SECTION 224216.13 - COMMERCIAL LAVATORIES

TIPS:

To view non-printing Editor's Notes that provide guidance for editing, click on MasterWorks/Single-File Formatting/Toggle/Editor's Notes.

To read detailed research, technical information about products and materials, and coordination checklists, click on MasterWorks/Supporting Information.

Content Requests:

Revise this Section by deleting and inserting text to meet Project-specific requirements.

Verify that Section titles referenced in this Section are correct for this Project's Specifications; Section titles may have changed.

1. GENERAL
	* + 1. RELATED DOCUMENTS

Retain or delete this article in all Sections of Project Manual.

* + - * 1. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.
			1. SUMMARY
				1. Section Includes:

Enameled, cast-iron, counter-mounted lavatories.

Vitreous-china, counter-mounted lavatories.

Enameled, cast-iron, wall-mounted lavatories.

Vitreous-china, wall-mounted lavatories.

Precast GFRC, wall-mounted lavatories.

Precast GFRC, freestanding lavatories.

Lavatory systems.

Manually operated lavatory faucets.

Automatically operated lavatory faucets.

Supply fittings.

Waste fittings.

Lavatory supports.

* + - * 1. Related Requirements:

Retain subparagraphs below to cross-reference requirements Contractor might expect to find in this Section but are specified in other Sections.

Section 224100 "Residential Plumbing Fixtures" for residential lavatories.

Section 224300 "Healthcare Plumbing Fixtures" for healthcare lavatories.

Section 224600 "Security Plumbing Fixtures" for security lavatories.

* + - 1. ACTION SUBMITTALS
				1. Submittals for this section are subject to the re-evaluation fee identified in Article 4 of the General Conditions.
				2. Manufacturer’s installation instructions shall be provided along with product data.
				3. Submittals shall be provided in the order in which they are specified and tabbed (for combined submittals).
				4. Product Data: For each type of product.

Include construction details, material descriptions, dimensions of individual components and profiles, and finishes for lavatories.

Include rated capacities, operating characteristics, electrical characteristics, and furnished specialties and accessories.

* + - * 1. Sustainable Design Submittals:

Retain "Shop Drawings" Paragraphparagraph below if automatic, electronic-sensor faucets are required for Project.

* + - * 1. Shop Drawings: Include diagrams for power, signal, and control wiring of automatic faucets.
			1. INFORMATIONAL SUBMITTALS

Retain "Coordination Drawings" Paragraphparagraph below if coordination is required for installation of products and materials by separate installers.

* + - * 1. Coordination Drawings: Counter cutout templates for mounting of counter-mounted lavatories.
			1. CLOSEOUT SUBMITTALS
				1. Operation and Maintenance Data: For lavatories and faucets to include in operation and maintenance manuals.

Retain subparagraph below if automatic, electronic-sensor faucets are required for Project.

In addition to items specified ,specified, in Section 017823 "Operation and Maintenance Data," include the following:

Servicing and adjustments of automatic faucets.

* + - 1. MAINTENANCE MATERIAL SUBMITTALS
				1. Furnish extra materials that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.

Faucet Washers and O-Rings: Equal to [**10**] <**Insert number**> percent of amount of each type and size installed.

Faucet Cartridges and O-Rings: Equal to [**5**] <**Insert number**> percent of amount of each type and size installed.

1. PRODUCTS

Manufacturers and products listed in SpecAgent and MasterWorks Paragraph Builder are neither recommended nor endorsed by the AIA or Deltek. Before inserting names, verify that manufacturers and products listed there comply with requirements retained or revised in descriptions and are both available and suitable for the intended applications. For definitions of terms and requirements for Contractor's product selection, see Section 016000 "Product Requirements."

Do not use same lavatory designation as is used for another lavatory in Section 224100 "Residential Plumbing Fixtures," Section 224300 "Healthcare Plumbing Fixtures," and Section 224600 "Security Plumbing Fixtures."

* + - 1. ENAMELED, CAST-IRON, COUNTER-MOUNTED LAVATORIES

Copy "Lavatory - Flat Rim, Enameled, Cast Iron, Flush Counter Mounted" Paragraphparagraph below and re-edit for each type of lavatory required.

Insert drawing designation. Use these designations on Drawings to identify each lavatory.

* + - * 1. Lavatory - Flat Rim, Enameled, Cast Iron, Flush Counter Mounted <**Insert drawing designation**>:

[Manufacturers:](http://www.specagent.com/Lookup?ulid=3721) Subject to compliance with requirements, provide products by the following:

[Kohler Co](http://www.specagent.com/Lookup?uid=123457173601).

Approved equivalent.

Fixture:

Standard: ASME A112.19.1/CSA B45.2.

Type: For flush mounting with kit.

Nominal Size: Rectangular, [**18 by 15 inches (457 by 381 mm)**] [**20 by 18 inches (508 by 457 mm)**].

Faucet-Hole Punching: [**Three holes, 2-inch (51-mm)**] [**Three holes, 4-inch (102-mm)**] centers.

Faucet-Hole Location: Top.

Color: [**White**] <**Insert color**>.

Mounting Materials: With stainless steel ring and sealant.

Faucet: <**Insert lavatory faucet designation from "Manually Operated Lavatory Faucets" or "Automatically Operated Lavatory Faucets" Article**>.

Copy "Lavatory - Self-Rimming, Enameled, Cast Iron, Counter Mounted" Paragraphparagraph below and re-edit for each type of lavatory required.

Insert drawing designation. Use these designations on Drawings to identify each lavatory.

* + - * 1. Lavatory - Self-Rimming, Enameled, Cast Iron, Counter Mounted <**Insert drawing designation**>:

[Manufacturers:](http://www.specagent.com/Lookup?ulid=3722) Subject to compliance with requirements, provide products by one of the following:

[Kohler Co](http://www.specagent.com/Lookup?uid=123457173651).

[Zurn Industries, LLC](http://www.specagent.com/Lookup?uid=123457173652).

Approved equivalent.

Fixture:

Standard: ASME A112.19.1/CSA B45.2.

Type: Self-rimming for above-counter mounting.

Nominal Size: Oval, [**20 by 17 inches (508 by 432 mm)**] [**24 by 18 inches (610 by 457 mm)**] <**Insert dimensions**>.

Faucet-Hole Punching: [**One hole**] [**Three holes, 2 inch (51-mm) centers**] [**Three holes, 4-inch (102-mm) centers**].

Faucet-Hole Location: Top.

Color: [**White**] <**Insert color**>.

Mounting Material: Sealant.

Faucet: <**Insert lavatory faucet designation from "Manually Operated Lavatory Faucets" or "Automatically Operated Lavatory Faucets" Article**>.

Copy "Lavatory - Enameled, Cast Iron, Undercounter Mounted" Paragraphparagraph below and re-edit for each type of lavatory required.

Insert drawing designation. Use these designations on Drawings to identify each lavatory.

* + - * 1. Lavatory - Enameled, Cast Iron, Undercounter Mounted <**Insert drawing designation**>:

[Manufacturers:](http://www.specagent.com/Lookup?ulid=3723) Subject to compliance with requirements, provide products by the following:

[Kohler Co](http://www.specagent.com/Lookup?uid=123457173653).

Approved equivalent.

Fixture:

Standard: ASME A112.19.1/CSA B45.2.

Type: For undercounter mounting.

Nominal Size: Oval, [**24 by 18 inches (610 by 457 mm)**] <**Insert dimensions**>.

Faucet-Hole Punching: No holes.

Faucet-Hole Location: On countertop.

Color: [**White**] <**Insert color**>.

Mounting Materials: Sealant and undercounter mounting kit.

Faucet: <**Insert lavatory faucet designation from "Manually Operated Lavatory Faucets" or "Automatically Operated Lavatory Faucets" Article**>.

* + - 1. VITREOUS-CHINA, COUNTER-MOUNTED LAVATORIES

Copy "Lavatory - Self-Rimming, Rectangular, Vitreous China, Counter Mounted" Paragraphparagraph below and re-edit for each type of required.

Insert drawing designation. Use these designations on Drawings to identify each lavatory.

* + - * 1. Lavatory - Self-Rimming, Rectangular, Vitreous China, Counter Mounted <**Insert drawing designation**>:

[Manufacturers:](http://www.specagent.com/Lookup?ulid=3724) Subject to compliance with requirements, provide products by one of the following:

[American Standard](http://www.specagent.com/Lookup?uid=123457173655).

[Kohler Co](http://www.specagent.com/Lookup?uid=123457173654).

[TOTO USA, INC](http://www.specagent.com/Lookup?uid=123457173657).

Approved equivalent.

Fixture:

Standard: ASME A112.19.2/CSA B45.1.

Type: Self-rimming for above-counter mounting.

Nominal Size: Rectangular, [**21 by 19 inches (533 by 483 mm)**] [**24 by 20 inches (610 by 508 mm)**] <**Insert dimensions**>.

Faucet-Hole Punching: [**One hole**] [**Three holes, 2-inch (51-mm) centers**] [**Three holes, 4-inch (102-mm) centers**].

Faucet-Hole Location: Top.

Color: [**White**] <**Insert color**>.

Mounting Material: Sealant.

Faucet: <**Insert lavatory faucet designation from "Manually Operated Lavatory Faucets" or "Automatically Operated Lavatory Faucets" Article**>.

Copy "Lavatory - Self-Rimming, Vitreous China, Counter Mounted" Paragraphparagraph below and re-edit for each type of required.

Insert drawing designation. Use these designations on Drawings to identify each lavatory.

* + - * 1. Lavatory - Self-Rimming, Vitreous China, Counter Mounted <**Insert drawing designation**>:

[Manufacturers:](http://www.specagent.com/Lookup?ulid=3725) Subject to compliance with requirements, provide products by one of the following:

[American Standard](http://www.specagent.com/Lookup?uid=123457173667).

[Crane Plumbing, LLC; a division of American Standard](http://www.specagent.com/Lookup?uid=123457173662).

[Kohler Co](http://www.specagent.com/Lookup?uid=123457173668).

[Zurn Industries, LLC](http://www.specagent.com/Lookup?uid=123457173670).

Approved equivalent.

Fixture:

Standard: ASME A112.19.2/CSA B45.1.

Type: Self-rimming for above-counter mounting.

Nominal Size:

Retain one of first two subparagraphs below. Retain first for oval lavatories and second for round lavatories.

Oval, [**19 by 17 inches (483 by 432 mm)**] [**20 by 17 inches (508 by 432 mm)**] <**Insert dimensions**>.

Round, [**19 inches (483 mm)**] <**Insert dimension**>.

Faucet-Hole Punching: [**One hole**] [**Three holes, 2-inch (51-mm) centers**] [**Three holes, 4-inch (102-mm) centers**].

Faucet-Hole Location: Top.

Color: [**White**] <**Insert color**>.

Mounting Material: Sealant.

Faucet: <**Insert lavatory faucet designation from "Manually Operated Lavatory Faucets" or "Automatically Operated Lavatory Faucets" Article**>.

Copy "Lavatory - Vitreous China, Undercounter Mounted" Paragraphparagraph below and re-edit for each type of lavatory required.

Insert drawing designation. Use these designations on Drawings to identify each lavatory.

* + - * 1. Lavatory - Vitreous China, Undercounter Mounted <**Insert drawing designation**>:

[Manufacturers:](http://www.specagent.com/Lookup?ulid=3726) Subject to compliance with requirements, provide products by one of the following:

[American Standard](http://www.specagent.com/Lookup?uid=123457173676).

[Kohler Co](http://www.specagent.com/Lookup?uid=123457173674).

[Sloan Valve Company](http://www.specagent.com/Lookup?uid=123457173683).

[Zurn Industries, LLC](http://www.specagent.com/Lookup?uid=123457173680).

Approved equivalent.

Fixture:

Standard: ASME A112.19.2/CSA B45.1.

Type: For undercounter mounting.

Nominal Size: Oval, [**19 by 16 inches (483 by 406 mm)**] [**22 by 14 inches (559 by 356 mm)**] [**23 by 15 inches (584 by 381 mm)**] <**Insert dimensions**>.

Faucet-Hole Punching: No holes.

Faucet-Hole Location: On countertop.

Color: [**White**] <**Insert color**>.

Mounting Material: Sealant and undercounter mounting kit.

Faucet: <**Insert lavatory faucet designation from "Manually Operated Lavatory Faucets" or "Automatically Operated Lavatory Faucets" Article**>.

* + - 1. ENAMELED, CAST-IRON, WALL-MOUNTED LAVATORIES

Copy "Lavatory - Enameled, Cast Iron, Wall Mounted" Paragraphparagraph below and re-edit for each type of lavatory required.

Insert drawing designation. Use these designations on Drawings to identify each lavatory.

* + - * 1. Lavatory - Enameled, Cast Iron, Wall Mounted <**Insert drawing designation**>:

[Manufacturers:](http://www.specagent.com/Lookup?ulid=3727) Subject to compliance with requirements, provide products by one of the following:

[American Standard](http://www.specagent.com/Lookup?uid=123457173684).

[Kohler Co](http://www.specagent.com/Lookup?uid=123457173687).

[Zurn Industries, LLC](http://www.specagent.com/Lookup?uid=123457173688).

Approved equivalent.

Fixture:

Standard: ASME A112.19.1/CSA B45.2.

Type: Straight-front apron with straight back.

Nominal Size: Rectangular, [**19 by 17 inches (483 by 432 mm)**] [**20 by 18 inches (508 by 457 mm)**].

Faucet-Hole Punching: [**One hole**] [**Three holes, 2-inch (51-mm) centers**] [**Three holes, 4-inch (102-mm) centers**].

Faucet-Hole Location: Top.

Color: [**White**] <**Insert color**>.

Mounting Material: Wall bracket.

Faucet: <**Insert lavatory faucet designation from "Manually Operated Lavatory Faucets" or "Automatically Operated Lavatory Faucets" Article**>.

Coordinate "Support" Subparagraphsubparagraph below with "Lavatory Supports" Article.

Support: [**Type III lavatory carrier**].[**Include rectangular, steel uprights**] <**Insert carrier**>.

Lavatory Mounting Height: [**Standard**] [**Child**] [**Handicapped/elderly in accordance with ICCUNIFORM CODE A117.1**].

Design Consultant to review code references and verify that the referenced sections/tables are current. Note that code references shall be based on the current version of the Uniform Code.

* + - 1. VITREOUS-CHINA, WALL-MOUNTED LAVATORIES

Copy "Lavatory - Vitreous China, Wall Mounted, with Back" Paragraphparagraph below and re-edit for each type of lavatory required.

Insert drawing designation. Use these designations on Drawings to identify each lavatory.

* + - * 1. Lavatory - Vitreous China, Wall Mounted, with Back <**Insert drawing designation**>:

[Manufacturers:](http://www.specagent.com/Lookup?ulid=3729) Subject to compliance with requirements, provide products by one of the following:

[American Standard](http://www.specagent.com/Lookup?uid=123457173689).

[Kohler Co](http://www.specagent.com/Lookup?uid=123457173693).

[Zurn Industries, LLC](http://www.specagent.com/Lookup?uid=123457173697).

Approved equivalent.

Fixture:

Standard: ASME A112.19.2/CSA B45.1.

Type: For wall hanging.

Nominal Size: Rectangular, [**18 by 16 inches (457 by 406 mm)**] [**20 by 18 inches (508 by 457 mm)**] <**Insert dimensions**>.

Faucet-Hole Punching: [**One hole**] [**Three holes, 2-inch (51-mm) centers**] [**Three holes, 4-inch (102-mm) centers**].

Faucet-Hole Location: Top.

Color: [**White**] <**Insert color**>.

Mounting Material: Chair carrier.

Faucet: <**Insert lavatory faucet designation from "Manually Operated Lavatory Faucets" or "Automatically Operated Lavatory Faucets" Article**>.

Coordinate "Support" Subparagraphsubparagraph below with "Lavatory Supports" Article.

Support: [**Type I, exposed-arm lavatory carrier**] [**Type II, concealed-arm lavatory carrier**] [**Type II, concealed-arm lavatory carrier with escutcheons**].[**Include rectangular, steel uprights**].

Lavatory Mounting Height: [**Standard**] [**Child**] [**Handicapped/elderly in accordance with ICCUNIFORM CODE A117.1**].

Copy "Lavatory - Ledge Back, Vitreous China, Wall Mounted" Paragraphparagraph below and re-edit for each type of lavatory required.

Insert drawing designation. Use these designations on Drawings to identify each lavatory.

* + - * 1. Lavatory - Ledge Back, Vitreous China, Wall Mounted <**Insert drawing designation**>:

[Manufacturers:](http://www.specagent.com/Lookup?ulid=3730) Subject to compliance with requirements, provide products by one of the following:

[American Standard](http://www.specagent.com/Lookup?uid=123457173605).

[Kohler Co](http://www.specagent.com/Lookup?uid=123457173607).

[Sloan Valve Company](http://www.specagent.com/Lookup?uid=123457173614).

Approved equivalent.

Fixture:

Standard: ASME A112.19.2/CSA B45.1.

Type: For wall hanging.

Nominal Size: Rectangular, [**19 by 17 inches (483 by 432 mm)**] [**20 by 18 inches (508 by 457 mm)**] <**Insert dimensions**>.

Faucet-Hole Punching: [**One hole**] [**Three holes, 2-inch (51-mm) centers**] [**Three holes, 4-inch (102-mm) centers**].

Faucet-Hole Location: Top.

Color: [**White**] <**Insert color**>.

Mounting Material: Chair carrier.

Faucet: <**Insert lavatory faucet designation from "Manually Operated Lavatory Faucets" or "Automatically Operated Lavatory Faucets" Article**>.

Coordinate "Support" Subparagraphsubparagraph below with "Lavatory Supports" Article.

Support: [**Type I, exposed-arm lavatory carrier**] [**Type II, concealed-arm lavatory carrier**] [**Type II, concealed-arm lavatory carrier with escutcheons**].[**Include rectangular, steel uprights**] <**Insert carrier**>.

Lavatory Mounting Height: [**Standard**] [**Child**] [**Handicapped/elderly in accordance with ICCUNIFORM CODE A117.1**].

Copy "Lavatory - Wheelchair, Vitreous China, Wall Mounted" Paragraphparagraph below and re-edit for each type of lavatory required.

Insert drawing designation. Use these designations on Drawings to identify each lavatory.

* + - * 1. Lavatory - Wheelchair, Vitreous China, Wall Mounted <**Insert drawing designation**>:

[Manufacturers:](http://www.specagent.com/Lookup?ulid=3732) Subject to compliance with requirements, provide products by one of the following:

[American Standard](http://www.specagent.com/Lookup?uid=123457173700).

[Kohler Co](http://www.specagent.com/Lookup?uid=123457173704).

[Sloan Valve Company](http://www.specagent.com/Lookup?uid=123457173708).

[Zurn Industries, LLC](http://www.specagent.com/Lookup?uid=123457173709).

Approved equivalent.

Fixture:

Standard: ASME A112.19.2/CSA B45.1.

Type: Slab or wheelchair.

Nominal Size: Rectangular, 27 by 20 inches (686 by 508 mm).

Faucet-Hole Punching: [**One hole**] [**Three holes, 2-inch (51-mm) centers**] [**Three holes, 4-inch (102 mm) centers**] [**Three holes, 5- to 6-inch (127- to 150-mm) centers**].

Faucet-Hole Location: Top.

Color: [**White**] <**Insert color**>.

Mounting: For concealed-arm carrier.

Faucet: <**Insert lavatory faucet designation from "Manually Operated Lavatory Faucets" or "Automatically Operated Lavatory Faucets" Article**>.

Coordinate "Support" Subparagraphsubparagraph below with "Lavatory Supports" Article.

Support: [**Type II, concealed-arm lavatory carrier**] [**Type II, concealed-arm lavatory carrier with escutcheons**].[**Include rectangular, steel uprights**].

Lavatory Mounting Height: [**Child**] [**Handicapped/elderly in accordance with ICCUNIFORM CODE A117.1**].

Copy "Lavatory - Corner Type, Vitreous China, Wall Mounted" Paragraphparagraph below and re-edit for each type of lavatory required.

Insert drawing designation. Use these designations on Drawings to identify each lavatory.

* + - * 1. Lavatory - Corner Type, Vitreous China, Wall Mounted <**Insert drawing designation**>:

[Manufacturers:](http://www.specagent.com/Lookup?ulid=3733) Subject to compliance with requirements, provide products by one of the following:

[American Standard](http://www.specagent.com/Lookup?uid=123457173710).

[Sloan Valve Company](http://www.specagent.com/Lookup?uid=123457173712).

Approved equivalent.

Fixture:

Standard: ASME A112.19.2/CSA B45.1.

Type: Three-sided-front apron with three-sided back.

Nominal Size: Corner, 16 by 16 inches (406 by 406 mm).

Faucet-Hole Punching: [**One hole**] [**Three holes, 2-inch (51-mm) centers**].

Faucet-Hole Location: Back wall.

Color: [**White**] <**Insert color**>.

Mounting Materials: Wall brackets.

Faucet: Manufacturer's standard; factory installed.

Coordinate "Support" Subparagraphsubparagraph below with "Lavatory Supports" Article.

Support: [**Type III lavatory carrier with two hanger plates made for corner lavatories**].[**Include rectangular, steel uprights**] <**Insert carrier**>.

Lavatory Mounting Height: [**Standard**] [**Child**] [**Handicapped/elderly in accordance with ICCUNIFORM CODE A117.1**].

* + - 1. PRECAST GFRC, WALL-MOUNTED LAVATORIES WITH INTEGRAL BASIN(S)

Copy "Lavatory - Precast GFRC, Wall-Mounted, Rectangular Countertop Deck with Integral Ramp Basin(s)" Paragraphparagraph below and re-edit for each type of lavatory required.

Insert drawing designation. Use these designations on Drawings to identify each lavatory.

* + - * 1. Lavatory - Precast GFRC, Wall-Mounted, Rectangular Countertop Deck with Integral Ramp Basin(s) <**Insert drawing designation**>:

Standard overall countertop size (per station) below complies with UPC, IPC, and IBC requirements. Some countertop sizes refer to specific standard products of TrueForm Concrete. Basins can be integral in any size countertop larger than the basin itself. Contact manufacturer for custom designs.

[Manufacturers:](http://www.specagent.com/Lookup?ulid=13844) Subject to compliance with requirements, provide products by the following:

[Trueform Concrete, LLC](http://www.specagent.com/Lookup?uid=123457173638).

Approved equivalent.

Basin(s) and Countertop:

Standard: CSA B45.8/IAPMO Z403 and ICCUNIFORM CODE A117.1.

Type: Straight front and side aprons with straight back.

Number of Stations: [**One**] [**Two**] [**Three**] [**Four**].

Overall Countertop Size: [**30 by 21 by 5 inches (per station) (762 by 533 by 127 mm)**] <**Insert dimension**>.

Basin I.D.: [**20 by 13 by 5 inches (508 by 330 by 127mm)**] [**18 by 12 by 5 inches (457 by 305 by 127 mm)**] [**14 by 10 by 5 inches (356 by 254 by 127 mm)**].

Faucet-Hole Punching (per Station): [**Zero holes**] [**One hole**] [**Three holes, 2-inch (51-mm) centers**] [**Three holes, 4-inch (102-mm) centers**] <**Insert hole pattern**>.

Faucet-Hole Location: [**Top**] [**Wall mount**].

Drain Type: Slot draindrain.

Color: [**White linen**] [**Concrete**] [**Charcoal**] [**Limestone**] [**Graphite**] [**Pewter**] [**Dusk**] [**Taupe**] <**Insert color**>.

Mounting: Concrete wall brackets.

Faucet: <**Insert lavatory faucet designation from "Manually Operated Lavatory Faucets" or "Automatically Operated Lavatory Faucets" Article**>.

Waste Fittings:

Standard: ASME A112.18.2/CSA B125.2.

Connection: 1-1/4-inch (32-mm) fine thread tailpiece.

Finish: [**Polished chrome**] [**Brushed nickel**] [**Oil-rubbed bronze**].

Support: Manufacturer's standard product.

Lavatory Mounting Height: [**Standard**] [**Child**] [**Handicapped/elderly in accordance with ICCUNIFORM CODE A117.1**].

Copy "Lavatory - Precast GFRC, Wall-Mounted, Rectangular Countertop Deck with Integral Rectangular Basin(s)" Paragraphparagraph below and re-edit for each type of lavatory required.

Insert drawing designation. Use these designations on Drawings to identify each lavatory.

* + - * 1. Lavatory - Precast GFRC, Wall-Mounted, Rectangular Countertop Deck with Integral Rectangular Basin(s) <**Insert drawing designation**>:

Standard overall countertop size (per station) below complies with UPC, IPC, and IBC requirements. Some countertop sizes refer to specific standard products of TrueForm Concrete. Basins can be integral in any size countertop larger than the basin itself. Contact manufacturer for custom designs.

[Manufacturers:](http://www.specagent.com/Lookup?ulid=13845) Subject to compliance with requirements, provide products by the following:

[Trueform Concrete, LLC](http://www.specagent.com/Lookup?uid=123457173639).

Approved equivalent.

Basin(s) and Countertop:

Standard: CSA B45.8/IAPMO Z403 and ICCUNIFORM CODE A117.1.

Type: Straight front and side aprons with straight back.

Number of Stations: [**One**] [**Two**] [**Three**] [**Four**].

Overall Countertop Size: [**30 by 21 by 5 inches (per station) (762 by 533 by 127 mm)**] <**Insert dimension**>.

Basin I.D.: 20 by 13 by 5 inches (508 by 330 by 127 mm).

Faucet-Hole Punching (per Station): [**Zero holes**] [**One hole**] [**Three holes, 2-inch (51-mm) centers**] [**Three holes, 4-inch (102-mm) centers**] <**Insert hole pattern**>.

Faucet-Hole Location: [**Top**] [**Wall mount**].

Drain Type: 1-1/4-inch (32-mm) grid drain assembly.

Color: [**White linen**] [**Concrete**] [**Charcoal**] [**Limestone**] [**Graphite**] [**Pewter**] [**Dusk**] [**Taupe**] <**Insert color**>.

Mounting: Concrete wall brackets.

Faucet: <**Insert lavatory faucet designation from "Manually Operated Lavatory Faucets" or "Automatically Operated Lavatory Faucets" Article**>.

Waste Fittings:

Standard: ASME A112.18.2/CSA B125.2.

Type: 1-1/4-inch (32-mm) grid drain assembly.

Finish: [**Polished chrome**] [**Brushed nickel**] [**Oil-rubbed bronze**].

Support: Manufacturer's standard product.

Lavatory Mounting Height: [**Standard**] [**Child**] [**Handicapped/elderly in accordance with ICCUNIFORM CODE A117.1**].

Copy "Lavatory - Precast GFRC, Wall-Mounted, Rectangular Countertop Deck with Integral Half-Trough Basin(s)" Paragraphparagraph below and re-edit for each type of lavatory required.

Insert drawing designation. Use these designations on Drawings to identify each lavatory.

* + - * 1. Lavatory - Precast GFRC, Wall-Mounted, Rectangular Countertop Deck with Integral Half-Trough Basin(s) <**Insert drawing designation**>:

Standard overall countertop size (per station) below complies with UPC, IPC, and IBC requirements. Some countertop sizes refer to specific standard products of TrueForm Concrete. Basins can be integral in any size countertop larger than the basin itself. Contact manufacturer for custom designs.

[Manufacturers:](http://www.specagent.com/Lookup?ulid=13846) Subject to compliance with requirements, provide products by the following:

[Trueform Concrete, LLC](http://www.specagent.com/Lookup?uid=123457173640).

Approved equivalent.

Fixture:

Standard: CSA B45.8/IAPMO Z403 and ICCUNIFORM CODE A117.1.

Type: Straight front and side aprons with straight back.

Number of Stations: [**One**] [**Two**] [**Three**] [**Four**].

Overall Countertop Size: [**30 by 21 by 5 inches (per station) (762 by 533 by 127 mm)**] <**Insert dimension**>.

Basin I.D.: [**20 by 13 by 5-1/2 inches (508 by 330 by 140 mm)**] [**16 by 14 by 5-1/2 inches (406 by 356 by 140 mm)**].

Faucet-Hole Punching (per Station): [**Zero holes**] [**One hole**] [**Three holes, 2-inch (51-mm) centers**] [**Three holes, 4-inch (102-mm) centers**] <**Insert hole pattern**>.

Faucet-Hole Location: [**Top**] [**Wall mount**].

Drain Type: 1-1/4-inch (32-mm) grid drain assembly.

Color: [**White linen**] [**Concrete**] [**Charcoal**] [**Limestone**] [**Graphite**] [**Pewter**] [**Dusk**] [**Taupe**] <**Insert color**>.

Mounting: Concrete wall brackets.

Faucet: <**Insert lavatory faucet designation from "Manually Operated Lavatory Faucets" or "Automatically Operated Lavatory Faucets" Article**>.

Waste Fittings:

Standard: ASME A112.18.2/CSA B125.2.

Type: 1-1/4-inch (32-mm) grid drain assembly.

Finish: [**Polished chrome**] [**Brushed nickel**] [**Oil-rubbed bronze**].

Support: Manufacturer's standard product.

Lavatory Mounting Height: [**Standard**] [**Child**] [**Handicapped/elderly in accordance with ICCUNIFORM CODE A117.1**].

* + - 1. PRECAST GFRC, WALL-MOUNTED, SINGLE-BASIN, MULTI-STATION LAVATORY

Copy "Lavatory - Precast GFRC, Two-Station, Wall-Mounted, Rectangular Countertop Deck with Single Integral Ramp Basin" Paragraphparagraph below and re-edit for each type of lavatory required.

Insert drawing designation. Use these designations on Drawings to identify each lavatory.

* + - * 1. Lavatory - Precast GFRC, Two-Station, Wall-Mounted, Rectangular Countertop Deck with Single Integral Ramp Basin <**Insert drawing designation**>:

Standard overall countertop size below complies with UPC, IPC, and IBC requirements. Some countertop sizes refer to specific standard products of TrueForm Concrete. Basins can be integral in any size countertop larger than the basin itself. Contact manufacturer for custom designs.

[Manufacturers:](http://www.specagent.com/Lookup?ulid=13847) Subject to compliance with requirements, provide products by the following:

[Trueform Concrete, LLC](http://www.specagent.com/Lookup?uid=123457173641).

Approved equivalent.

Fixture:

Standard: CSA B45.8/IAPMO Z403 and ICCUNIFORM CODE A117.1.

Type: Straight front and side aprons with straight back.

Overall Countertop Size: [**60 by 21 by 5 inches (1525 by 533 by 127 mm)**] [**72 by 21 by 5 inches (1829 by 533 by 127 mm)**] <**Insert dimension**>.

Basin I.D.: [**48 by 13 by 5 inches (1219 by 330 by 127 mm)**] [**50 by 12 by 5 inches (1270 by 305 by 127 mm)**] [**50 by 13 by 5 inches (1270 by 330 by 127 mm)**] [**60 by 13 by 5 inches (1524 by 330 by 127 mm)**].

Faucet-Hole Punching (per Station): [**Zero holes**] [**One hole**] [**Three holes, 2-inch (51-mm) centers**] [**Three holes, 4-inch (102-mm) centers**] <**Insert hole pattern**>.

Faucet-Hole Location: [**Top**] [**Wall mount**].

Drain Type: Slot drain.

Color: [**White linen**] [**Concrete**] [**Charcoal**] [**Limestone**] [**Graphite**] [**Pewter**] [**Dusk**] [**Taupe**] <**Insert color**>.

Mounting Material: Concrete wall brackets.

Faucet: <**Insert lavatory faucet designation from "Manually Operated Lavatory Faucets" or "Automatically Operated Lavatory Faucets" Article**>.

Waste Fittings:

Standard: ASME A112.18.2/CSA B125.2.

Type: 1-1/2-inch (38-mm) slip joint connection.

Finish: [**Polished chrome**] [**Brushed nickel**] [**Oil-rubbed bronze**].

Support: Manufacturer's standard product.

Lavatory Mounting Height: [**Standard**] [**Child**] [**Handicapped/elderly in accordance with ICCUNIFORM CODE A117.1**].

Copy "Lavatory - Precast GFRC, Three-Station, Wall-Mounted, Rectangular Countertop Deck with a Single Integral Ramp Basin" Paragraphparagraph below and re-edit for each type of lavatory required.

Insert drawing designation. Use these designations on Drawings to identify each lavatory.

* + - * 1. Lavatory - Precast GFRC, Three-Station, Wall-Mounted, Rectangular Countertop Deck with a Single Integral Ramp Basin <**Insert drawing designation**>:

Standard overall countertop size below complies with UPC, IPC, and IBC requirements. Some countertop sizes refer to specific standard products of TrueForm Concrete. Basins can be integral in any size countertop larger than the basin itself. Contact manufacturer for custom designs.

[Manufacturers:](http://www.specagent.com/Lookup?ulid=13848) Subject to compliance with requirements, provide products by the following:

[Trueform Concrete, LLC](http://www.specagent.com/Lookup?uid=123457173642).

Approved equivalent.

Fixture:

Standard: CSA B45.8/IAPMO Z403 and ICCUNIFORM CODE A117.1.

Type: Straight front and side aprons with straight back.

Overall Countertop Size: [**72 by 21 by 5 inches (1829 by 533 by 127 mm)**] [**90 by 21 by 5 inches (2286 by 533 by 127 mm)**] <**Insert dimension**>.

Basin I.D.: [**60 by 13 by 5 inches (1524 by 330 by 127 mm)**] [**72 by 13 by 5 inches (1829 by 330 by 127 mm)**] [**80 by 12 by 5 inches (2032 by 305 by 127 mm)**] [**84 by 12 by 5 inches (2134 by 305 by 127 mm)**].

Faucet-Hole Punching (per Station): [**Zero holes**] [**One hole**] [**Three holes, 2-inch (51-mm) centers**] [**Three holes, 4-inch (102-mm) centers**] <**Insert hole pattern**>.

Faucet-Hole Location: [**Top**] [**Wall mount**].

Drain Type: Slot drain.

Color: [**White linen**] [**Concrete**] [**Charcoal**] [**Limestone**] [**Graphite**] [**Pewter**] [**Dusk**] [**Taupe**] <**Insert color**>.

Mounting Material: Concrete wall brackets.

Faucet: <**Insert lavatory faucet designation from "Manually Operated Lavatory Faucets" or "Automatically Operated Lavatory Faucets" Article**>.

Waste Fittings:

Standard: ASME A112.18.2/CSA B125.2.

Type: 1-1/2-inch (38-mm) slip joint connection.

Finish: [**Polished chrome**] [**Brushed nickel**] [**Oil-rubbed bronze**].

Support: Manufacturer's standard product.

Lavatory Mounting Height: [**Standard**] [**Child**] [**Handicapped/elderly in accordance with ICCUNIFORM CODE A117.1**].

Copy "Lavatory - Precast GFRC, Four-Station, Wall-Mounted, Rectangular Countertop Deck with Single Integral Ramp Basin" Paragraphparagraph below and re-edit for each type of lavatory required.

Insert drawing designation. Use these designations on Drawings to identify each lavatory.

* + - * 1. Lavatory - Precast GFRC, Four-Station, Wall-Mounted, Rectangular Countertop Deck with Single Integral Ramp Basin <**Insert drawing designation**>:

Standard overall countertop size below complies with UPC, IPC, and IBC requirements. Some countertop sizes refer to specific standard products of TrueForm Concrete. Basins can be integral in any size countertop larger than the basin itself. Contact manufacturer for custom designs.

[Manufacturers:](http://www.specagent.com/Lookup?ulid=13849) Subject to compliance with requirements, provide products by the following:

[Trueform Concrete, LLC](http://www.specagent.com/Lookup?uid=123457173643).

Approved equivalent.

Fixture:

Standard: CSA B45.8/IAPMO Z403 and ICCUNIFORM CODE A117.1.

Type: Straight front and side aprons with straight back.

Overall Countertop Size: [**106 by 21 by 5 inches (2692 by 533 by 127 mm)**] [**120 by 21 by 5 inches (3048 by 533 by 127 mm)**] <**Insert dimension**>.

Basin I.D.: [**96 by 12 by 5 inches (2438 by 305 by 127 mm)**] [**110 by 12 by 5 inches (2794 by 305 by 127 mm)**].

Faucet-Hole Punching (per Station): [**Zero holes**] [**One hole**] [**Three holes, 2-inch (51-mm) centers**] [**Three holes, 4-inch (102-mm) centers**] <**Insert hole pattern**>.

Faucet-Hole Location: [**Top**] [**Wall mount**].

Drain Type: Slot drain.

Color: [**White linen**] [**Concrete**] [**Charcoal**] [**Limestone**] [**Graphite**] [**Pewter**] [**Dusk**] [**Taupe**] <**Insert color**>.

Mounting Material: Concrete wall brackets.

Faucet: <**Insert lavatory faucet designation from "Manually Operated Faucets" or "Automatically Operated Lavatory Faucets" Article**>.

Waste Fittings:

Standard: ASME A112.18.2/CSA B125.2.

Type: 1-1/2-inch (38-mm) slip joint connection.

Finish: [**Polished chrome**] [**Brushed nickel**] [**Oil-rubbed bronze**].

Support: Manufacturer's standard product.

Lavatory Mounting Height: [**Standard**] [**Child**] [**Handicapped/elderly in accordance with ICCUNIFORM CODE A117.1**].

* + - 1. PRECAST GFRC, FREESTANDING LAVATORIES, MULTI-STATION

Copy "Lavatory - Precast GFRC, Two-Station, Freestanding, Rectangular Countertop Deck with Integral Ramp Basin" Paragraphparagraph below and re-edit for each type of lavatory required.

Insert drawing designation. Use these designations on Drawings to identify each lavatory.

* + - * 1. Lavatory - Precast GFRC, Two-Station, Freestanding, Rectangular Countertop Deck with Integral Ramp Basin <**Insert drawing designation**>:

Standard overall countertop size below complies with UPC, IPC, and IBC requirements. Some countertop sizes refer to specific standard products of TrueForm Concrete. Basins can be integral in any size countertop larger than the basin itself. Contact manufacturer for custom designs.

[Manufacturers:](http://www.specagent.com/Lookup?ulid=13850) Subject to compliance with requirements, provide products by the following:

[Trueform Concrete, LLC](http://www.specagent.com/Lookup?uid=123457173644).

Approved equivalent.

Fixture:

Standard: CSA B45.8/IAPMO Z403 and ICCUNIFORM CODE A117.1.

Type: Straight front and side aprons with straight back.

Overall Countertop size: [**68 by 22 by 5 inches (1727 by 559 by 127 mm)**] <**Insert dimension**>.

Basin I.D.: [**48 by 13 by 5 inches (1219 by 330 by 127 mm)**] [**50 by 12 by 5 inches (1270 by 305 by 127 mm)**] [**50 by 13 by 5 inches (1270 by 330 by 127 mm)**] [**60 by 13 by 5 inches (1524 by 330 by 127 mm)**].

Faucet-Hole Punching (per Station): [**Zero holes**] [**One hole**] [**Three holes, 2-inch (51-mm) centers**] [**Three holes, 4-inch (102-mm) centers**] <**Insert hole pattern**>.

Faucet-Hole Location: [**Top**] [**Wall mount**].

Drain Type: Slot drain.

Color: [**White linen**] [**Concrete**] [**Charcoal**] [**Limestone**] [**Graphite**] [**Pewter**] [**Dusk**] [**Taupe**] <**Insert color**>.

Mounting Material: Concrete sink steel base.

Faucet: <**Insert lavatory faucet designation from "Manually Operated Lavatory Faucets" or "Automatically Operated Lavatory Faucets" Article**>.

Waste Fittings:

Standard: ASME A112.18.2/CSA B125.2.

Type: 1-1/2-inch (38-mm) slip joint connection.

Finish: [**Polished chrome**] [**Brushed nickel**] [**Oil-rubbed bronze**].

Support: Concrete sink steel base.

Lavatory Height: Handicapped/elderly in accordance with ICCUNIFORM CODE A117.1.

Copy "Lavatory - Precast GFRC, Three-Station, Freestanding, Rectangular Countertop Deck with Integral Ramp Basin" Paragraphparagraph below and re-edit for each type of lavatory required.

Insert drawing designation. Use these designations on Drawings to identify each lavatory.

* + - * 1. Lavatory - Precast GFRC, Three-Station, Freestanding, Rectangular Countertop Deck with Integral Ramp Basin <**Insert drawing designation**>:

Standard overall countertop size below complies with UPC, IPC, and IBC requirements. Some countertop sizes refer to specific standard products of TrueForm Concrete. Basins can be integral in any size countertop larger than the basin itself. Contact manufacturer for custom designs.

[Manufacturers:](http://www.specagent.com/Lookup?ulid=13851) Subject to compliance with requirements, provide products by the following:

[Trueform Concrete, LLC](http://www.specagent.com/Lookup?uid=123457173645).

Approved equivalent.

Fixture:

Standard: CSA B45.8/IAPMO Z403 and ICCUNIFORM CODE A117.1.

Type: Straight front and side aprons with straight back.

Overall Countertop Size: [**72 by 22 by 5 inches (1829 by 559 by 127 mm)**] [**84 by 22 by 5 inches (2134 by 559 by 127 mm)**] [**98 by 22 by 5 inches (2489 by 559 by 127 mm)**] <**Insert dimension**>.

Basin I.D.: [**60 by 13 by 5 inches (1524 by 330 by 127 mm)**] [**72 by 13 by 5 inches (1829 by 330 by 127 mm)**] [**80 by 12 by 5 inches (2032 by 305 by 127 mm)**] [**84 by 12 by 5 inches (2134 by 305 by 127 mm)**].

Faucet-Hole Punching (per Station): [**Zero holes**] [**One hole**] [**Three holes, 2-inch (51-mm) centers**] [**Three holes, 4-inch (102-mm) centers**] <**Insert hole pattern**>.

Faucet-Hole Location: [**Top**] [**Wall mount**].

Drain Type: Slot drain.

Color: [**White linen**] [**Concrete**] [**Charcoal**] [**Limestone**] [**Graphite**] [**Pewter**] [**Dusk**] [**Taupe**] <**Insert color**>.

Mounting Material: Concrete sink steel base.

Faucet: <**Insert lavatory faucet designation from "Manually Operated Lavatory Faucets" or "Automatically Operated Lavatory Faucets" Article**>.

Waste Fittings:

Standard: ASME A112.18.2/CSA B125.2.

Type: 1-1/2-inch (38-mm) slip joint connection.

Finish: [**Polished chrome**] [**Brushed nickel**] [**Oil-rubbed bronze**].

Support: Manufacturer's concrete sink steel base.

Lavatory Height: Handicapped/elderly in accordance with ICCUNIFORM CODE A117.1.

Copy "Lavatory - Precast GFRC, Four-Station, Freestanding, Rectangular Countertop Deck with Integral Ramp Basin" Paragraphparagraph below and re-edit for each type of lavatory required.

Insert drawing designation. Use these designations on Drawings to identify each lavatory.

* + - * 1. Lavatory - Precast GFRC, Four-Station, Freestanding, Rectangular Countertop Deck with Integral Ramp Basin <**Insert drawing designation**>:

Standard overall countertop size below complies with UPC, IPC, and IBC requirements. Some countertop sizes refer to specific standard products of TrueForm Concrete. Basins can be integral in any size countertop larger than the basin itself. Contact manufacturer for custom designs.

[Manufacturers:](http://www.specagent.com/Lookup?ulid=13852) Subject to compliance with requirements, provide products by the following:

[Trueform Concrete, LLC](http://www.specagent.com/Lookup?uid=123457173646).

Approved equivalent.

Fixture:

Standard: CSA B45.8/IAPMO Z403 and ICCUNIFORM CODE A117.1.

Type: Straight front and side aprons with straight back.

Overall Countertop Size: [**107 by 22 by 5 inches (2718 by 559 by 127 mm)**] [**128 by 22 by 5 inches (3251 by 559 by 127 mm)**] <**Insert dimension**>.

Basin I.D.: [**96 by 12 by 5 inches (2438 by 305 by 127 mm)**] [**110 by 12 by 5 inches (2794 by 305 by 127 mm)**].

Faucet-Hole Punching (per Station): [**Zero holes**] [**One hole**] [**Three holes, 2-inch (51-mm) centers**] [**Three holes, 4-inch (102-mm) centers**] <**Insert hole pattern**>.

Faucet-Hole Location: [**Top**] [**Wall mount**].

Drain Type: Slot drain.

Color: [**White linen**] [**Concrete**] [**Charcoal**] [**Limestone**] [**Graphite**] [**Pewter**] [**Dusk**] [**Taupe**] <**Insert color**>.

Mounting Material: Concrete sink steel base.

Faucet: <**Insert lavatory faucet designation from "Manually Operated Lavatory Faucets" or "Automatically Operated Lavatory Faucets" Article**>.

Waste Fittings:

Standard: ASME A112.18.2/CSA B125.2.

Type: 1-1/2-inch (38-mm) slip joint connection.

Finish: [**Polished chrome**] [**Brushed nickel**] [**Oil-rubbed bronze**].

Support: Manufacturer's concrete sink steel base.

Lavatory Height: Handicapped/elderly in accordance with ICCUNIFORM CODE A117.1.

* + - 1. LAVATORY SYSTEMS

Lavatory systems are a completely integrated sink system that typically includes sensor-operated faucets, sensor-operated soap dispensers, and electric deck-mounted hand dryers. They are available in solid-surface materials and natural quartz and are customizable to fit the application.

Copy "Lavatory System - Single or Multiple Stations" Paragraphparagraph below and re-edit for each type of lavatory system required.

Insert drawing designation. Use these designations on Drawings to identify each solid-surface, lavatory system.

* + - * 1. Lavatory System - Single or Multiple Stations <**Insert drawing designation**>:

[Manufacturers:](http://www.specagent.com/Lookup?ulid=13853) Subject to compliance with requirements, provide products by one of the following:

[Lovair](http://www.specagent.com/Lookup?uid=123457173649).

[Sloan Valve Company](http://www.specagent.com/Lookup?uid=123457173648).

Approved equivalent.

Standards: ASME A112.18.1/CSA B125.1, ANSI A117.1, CSA B45.5/IAPMO Z124, NSF 61, NSF 372, and UPC, IPC, and GREENGUARD Certified.

Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.

Bowl(s) and Counter:

Material: Solid-surface or natural quartz surface.

Height to Rim: [**34 inches (864 mm)**] <**Insert dimension**> above floor.

Color or Finish: [**Not applicable**] <**Insert if required**>.

Access Panel: 16-1/8-inch (410-mm) access panel.

Mounting: Wall hung.

Number of Stations: [**One**] [**Two**] [**Three**] [**Four**].

Drain: Grid with NPS 1-1/2 (DN 40) tailpiece, each bowl.

Pedestal: [**Not required**] [**Required, with access panel**].

Faucets:

Type: Manufacturer's standard, chrome-plated solid brass, each bowl.

Verify option retained in "Control" Subparagraphsubparagraph below is available from listed manufacturers and for type of lavatory system required.

Control: [**Manual, push-button**] [**Hardwired, sensor-actuated**] [**Battery-powered, sensor-actuated**][**, pressure-balancing**] mixing valve with check stops for each user station.

Mixer Point-of-Use:

Material: Solid bimetal (bronze, brass, stainless steel).

Security: Hot limit stop set to a maximum of 109.4 deg F (43 deg C).

Set: Screwdriver adjustment temperature dial with scale: Cold-hot.

Operation: Electronic "no-touch" hardwired powered.

Power: 120 V ac.

High-speed, warm-air hand dryer.

In "Mounting" Subparagraphsubparagraph below, retain last option for surface-mounted units that project from walls by a limited dimension and that comply with the Americans with Disabilities Act (ADA) and Architectural Barriers Act (ABA) Accessibility Guidelines for Buildings and Facilities. Recessed and semirecessed may also comply with the ADA-ABA.

Mounting: [**Surface mounted**][**, with low-profile design**].

Operation: Electronic-sensor activated with operation time of [**10 to 20**] <**Insert number(s)**> seconds.

Cover Material and Finish: [**Chrome-plated steel**] <**Insert material and finish**>.

Electrical Requirements: [**115 V, 13 A, 1500 W**] [**115 V, 15 A, 1725 W**] [**115 V, 20 A, 2300 W**] [**208-240 V, 9-10 A, 1900-2300 W**] <**Insert electrical requirements**>.

Verify first or second option, if retained in "Liquid-Soap Dispensers" Subparagraphsubparagraph below, is available from listed manufacturers and for type of wash fountain required. Typically, sensor-operated soap dispensers are battery powered; however, they require hardwiring if the nozzles are hardwired.

Liquid-Soap Dispensers: [**Hardwired, sensor actuated**] [**Battery powered, sensor actuated**] [**Not required**], for each user station.

Mounting: Off floor on wall brackets and frame enclosure.

Supply Fittings:

Piping: NPS 1/2 (DN 15) copper tubing, each bowl.

Valves: Shutoff valve on each supply.

Supply Piping: From wall.

Waste Fittings:

Standard: ASME A112.18.2/CSA B125.2.

Trap and Drain Piping: NPS 1-1/2 (DN 40), each bowl.

* + - 1. MANUALLY OPERATED LAVATORY FAUCETS

The U.S. Safe Drinking Water Act (SDWA) has required national compliance with less than or equal to 0.25 percent weighted average lead content at wetted surfaces for pipe, fittings, and devices intended to convey or dispense water for human consumption since January 2014. The IPC and UPC have the same requirements. Items in compliance with NSF 61 and 372 also meet this requirement. Some manufacturers choose to meet this requirement through independent testing and have "Certified Lead Free" products which may or may not have NSF 61 or 372 certification.

* + - * 1. Lavatory faucets intended to convey or dispense water for human consumption are to comply with the U.S. Safe Drinking Water Act (SDWA), with requirements of the Authority Having Jurisdiction (AHJ), and with NSF 61/NSF 372, or be certified in compliance with NSF 61/NSF 372 by an American National Standards Institute (ANSI) accredited third-party certification body, that the weighted average lead content at wetted surfaces is less than or equal to 0.25 percent.

Copy "Lavatory Faucets - Manual Type" Paragraphparagraph below and re-edit for each manual-type lavatory faucet required.

Insert drawing designation. Use these designations in lavatory description to identify required faucet for that lavatory.

* + - * 1. Lavatory Faucets - Manual Type: [**Single-Control Mixing**] [**Single-Control Nonmixing**] [**Two-Handle Mixing**], [**Commercial**] [**General Duty**], <**Insert drawing designation**>:

[Manufacturers:](http://www.specagent.com/Lookup?ulid=3737) Subject to compliance with requirements, provide products by one of the following:

[American Standard](http://www.specagent.com/Lookup?uid=123457173713).

[I-Con Systems, Inc](http://www.specagent.com/Lookup?uid=123457180699).

[Kohler Co](http://www.specagent.com/Lookup?uid=123457173718).

Approved equivalent.

Standard: ASME A112.18.1/CSA B125.1.

General: Include hot- and cold-water indicators; coordinate faucet inlets with supplies and fixture hole punchings; coordinate outlet with spout and fixture receptor.

Body type in "Body Type" Subparagraphsubparagraph below must match fixture hole punching.

Body Type: [**Centerset**] [**Widespread**] [**Single hole**] <**Insert type**>.

Body Material: Commercial, solid-brass, or die-cast housing with brazed copper and brass waterway.

Finish: [**Polished chrome plate**] <**Insert finish**>.

Retain "Maximum Flow Rate" or "Maximum Flow" Subparagraphsubparagraph below.

Maximum Flow Rate: [**0.5 gpm (1.5 L/min.)**] <**Insert value**>.

Maximum Flow: [**0.25 gal. (0.95 L)**] <**Insert value**> per metering cycle.

Mounting Type: [**Deck, exposed**] [**Deck, concealed**] [**Back/wall, exposed**] [**Back/wall, concealed**].

Valve Handle(s): [**Single lever**] [**Knob**] [**Knob, nonmetallic**] [**Cross, three arm**] [**Cross, four arm**] [**Wrist blade, 4 inches (102 mm)**] [**Elbow, 6 inches (150 mm)**] [**Push button**] <**Insert type**>.

Spout: [**Rigid**] [**Swing**] [**Rigid, gooseneck**] [**Swivel, gooseneck**] type.

Retain second option in "Spout Outlet" Subparagraphsubparagraph below when nonaerating, laminar stream is required.

Spout Outlet: [**Aerator**] [**Laminar flow**] [**Spray**] <**Insert type**>.

Operation: [**Compression, manual**] [**Noncompression, manual**].

Drain: [**Not part of faucet**] <**Insert type**>.

* + - 1. AUTOMATICALLY OPERATED LAVATORY FAUCETS

The U.S. Safe Drinking Water Act (SDWA) has required national compliance with less than or equal to 0.25 percent weighted average lead content at wetted surfaces for pipe, fittings, and devices intended to convey or dispense water for human consumption since January 2014. The IPC and UPC have the same requirements. Items in compliance with NSF 61 and 372 also meet this requirement. Some manufacturers choose to meet this requirement through independent testing and have "Certified Lead Free" products which may or may not have NSF 61 or 372 certification.

* + - * 1. Lavatory faucets intended to convey or dispense water for human consumption are to comply with the U.S. Safe Drinking Water Act (SDWA), requirements of the Authority Having Jurisdiction (AHJ), and with NSF 61/NSF 372, or be certified in compliance with NSF 61/NSF 372 by an American National Standards Institute (ANSI) accredited third-party certification body, that the weighted average lead content at wetted surfaces is less than or equal to 0.25 percent.

Copy "Lavatory Faucets - Automatic Type" Paragraphparagraph below and re-edit for each type of automatic-type lavatory faucet required.

Insert drawing designation. Use these designations in lavatory description to identify required faucet for that lavatory.

* + - * 1. Lavatory Faucets - Automatic Type: [**Battery Powered**] [**Hardwired**] Electronic Sensor Operated, [**Mixing**] [**Nonmixing**], <**Insert drawing designation**>:

[Manufacturers:](http://www.specagent.com/Lookup?ulid=3738) Subject to compliance with requirements, provide products by one of the following:

[Advanced Modern Technologies Corporation - AMTC](http://www.specagent.com/Lookup?uid=123457173630).

[American Standard](http://www.specagent.com/Lookup?uid=123457173615).

[Kohler Co](http://www.specagent.com/Lookup?uid=123457173618).

[Sloan Valve Company](http://www.specagent.com/Lookup?uid=123457173625).

Approved equivalent.

Standards: ASME A112.18.1/CSA B125.1 and UL 1951.

Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.

General: Include hot- and cold-water indicators; coordinate faucet inlets with supplies and fixture hole punchings; coordinate outlet with spout and fixture receptor.

Body type in "Body Type" Subparagraphsubparagraph below must match fixture hole punching.

Body Type: [**Single hole**] <**Insert type**>.

Body Material: Commercial, solid-brass, or die-cast housing with brazed copper and brass waterway.

Finish: [**Polished chrome plate**] <**Insert finish**>.

Maximum Flow Rate: [**0.5 gpm (1.5 L/min.)**] <**Insert value**>.

Mounting Type: [**Deck, concealed**] [**Back/wall, concealed**] <**Insert type**>.

Spout: [**Rigid**] [**Swing**] [**Rigid, gooseneck**] [**Swivel, gooseneck**] type.

Retain second option in "Spout Outlet" Subparagraphsubparagraph below when nonaerating, laminar stream is required.

Spout Outlet: [**Aerator**] [**Laminar flow**] [**Spray**] <**Insert type**>.

Drain: [**Not part of faucet**] <**Insert type**>.

* + - 1. SUPPLY FITTINGS
				1. NSF Standard: Comply with NSF 61 and NSF 372 for supply-fitting materials that will be in contact with potable water.
				2. Standard: ASME A112.18.1/CSA B125.1.
				3. Supply Piping: Chrome-plated-brass pipe or chrome-plated copper tube matching water-supply piping size. Include chrome-plated-brass or stainless steel wall flange.
				4. Supply Stops: Chrome-plated-brass, one-quarter-turn, ball-type or compression valve with inlet connection matching supply piping.

Retain second option in "Operation" Paragraphparagraph below for one-quarter-turn, ball-type stops.

* + - * 1. Operation: [**Loose key**] [**Wheel handle**] <**Insert type**>.
				2. Risers:

[**NPS 3/8 (DN 10)**] [**NPS 1/2 (DN 15)**].

[**Chrome-plated, rigid-copper-pipe and brass straight or offset tailpieces**] [**Chrome-plated, soft-copper flexible tube**] [**ASME A112.18.6/CSA B125.6, braided- or corrugated-stainless steel, flexible hose**] riser.

* + - 1. WASTE FITTINGS
				1. Standard: ASME A112.18.2/CSA B125.2.
				2. Drain: Grid type with NPS 1-1/4 (DN 32) offset and straight tailpiece.
				3. Trap:

Size: [**NPS 1-1/2 by NPS 1-1/4 (DN 40 by DN 32)**] [**NPS 1-1/4 (DN 32)**].

Material:

Retain one of two subparagraphs below.

Chrome-plated, [**two-piece, cast-brass trap and swivel elbow with 0.032-inch- (0.83-mm-) thick brass tube to wall**] [**two-piece, cast-brass trap and ground-joint swivel elbow with 0.032-inch- (0.83-mm-) thick brass tube to wall**] [**one-piece, cast-brass trap with swivel 0.029-inch- (73-mm-) thick tubular brass wall bend**] <**Insert trap type**>; and chrome-plated, brass or steel wall flange.

Stainless steel, two-piece trap and swivel elbow with 0.012-inch (-(0.30-mm-) thick stainless steel tube to wall, and stainless steel wall flange.

* + - 1. LAVATORY SUPPORTS

Copy "Lavatory Carrier" Paragraphparagraph below and re-edit for each type of support required.

* + - * 1. Lavatory Carrier:

[Manufacturers:](http://www.specagent.com/Lookup?ulid=13843) Subject to compliance with requirements, provide products by one of the following:

[Josam Company](http://www.specagent.com/Lookup?uid=123457173635).

[WATTS](http://www.specagent.com/Lookup?uid=123457173632).

[Zurn Industries, LLC](http://www.specagent.com/Lookup?uid=123457173633).

Approved equivalent.

Standard: ASME A112.6.1M.

1. EXECUTION
	* + 1. EXAMINATION
				1. Examine roughing-in of water supply and sanitary drainage and vent piping systems to verify actual locations of piping connections before lavatory installation.
				2. Examine counters and walls for suitable conditions where lavatories will be installed.
				3. Proceed with installation only after unsatisfactory conditions have been corrected.
			2. INSTALLATION
				1. Install lavatories level and plumb in accordance with roughing-in drawings.
				2. Install supports, affixed to building substrate, for wall-mounted lavatories.

Indicate on Drawings those lavatories that are required to be accessible.

* + - * 1. Install accessible wall-mounted lavatories at handicapped/elderly mounting height for people with disabilities or the elderly, in accordance with ICCUNIFORM CODE A117.1.
				2. Install wall flanges or escutcheons at piping wall penetrations in exposed, finished locations. Use deep-pattern escutcheons if required to conceal protruding fittings. Comply with escutcheon requirements specified in Section 220518 "Escutcheons for Plumbing Piping."
				3. Seal joints between lavatories, counters, and walls using sanitary-type, one-part, mildew-resistant silicone sealant. Match sealant color to fixture color. Comply with sealant requirements specified in Section 079200 "Joint Sealants."

Indicate on Drawings those lavatories that are required to be accessible.

* + - * 1. Install protective shielding pipe covers and enclosures on exposed supplies and waste piping of accessible lavatories. Comply with requirements in Section 220719 "Plumbing Piping Insulation."
			1. PIPING CONNECTIONS

Coordinate piping installations and specialty arrangements with Drawings and with requirements specified in piping systems. If Drawings are explicit enough, these requirements may be reduced or omitted.

* + - * 1. Connect fixtures with water supplies, stops, and risers, and with traps, soil, waste, and vent piping. Use size fittings required to match fixtures.
				2. Comply with water piping requirements specified in Section 221116 "Domestic Water Piping."
				3. Comply with soil and waste piping requirements specified in Section 221316 "Sanitary Waste and Vent Piping."
			1. ELECTRICAL CONNECTIONS
				1. Connect wiring according to Section 260519 "Low-Voltage Electrical Power Conductors and Cables."
				2. Ground equipment according to Section 260526 "Grounding and Bonding for Electrical Systems."
				3. Install electrical devices furnished by manufacturer, but not factory mounted in accordance with NFPA 70 and NECA 1.
				4. Install nameplate for each electrical connection, indicating electrical equipment designation and circuit number feeding connection.

Retain one of two subparagraphs below. First subparagraph cross-references Section 260553 "Identification for Electrical Systems" and should be retained for consistent electrical identification. Second subparagraph is an abbreviated version of the product specified in Section 260553 "Identification for Electrical Systems."

Nameplate shall be laminated acrylic or melamine plastic signs, as specified in Section 260553 "Identification for Electrical Systems."

Nameplate shall be laminated acrylic or melamine plastic signs with a black background and engraved white letters at least [**1/2 inch (13 mm)**] <**Insert dimension**> high.

* + - 1. ADJUSTING
				1. Operate and adjust lavatories and controls. Replace damaged and malfunctioning lavatories, fittings, and controls.
				2. Install new batteries in battery-powered, electronic-sensor mechanisms.
			2. CLEANING AND PROTECTION
				1. After completing installation of lavatories, inspect and repair damaged finishes.
				2. Clean lavatories, faucets, and other fittings with manufacturers' recommended cleaning methods and materials.
				3. Provide protective covering for installed lavatories and fittings.
				4. Do not allow use of lavatories for temporary facilities unless approved in writing by Director’s Representative.

END OF SECTION 224216.13