) centers.
Faucet holes on 8 inch (203 mm) centers.
Color: White.
Color: Bone.
Color: Silver.
Color: Shell.
Color: Fawn beige.

Lavatory L-___: Circlyn; enameled cast iron, self-rimming, front overflow, faucet ledge; ADA compliant.
Size: 18 inches (457 mm) diameter, nominal.

Faucet holes on 4 inch (102 mm) centers.
Faucet holes on 8 inch (203 mm) centers.
Color: White.
Color: Bone.
Color: Silver.
Color: Shell.
Color: Fawn beige.

Lavatory L-___: LedgeLyn; enameled cast iron, self-rimming, front overflow, faucet ledge; ADA compliant.
Size: 19 inches (483 mm) wide by 16 inches (406 mm) front to back, nominal.
Faucet holes on 4 inch (102 mm) centers.
Faucet holes on 8 inch (203 mm) centers.
Color: White.
Color: Bone.
Color: Silver.
Color: Shell.
Color: Fawn beige.

Lavatory L-___: Horizon; enameled cast iron, self-rimming, front overflow, faucet ledge.
Size: 19 inches (483 mm) diameter, nominal.
Faucet holes on 4 inch (102 mm) centers.
Color: White.
Color: Bone.
Color: _____.

Lavatory L-___: Oval Horizon; enameled cast iron, self-rimming, front overflow, faucet ledge.
Size: 20 inches (508 mm) wide by 17 inches (432 mm) front to back, nominal.
Faucet holes on 4 inch (102 mm) centers.
Faucet holes on 8 inch (203 mm) centers.
Color: White.
Color: Bone.
Color: _____.

Lavatory L-___: Vanette; enameled steel, self-rimming, front overflow, faucet ledge.
Size: 19 inches (483 mm) diameter, nominal.
Faucet holes on 4 inch (102 mm) centers.
Color: White.
Color: Bone.
Color: Silver.
Color: Shell.

Color: Fawn beige.

Lavatory L-___: Ovation; enameled steel, self-rimming, front overflow, faucet ledge.

Size: 20 inches (508 mm) wide by 17 inches (432 mm) front to back, nominal.

Faucet holes on 4 inch (102 mm) centers.

Color: White.

Color: Bone.

Color: Silver.

Color: Shell.

Color: Fawn beige.

Lavatory L-___: Acclivity; Americast Brand Engineered Material, front overflow with chrome trim ring.

Size: 19 inches (483 mm) diameter, nominal.

Faucet holes on 4 inch (102 mm) centers.

Faucet holes on 8 inch (203 mm) centers.

Single center faucet hole.

Color: White.

Color: Bone.

Color: _____.

Lavatory L-___: Affinity; Americast Brand Engineered Material, front overflow with chrome trim ring.

Size: 20-3/4 inches (527 mm) wide by 17-1/2 inches (445 mm) front to back, nominal.

Faucet holes on 4 inch (102 mm) centers.

Faucet holes on 8 inch (203 mm) centers.

Single center faucet hole.

Color: White.

Color: Bone.

Color: _____.

LAVATORY FAUCETS

Lavatory Faucets: Monterey; widespread, solid brass, washerless ceramic disc valve cartridge, 2.5 gpm (9.5 L/min) flow restrictor, polished chrome-plated; ADA compliant.

Connections: 8 inch (203 mm) rigid copper.

Connections: 12 inch (305 mm) rigid copper.

Spout: Gooseneck.

Spout: Standard.

Handles: Wristblade.

Handles: Lever.

Vandal resistant aerator and handles.

Pop-up drain.
Grid drain.

Lavatory Faucets: Heritage; widespread, solid brass, washerless ceramic disc valve cartridge, 2.5 gpm (9.5 L/min) flow restrictor, polished chrome-plated.

Connections: 8 inch (203 mm) rigid copper.

Connections: 6 to 12 inch (150 to 305 mm) reinforced flexible hose.

Spout: Gooseneck.

Spout: Standard.

Handles: Wristblade.

Handles: Lever.

Handles: _____.

Pop-up drain.

Grid drain.

Lavatory Faucets: Monterey; centerset, solid brass, washerless ceramic disc valve cartridge, 2.5 gpm (9.5 L/min) flow restrictor, polished chrome-plated; ADA compliant.

Spout: Gooseneck.

Spout: Standard.

Handles: Wristblade.

Handles: Lever.

Vandal resistant aerator and handles.

Pop-up drain.

Grid drain.

Lavatory Faucets: Heritage; centerset, solid brass, washerless ceramic disc valve cartridge, 2.5 gpm (9.5 L/min) flow restrictor, polished chrome-plated.

Spout: Gooseneck.

Spout: Standard.

Handles: Wristblade.

Handles: Lever.

Handles: _____.

Vandal resistant aerator.

Pop-up drain.

Grid drain.

Lavatory Faucets: Innsbrook; proximity sensor operation, solid brass, mixing valve, 24 inch (610 mm) flexible stainless steel hose for spout connection, polished chrome-plated; ADA compliant.

2.5 gpm (9.5 L/min) aerator.

0.5 gpm (1.9 L/min) vandal proof spray.

1.5 gpm (5.7 L/min) laminar flow spout.

Power: Battery, AA.
Power: Low voltage.
Vandal resistant wire conduit.

Lavatory Faucets: Metering faucet; cast brass, vandal resistant handle, 1.5 gpm (5.7 L/min) with adjustable metering cycle, maximum 0.25 gallon (1 L) flow per activation, polished chrome-plated; ADA compliant.

Mixing valve.

Escutcheon for mounting over 4 inch (102 mm) holes.

PART EXECUTION

EXAMINATION

Verify that piping and wiring are installed and in the right location.

PREPARATION

Install carriers and hangers for wall-mounted fixtures in walls before wall surface is completed.

INSTALLATION

Install fixtures and fittings in accordance with the manufacturer's instructions.

Install fixtures plumb and level.

Install fixtures and fittings at heights indicated on drawings.

Install fixtures and fittings at heights required by ADA and applicable plumbing code.

Anchor water closets to floor with screws or bolts.

Install piping connections as specified in Section 15145.

Seal fixtures to walls and floors with sealant specified in Section 07900.

ADJUSTING AND CLEANING

Adjust water flow rates to comply with manufacturer's rating of the fixture.

Clean fixtures of labels, dirt, and construction debris.

END OF SECTION