

BRADLEY WASHFOUNTAINS

Bradley Corporation, a leader in the manufacture of fixtures and plumbing products, provides a variety of commercial wash fountains for every commercial and industrial need. Constructed of Bradley's premium Terreon solid surface material, with options for recycled content solid surface material, or reinforced thermoset polyester, precast terrazzo, or stainless steel, Bradley washfountains are manufactured to last for years and remain serviceable at the end of a long career.

Architects, engineers, and specifiers look to Bradley Corporation for innovation in design and leadership in the development of environmentally conscious products. Bradley Corporation, a member of the U.S. Green Building Council, the Wisconsin Green Building Alliance, has several products earning certification by Greenguard Environmental Institute, and Greenguard Children and Schools program.

Bradley makes it easy to specify products providing a seasoned customer service staff, and helpful information **tools** on an advanced website. Bradley is the industry leader in the manufacture of premium quality commercial plumbing fixtures, valves, TMVs and wash fountains that appear in the following CSI MasterFormat 2004™ Sections:

- Section 10 21 13 – Toilet Compartments (Mills Metal, Plastic-laminate, Phenolic, and Plastic units)
- Section 10 28 13.13 – Commercial Toilet Accessories
- Section 10 28 13.15 – Hand and Hair Dryers
- Section 10 28 13.63 – Detention Toilet Accessories
- Section 10 51 26.00 – Plastic Lockers (Lenox Plastic Lockers)
- Section 10 51 26.13 – Plastic Lockers (Lenox Recycled Plastic lockers)
- Section 22 11 19 – Domestic Water Piping Specialties (Thermostatic mixing valves)
- Section 22 42 16.01 – Commercial Lavatories and Faucets (Single and multi-station lavatory systems)
- Section 22 42 16.02 – Commercial Lavatories and Faucets (Bradley Advocate Lavatory System)
- Section 22 42 16.03 – Commercial Lavatories and Faucets (Bradley Verge Lavatory System)
- Section 22 42 16.11 – Commercial Sinks and Faucets
- Section 22 42 23 – Commercial Showers and Shower Valves
- Section 22 42 33 – Wash Fountains
- Section 22 43 00 – Healthcare Plumbing Fixtures (Patient care lavatory units)
- Section 22 45 00 – Emergency Plumbing Fixtures (Emergency Eyewash Fixtures and Drench Showers)
- Section 22 46 00 – Security Plumbing Fixtures

Contact Bradley Corporation, Menomonee Falls, WI 53051; Phone: 800-BRADLEY ((800)272-3539) Fax: (262)251-5817, or visit the Bradley web site www.bradleycorp.com.

Bradley Corporation is an AIA/CES registered provider currently offering five programs earning one (1) HS&W Learning Unit each; several qualify for sustainable design (SD) credit. All active AIA members must successfully complete 18 learning unit (LU) hours each year.

Terreon is a registered trademark of Bradley Corporation.

TouchTime is a trademark of Bradley Corporation

SECTION 22 42 33

WASH FOUNTAINS

PART 1 - GENERAL

1.1 SECTION INCLUDES

1. Wash Fountains.

1.2 RELATED SECTIONS

1. Division 22 Section "Domestic Water Piping Specialties" for thermostatic mixing valves.

1.3 REFERENCES

A. American National Standards Institute (ANSI):

1. ANSI Z124.3 Plastic Lavatories.
2. ANSI Z124.6 Plastic Sinks.
3. ANSI/ICPA SS-1-2001 Performance Standard for Solid Surface Material.

GREENGUARD Environment Institute (GEI) is an ANSI Authorized Standards Developer that oversees the GREENGUARD certification program. GEI establishes acceptable indoor air standards for indoor products, environments, and buildings.

B. GREENGUARD Environmental Institute (GEI):

1. GREENGUARD listed and certified low emitting products.

C. International Association of Plumbing and Mechanical Officials (IAPMO):

1. Universal Plumbing Code (cUPC US and Canada) approvals.

D. National Fire Protection Association (NFPA):

1. NFPA 70 - National Electrical Code.

E. Public Law 102-486, Energy Policy Act, requires that public lavatories manufactured after December 31, 1996, have flow rate or consumption not greater than 0.5 gpm (1.5 L/min.) or 0.25 gal. (0.95 L) per metering cycle.

F. Underwriters Laboratories, Inc.:

1. UL 1951 - Electric Plumbing Accessories.

1.4 ACTION SUBMITTALS

- A. Product Data: For each product indicated mounting requirements and rough-in dimensions. Mark each sheet with product drawing designation.

Bradley Corporation's TerreonRE recycled solid surface material contains 25-percent preconsumer recycled content and 8-percent rapidly renewable material. LEED WE Credit 2 is for 50 percent reduction in water use for building sewer, based on use of water-conserving fixtures documented under Credit WE 3. LEED WE Credit 3 is for 30, 35, or 40 percent reduction in water usage. Coordinate with Division 01 requirements for LEED MR Credit 5 Regional Materials where applicable.

- A. LEED Submittals:

1. Product Data for [Credit WE 2] [and] [Credit WE 3]: Documentation indicating compliance with requirements.

1.5 INFORMATION SUBMITTALS

- A. Sample Warranty.
- B. Operation, Care and Cleaning Instructions.

1.6 QUALITY ASSURANCE

- A. Comply with Public Law 102-486 Energy Policy Act.
- A. Electrical Components: Listed and labeled per NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction.

1.7 WARRANTY

- A. Special Manufacturer's Warranty: Provide manufacturer's standard form in which manufacturer agrees to repair or replace products that fail in materials or workmanship.
 1. Solid Surface Material: 10 years.
 2. Other Materials and Components: One year.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Basis-of-Design Product: Subject to compliance with requirements, provide temperature-actuated water mixing valves manufactured by Bradley Corporation, Menomonee Falls, WI 53051, (800)272-3539, fax (262)251-5817, www.bradleycorp.com.

Specifier: Retain one of three paragraphs below based upon Project requirements.

1. Submit comparable products of one of the following for approval by Architect:
 - a. [Insert name of manufacturer of comparable products].
2. Submit requests for substitution in accordance with Instructions to Bidders and Division 01 General Requirements.
3. Provide specified product; Owner will not consider substitution requests.

B. MATERIALS

Specifier: Certain Bradley wash fountains are formed from Bradley's own premium vandal-resistant densified solid surface material noted for its resistance to chemicals, stains, burns and impacts. Surface damage can be easily repaired with everyday cleansers or fine grit abrasives. First option below describes Bradley Terreon, and second describes Terreon RE, a densified solid surface material composed of a bio-based resin and preconsumer recycled granules.

- C. Lavatory Deck and Bowl Material: Fabricate lavatory units from [thermoset acrylic modified polyester resin] [bio-based resin and preconsumer recycled granules] certified by approved independent testing agency as complying with ANSI/ICPA-SS-1-2001, ANSI Z124.3, and ANSI Z124.6, with the following minimum properties:
 1. Basis of Design Product: **Bradley, [Terreon] [Terreon RE]** or a comparable product fabricated from one of the following materials:
 - a. DuPont, Corian Products.

- b. Wilsonart International, Inc., Gibraltar Products.
2. Thickness: 1/2 inch (13 mm), minimum.
3. Liquid Absorption: 0.025 percent in 24 hours, per ASTM D 570.
4. Tensile Strength: 5000 psi (34 MPa), minimum, per ASTM D 638.
5. Thermal Expansion: 2.30, per ASTM D 696.
6. Hardness: 55-60, per ASTM D 785.
7. Fire Resistance: Class 1, per ASTM E 84.

2.2 WASHFOUNTAINS

Specifier: **Bradley Classic Washfountains** described below are designed for efficient, heavy-duty hand washing requirements in institutional and manufacturing environments. Selected units are available meeting accessibility and juvenile height requirements. Several units include use of optional Bradley TerreonRE recycled content solid surface material.

WF2500 Series are preassembled with Terreon solid surface material bowls in semi-circular and circular configurations, with stainless steel pedestal panels.

WF2600 Series consist of precast terrazzo bowls in semi-circular and circular configurations with stainless steel pedestal units.

WF2700 Series consist of stainless steel bowls in semi-circular and circular configurations with stainless steel pedestal units.

WF2800 Series are preassembled with Bradstone reinforced thermoset polyester bowls in semi-circular and circular configurations with ABS tapered pedestal panels.

TDB3100 Series units consist of Terreon solid surface or TerreonRE recycled solid surface material bowls in circular configurations, with reinforced gel-coated fiberglass pedestal panels and stainless steel kick plate.

WF3200 Series extra height units consist of Terreon solid surface material bowls in semi-circular and circular configurations, with reinforced gel-coated fiberglass pedestal panels and stainless steel kick plate.

Select model and configuration, and edit below for options that are available for the series and configuration desired. We recommend editing with assistance of Bradley representative.

- A. Floor-supported, [3] [4] [5] [8]-User [Accessible] Wash Fountain **WFN#___**: Bowl constructed of [solid surface material] [recycled solid surface material] [reinforced thermoset polyester] [precast terrazzo] [stainless steel] with steel legs and [stainless steel] [ABS] [fiberglass] pedestal panels [in preassembled unit]. Include spray ring with stainless steel support tube, mixing valve, volume control valve, waste and supply connections with stop, strainer, and check valves. IPC/cUPC-certified by IAPMO.
 1. Basis of Design Manufacturer/Model: **Bradley, Classic Washfountain, [2500] [2600] [2700] [2800] [3100] [3200]** series.
 2. Bowl: [Semi-circular] [Circular] [Corner], [36 inch (914 mm)] [54 inch (1372 mm)] diameter, [7-1/2 inch (191 mm) deep] [8-1/2 inch (216 mm) deep] [9 inch (229 mm) deep] [, with backsplash].
 3. Unit Height: [28 inch (711 mm)] [29 inch (737 mm)][29-1/4 inch (743 mm)] [29-1/2 inch (749 mm)] [34 inch (864 mm)]
 4. Spray Ring: Non-sectional, with operating range of 20 to 80 psi (138 to 552 kPa), flow rate as required by fixture size.

Specifier: Select one of four spray head valve activation options below.

- a. Foot Control Operation: Operation of foot rail activates hold-open valve with slow closing upon release of rail.

- b. Hand Control Operation: Operation of pushbutton activates an air-metering valve with field-adjustable timing.
- c. Infrared Sensor Operation: Infrared sensing module and solenoid with adjustable turn off delay and automatic shut-off, with 110/24 VAC plug-in transformer.
- d. Electronic Pushbutton/Timer Operation: Electronic Pushbutton metering valve with 110/24 VAC plug-in transformer.

Specifier: Manual mixing valve below is standard with unit.

- 5. Water Supply: [Manual mixing valve] [Single tempered line] [Single adjustable thermostatic mixing valve].
 - 6. Drain and Supply Configuration: [Off-line vent with supplies from below] [Centrally rising vent with supplies from above] [Centrally rising vent with supplies from below] [Off-line vent with supplies from above] [with stainless steel overhead piping shroud].
 - 7. Accessories:
 - a. Soap Dispenser: [Powdered soap] [Liquid soap] [, with metal cladding].
 - b. Paper Towel Dispenser: Stainless steel, with tie pipe assembly, [single-fold] [c-fold].
 - c. Tie Pipe Assembly: Vandal-resistant support tube reinforcement: bracket for accepting 1-1/2 inch diameter pipe.
 - d. Hose Bibb: Loose key, threaded, solid brass, with polished chrome finish.
 - 8. Bowl Color: As selected by Architect from manufacturer's full line.
- B. [Wall-Mounted] [Floor-supported], [3] [4] [5] [8]-User [Accessible,] Vandal-Resistant Shallow Bowl Washfountain **WFN#__**: Preassembled bowl and pedestal unit constructed of stainless steel with chrome plated exposed fittings. Includes individual spray heads per station with stainless steel support tube, mixing valve, volume control valve, waste and supply connections with stops, strainers, and check valves. Vandal-resistant construction with concealed spray heads and connections, with support tube integrally welded to bowl. IPC/cUPC-certified by IAPMO.
- 1. Basis of Design Manufacturer/Model: **Bradley, Sentry Washfountain, SN2000 series.**
 - 2. Bowl: [Semi-circular] [Circular] [Corner], [36 inch (914 mm)] [54 inch (1372 mm)] diameter, [5 inch (127 mm)] deep [, with backsplash].
 - 3. Unit Height: [34 inch (864 mm)]
 - 4. Individual Spray Heads: with operating range of 20 to 80 psi (138 to 552 kPa), flow rate is .5 GPM per station.

Specifier: Select one of four spray head valve activation options below.

- a. Foot Control Operation: Operation of foot pushbutton activates hold-open valve with slow closing upon release of pushbutton.
- b. Hand Control Pushbutton Operation: Operation of pushbutton activates an air metering valve with field-adjustable timing.
- c. Infrared Sensor Operation: Infrared sensing module and solenoid with automatic shut-off, with 110/24 VAC plug-in transformer.

Specifier: Manual mixing valve below is standard with unit.

- 5. Water Supply: [Single tempered line] [Single adjustable thermostatic mixing valve] [Pressure balance mixing valve].
- 6. Drain and Supply Configuration: [Off-line vent with supplies from below] [Centrally rising vent with supplies from above] [Centrally rising vent with supplies from below] [Off-line vent with supplies from above] [with stainless steel overhead piping shroud].
- 7. Accessories:
 - a. Soap Dispenser: [Liquid soap].

- b. Paper Towel Dispenser: Stainless steel, with tie pipe assembly, [single-fold] [c-fold].
- c. Hose Bibb: Loose key, threaded, solid brass, with polished chrome finish.

Specifier: **Bradley Multi-Fount units** described below feature a continuous Terreon or terrazzo bowl with a matching spray head shelf. These easily-cleaned, highly vandal-resistant units provide an efficient space-saving solution for heavy-duty hand washing in commercial and industrial facilities.

- C. [Wall-mounted] [Wall-Mounted and Floor-Supported], Accessible, [2] [3] [4] User Washfountain **WFN#__**: Constructed of [solid surface material] [recycled solid surface material] [terrazzo] with integral continuous bowl, compact deck, and backsplash ledge containing concealed, vandal-resistant spray head [and liquid soap dispenser]. Unit includes waste and supply connections to wall with stop, strainer, and check valves, and steel support frame, concealed by tamper-resistant stainless steel access panel. ADA/ABA, and ANSI A117.1 compliant. IPC/cUPC-certified by IAPMO.
 - 1. Basis of Design Manufacturer/Model: **Bradley, Multi-Fount Washfountain System, MF 2900 series.**
 - 2. Unit Size: [36 by 26 inch (914 by 660 mm)] [46 by 26 inch (1168 by 680 mm)] [26-3/4 by 26-3/4 inch (679 by 679 mm) corner unit].
 - 3. Spray Head: Independent water stream former with flow rate of 0.5 gpm (0.032 L/s) at operating range of 20 to 80 psi (138 to 552 kPa).

Specifier: Select one of three spray head valve operation options below.

- a. Spray Head Valve Operation: Infrared sensing module and solenoid with adjustable turn off delay and automatic shut-off, with 110/24 VAC plug-in transformer
 - b. Spray Head Valve Operation: Pushbutton air metering valve with field-adjustable timing.
 - c. Spray Head Valve Operation: Electronic pushbutton metering valve with 110/24VAC plug-in transformer.
 - 4. Water Supply: [Single tempered line] [Single adjustable thermostatic mixing valve].
 - 5. Bowl/Spray Head/Pedestal Color: As selected by Architect from manufacturer's full line.
- D. Wall-Mounted, Accessible, Vandal-Resistant 2-User Washfountain **WFN#__**: Constructed of stainless steel with compact, crescent-shaped low-profile deck and backsplash ledge containing concealed, vandal-resistant spray heads. Preassembled unit includes waste and supply connections to wall with stop, strainer, and check valves, concealed by stainless steel access panel/trap cover. IPC/cUPC-certified by IAPMO.
 - 1. Basis of Design Manufacturer/Model: **Bradley, Bradmate Washfountain, S93-570 series.**
 - 2. Overall Unit Size: 27-3/8 by 18-1/2 inches (695 by 470 mm).
 - 3. Spray Head: Independent water stream former with flow rate of 0.5 gpm (0.032 L/s) at operating range of 20 to 80 psi (138 to 552 kPa).

Specifier: Select one of three spray head valve operation options below.

- a. Spray Head Valve Operation: Infrared sensing module and solenoid with adjustable turn off delay and automatic shut-off, with 110/24 VAC plug-in transformer
- b. Spray Head Valve Operation: Pushbutton air metering valve with field-adjustable timing.
- c. Spray Head Valve Operation: Electronic pushbutton metering valve with 110/24VAC plug-in transformer.

Specifier: Manual mixing valve below is standard with unit.

4. Water Supply: [Adjustable Thermostatic mixing valve assembly].
- E. Multi-Station, [2] [3] [4] [5]-User Vandal-Resistant Wall Sink **WFN#___**: Constructed of 14 ga. Type 304 stainless steel with reinforcing channels. Frame constructed of 1-1/2 inch (38 mm) stainless steel tubing with adjustable height floor flanges. Preassembled unit includes drain spud and dome grate strainer and 1-1/2 (38 mm) inch diameter tailpiece.
 1. Basis of Design Manufacturer/Model: **Bradley, Multistation Wall Sink**.
 2. Fixture Size: [48 by 18 inch (1219 by 457 mm)] [62 by 18 inch (1575 by 457 mm)] [80 by 18 inch (2032 by 457 mm)] [102 by 18 inch (2591 by 457 mm)].
 3. Faucet: [Pushbutton Metering Faucet. Basis of Design Manufacturer/Model: Bradley, Model 90-75] [Specifier insert faucet selection].
- F. Multi-Station, 8-User Vandal-Resistant Island Sink **WFN#___**: Constructed of 14 ga. Type 304 stainless steel with reinforcing channels and sound deadening material on underside. Frame constructed of 1-1/2 inch (38 mm) stainless steel tubing with adjustable height floor flanges. Column-mounted stainless steel valve manifold housing. Preassembled unit includes drain spud and dome grate strainer and 1-1/2 (38 mm) inch diameter tailpiece.
 1. Basis of Design Manufacturer/Model: **Bradley, Multistation Island Sink**.
 2. Fixture Size: [30 by 72 inch (762 by 1829 mm)] [40 by 72 inch (1016 by 1829 mm)].
 3. Faucet: [Pushbutton Metering Faucet. Basis of Design Manufacturer/Model: Bradley, Model 90-75] [Specifier insert faucet selection].

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Assemble fixtures and associated fittings and trim in accordance with manufacturer's instructions.
- B. Install fixture supports attached to building structure for fixtures requiring supports.
- C. Install fixtures onto waste-fitting seals or flanges and attach to supports or building structure.
- D. Install fixtures level, plumb, and firmly in place in accordance with manufacturer's rough-in drawings.
- E. Install water supply piping to each fixture requiring water supply connection. Provide stop on each supply in readily-serviced location. Fasten supply piping to supports or substrate.
- F. Install trap and waste piping to each fixture requiring sanitary system connection.
- G. Install escutcheons at exposed piping penetrations in finished locations and within cabinets.
- H. Seal joints between fixtures and walls, floors, and countertops with mildew-resistant silicone sealant.

3.2 FIELD QUALITY CONTROL

- A. Verify fixtures are correct categories and types specified at locations where installed. Verify installed heights and clearances meet requirements of authorities having jurisdiction.

3.3 CLEANING AND PROTECTION

- A. Repair or replace defective work, including damaged fixtures and components.
- B. Clean unit surfaces, test fixtures, and leave in ready-to-use condition.
- C. Install new batteries in battery-operated devices at time of Substantial Completion.
- D. Turn over keys, tools, maintenance instructions, and maintenance stock to Owner.
- E. Protect units with water-resistant temporary covering. Do not allow temporary use of plumbing fixtures unless approved in writing by Architect. Remove protection at Substantial Completion and dispose.

END OF SECTION