**SECTION 102800 - TOILET BATH AND LAUNDRY ACCESSORIES**

**PART 1 – GENERAL**

* 1. **RELATED DOCUMENTS**
		+ - 1. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.
	2. **SUMMARY**
1. Section Includes
	1. Public use washroom accessories
	2. Public use shower room accessories
	3. Private use bathroom accessories
	4. Healthcare accessories
	5. Warm air dryers
	6. Childcare accessories
	7. Under lavatory guards
	8. Custodial accessories
2. Related Requirements
	1. Section 088300 “Mirror” for frameless mirrors.
	2. Section 093013 “Ceramic Tiling” for ceramic toilet and bath accessories.
	3. Section 102813.63 “Detention Toilet accessories” for accessories designed for installation in detention facilities.
	4. Section 224216.13 “Commercial Lavatories” for lavatories, solid surface lavatory systems, and sensor operated bathroom faucets.

**1.3 COORDINATION**

1. Coordinate accessory locations with other work to prevent interference with clearances required for access by people with disabilities, and for proper installation, adjustment, operation, cleaning, and servicing of accessories.
2. Deliver inserts and anchoring devices set into concrete or masonry as required to prevent delaying the work.

**1.4 ACTION SUBMITTALS**

 A. Product Data: For each type of product.

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

 2. Include anchoring and mounting requirements, including requirements for cut outs in other work and substrate preparation.

 3. Include electrical characteristics.

B. Samples: Full sized for each exposed product and for finish specified.

 1. Approved full-size samples will be returned or used within the work being completed.

C. Product Schedule: Indicating types, quantities, sizes, and installation locations by room for each accessory required.

 1. Identify location using room designations indicated

 2. Identify accessories using designations indicated.

**1.5 INFORMATIONAL SUBMITTALS**

 A. Sample Warranty: For Manufacturers special warranty:

**1.6 CLOSEOUT SUBMITTALS**

 A. Maintenance Data: for accessories to include in maintenance manuals.

**1.7 WARRANTY**

 A. Manufacturers special warranty for mirrors: Manufacturer agrees to repair or replace.

 Mirrors that fail in materials or workmanship within specified warranty period.

 1. Failures include, but not limited to, visible silver spoilage defect.

 2. Warranty period **[insert number]** years

**PART 2: PRODUCTS**

**2.1 OWNER FURNSHED MATERIALS**

 A. Owner furnished materials **<Insert products>**

**2.2 PERFORMANCE REQUIREMENTS**

A. Electrical Components, Devices and Accessories: Listed and labeled as defined in NEPA70, by a qualified testing agency, and marked for intended location and application.

**2.3 PUBLIC-USE WASHROOM ACCESSORIES – SOAP DISPENSERS**

 A. Automatic Foam Soap Dispenser **<Insert Drawing Designation>**

Basis of Design Product: Subject to compliance with requirements, provide Sloan Valve Company: **ESD 400** deck mounted hardwired foam soap dispenser. Modular One-piece construction, Low Soap Level Indicator, All electronics sealed and one tool service.

Product: ESD 400 [(specification)](https://www.sloan.com/commercial-bathroom-products/soap-dispensers/sloan/esd-400)

Description: Zinc Die Cast spout, automatic dispenser with infrared sensor to detect presence of hands: designed for dispensing antibacterial foam soap form.

 Mounting: Deck mounted

 Capacity: 1,000 ML (1 bottle)

Finish: [Polished Chrome Plated], [PVD Brushed Stainless], [PVD Brushed Nickel], [PVD Polished brass], [PVD Graphite]

 Refill Indicator: Yes

 Low Battery Indicator: N/A

 B. Automatic Foam Soap Dispenser **<Insert Drawing Designation>**

Basis of Design Product: Subject to compliance with requirements, provide Sloan Valve Company: **ESD-360** Battery Powered Deck Mount Top Fill Sensor activated Foam Soap Dispenser with closed soap system preventing overflow and contamination.

Product: ESD 360 [(specification)](https://www.sloan.com/spec-sheet/33461047)

Description: Zinc Die Cast spout, automatic dispenser with infrared sensor to detect presence of hands, battery powered with optional plug-in or hardwired adapter (not included). Fully sealed electronics with refill capabilities from Spout.

 Mounting: Deck mounted

Capacity: 2,000 ML – (2 - 2,000 ML Bottles included).

Finish: [Polished Chrome Plated], [PVD Brushed Stainless], [PVD Brushed Nickel], [PVD Polished brass], [PVD Graphite]

 Refill Indicator: Yes

 Low Battery Indicator: Yes

 C. Automatic Foam Soap Dispenser **<Insert Drawing Designation>**

Basis of Design Product: Subject to compliance with requirements, provide Sloan Valve Company: **ESD-2000** Battery Powered Deck Mount Sensor Activated Foam Soap Dispenser. Includes sealed above deck electronics with modular one-piece construction.

Product: ESD 2000 [(specification)](https://www.sloan.com/commercial-bathroom-products/soap-dispensers/sloan/esd-2000)

Description: Zinc Die Cast spout, automatic dispenser with infrared sensor to detect presence of hands, battery powered with optional plug-in adapter (ESD 324). Fully sealed electronics with clog free soap activation.

 Mounting: Deck mounted

 Capacity: 1,500 ML (Comes with 2 - 1,500 ML bottles)

Finish: [Polished Chrome Plated], [PVD Brushed Stainless], [PVD Brushed Nickel], [PVD Polished brass], [PVD Graphite]

 Refill Indicator: No

 Low battery indicator: No

 D. Automatic Foam Soap Dispenser **<Insert Drawing Designation>**

Basis of Design Product: Subject to compliance with requirements, provide Sloan Valve Company: **ESD-500** Battery Powered Deck Mount Sensor Activated Foam Soap Dispenser. Includes sealed above deck electronics with modular one-piece construction.

Product: ESD 500 [(specification)](https://www.sloan.com/commercial-bathroom-products/soap-dispensers/sloan/esd-500)

Description: Zinc Die Cast spout, automatic dispenser with infrared sensor to detect presence of hands, battery powered with optional plug-in adapter (ESD 324). Fully sealed electronics with clog free soap activation.

 Mounting: Deck mounted

 Capacity: 1,500 ML (Comes with 2 - 1,500 ML bottles)

Finish: [Polished Chrome Plated], [PVD Brushed Stainless], [PVD Brushed Nickel], [PVD Polished brass], [PVD Graphite]

 Refill Indicator: No

 Low battery indicator: No

 E. Automatic Foam Soap Dispenser <Insert Drawing Designation>

Basis of Design Product: Subject to compliance with requirements, provide Sloan Valve Company: **ESD-1500** Battery Powered Deck Mount Foam Soap Dispenser. Includes sealed above deck electronics with modular one-piece construction.

Product: ESD 1500 [(specification)](https://www.sloan.com/spec-sheet/3346093)

Description: Zinc Die Cast spout, automatic dispenser with infrared sensor to detect presence of hands, battery powered with optional plug-in adapter (ESD 324). Fully sealed electronics with clog free soap activation.

 Mounting: Deck mounted

 Capacity: 1,500 ML (Comes with 2 - 1,500 ML bottles)

Finish: [Polished Chrome Plated], [PVD Brushed Stainless], [PVD Brushed Nickel], [PVD Polished brass], [PVD Graphite]

 Refill Indicator: No

 Low battery indicator: No

 F. Automatic Foam Soap Dispenser <Insert Drawing Designation>

Basis of Design Product: Subject to compliance with requirements, provide Sloan Valve Company: **ESD-700** Battery Powered Deck Mount Foam Soap Dispenser. Includes sealed above deck electronics with modular one-piece construction.

Product: ESD 700 [(specification)](https://www.sloan.com/spec-sheet/3346095)

Description: Zinc Die Cast spout, automatic dispenser with infrared sensor to detect presence of hands, Battery powered with optional plug-in adapter (ESD 324) designed for dispensing antibacterial foam soap in liquid form. Fully sealed electronics with clog free soap activation.

 Mounting: Deck mounted

 Capacity: 1,500 ML (Comes with 2 - 1,500 ML bottles)

 Finish: [Polished Chrome Plated], [PVD Brushed Stainless], [PVD Brushed Nickel], [PVD Polished brass], [PVD Graphite]

 Refill Indicator: No

 Low battery indicator: No

 G. Automatic Foam Soap Dispenser **<Insert Drawing Designation>**

Basis of Design Product: Subject to compliance with requirements, provide Sloan Valve Company: **ESD-800** Battery Powered Deck Mount Foam Soap Dispenser. Includes sealed above deck electronics with modular one-piece construction.

Product: ESD 800 [(specification)](https://www.sloan.com/spec-sheet/3346097)

Description: Zinc Die Cast spout, automatic dispenser with infrared sensor to detect presence of hands, Battery powered with optional plug-in adapter (ESD 324) designed for dispensing antibacterial foam soap in liquid form. Fully sealed electronics with clog free soap activation.

 Mounting: Deck mounted

 Capacity: 1,500 ML (Comes with 2 - 1,500 ML bottles)

 Finish: [Polished Chrome Plated], [PVD Brushed Stainless], [PVD Brushed Nickel], [PVD Polished brass], [PVD Graphite]

 Refill Indicator: No

 Low battery indicator: No

 H. Automatic Foam Soap Dispenser **<Insert Drawing Designation>**

Basis of Design Product: Subject to compliance with requirements, provide Sloan Valve Company: **ESD-600** Battery Powered Deck Mount Foam Soap Dispenser. Includes sealed above deck electronics with modular one-piece construction.

Product: ESD 600 [(specification)](https://www.sloan.com/commercial-bathroom-products/soap-dispensers/sloan/esd-600)

Description: Zinc Die Cast spout, automatic dispenser with infrared sensor to detect presence of hands, Battery powered with optional plug-in adapter (ESD 324) designed for dispensing antibacterial foam soap in liquid form. Fully sealed electronics with clog free soap activation.

 Mounting: Deck mounted

 Capacity: 1,500 ML (Comes with 2 - 1,500 ML bottles)

Finish: [Polished Chrome Plated], [PVD Brushed Stainless], [PVD Brushed Nickel], [PVD Polished brass], [PVD Graphite]

 Refill Indicator: No

 Low battery indicator: No

 I. Automatic Foam Soap Dispenser **<Insert Drawing Designation>**

Basis of Design Product: Subject to compliance with requirements, provide Sloan Valve Company: **ESD-2100** Battery Powered Deck Mount Foam Soap Dispenser. Includes sealed above deck electronics with modular one-piece construction.

Product: ESD 2100 [(specification)](https://www.sloan.com/spec-sheet/3346098)

Description: Zinc Die Cast spout, automatic dispenser with infrared sensor to detect presence of hands, Battery powered with optional plug-in adapter (ESD 324) designed for dispensing antibacterial foam soap in liquid form. Fully sealed electronics with clog free soap activation.

 Mounting: Deck mounted

 Capacity: 1,500 ML (Comes with 2 - 1,500 ML bottles)

Finish: [Polished Chrome Plated], [PVD Brushed Stainless], [PVD Brushed Nickel], [PVD Polished brass], [PVD Graphite]

 Refill Indicator: No

 Low battery indicator: No

 J. Automatic Foam Soap Dispenser **<Insert Drawing Designation>**

Basis of Design Product: Subject to compliance with requirements, provide Sloan Valve Company: **ESD-410** Battery Powered Deck Mount Foam Soap Dispenser. Includes sealed above deck electronics with modular one-piece construction.

Product: ESD 410 [(specification)](https://www.sloan.com/commercial-bathroom-products/soap-dispensers/sloan/esd-410)

Description: Zinc Die Cast spout, automatic dispenser with infrared sensor to detect presence of hands, Battery powered with optional plug-in adapter (ESD 324) designed for dispensing antibacterial foam soap in liquid form. Fully sealed electronics with clog free soap activation.

 Mounting: Deck mounted

 Capacity: 1,500 ML (Comes with 2 - 1,500 ML bottles)

Finish: [Polished Chrome Plated], [PVD Brushed Stainless], [PVD Brushed Nickel], [PVD Polished brass], [PVD Graphite]

 Refill Indicator: No

 Low battery indicator: No

 K. Automatic Foam Soap Dispenser **<Insert Drawing Designation>**

Basis of Design Product: Subject to compliance with requirements, provide Sloan Valve Company: **ESD-420** Battery Powered Deck Mount Foam Soap Dispenser. Includes sealed above deck electronics with modular one-piece construction.

Product: ESD 420 [(specification)](https://www.sloan.com/commercial-bathroom-products/soap-dispensers/sloan/esd-420)

Description: Zinc Die Cast spout, automatic dispenser with infrared sensor to detect presence of hands, Battery powered with optional plug-in adapter (ESD 324) designed for dispensing antibacterial foam soap in liquid form. Fully sealed electronics with clog free soap activation.

 Mounting: Deck mounted

 Capacity: 1,500 ML (Comes with 2 - 1,500 ML bottles)

Finish: [Polished Chrome Plated], [PVD Brushed Stainless], [PVD Brushed Nickel], [PVD Polished brass], [PVD Graphite]

 Refill Indicator: No

 Low battery indicator: No

 L. Automatic Liquid Soap Dispenser **<Insert Drawing Designation>**

Basis of Design Product: Subject to compliance with requirements, provide Sloan Valve Company: **ESD 200** Battery Powered Deck Mount liquid Soap Dispenser. Includes sealed electronics with modular one-piece construction.

Product: ESD 200 [(specification)](https://www.sloan.com/commercial-bathroom-products/soap-dispensers/optima/esd-200)

Description: Chrome plated die cast body with black throat plate, automatic dispenser with infrared sensor to detect presence of hands, Battery powered with plug in adapter (ESD 227) designed for dispensing antibacterial soap in liquid form. Fully sealed electronics with clog free soap activation.

 Mounting: Deck mounted

 Capacity: 1,500 ML (1 Bottle)

Finish: [Polished Chrome Plated], [PVD Brushed Stainless], [PVD Brushed Nickel], [PVD Polished brass], [PVD Graphite]

 Refill Indicator: Yes

 Low battery indicator: N/A

 M. Automatic Liquid Soap Dispenser **<Insert Drawing Designation>**

Basis of Design Product: Subject to compliance with requirements, provide Sloan Valve Company: **ESD 250** deck mounted liquid soap dispenser. Modular One-piece Construction and easily attaches to deck surface. Low Battery Indicator and Low Soap Level Indicator.

Product: ESD 250 [(specification)](https://www.sloan.com/spec-sheet/3346050)

Description: Zinc Die Cast spout, automatic dispenser with infrared sensor to detect presence of hands: designed for dispensing antibacterial soap in liquid or lotion form.

 Mounting: Deck mounted

 Capacity: 800 ML (1 bottle) or 1600 ML (1 bottle)

Finish: [Polished Chrome Plated], [PVD Brushed Stainless], [PVD Brushed Nickel], [PVD Polished brass], [PVD Graphite]

 Refill Indicator: Yes

 Low Battery Indicator: Yes

**2.4 PUBLIC-USE WASHROOM ACCESSORIES – WARM AIR DRYERS**

 A. High Speed Warm Air Dryers **<Insert Drawing Designation>**

Basis of Design Product: Subject to compliance with requirements, provide Sloan Valve Company: **EHD 501** Wall - Surface warm air dryer with 8 second dry time. Provides adjustable speed and heat with 35 second lock out time when hands are not removed.

Product: EHD 501 [(specification)](https://www.sloan.com/commercial-bathroom-products/hand-dryers/sloan-xlerator/ehd-501)

Description: High speed warm air, sensor activated hand dryer.

 Mounting: surface mounted

 Operation: Electronic sensor activated with timed power cut off switch.

 1. Dry time: 8 seconds

 Cover Material: Die cast metal.

Cover Finish: Polished white, Matte white, Chrome plated, Brushed nickel, Graphite < Insert finish designation >

 Electrical Requirements: [110/120 V, 11.3 – 12.2 A]

 B. High Speed Warm Air Dryers **< Insert Drawing Designation >**

Basis of Design Product: Subject to compliance with requirements, provide Sloan Valve Company: **EHD 502** Wall - Surface warm air dryer with 8 second dry time. Provides adjustable speed and heat with 35 second lock out time when hands are not removed.

Product: EHD 502 [(specification)](https://www.sloan.com/commercial-bathroom-products/hand-dryers/sloan-xlerator/ehd-502)

Description: High speed warm air, sensor activated hand dryer.

 Mounting: surface mounted

 Operation: Electronic sensor activated with timed power cut off switch.

 1. Dry time: 8 seconds

 Cover Material: Die cast metal.

Cover Finish: Polished white, Matte white, Chrome plated, Brushed nickel, Graphite

 Electrical Requirements: [208/277 V, 2.0 – 2.2 A]

 C. High Speed Warm Air Dryers **< Insert Drawing Designation >**

Basis of Design Product: Subject to compliance with requirements, provide Sloan Valve Company: **EHD 701** ADA Wall Surface Warm air dryer with 14 second dry time. Provides adjustable speed and heat with 35 second lock out time when hands are not removed.

 Product: EHD 701 [(specification)](https://www.sloan.com/commercial-bathroom-products/hand-dryers/sloan-optima-air/ehd-701)

 Description: Warm Air Dryer including variable speed, sound and heat setting options.

 Mounting: surface mounted

Operation: Electronic sensor activated ADA Compliant with 35 second lockout safety feature.

 1. Dry time: 14 seconds

 Cover Material: Die cast metal.

Cover Finish: Polished white, Brushed nickel

 Electrical Requirements: [110/120 V 50/60 Hz 7.0 - 7.7 A]

 D. High Speed Warm Air Dryers **< Insert Drawing Designation >**

Basis of Design Product: Subject to compliance with requirements, provide Sloan Valve Company: **EHD 702** ADA Wall Surface Warm air dryer with 14 second dry time. Provides adjustable speed and heat with 35 second lock out time when hands are not removed.

 Product: EHD 702 [(specification)](https://www.sloan.com/commercial-bathroom-products/hand-dryers/sloan-optima-air/ehd-702)

Description: Warm Air Dryer including variable speed, sound and heat setting options.

 Mounting: surface mounted

Operation: Electronic sensor activated ADA Compliant with 35 second lockout safety feature.

 1. Dry time: 14 seconds

 Cover Material: Die cast metal.

Cover Finish: Polished white, Brushed nickel

 Electrical Requirements: [208/277 V 50/60 Hz 3.6 – 4.0 A]

 **2.5 UNDERLAVATORY GAURDS**

 A. Under lavatory Guard **< Insert drawing designation >**

Basis of Design Product: Subject to compliance with requirements, provide Sloan Valve Company: Sloan **ETF 529** Lavatory Shield comprised of high impact, stain resistant, vinyl material with minimum of 69 Shore A durometer result.

 Product: ETF 529 [(specification)](https://www.sloan.com/spec-sheet/0365059)

Description: Insulating pipe covering for supply and drain piping assemblies that prevents direct contact with and burns from piping: allow service access without removing coverings.

Material: Antimicrobial, molded plastic

Color: White

**2.6 MATERIALS**

A. Stainless Steel: ASTM A 666, Type 304 0.031inch (8 mm) minimum nominal thickness unless otherwise specified.

B. Brass: ASTM B 19 flat products: ASTM B 16/B 16M, rods, shapes, forgings and flat products with finished edges: or ASTM B 30, castings

C. Steel Sheet: ASTM A 1008/A 1008M, Designation CS (cold rolled, commercial steel), 0.036-inch (0.9-mm) minimum nominal thickness.

 D. Galvanized-Steel Sheet: ASTM A 653/A 653M, with G60 (Z180) hot-dip zinc coating.

 E. Galvanized-Steel Mounting Devices: ASTM A 153/A 153M, hot-dip galvanized after fabrication.

 F. Fasteners: Screws, bolts, and other devices of same material as accessory unit and tamper and theft resistant where exposed, and of galvanized steel where concealed.

 G. Chrome plating: ASTM B 456, service condition number SC 2 (moderate service)

 H. Mirrors: ASTM C 1503, mirror glazing quality, clear glass mirrors, nominal 6.0 mm thick.

**2.7 FABRICATION**

 A. General: Fabricate units with tight seams and joints, and exposed edges rolled. Hang doors and access panels with full-length, continuous hinges. Equip units for concealed anchorage and with corrosion-resistant backing plates.

 B. Keys: Provide universal keys for internal access to accessories for servicing and resupplying. Provide minimum of [**six**] **<Insert number>** keys to Owner's representative.

**PART 3 EXECUTION**

 **A. INSTALLATION**

1. Install accessories according to manufacturers' written instructions, using fasteners appropriate to substrate indicated and recommended by unit manufacturer. Install units level, plumb, and firmly anchored in locations and at heights indicated.

2. Grab Bars: Install to withstand a downward load of at least 250 lbf (1112 N), when tested according to ASTM F 446.

 **B. ADJUSTING AND CLEANING**

1. Adjust accessories for unencumbered, smooth operation. Replace damaged or defective items.

2. Remove temporary labels and protective coatings.

3. Clean and polish exposed surfaces according to manufacturer's written instructions.

**END OF SECTION 102800**