



BRADLEY SHOWER ROOM ACCESSORIES

This Bradley guide specification is useful in specifying accessories for institutional shower rooms, including K-12 and university facilities, municipal facilities, and other projects demanding high durability, maintenance-friendly accessories. It includes an array of accessories to complete your project specification. This section is editable using commercial specification automation tools.

Bradley Corporation, the industry's leading manufacturer of premium quality commercial lavatories and lavatory faucets, wash stations, toilet accessories, TMVs, and emergency plumbing fixtures, serves a diverse customer base ranging from local business facilities to international corporations like Wal-Mart, General Motors, U.S. Postal Service, W.W. Grainger, AMC Theaters Corporation.

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 eases the specifying process with a seasoned customer service staff and a range of helpful information tools on an advanced website. For example, easy-to-use sizing software, available on Bradley's website, allows engineers to quickly determine the correct size Thermostatic Mixing Valves.

Contact Bradley Corporation, Menomonee Falls, WI 53051; Phone: 800-BRADLEY ((800)272-3539) or visit the Bradley web site www.bradleycorp.com. Bradley Corporation is an AIA/CES registered provider currently offering five programs providing one HS&W Learning Unit each.

Bradley®, Keltech®, and Navigator® are registered trademarks and Halo™ and SpinTec™ are trademarks of The Bradley Corporation. Copyright© 2017 The Bradley Corporation.

SECTION 102813.17
SHOWER ROOM ACCESSORIES

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes

1. Shower and changing room accessories.

1.2 RELATED SECTIONS

Specifier: If retaining this optional article, delete any references below that do not apply to this project.

1. Division 08 Section "Mirrors" for monolithic glass mirrors.
2. Division 10 Section "Healthcare Toilet Accessories" for toilet accessories specific to healthcare facility patient care areas.
3. Division 10 Section "Commercial Toilet Accessories."
4. Division 10 Section "Warm Air Dryers" for hand dryers.
5. Division 10 Section "Detention Toilet Accessories" for toilet accessories specific to detention facility secure areas.

1.3 REFERENCES

Specifier: If retaining this optional article, edit to reflect standards cited in the completed section.

A. American National Standards Institute (ANSI):

1. ANSI A 117.1 - Accessible and Usable Buildings and Facilities.

B. ASTM International (ASTM):

1. ASTM A 653/A 653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.
2. ASTM A 666 - Standard Specification for Annealed or Cold-Worked Austenitic Stainless Steel Sheet, Strip, Plate, and Flat Bar.
3. ASTM A 1008/A 1008M- Standard Specification for Steel, Sheet, Cold-Rolled, Carbon, Structural, High-Strength Low-Alloy, High-Strength Low-Alloy with Improved Formability, Solution Hardened, and Bake Hardenable.
4. ASTM B 456 - Standard Specification for Electrodeposited Coatings of Copper Plus Nickel Plus Chromium and Nickel Plus Chromium.
5. ASTM C 1503 - Standard Specification for Silvered Flat Glass Mirror.
6. ASTM F 446 - Standard Consumer Safety Specification for Grab Bars and Accessories Installed in the Bathing Area.

C. US Federal Government:

1. U.S. Architectural & Transportation Barriers Compliance Board. Americans with Disability Act (ADA) and Architectural Barriers Act (ABA) Accessibility Guidelines for Buildings and Facilities.

1.4 ACTION SUBMITTALS

A. Product Data: For each product:

1. Manufacturer's product data sheets indicating operating characteristics, materials and finishes. Mark each sheet with product designation.
2. Mounting requirements and rough-in dimensions.

1.5 INFORMATION SUBMITTALS

- A. Sample warranty.
- B. Operation, care and cleaning instructions.

1.6 MAINTENANCE SUBMITTALS

- A. Furnish indicated spare parts that are packaged with identifying labels listing associated products.
- B. Operation and Maintenance data.
- C. Keys for lockable units.

1.7 QUALITY ASSURANCE

- A. Source Limitations: For products listed together in the same Part 2 articles, obtain products from single source from single manufacturer.
- B. Manufacturer Qualifications: Approved manufacturer listed in this section, with minimum five years' experience in the manufacture of product types in use in similar facilities. Manufacturers seeking approval must submit the following:
 1. Product data, including test data from qualified independent testing agency indicating compliance with requirements.
 2. Samples of each component of product specified.
 3. List of successful installations of similar products available for evaluation by Architect.
 4. Submit substitution request not less than 15 days prior to bid date.

1.8 WARRANTY

- A. Special Mirror Warranty: Manufacturer's standard form in which manufacturer agrees to replace mirrors that develop visible silver spoilage or frame corrosion defects within specified warranty period.
 1. Warranty Period: [15] years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Basis-of-Design Products: Subject to compliance with requirements, provide commercial toilet accessories manufactured by Bradley Corporation, Menomonee Falls, WI 53051, (800) 272-3539, fax: (262) 251-5817; Email info@BradleyCorp.com; Website: 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. [Specifier: insert name of manufacturer of comparable product.]
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.

2.2 PERFORMANCE REQUIREMENTS

Specifier: Bradley product information includes detailed information regarding requirements of ADA/aba, ICC A117.1, and Texas Accessibility Standards.

- A. Accessibility Requirements: Comply with requirements of ADA/ABA and authorities having jurisdiction.

2.3 SHOWER ROOM ACCESSORIES

Edit this Article by first deleting accessory types not needed for project. Then copy the Model Number and product description for selected accessories by pasting into the insert points in the two subparagraphs that follow the list of available Bradley accessory models.

BRADLEY FIXED GRAB BARS

<u>Model</u>	<u>Description</u>
812	Concealed mounting 1-1/2 inch o.d. 18 ga stainless steel tubing. 3-1/8 inch diameter 13 ga flanges; 22 ga stainless steel escutcheons. 001-12, 001-18, 001-24, 001-36, 001-48, 001-54, 059, 057, 054, 055, 060 configurations are third party tested to 1000 pounds. [Safety Grip Finish -2] [High polish finish -4] [Safety Grip with high polished finish -7]
817	Exposed mounting 1-1/2 inch o.d. 18 ga stainless steel tubing. 3-1/8 inch diameter 13 ga flanges; With mounting kit. 001-12, 001-18, 001-24, 001-36, 001-48, 001-54, 059, 057, 054, 055, 060 configurations are third party tested to 1000 pounds. [High polish finish -4] [Safety grip satin finish -2] [Safety grip high polish finish -7]
832	Concealed mounting 1-1/4 inch o.d. 18 ga stainless steel tubing. 3-1/8 inch diameter 13 ga flanges; 22 ga stainless steel escutcheons. With mounting kit. 001-12, 001-18, 001-24, 001-

	36, 001-48, 059, 057 configurations are third party tested to 900 pounds. [High polish finish -4] [Safety grip satin finish -2] [Safety grip high polish finish -7]
837	Exposed mounting 1-1/4 inch o.d. 18 ga stainless steel tubing. 3-1/8 inch diameter 11 ga flanges; With mounting kit. 001-12, 001-18, 001-24, 001-36, 001-48, 059, 057 configurations are third party tested to 900 pounds. [High polish finish -4] [Safety grip satin finish -2] [Safety grip high polish finish -7]
852	Concealed mounting 1 inch o.d. 18 ga stainless steel tubing. 3-1/8 inch diameter 13 ga flanges; 22 ga stainless steel escutcheons. With mounting kit. 001-18, 001-24 configurations are third party tested to 900 pounds. [High polish finish -4] [Safety grip satin finish -2] [Safety grip high polish finish -7]
857	Exposed mounting 1 inch o.d. 18 ga stainless steel tubing. 3-1/8 inch diameter 11 ga flanges; With mounting kit. 001-18, 001-24 configurations are third party tested to 900 pounds. [High polish finish -4] [Safety grip satin finish -2] [Safety grip high polish finish -7]
8320-106360	36 inches long. Concealed mounting 1-1/4 inch o.d. 18 ga satin finish stainless steel tubing. 3-1/8 inch diameter 13 ga flanges; 22 ga stainless steel escutcheons, intermediate supports. Third party tested to 1250 pounds. [safety-grip satin finish -2]
8320-106420	42 inches long. Concealed mounting 1-1/4 inch o.d. 18 ga satin finish stainless steel tubing. 3-1/8 inch diameter 13 ga flanges; 22 ga stainless steel escutcheons, intermediate supports. Third party tested to 1250 pounds. [safety-grip satin finish -2]
SA70	Exposed mounting 1-1/2 inch o.d. 18 gauge satin finish stainless steel tubing. 3-1/8 inch diameter 11 ga flanges, [Safety Grip finish -2].

A. Fixed Grab Bars [GB18] [GB24] [GB30] [GB36], [GB42], [GB48] [GB42 by 48]:

1. Basis of Design, Fixed Grab Bar: Bradley Corp., Model <insert Model Number>
2. Description: <insert description from above>

BRADLEY SHELVES

<u>Model</u>	<u>Description</u>
9094	Stainless Steel Shelf: 5-inch deep, satin finish concealed mounting shelf. Standard lengths: 18 or 24-inches.
9095	Stainless Steel Shelf: 5-inch deep, Bright Polished, concealed mounted shelf. Standard lengths: 18 or 24-inches.
9104	Surface mounted stainless steel welded shelf: Satin finish. Standard lengths: 18 or 24-inches by 8-inches deep. -90: Includes towel bar underneath.
9105	Surface mounted stainless steel welded shelf: Bright Polished finish. Standard lengths: 18 or 24-inches by 8-inches deep. -90: Includes towel bar underneath.
9301	Surface Mounted Chrome Plated Shelf: 8 and 1/2-inch deep surface mounted shelf with concealed mounting. Standard lengths: 18 or 24-inches.

A. Towel Shelf TS:

1. Basis of Design: Bradley Corp., Model <insert model number>
2. Description: <insert description from above>

BRADLEY MIRRORS

Note: For tempered glass one dimension must be greater than 25-inches. Maximum size: 48 (W) by 48 (H)-inches.

Model Description

747 Surface mount frameless mirror with clip fasteners. First quality ¼" float glass, edges ground and polished smooth. Max size: 60" W x 96" H.

748 Frameless Stainless Steel mirror: Type 304 No. 8 bright finish stainless steel mirror, stretcher leveled. Tempered hardboard backer bonded to mirror with adhesive. Maximum Size: 47" W x 72" H

7481 Frameless Stainless Steel mirror: Type 430 bright annealed stainless steel mirror, stretcher leveled. Tempered hardboard backer bonded to mirror with adhesive. Maximum Size: 47" W x 72" H

780 Angle Frame Mirror: Stainless steel frame with stiffeners and bevel on front of frame to secure frame is flush against mirror surface. Galvanized steel back secured to frame with concealed fasteners. Mirror: 1/4 inch float glass, triple silver plated with electro copper plated layer and thermosetting, infrared cured paint backing with Poly-Glaze finish. All edges protected by shock-absorbing neoprene tubing. Includes cold rolled steel wall hangers. [Tempered glass] [laminted glass] [Polished No. 8 stainless steel] [Bright annealed stainless steel] [Plexiglass]. Maximum size is 120" W x 72" H but must no exceed 40 square feet.

7805 Angle Frame Mirror: Stainless steel frame with stiffeners and bevel on front of frame to secure frame is flush against mirror surface. Galvanized steel back secured to frame with concealed fasteners. Mirror: 1/4 inch float glass, triple silver plated with electro copper plated layer and thermosetting, infrared cured paint backing with Poly-Glaze finish. All edges protected by shock-absorbing neoprene tubing. Includes cold rolled steel wall hangers. [Tempered glass] [laminted glass] [Polished No. 8 stainless steel] [Bright annealed stainless steel] [Plexiglass]. Maximum size is 120" W x 72" H but must not exceed 40 square feet. with 5-1/2-inch stainless steel shelf.

781 Channel Frame Mirror: Stainless steel frame with stiffeners. Galvanized steel back secured to frame with concealed fasteners. Mirror: ¼" float glass, triple silver plated with electro copper plated layer and thermosetting, infrared cured paint backing with poly-glaze finish. All edges protected by shock-absorbing neoprene tubing. Includes cold rolled steel wall hangers. [Tempered glass] [Laminated glass] [Polished No. 8 stainless steel] [Bright annealed stainless steel] [Plexiglass].

7815 Channel Frame Mirror: Stainless steel frame with stiffeners. Galvanized steel back secured to frame with concealed fasteners. Mirror: ¼" float glass, triple silver plated with electro copper plated layer and thermosetting, infrared cured paint backing with poly-glaze finish. All edges protected by shock-absorbing neoprene tubing. Includes cold rolled steel wall hangers. [Tempered glass] [Laminated glass] [Polished No. 8 stainless steel] [Bright annealed stainless steel] [Plexiglass].with 5-1/2-inch stainless steel shelf.

SA01 Security Framed Chase-Mounted Wall Mirror: Seamless exposed frame surfaces provided in architectural satin finish; 1/4-20 welded anchors on back of frame; [stainless steel mirror polished to a No. 8 architectural finish -1] [stainless steel bright annealed mirror -2] [1/4-inch thick plexiglass mirror -3].

SA03 Security Framed Front-Mounted Wall Mirror: Seamless exposed frame surfaces provided in architectural satin finish. Provide Torex secure fasteners. [Stainless steel mirror polished to a No. 8 architectural finish -1] [stainless steel bright annealed mirror -2] [1/4-inch thick plexiglass mirror -3].

B. Mirror Unit MG:

1. Basis of Design: Bradley Corp., Model <insert model number>.
2. Description: <insert description from above>.
3. Size: [18 by 30-inches (457 by 762 mm)] [__ by __-inches (___ by ___ mm)].

SHOWER CURTAIN RODS

<u>Model</u>	<u>Description</u>
947	Bright polished surface mounted retractable clothesline.
953	Straight shower curtain rod with 22 ga stainless steel mounting flanges and exposed fasteners. 18 ga 1-inch OD seamless stainless steel tubing. Suitable for 36- to 72-inch shower stall. [Satin finish] [Bright polished finish -4].
9531	Straight shower curtain rod with 22 ga stainless steel mounting flanges and exposed fasteners. 18 ga 1-inch OD seamless stainless steel tubing. Suitable for lengths over 72". [Satin finish] [Bright polished finish -4], [, shower rod ceiling support].
9530	Curved shower curtain rod with swiveled mounting brackets. 1-inch OD seamless stainless steel tubing. Supports 50 pounds. [60-inch] [72-inch] [Bright polished finish] [Satin polish].
9538	Straight shower curtain rod with plastic mounting flanges and stainless steel snap-on escutcheons. 1-inch OD seamless 18 ga stainless steel tubing with satin finish. Suitable for 36- to 72-inch shower stall.
9539	Straight shower curtain rod with plastic mounting flanges and stainless steel snap-on escutcheons. 1-inch OD seamless 18 ga stainless steel tubing with satin finish. Suitable for lengths over 72" [, shower rod ceiling support].

C. Shower Curtain Rod SCR:

1. Basis of Design: Bradley Corp., Model <insert model number>.
2. Description: <insert description from above>.

SHOWER CURTAINS

Width Tolerances for all shower curtains is +/- 2 inches.

<u>Model</u>	<u>Description</u>
9533	Antimicrobial 6 ga. vinyl shower curtain, white. Hemmed edges and aluminum grommets on 6-inch centers at top edge. Sizes: 36, 42, 48, 60 or 72 inches (W) by 72 or 78 inches (H).
9534	8 oz. cotton duck shower curtain, white. Hemmed top edge and chrome plated nickel grommets on 6-inch centers. Various sizes. Sizes: 36, 42, 48, 60 or 72 inches (W) by 72 or 78 inches (H).
9535	Antimicrobial 9 oz. nylon-reinforced PVC vinyl shower curtain, green. Reinforced, flameproof, stain resistant, self-deodorizing fabric. Hemmed edges and aluminum grommets on 6-inch centers at top edge. Sizes: 36, 42, 48, 60 or 72 inches (W) by 72 or 78 inches (H).

9537	Antimicrobial 9 oz. nylon-reinforced PVC vinyl shower curtain, white. Reinforced, flameproof, stain resistant, self-deodorizing fabric. Hemmed edges and aluminum grommets on 6-inch centers at top edge. Sizes: 36, 42, 48, 60 or 72 inches (W) by 72 or 78 inches (H).
9536	Shower curtain hook, stainless steel spring wire clip with snap fastener. Suitable for use with 1-inch and 1-1/4-inch shower curtain rods.
9540	Shower curtain hook, stainless steel spring wire clip with snap fastener, with 5 nickel plated brass rollers on each hook. Suitable for use with 1 inch and 1-1/4 inch shower curtain rods.

A. Shower Curtain SC:

1. Basis of Design: Bradley Corp., Model <insert model number>.
2. Description: <insert description from above>.

SHOWER SEATS

<u>Model</u>	<u>Description</u>
9591	1 inch OD stainless steel tubing frame with 1-1/2" HDPE support bars, stainless steel wall bracket, stainless steel retaining bracket, and melamine laminated seat over 1/2-inch solid phenolic core. Square shaped configuration. Positive catch holds seat in the up or down position. Static load limit: 500 lbs. Seat color: white.
9592	Folding reversible shower seat, 1 inch OD stainless steel tubing frame with 1-1/2" HDPE support bars, stainless steel wall bracket, stainless steel retaining bracket, and 1 inch thick solid high-density polyethylene seat. Square shaped configuration. Positive catch holds seat in up or down position. Static load limit: 500 lbs. Seat color: Linen with cobblestone textured finish.
9593	Folding reversible shower seat, 1 inch OD stainless steel tubing frame with 1-1/2" HDPE support bars, stainless steel wall bracket, stainless steel retaining bracket, and 1 inch thick solid high-density polyethylene seat. Rectangular shaped configuration. Positive catch holds seat in up or down position. Static load limit: 400 lbs. Seat color: Linen with cobblestone textured finish.
9594	Folding reversible shower seat 1 inch OD stainless steel tubing frame with 1-1/2" HDPE support bars, stainless steel wall bracket, stainless steel retaining bracket, and 1 inch thick, solid high-density polyethylene seat. Seat is field convertible to left or right hand L shaped configuration. Positive catch holds seat in up or down position. Static load limit: 250 lbs. Seat color: Linen with cobblestone textured finish.
958	1-1/4-inch OD stainless steel tubing frame with 1-inch OD cross members, free standing with wall brackets, and melamine laminated seat over 1/2-inch solid phenolic core. Rectangular shaped seat, white. Positive catch holds seat in up or down position. Static load limit: 900 lbs.
9571	1-1/4-inch OD steel tubing frame with 1-inch OD cross members. Free standing with wall bracket, and melamine laminated seat over 1/2-inch solid phenolic core. Right hand "L" shaped seat. Positive catch holds seat in up or down position. Static load limit: 900 lbs.
957	1-1/4-inch OD steel tubing frame with 1-inch OD cross members. Free standing with wall bracket, and melamine laminated seat over 1/2-inch solid phenolic core. Left hand "L" shaped seat. Positive catch holds seat in up or down position. Static load limit: 900 lbs.

954	Satin finished 16 ga stainless steel corner shower seat with one side hinged.
9541	Satin finished 16 ga stainless steel corner shower seat.
9562	1 inch OD stainless steel tubing frame with 1-1/2" HDPE support bars, stainless steel wall bracket, stainless steel retaining bracket and melamine laminated seat over 1/2-inch solid phenolic core. Rectangle shaped configuration. Positive catch holds seat in up or down position. Static load limit: 500 lbs. Seat color: white.
9569	1 inch OD stainless steel tubing frame with 1-1/2" HDPE support bars, stainless steel wall bracket, stainless steel retaining bracket, and melamine laminated seat over 1/2-inch solid phenolic core. Seat is field convertible to left or right hand "L" chaped configuration. Positive catch holds seat in up or down position. Static load limit: 250 lbs. Seat color: white.

B. Shower Seat FSS:

1. Basis of Design: Bradley Corp., Model <insert model number>.
2. Description: <insert description from above>.

SOAP DISHES

<u>Model</u>	<u>Description</u>
900	Surface mounted, 7-gauge satin stainless steel, formed as a single piece with three drain holes in bottom of tray.
901	Surface mounted chrome plated brass with vandal resistant escutcheon [, with drain holes - 60]
9014	Surface mounted, satin finish stainless steel Includes four drain holes [without drain holes - 63].
9015	Surface mounted, bright polished stainless steel. Includes drain holes [without drain holes - 63].
921	Surface mounted, die cast Zamac, copper nickel plated with highly polished chrome finish. Includes cadmium plated steel wall plate [with drain holes -60].
9352	Recess mounted, bright polished stainless steel. Includes removable soap tray.
9353	Recess mounted, satin stainless steel. Includes removable clear plastic soap tray.
9362	Recess mounted, Bright polished stainless steel. Includes removable soap tray and matching towel bar.
9363	Recess mounted, satin stainless steel. Includes removable soap tray and matching towel bar.
940	Masonry mounted, recessed, satin stainless steel, with integral towel bar. Incudes mortar lugs.
9401	Masonry mounted, recess mounted, satin stainless steel, Incudes mortar lugs.
9402	Recess mounted, satin stainless steel, integral towel bar and wall clamp.
9403	Masonry mounted, recess mounted, satin stainless steel.

A. Soap Dish SD:

1. Basis of Design: Bradley Corp., Model <insert model number>.
2. Description: <insert description from above>.

ROBE AND TOWEL HOOKS

<u>Model</u>	<u>Description</u>
911	Surface mounted clothes hook, chrome plated brass. Single hook. Projects 1-3/4 inch.
9111	Surface mounted clothes hook, satin stainless steel. Single hook.
9114	Surface mounted, satin stainless steel. Single hook. Projects 2 inches.
9115	Surface mounted, bright polished stainless steel. Single hook. Projects 2 inches.
9118	Surface mounted robe hook, chrome plated brass. Single hook. Exposed mounting. Projects 3-1/4 inches.
9119	Surface mounted robe hook with concealed mounting hardware, chrome plated brass with chrome plated steel cover plate. Single hook. Projects 3-1/4 inches.
912	Surface mounted clothes hook, chrome plated brass. Double hook. Projects 2 inches.
9124	Surface mounted, satin stainless steel. Double hook. Projects 2-1/4 inches.
9125	Surface mounted, bright polished stainless steel. Double hook. Projects 2-1/4 inches.
9134	Surface mounted hat and coat hook, satin stainless steel. Single hook for each. Projects 2-5/8 inches.
9135	Surface mounted hat and coat hook, bright polished stainless steel. Single hook for each. Projects 2-5/8 inches.
914	Surface mounted clothes hook, chrome plated brass. Double hook.
915	Surface mounted clothes hook and door bumper, chrome plated brass. Single hook. Projects 3 inches.
917	Surface mounted clothes hook. 12ga stainless steel hook in satin finish.
931	Surface mounted towel hook, die cast Zamac, copper nickel plated with highly polished chrome finish. Includes cadmium plated steel wall plate. Single hook.
9311	Surface mounted towel hook, die cast Zamac, copper nickel plated with highly polished chrome finish. Long projection (5-1/8-inches). Includes cadmium plated steel wall plate. Single hook.
932	Surface mounted robe hook, die cast Zamac, copper nickel plated with highly polished chrome finish. Includes cadmium plated steel wall plate. Double hook.
9314	Stainless steel towel hook: Surface mounted satin stainless steel. Single hook. Projects 4-7/16 inches.
9315	Stainless steel towel hook: Surface mounted bright polished stainless steel. Single hook. Projects 4-1/2 inches.

A. Robe Hook RH:

1. Basis of Design: Bradley Corp., <insert model number>.
2. Description: <insert description from above>.

2.4 MATERIALS

- A. Stainless Steel: ASTM A 666 Type 304 (18-8); satin finish exposed surfaces unless otherwise indicated.
- B. Steel Sheet: ASTM A 1008/A 1008M, Designation CS, manufacturer's standard thickness.

- C. Galvanized-Steel Sheet: ASTM A 653/A 653M, with G60 hot-dip zinc coating, manufacturer's standard thickness.
- D. Galvanized-Steel Mounting Devices: ASTM A 153/A 153M, hot-dip galvanized after fabrication.
- E. Fasteners:
 - 1. Exposed: Screws, bolts, and other devices of same material as accessory unit and tamper-and-theft resistant.
 - 2. Concealed: Galvanized steel.
- F. Chrome Plating: ASTM B 456, Service Condition Number SC 2, moderate service.
- G. Mirrors: ASTM C 1503, mirror glazing quality, consisting of clear float glass ASTM C 1036, nominal 6.0 mm thick, triple silver plated with electro copper plated layer and thermosetting, infrared cured paint backing with epoxy protective finish.
- H. ABS Plastic: Acrylonitrile-butadiene-styrene resin formulation.

2.5 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 keys to Owner's representative.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Assemble fixtures and associated fittings and trim in accordance with manufacturer's instructions.
- B. Install supports attached to building structure for equipment requiring supports.
- C. Grab Bars: Install grab bars to withstand downward force of not less than 250 lbf (1112 N) per ASTM F 446.
- D. Install equipment level, plumb, and firmly in place in accordance with manufacturer's rough-in drawings.

3.2 CLEANING AND PROTECTION

- A. Repair or replace defective work, including damaged equipment and components.
- B. Clean unit surfaces, and leave in ready-to-use condition.
- C. Turn over keys, tools, maintenance instructions, and maintenance stock to Owner.

3.3 TESTING AND ADJUSTING

- A. Test each piece of equipment provided with moving parts to assure proper operation, freedom of movement, and alignment. Install new batteries in battery-powered items.
- B. Repair or replace malfunctioning equipment, or equipment with parts that bind or are misaligned.

END OF SECTION