



**SECTION 10 21 13.50**  
**GLASS TOILET COMPARTMENTS**

**PART 1 - GENERAL**

1.1 SUMMARY

- A. Section Includes:
  - 1. Glass panel compartment partitions for the following applications:
    - a. Toilet enclosures.
    - b. Privacy screens.
    - c. Urinal screens.
- B. Related Requirements:
  - 1. Division 03 Section "Cast in Place Concrete" for compartment anchorage to concrete substrates.
  - 2. Division 04 Section "Unit Masonry" for compartment anchorage to masonry substrates.
  - 3. Division 06 Section "Rough Carpentry" for compartment anchorage to frame walls.

1.2 REFERENCES

- A. ASTM International (ASTM):
  - 1. ASTM A 240 - Standard Specification for Chromium and Chromium-Nickel Stainless Steel Plate, Sheet, and Strip for Pressure Vessels and for General Applications.
  - 2. ASTM A 666 - Standard Specification for Annealed or Cold-Worked Austenitic Stainless Steel Sheet, Strip, Plate, and Flat Bar.
  - 3. ASTM B 86 - Standard Specification for Zinc and Zinc-Aluminum (ZA) Alloy Foundry and Die Castings.
  - 4. ASTM B 221 - Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes.
  - 5. ASTM D6578 / D6578M - Standard Practice for Determination of Graffiti Resistance
- B. International Code Council (ICC)/American National Standards Institute (ANSI):
  - 1. ICC/ANSI A117.1 - Accessible and Usable Buildings and Facilities, as applicable to toilet compartments designated as accessible.
- C. United States Department of Justice:
  - 1. ADA - Americans with Disabilities Act, Excerpt from 28 CFR Part 36 - ADA Standards for Accessible Design.
- D. GREENGUARD Environmental Institute (GREENGUARD):
  - 1. GREENGUARD certified low emitting products.

1.3 ACTION SUBMITTALS

- A. Product Data: Manufacturer's data sheets for each type of product indicated. Include fabrication details, description of materials and finishes.
  - 1. Product Test Reports: When requested by Architect, submit documentation by qualified independent testing agency indicating compliance of products with requirements.
- B. Shop Drawings: Include overall product dimensions, floor plan, elevations, sections, details, and attachments to other work. Include choice of options with details.

- C. Samples for Selection: Furnish samples of manufacturer's full range of colors for initial selection.
- D. Samples for Verification: Furnish physical sample of material in selected color.
  - 1. Size: 4 by 11 inches (275 by 100 mm) minimum, in type of finish specified.
- E. LEED Submittals:
  - 1. Product Data for Credit MR 4: For products having recycled content, documentation indicating percentages by weight of postconsumer and preconsumer recycled content. Include breakout costs for each product with recycled content.
  - 2. Laboratory Test Reports for Credit IEQ 4: For adhesives, documentation indicating that products comply with the testing and product requirements of the California Department of Health Services' "Standard Practice for the Testing of Volatile Organic Emissions from Various Sources Using Small-Scale Environmental Chambers."

#### 1.4 INFORMATIONAL SUBMITTALS

- A. Warranty: Sample of special warranty.

#### 1.5 CLOSEOUT SUBMITTALS

- A. Maintenance and cleaning instructions.

#### 1.6 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Approved manufacturer listed in this section, with minimum five years' experience in the manufacture of toilet compartments.
- B. Manufacturer Qualifications: Approved manufacturer listed in this section, with minimum five years' experience in the manufacture of toilet compartments. Manufacturers seeking approval must submit the following in accordance with Instructions to Bidders and Division 01 requirements:
  - 1. Design and Aesthetic Compliance: Product design features that mimic BOD design aesthetic.
  - 2. Product data, including test data from qualified independent testing agency indicating compliance with requirements.
  - 3. Samples of each component of product specified.
  - 4. List of successful installations of similar products available for evaluation by Architect.
- C. Installers Qualifications: Experienced Installer regularly engaged in installation of toilet compartments for minimum three years.
- D. Source Limitations: Obtain toilet compartment, screens and accessories from single manufacturer.
- E. Accessibility Requirements: Comply with requirements of ICC/ANSI 117.1, and with requirements of authorities having jurisdiction.
- F. Indoor Environmental Quality Certification: Provide certificate indicated that products have been certified under the following programs, or a comparable certification acceptable to Owner:
  - 1. GREENGUARD Indoor Air Quality Certified.
  - 2. GREENGUARD Certified for Children and Schools.

## 1.7 DELIVERY, STORAGE, AND HANDLING

- A. Do not deliver toilet compartments to site until building is enclosed and HVAC systems are in operation.
  - 1. Deliver toilet compartments in manufacturer's original packaging.
  - 2. Store in an upright condition.

## 1.8 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 during the following period after substantial completion:
  - 1. Glass Toilet Partitions: 5 years.

# PART 2 - PRODUCTS

## 2.1 MANUFACTURERS

- A. Basis-of-Design Manufacturer: Subject to compliance with requirements, provide products of **Bradley Corporation, Menomonee Falls, WI 53051**.
  - 1. Contact Information: (800)272-3539, fax (262)251-5817; Email [info@BradleyCorp.com](mailto:info@BradleyCorp.com); Website: [www.bradleycorp.com](http://www.bradleycorp.com).

## 2.2 DESIGN

- A. Modern minimalist design with flush surface construction.
  - 1. Scratch-proof, tempered glass with ceramic screen printing fitted to stainless steel connecting brackets and fittings. Continuous stainless steel brackets connect the panel to the floor, ceiling and wall.
  - 2. Glass panels shall be 100% recyclable.
  - 3. Maximum System Height: 118.1 inches (3000 mm).

## 2.3 MATERIALS

- A. Panels, Doors and Pilasters:
  - 1. Constructed from scratch-proof, tempered glass with ceramic screen printing that is resistant to stains and corrosion. Corners shall be polished smooth for aesthetic and safety purposes.
  - 2. Surface Burning: Not tested or rated.
  - 3. Impact Resistant: Not tested or rated.
  - 4. Scratch Resistant: ASTM D6578.
- B. Stainless Steel Castings: ASTM A 743/A 743M.
- C. Aluminum: ASTM B 221.

## 2.4 GLASS TOILET COMPARTMENTS

- A. Toilet Compartment Type:
  - 1. Continuous floor, ceiling and wall anchored.
    - a. Basis of Design Product: Bradley Corporation, Euro Style, Series SKYLINE.

- B. Privacy Screen Type:
  - 1. Continuous floor, ceiling and wall anchored.
    - a. Basis of Design Product: Bradley Corporation, Euro Style, Series SKYLINE.
- C. Urinal Screen Style:
  - 1. Wall Hung/Floor Braced.
    - a. Basis of Design Product: Bradley Corporation, Euro Style, Series SKYLINE.

## 2.5 CONSTRUCTION

- A. Panels, Doors & Pilasters;
  - 1. Construction: (2) 13/64 inch (5 mm) tempered glass panels glued to an 1.57 inches (40mm) aluminum frame. Tempered glass resistant to stains and corrosion. All corners are polished smooth. Doors include an individual coat hook.
- B. Fittings: Continuous-brackets; stainless steel.
- C. Urinal-Screen Construction: Matching toilet compartment panel construction.
- D. Privacy Screen Type: Matching toilet compartment panel design and construction.

## 2.6 FINISH

- A. Provide panels, pilasters and doors with the following color(s):
  - 1. Agate Gray.
  - 2. Alabaster.
  - 3. Basalt Gray.
  - 4. Coastal Blue.
  - 5. Morning Fog.
  - 6. Obsidian.
  - 7. Oyster White.
  - 8. Seagrass.
  - 9. Tide Pool.
  - 10. Custom.

## 2.7 HARDWARE

- A. Hardware: Manufacturer's standard stainless steel castings, including corrosion-resistant, tamper-resistant fasteners:
  - 1. Hinge: Self-closing (hydraulic) hinges available featuring a soft-close function, ensuring a silent close.
  - 2. Standard Accessories: Provide Individual stainless steel coat hook and rubber bumper where door abuts wall.
  - 3. Door Latch: Stainless steel door handle. ADA compliant stainless steel door handle in an L-shape with ADA compliant locking mechanism on the inside. White/red indication latch and emergency release feature is integrated on the outside of the door handle. The emergency release uses a 5/32 inch (4 mm) Allen key that is inserted into the center of the door latch from the outside to unlock the door.

## 2.8 FABRICATION

- A. Door Size and Swings: Unless otherwise indicated, provide 26 inches (660 mm) wide, in-swinging doors for standard 35 inches (889 mm) toilet compartments. 36-inches (914 mm) wide compartments without-swinging doors with a minimum 32 inches (813-mm-) wide clear opening for compartments designated as accessible or ambulatory.

### **PART 3 - EXECUTION**

#### **3.1 EXAMINATION**

- A. Examine work area to verify that measurements, substrates, supports, and environmental conditions are in accordance with manufacturer's requirements to allow installation.
  - 1. Proceed with installation once conditions meet manufacturer's requirements.

#### **3.2 INSTALLATION**

- A. General: Comply with manufacturer's written installation instructions. Install unit rigid, straight, level, and plumb. Secure units in position with manufacturer's recommended anchoring devices.
- B. Install toilet partitions and screens in spaces with operating, temperature controlled HVAC systems. Shield partitions and screens from direct sunlight.

#### **3.3 ADJUSTING**

- A. Hardware Adjustment: Adjust and lubricate hardware according to hardware manufacturer's written instructions for proper operation. Set hinges on doors [and doors in privacy screens] to return doors to fully closed position.

#### **3.4 FINAL CLEANING**

- A. Remove packaging and construction debris and legally dispose of off-site.
- B. Clean partition and screen surfaces with materials and cleansers in accordance with manufacturer's recommendations.

END OF SECTION