

## Bradley Euro Style Phenolic Toilet Partitions

Bradley Euro Style Phenolic Partitions have a modern minimalist design style of partitions. Bradley's aluminum edge panel design locks moisture out of the panel cores, preventing delamination, and backed by a 5-year delamination material warranty. Bradley's Euro Style Phenolic Partitions are available in overhead braced configuration, along with urinal and entrance screens. Designers may choose from many popular colors.

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<sup>SM</sup> 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.

Bradley is the industry leader in the manufacture of premium quality commercial plumbing fixtures, valves, and washroom accessories that appear in the following CSI MasterFormat 2004<sup>TM</sup> Sections:

Section 10 21 13.13 – Steel Toilet Compartments  
Section 10 21 13.15 – Stainless Steel Toilet Compartments  
Section 10 21 13.16 – Plastic Laminate Toilet Compartments  
Section 10 21 13.17 – Phenolic-Core Toilet Compartments  
Section 10 21 13.19 – Plastic Toilet Compartments  
Section 10 21 13.40 – Stone and Stainless Steel Toilet Compartments  
Section 10 28 13.13 – Commercial Toilet Accessories  
Section 10 28 13.15 – Warm Air Dryers (Aerix<sup>®</sup> Hand and Hair Dryers)  
Section 10 28 13.63 – Detention Toilet 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 (Single and multi-station lavatory systems)  
Section 22 42 16.02 – Commercial Lavatories and Faucets (Bradley Advocate<sup>TM</sup> Lavatory System)  
Section 22 42 16.03 – Commercial Lavatories and Faucets (Bradley Verge<sup>TM</sup> Lavatory System)  
Section 22 42 16.04 – Commercial Lavatory Decks and Faucets (Bradley Omni Decks)  
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](http://www.bradleycorp.com).

Bradley Corporation is an AIA/CES registered provider currently offering six programs earning one (1) HS&W Learning Unit each; several qualify for sustainable design (SD) credit.

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**SECTION 10 21 13.17**  
**PHENOLIC CORE TOILET COMPARTMENTS**

**PART 1 - GENERAL**

1.1 SUMMARY

A. Section Includes:

1. Phenolic core compartment partitions for the following applications:

Specifier: Delete applications not required.

- a. Toilet enclosures.
- b. Privacy screens.
- c. Urinal screens.

Specifier: Related Requirements paragraph and subparagraphs are included here for reference, but are frequently deleted from project specifications. If retaining, edit subparagraphs as required to coordinate with construction documents and components specified.

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.

Specifier: References Article is included here for information, but is frequently deleted from project specifications. If retaining, edit subparagraphs as required to coordinate with construction documents and components specified.

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 D2794 - Standard Test Method for Resistance of Organic Coatings to the Effects of Rapid Deformation (Impact)
6. ASTM D6578 / D6578M - Standard Practice for Determination of Graffiti Resistance
7. ASTM E 84 - Standard Test Method for Surface Burning Characteristics of Building Materials.

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.

Specifier: GREENGUARD Environment Institute is an ANSI Authorized Standards Developer that oversees the GREENGUARD certification program. GEI establishes acceptable indoor air standards for indoor products, environments, and buildings. GREENGUARD Certification pending as of 03/01/2021. Verify status with manufacturer.

- 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.

Specifier: Delete Samples for Selection paragraph if Architect has already made product and color selections.

- 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: 2 by 2 inches (52 by 52 mm) minimum, in type of finish specified.
- E. LEED Submittals:

Specifier: Retain below if selecting products with recycled content, applicable to LEED-NC, LEED-CS, LEED-CI, and LEED for Schools.

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.

Specifier: Retain below if selecting products required to meet California DHS requirements, applicable to LEED for Schools.

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.

Specifier: Retain paragraph above or below based on project requirements. Retain paragraph below when owner requires substitution requests from alternate equal manufacturers.

- 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 components and accessories from single manufacturer.

Specifier: Bradley offers handicapped-accessible toilet compartments conforming to requirements of ICC/ANSI A117.1. Show accessible unit locations and details on Drawings.

- E. Accessibility Requirements: Comply with requirements of ICC/ANSI 117.1, and with requirements of authorities having jurisdiction.
- F. Surface-Burning Characteristics: As determined by testing identical products according to ASTM E 84 by qualified testing agency. Identify products with appropriate markings of applicable testing agency.
  - 1. Class B - Flame-spread, smoke developed.
  - 2. Flame-Spread Index: 26-75.
  - 3. Smoke-Developed Index: 0-450.

Specifier: Bradley's Phenolic LT Toilet Compartments exceed LEED for Schools IEQ requirements as certified by GREENGUARD. GREENGUARD Certification pending as of 03/01/2021. Verify status with manufacturer.

- G. 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. Phenolic LT Toilet Partitions: Against delamination: 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 and continuous headrail "cap" at top of door, panel and pilaster.
  - 1. Standard height of 81.9 inches (2080 mm) including the 3.9 inches (99 mm) floor clearance.
  - 2. Panels shall be Phenolic face sheets laminated to a cardboard hexagonal honeycomb core, and edge banded with extruded aluminum profiles.

Specifier: LED occupancy indicators are an option for the LOFT series. LED occupancy indicator will not work with ambulatory stalls due to the required stall width (36 inches (914.4 mm)) and required door clearance (32 inches (812.8 mm)); it leaves no room in the pilaster to install the LED. Delete if not required.

- B. LED Occupancy Indicator:
  - 1. LED indicators shall be installed in the pilasters and illuminate green when the stall is not in use and illuminate red when the stall is in use. The LED is activated by the latch in the locking mechanism of the door. The LED indicator has electrical conductors hidden in the panel. Requires a 12VDC transformer hardwired into service junction box. Electrical fixture and fittings are UL certified. Transformer not provided.

2.3 MATERIALS

Specifier: Exclusive new Phenolic LT material:

- A. Panel Face Sheets: 3 mm decorative Phenolic sheets.
  - 1. Phenolic materials shall be impact and scratch resistant. Anti-bacterial coating and non-porous surface to reduce spread of germs.
  - 2. Surface Burning:
  - 3. Impact Resistant: ASTM D2794.

4. Scratch Resistant: ASTM D6578.

B. Panel Core: face sheets laminated to a treated cardboard hexagonal honeycomb core, and edge banded with extruded aluminum profiles.

C. Stainless Steel Sheet: ASTM A 240 or A 666, 300 series.

D. Stainless Steel Castings: ASTM A 743/A 743M.

E. Aluminum: ASTM B 221.

#### 2.4 PHENOLIC CORE TOILET COMPARTMENTS

A. Toilet Compartment Type:

1. Overhead braced.

a. Basis of Design Product: **Bradley Corporation, Euro Style, Series LOFT.**

Specifier: Basis of Design Product: Bradley Corporation, Euro Style, Series LOFT. Delete privacy and urinal screens if not required.

B. Privacy Screen Type:

1. Floor anchored.

a. Basis of Design Product: **Bradley Corporation, Euro Style, Series LOFT.**

C. Urinal Screen Style:

1. Wall hung/ floor supported:

a. Basis of Design Product: **Bradley Corporation, Euro Style, Series LOFT.**

#### 2.5 CONSTRUCTION

A. Door, Panel, and Pilaster Construction, General:

1. Provide Phenolic face sheets free of pitting, visible seams and fabrication marks, stains, telegraphing of core material, or other imperfections. Aluminum edge banding.

B. Door Construction: 1.4 inches (36 mm) thick.

1. Rebated aluminum profile at lock side of door and pilaster with aluminum edge banding.

C. Panel Construction: 1.4 inches (36 mm) thick.

1. Provide panel with floor feet with mechanical adjustment for leveling.

D. Pilaster Construction: 1.4 inches (36 mm) thick.

1. Provide pilaster with two floor feet with mechanical adjustment for leveling.

Specifier: Manufacturer's standard is 3.9 inches (99 mm) AFF. Optional 9 inches (229 mm) AFF. Delete requirement not required.

2. Adjustable floor feet shall maintain panels 3.9 inches (99 mm) above finished floor. 9 inches (229 mm) for accessible stalls.

3. Adjustable floor feet shall maintain panels 9 inches (229 mm) above finished floor.

E. Headrail: 1.2 inches (30 mm) x 1.2 inches (30 mm) extruded anodized aluminum channel headrail profile. Continuous flush across top of the pilaster, panel and door. Provide stainless steel brackets to secure to wall.

- F. Feet: Constructed of stainless steel.
- G. Brackets (Fittings): Continuous Aluminum "U" brackets at wall and panel to panel connection.

Specifier: Delete if not required.

- H. Urinal-Screen Construction: Matching toilet compartment panel construction.
  - 1. Urinal-Screen Feet: Manufacturer's standard floor feet design with panel matching the pilaster and secured to wall with continuous bracket.

Specifier: Delete if not required.

- I. Privacy Screen Type: Matching toilet compartment panel design and construction.
  - 1. Privacy-Screen Feet: Manufacturer's standard floor feet design with panel matching the pilaster and secured to wall with continuous bracket. Provide headrail where required for lateral support.

## 2.6 FINISH

- A. Provide panels, pilasters and doors with the following color(s)

Specifier: Delete colors not required. If more than one color is required, schedule application on the drawings with application inserted in the color sub-paragraph below.

- 1. Aluminum.
- 2. Birch.
- 3. Dark Walnut.
- 4. Graphite.
- 5. Light Gray.
- 6. Peppered White.
- 7. White.
- 8. Custom.

## 2.7 HARDWARE

- A. Hardware: Manufacturer's standard stainless steel castings, including corrosion-resistant, tamper-resistant fasteners:
  - 1. Hinges: Self-closing doors with two aluminum gravity hinges for a maximum door opening of 110 degree slow-close hinge with finger protection (in-swing doors only). The 110 degree self-closing hinge is hidden in the structure of the door. Out-swing doors are equipped with 180 degree gravity slow-close exposed barrel hinge (not finger protection).
  - 2. Coat Hook: Combination hook and rubber-tipped stop, sized to prevent door from hitting compartment-mounted accessories. Provide wall bumper where door abuts wall.
  - 3. Door Latch: Stainless steel door knob. Inside door knob has an easy-to-manuever paddle built into the locking wheel. White/red indication latch and emergency release feature is integrated on the outside of the door knob. The emergency release uses a 5/32 inch (4 mm) Allen key that is inserted into the center of the door knob from the outside to unlock the door.
  - 4. Door Pull: Stainless steel, thru-bolt (each side) on ambulatory and accessible compartment doors and where scheduled or indicated.

## 2.8 FABRICATION

- A. Overhead-Braced Units: Provide manufacturer's standard corrosion-resistant supports, leveling mechanism, and anchors at pilasters to suit floor conditions.

Specifier: Delete if not required.

- B. Urinal-Screen Posts: Provide manufacturer's standard corrosion-resistant feet anchoring assemblies with leveling adjustment at bottoms of panel.

Specifier: Retain paragraph below and revise to suit Project if door sizes and swings are not shown on Drawings; verify requirements of authorities having jurisdiction.

- C. 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 with out-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 units 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.
- C. Brackets: Secure panels to walls with continuous brackets. Locate bracket so holes for wall anchors occur in masonry or tile joints. Align brackets at pilasters with brackets at walls.

#### **3.3 ADJUSTING**

Specifier: Revise hinge adjustment requirements in this article to suit Project. Verify accessibility requirements of authorities having jurisdiction.

- A. Hardware Adjustment: Adjust and lubricate hardware according to hardware manufacturer's written instructions for proper operation. Set hinges on in-swinging doors to hold doors open approximately 15 degrees from closed position when unlatched. Set hinges on out-swinging 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