

BRADLEY DETENTION TOILET ACCESSORIES

This Bradley guide specification is useful in specifying toilet accessories for detention projects. It includes an array of detention accessories for use in secure areas. For a complete project including toilet facilities in non-secure areas, this section can be used in conjunction with Bradley's Commercial Toilet Accessories section. This section is editable using common specification software editing tools, including selection of IP and SI units.

Bradley is a trusted leader in the toilet accessory market, offering high quality accessories at a competitive price, fast delivery, and excellent customer service. Bradley offers a full line of washroom accessories for every application. From high-end office buildings to high-security prisons, Bradley has a product to meet any washroom accessory need.

Custom products are another Bradley specialty, from unusual configurations of grab bars, to modified sizes, Bradley will work with you to provide the products necessary to complete your project. Bradley Corporation serves a diverse customer base ranging from local business facilities to international corporations like Wal-Mart, General Motors, U.S. Postal Service, and 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. Bradley's Universal Design Guide – Washrooms & Showers is available on the Bradley website as a helpful resource when planning commercial toilet room layout.

Bradley premium quality commercial products appear in the following CSI MasterFormat 2010™ Sections:

Section 10 21 13 – TOILET COMPARTMENTS (Mills® Metal, Plastic-laminate, Phenolic, and Plastic units)

Section 10 28 13.13 – COMMERCIAL TOILET ACCESSORIES (Institutional and commercial accessories)

Section 10 28 13.19 – HEALTHCARE TOILET ACCESSORIES (Patient care accessories)

Section 10 28 13.21 – WARM AIR DRYERS (Aerix® hand dryers)

Section 10 28 13.63 – DETENTION TOILET ACCESSORIES

Section 10 28 16 – BATH ACCESSORIES (Hospitality and commercial bath accessories)

Section 10 51 26 – PLASTIC LOCKERS (Lenox® Plastic Lockers)

Section 22 11 19 – DOMESTIC WATER PIPING SPECIALTIES (Thermostatic mixing valves)

Section 22 42 16.01 – COMMERCIAL LAVATORIES AND FAUCETS (Express® and Frequency® Single and multi-station lavatories)

Section 22 42 16.02 – COMMERCIAL LAVATORIES AND FAUCETS (Advocate® lavatories)

Section 22 42 16.03 – COMMERCIAL LAVATORIES AND FAUCETS (Verge™ lavatories)

Section 22 42 16.04 – COMMERCIAL LAVATORIES AND FAUCETS (Lav Decks™ lavatories)

Section 22 42 16.11 – COMMERCIAL SINKS AND FAUCETS

Section 22 42 23 – COMMERCIAL SHOWERS AND SHOWER VALVES

Section 22 42 33 – WASHFOUNTAINS (Sentry™, BradMate™, and Classic washfountains)

Section 22 43 00 – HEALTHCARE PLUMBING FIXTURES (Patient care lavatory units)

Section 22 45 00 – EMERGENCY PLUMBING FIXTURES (Halo™ Emergency eyewash fixtures and 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.

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**SECTION 10 28 13.63
DETENTION TOILET ACCESSORIES**

PART 1 - GENERAL

1.1 SECTION INCLUDES

Specifier: Edit list below to correspond to project.

- A. Toilet tissue holders.
- B. Grab bars.
- C. Shelves.
- D. Stainless-steel mirrors.
- E. Shower accessories.

1.2 RELATED SECTIONS

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

- 1. Division 01 Section "Special Project Procedures for Detention Facilities" for general requirements for detention work.
- 2. Division 10 Section "Commercial Toilet Accessories" for toilet and shower accessories in non-secure portions of detention facilities.

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 153/A 153M - Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware.
 - 2. ASTM A 653/A 653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.
 - 3. ASTM A 666 - Standard Specification for Annealed or Cold-Worked Austenitic Stainless Steel Sheet, Strip, Plate, and Flat Bar.
 - 4. 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.

5. ASTM B 456 - Standard Specification for Electrodeposited Coatings of Copper plus Nickel plus Chromium and Nickel plus Chromium.
6. ASTM E 488 - Standard Test Methods for Strength of Anchors in Concrete and Masonry Elements.
7. ASTM F 446 - Standard Consumer Safety Specification for Grab Bars and Accessories Installed in the Bathing Area.

C. American Welding Society (AWS):

1. AWS D1.1/D1.1M - Structural Welding Code – Steel.
2. AWS D1.3 - Structural Welding Code - Sheet Steel.
3. AWS D1.6 - Structural Welding Code - Stainless Steel.

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.

B. Samples: For each type of detention toilet accessory.

1.5 INFORMATION SUBMITTALS

A. Sample warranty.

B. Operation, care, and cleaning instructions.

1.6 CLOSEOUT SUBMITTALS

A. Operation and Maintenance data.

1.7 MAINTENANCE MATERIAL SUBMITTALS

A. Security Fasteners: Furnish not less than 1 box of each type and size of security fastener.

B. Tools: Provide two sets of each type of tool required for installation of detention toilet accessories.

1.8 QUALITY ASSURANCE

A. Source Limitations: For products listed, obtain products from single source from single manufacturer.

B. Manufacturer Qualifications: Approved manufacturer listed in this section, with minimum [5] years experience in the manufacture of product types. 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 product specified.
3. List of successful installations of similar products available for evaluation by Architect.
4. Submit substitution request in accordance with Instructions to Bidders and Division 01 General Requirements.

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 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. Security Fasteners: Exposed: Screws, bolts, and other devices of same material as accessory unit and Pinned Torx-Plus head.
- F. Concealed Bolts: ASTM A 307, Grade A, hot dipped galvanized steel.
- G. Cast-in-Place Anchors in Concrete: Corrosion-resistant, supporting four times imposed load per ASTM E 488, malleable iron or cast steel, hot-dip galvanized per ASTM A 153/ A 153M.
- H. Welding Rods and Bare Electrodes: Select per AWS.
- I. Security Sealant: Type recommended by manufacturer for application.

2.3 DETENTION TOILET TISSUE HOLDERS

Bradley Detention Toilet Tissue Holders, Front-Mounted:

- | | |
|------|---|
| SA10 | Single roll, front-mounted holder for 5 inch diameter roll. L-shaped tube, 18 ga. stainless steel with welded end cap and 11 ga. wall flange, satin finish. Includes Torx-head screws for installation into wall anchors. |
| SA12 | Single roll, front-mounted recessed holder, satin finish 16 ga. stainless steel, with 14 ga. square mounting flange welded to holder. Includes Torx-head screws for installation into wall anchors. |
| SA14 | Sheet tissue holder, front-mounted, satin finish, 14 ga. stainless steel. Includes Torx-head screws for installation into wall anchors. |

A. Toilet Tissue Roll Dispenser, Front-mounted **TTHS**:

1. Basis of Design: **Bradley Corp., Model [____]**.
2. Application: **[At each water closet, unless otherwise indicated.] [Where indicated] [insert location description]**.
3. Capacity: **[Single roll] [Sheet tissue]** holder.
4. Finish and Base Material: Satin-finish stainless steel.
5. Tissue Access: Exposed.
6. Delivery: Non-controlled.
7. Mounting: Front mounted.

Bradley Detention Toilet Tissue Holders, Chase-Mounted:

- | | |
|------|--|
| SA09 | Single roll, chase-mounted, L-shaped holder for 5 inch diameter roll. Satin finish 18 ga stainless steel tubing and 11 ga. stainless steel flange. Includes integral welded nuts for studs inserted from chase side of wall. |
| SA11 | Single roll, chase-mounted holder with beveled rim, satin finish 16 ga. stainless steel. Back of holder has welded nuts to receive threaded studs mounted on 11 ga. galvanized steel backplate, from chase side of wall. |
| SA13 | Sheet tissue holder, chase-mounted, satin finish 14 ga. stainless steel. Back of holder has welded nuts to receive threaded studs mounted on 11 ga. galvanized steel backplate, from chase side of wall. |

B. Toilet Tissue Roll Dispenser, Chase-mounted **TTHS**:

1. Basis of Design: **Bradley Corp., Model [____]**.
2. Application: **[At each water closet, unless otherwise indicated.] [Where indicated] [insert location description]**.
3. Capacity: **[Single roll] [Sheet tissue]** holder.
4. Finish and Base Material: Satin-finish stainless steel.
5. Tissue Access: Exposed.
6. Delivery: Non-controlled.
7. Mounting: Chase mounted.

Bradley Detention Toilet Tissue Holders, Partition-Mounted:

- | | |
|------|--|
| SA15 | Sheet tissue holder, partition mounted, satin finish 14 ga. stainless steel with chrome plated brass thru-bolts for mounting to surface of partitions. |
|------|--|

C. Toilet Tissue Roll Dispenser, Partition-mounted **TTHS**:

1. Basis of Design: **Bradley Corp., Model [____]**.
2. Application: [At each water closet, unless otherwise indicated.] [Where indicated] [insert location description].
3. Capacity: [Single roll] [Sheet tissue] holder.
4. Finish and Base Material: Satin-finish stainless steel.
5. Tissue Access: Exposed.
6. Delivery: Non-controlled.
7. Mounting: Partition mounted.

2.4 DETENTION GRAB BARS

Bradley Grab Bars:

SA70 1-1/2 inch o.d., 18 ga satin finish stainless steel tubing. Includes 11 ga., 3-1/8 inch diameter stainless steel flange and Torx-head screws for installation into wall anchors. Closure plate 11 ga stainless steel.

A. Detention Grab Bar, Fixed [DGB18] [DGB24] [DGB36] [DGB42] [DGB60] :

1. Basis of Design, Fixed Grab Bar: **Bradley Corp., Model SA70** 1-1/2 inch (38 mm) diameter.
2. Application: [Where indicated] [insert location description].
3. Mounting: 3-1/8 inch (79 mm) diameter, 11 ga./0.125 inch (3.2 mm) stainless steel flanges with exposed fasteners for installation into wall anchors.
4. Material: Stainless steel, 18 ga./0.050 inch (1.27 mm) thick. Closure Plate: 11 ga./0.125 inch (3.2 mm) stainless steel.
5. Length: As indicated.
6. Finish: Satin, stainless steel, [smooth] [safety-grip] finish.

2.5 DETENTION SHELVES

Bradley Detention Shelf:

SA47 Recessed, chase mounted shelf. 16 ga. stainless steel, satin finish on exposed surfaces. Interior finish: satin glass blast. Includes welded nuts to accept 1/4-20 studs from back side of wall. 16 inches long.

SA49 Chase mounted shelf. 14 ga. stainless steel, satin finish on exposed surfaces. Includes welded nuts to accept 1/4-20 studs from back side of wall. 16 inches long.

SA50 Chase mounted shelf with four toothbrush slots. 14 ga. stainless steel, satin finish on exposed surfaces. Includes welded nuts to accept 1/4-20 studs from back side of wall. 18 inches long.

SA51 Chase mounted book shelf with four clothes hooks. 14 ga. stainless steel, satin finish on exposed surfaces. Includes welded nuts to accept 1/4-20 studs from back side of wall. 18 inches long.

SA52 Front mounted book shelf with four clothes hooks. 14 ga. stainless steel, satin finish on exposed surfaces. Includes Torx head screws for installation with wall anchors. 18 inches long.

SA53 Chase mounted book shelf with four clothes hooks. 14 ga. stainless steel, satin finish on exposed surfaces. Includes welded nuts to accept 1/4-20 studs from back side of wall. 18 inches long.

SA54	Front mounted book shelf with four clothes hooks. 14 ga. stainless steel, satin finish on exposed surfaces. Includes Torx head screws for installation with wall anchors. 18 inches long.
SA55	Chase mounted book shelf. 14 ga. stainless steel, satin finish on exposed surfaces. Includes welded nuts to accept 1/4-20 studs from back side of wall. 18 inches long.
SA56	Front mounted book shelf. 14 ga. stainless steel, satin finish on exposed surfaces. Includes Torx head screws for installation with wall anchors. 18 inches long.

A. Shelf **SH**:

1. Basis of Design: **Bradley Corp., Model [____]**.
2. Application: [Where indicated] [insert location description].
3. Mounting: [Chase] [Front] mounted on wall or partition [, fold-down].
4. Material: Shelf Assembly: [16 ga./0.0625 inch (1.6 mm)] [14 ga./0.0781 inch (2.0 mm)] stainless steel. Backplate: 11 ga./0.1250 inch (3.2 mm) stainless steel, with welded nuts for 1/4-20 studs inserted from back side of wall.
5. Length: [16 inches (406 mm)] [18 inches (457 mm)] [36 inches (914 mm)] [42 inches (1067 mm)] [60 inches (1524 mm)] [As indicated].
6. Toothbrush Slots: Four.
7. Hardware: [Torx head screws.] [1/4-20 studs.]
8. Finish: Satin stainless steel.

2.6 DETENTION MIRRORS

Mirror Units:	
SA01	Chase mounted 12 by 16 inch mirror, 14 ga stainless steel frame with seamless construction, with satin finish on exposed surfaces. Frame includes welded nuts to accept 1/4-20 studs. Mirror held to frame by fiberboard backing. SA01-1: Mirror is 20 ga stainless steel polished to No. 8 architectural finish. Stretcher leveled. Very bright finish, slight polish grain. SA01-2: Mirror is 20 ga stainless steel, bright annealed. Stretcher leveled. Surface is bright and smooth, with mirror-like finish. SA01-5: Plexiglas® mirror is 1/4 inch thick. Surface will scratch. Retain paragraph in Part 3 regarding abrasive cleaners.
SA03	Front Mounted 12 by 16 inch mirror, 14 ga stainless steel frame with seamless construction, with satin finish on exposed surfaces. Includes 1/4-20 Torx-head screws for installation into wall anchors. Mirror held to frame by fiberboard backing. SA03-1: Mirror is 20 ga stainless steel polished to No. 8 architectural finish. Stretcher leveled. Very bright finish, slight polish grain. SA03-2: Mirror is 20 ga stainless steel, bright annealed. Stretcher leveled. Surface is bright and smooth, with mirror-like finish. SA03-5: Plexiglas mirror is 1/4 inch thick. Surface will scratch. Retain paragraph in Part 3 regarding abrasive cleaners.
SA05	11-1/4 by 17-1/4 mirror is 20 ga stainless steel polished to No. 8 architectural finish. Stretcher leveled. Very bright finish, slight polish grain. Frame: 22 ga stainless steel, satin finish. Includes Torx-head screws for installation into wal anchors.
SA06	Same as Model SA05, but 10-1/16 by 11-9/16 inches.

A. Framed Mirror Unit **MG**:

1. Basis of Design: **Bradley Corp., Model [____]**.
2. Size and Application: [12 by 16 inches (305 by 406 mm)] [11 by 17 inches (286 by 438 mm)] [10-1/16 by 11-9/16 inches (256 by 294 mm)], [at each wash station] [where indicated] [insert location description].
3. Frame: 14 ga./0.0781 inch (1.98 mm) stainless-steel, seamless, with installation by [1/4-20 stud anchored into wall] [1/4-20 Torx-head screws] [insert location description].
4. Mirror:

Specifier: Select one of 3 reflective surface material subparagraphs.

- a. Reflective Surface: No. 8 polished 20 ga/0.0375 inch (0.95 mm) stainless steel.
- b. Reflective Surface: Bright annealed 20 ga./0.0375 inch (0.95 mm) stainless steel.
- c. Reflective Surface: 1/4 inch (6 mm) thick plexiglass.

B. Toothbrush Holder TBH:

Bradley Toothbrush Holder:

- | | |
|------|--|
| SA25 | Chase mounted, 7 ga. stainless steel, satin finish, formed from single piece of metal, with 4 toothbrush holes. Back of toothbrush holder has welded anchor nuts for mounting screws installed from back side of wall. |
| SA26 | Same as Model SA25, but front mounted, with Torx-head screws for installation into wall anchors. |

1. Basis of Design: **Bradley Corp., Model [____]**.
2. Material: 7 ga./0.187 inch (4.77 mm) stainless steel.
3. Finish: Stainless steel, satin.
4. Toothbrush Holes: Four.

2.7 DETENTION SHOWER ACCESSORIES

A. Folding Shower Seat FSS:

1. Basis of Design: **Bradley Corp., Model SA65**.
2. Material: Housing: 16 ga./0.0625 inch (1.6 mm) stainless steel with heavy channels welded to back of unit. Seat: Fold down, stainless steel.
3. Static Load Capacity: 750 lb. (1650 kg).

Soap Dishes:

- | | |
|------|---|
| SA16 | Chase mounted, 18 ga. stainless steel, satin finish, formed as a single piece. Back of soap dish has welded anchor nuts for mounting screws installed from back side of wall. |
| SA21 | Chase mounted, 7 ga. stainless steel, satin finish, formed from single piece of metal, with 3 drain holes. Back of soap dish has welded anchor nuts for mounting screws installed from back side of wall. |
| SA22 | Same as model SA21, but front mounted, with Torx-head screws for installation into wall anchors. |

B. Soap Dish SD:

1. Basis of Design: **Bradley Corp., Model [____]**.

2. Material and Finish: [18 ga./0.050 inch (1.27 mm)] [7 ga./0.187 inch (4.77 mm)] satin stainless steel.
3. Drain Holes: [With] [Without].

Bradley Towel Hook:

SA30	Chase mounted, 14 ga. stainless steel, satin finish, formed from single piece of metal, with 1 towel hook. Back of mounting plate has welded anchor nuts for mounting screws installed from back side of wall.
SA31	Same as Model SA25, but front mounted, with Torx-head screws for installation into wall anchors.
SA32	Same as Model SA30, but with 4 towel hooks.
SA33	Same as Model SA31, but with 4 towel hooks.
SA35	Chase mounted, 14 ga. stainless steel, satin finish. Includes safety hook ball joint that releases when more than 20 lb. of force is applied. Back of mounting plate has welded anchor nuts for mounting screws installed from back side of wall.
SA36	Same as Model SA35, but front mounted, with Torx head screws for installation into wall anchors.
SA37	Chase mounted, 11 ga. stainless steel bracket with 7 ga. stainless steel hook, satin finish. Includes safety release mechanism that releases when more than 20 lb. of force is applied.
SA38	Same as Model SA37, but 4 clothes hooks.
SA39	Same as SA38, front mounted with Torx head screws.
SA41	Same as SA36, but 4 towel hooks.

C. Towel Hook **TH**:

1. Basis of Design: **Bradley Corp., Model [____]**.
2. Material and Finish: [7 ga./0.187 inch (4.77 mm)] [14 ga./0.078 inch (1.98 mm)] satin stainless-steel, seamless.
3. Mounting: [1/4- 20 stud anchored into wall] [1/4-20 Torx-head screws] [insert location description].
4. Towel Hooks: [One.] [Four.]
5. Breakaway Towel Hook: [Ball-] [Hook-] type.
6. Breakaway Force: 20 lb (44 kg).

2.8 FABRICATION

- A. General: Fabricate units with tight seams and joints, with edges and corners free of sharp edges. Remove burrs. Hem edges of sheet metal minimum 1/2 inch (12 mm) on unexposed side. Minimize joints; form connections with hairline joints in inconspicuous locations.
- B. Equip units for concealed anchorage where indicated, utilizing corrosion-resistant backing plates. Fabricate anchors to secure detention toilet accessories rigidly in place and to resist anticipated loads.

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 load of not less than 250 lbf (1112 N) per ASTM F 446.
- D. Apply security sealant in a continuous ribbon around perimeter of back of surface-mounted detention toilet accessories.
- E. Install detention toilet accessories using security fasteners recommended by manufacturer for application.
- F. 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. Clean mirrors with products recommended by mirror manufacturer.
 - 1. Do not clean Plexiglas mirrors with abrasive cleaning products.
- D. 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.
- B. Repair or replace malfunctioning equipment, or equipment with parts that bind or are misaligned.

END OF SECTION