



## SECTION 10155

### TOILET COMPARTMENTS

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#### PART 1 GENERAL

##### 1.1 SECTION INCLUDES

- A. Solid Color Reinforced Composite (SCRC) Substrate: (Bobrick SierraSeries)
  - 1. Toilet partitions.
  - 2. Urinal privacy screens.
  - 3. Dressing compartments.
  - 4. Shower dividers.
  
- B. Compact Laminate (Solid Phenolic), Moisture Resistant Substrate: (Bobrick DuraLineSeries)
  - 1. Toilet partitions.
  - 2. Urinal privacy screens.
  - 3. Dressing compartments.
  - 4. Shower dividers.
  
- C. Laminated Plastic Substrate (Bobrick DesignerSeries or Bobrick TrimLineSeries)
  - 1. Toilet partitions.
  - 2. Urinal privacy screens.
  - 3. Dressing compartments.
  
- D. Laminated Plastic Substrate (Bobrick MetroSeries or Bobrick AccentSeries)
  - 1. Toilet partitions.
  - 2. Urinal privacy screens.
  - 3. Dressing compartments.

##### 1.2 RELATED SECTIONS

- A. Section 05500 - Metal Fabrications, coordination with overhead supports; steel beams above finished ceiling to secure ceiling hung and floor-to-ceiling stiles.
- B. Section 06100 - Rough Carpentry, coordination with blocking in walls to secure panels, wall posts and stiles.
- C. Section 09200 - Plaster and Gypsum Board, coordination with blocking.
- D. Section 09310 - Tiling, coordination with layout and installation.
- E. Section 09510 - Ceilings, coordination with layout and installation.

- F. Section 10810 - Washroom Accessories, for accessories.
- G. Section 10810 - Baby Changing Stations, for baby changing stations.

### 1.3 SUBMITTALS

- A. Submit under provisions of Section 01300.
- B. Product Data: Manufacturer's data sheets on each product to be used, including:
  - 1. Preparation instructions and recommendations.
  - 2. Storage and handling requirements and recommendations.
  - 3. Installation methods.
- C. USGBC LEED Submittals:
  - 1. For Bobrick ClassicSeries, DesignerSeries and DuraLineSeries: Materials and Resource Credits MR4.1 and MR4.2 - Recycled Content; submit manufacturer's calculation of value of recycled content for specified products, calculated in accordance with USGBC LEED certification requirements.
  - 2. For Bobrick ClassicSeries, DesignerSeries and TrimLineSeries: Materials and Resource Credit MR6 - Rapidly Renewable Materials; submit manufacturer's certification that products contain raw materials that are derived from plants that are harvested within a 10 year cycle or shorter.
  - 3. For Bobrick SierraSeries: Indoor Environmental Quality Credit IEQ 4 - No Added Urea Formaldehyde; submit manufacturer's certification that composite and agrifiber products contain no added urea-formaldehyde resins and that laminating used to fabricate on-site and shop-applied composite wood and agrifiber contain no added urea-formaldehyde resins.
  - 4. For Bobrick SierraSeries: Indoor Environmental Quality Credit IEQ 4 for Schools; submit manufacturer's certification 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."
- D. USA Certificate of Origin: Manufacturer shall supply with first submittal, an example of their Certificate of Origin declaring toilet compartments are wholly manufactured and assembled specifically in the United States, including city and state locations. A notarized Certificate of Origin shall be provided with closeout documents.
- E. Shop Drawings: Submit manufacturer's shop drawings for each product specified, including the following:
  - 1. Plans, elevations, details of construction and attachment to adjacent construction.
  - 2. Show anchorage locations and accessory items.
  - 3. Verify dimensions with field measurements prior to final production of toilet compartments.
- F. Selection Samples: For each finish product specified, two complete sets of color chips representing manufacturer's full range of available colors and patterns.
- G. Verification Samples: For each finish product specified, two samples, minimum size 6 inches (150 mm) square representing actual product, color, and patterns.

### 1.4 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Minimum 10 year experience manufacturing similar products.

- B. Installer Qualifications: Minimum 2 year experience installing similar products.
- C. Single Source Requirements: To the greatest extent possible provide products from a single manufacturer.
- D. Accessibility Requirements: Comply with requirements applicable in the jurisdiction of the project, including but not limited to ADA and ICC/ANSI A117.1 requirements as applicable.
- E. Mock-Up: Provide a mock-up for evaluation of surface preparation techniques and application workmanship.
  - 1. Finish areas designated by Architect.
  - 2. Do not proceed with remaining work until workmanship is approved by Architect.
  - 3. Refinish mock-up area as required to produce acceptable work.

#### 1.5 PRE-INSTALLATION MEETINGS

- A. Convene minimum two weeks prior to starting work of this section.

#### 1.6 DELIVERY, STORAGE, AND HANDLING

- A. Deliver and store products in manufacturer's unopened packaging bearing the brand name and manufacturer's identification until ready for installation.
- B. Handling: Handle materials to avoid damage.

#### 1.7 PROJECT CONDITIONS

- A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's recommended limits.

#### 1.8 SEQUENCING

- A. Ensure that products of this section are supplied to affected trades in time to prevent interruption of construction progress.

#### 1.9 WARRANTY

- A. Manufacturer's Warranty (SierraSeries): Manufacturer's standard 25 year limited warranty for panels, doors, and stiles against breakage, corrosion, delamination, and defects in factory workmanship. Manufacturer's standard 1 year guarantee against defects in material and workmanship for stainless steel door hardware and mounting brackets.
- B. Manufacturer's Warranty (DuraLineSeries): Manufacturer's standard 25 year limited warranty for panels, doors, and stiles against breakage, corrosion, delamination, and defects in factory workmanship. Manufacturer's standard 1 year guarantee against defects in material and workmanship for stainless steel door hardware and mounting brackets.
- C. Manufacturer's Warranty (DesignerSeries): Manufacturer's standard 2 year warranty for materials and workmanship.
- D. Manufacturer's Warranty (TrimLineSeries): Manufacturer's standard 5 year warranty for materials and workmanship.

- E. Manufacturer's Warranty (MetroSeries): Manufacturer's standard 2 year warranty for materials and workmanship.
- F. Manufacturer's Warranty (AccentSeries): Manufacturer's standard 5 year warranty for materials and workmanship.

## PART 2 PRODUCTS

### 2.1 MANUFACTURERS

- A. Acceptable Manufacturer: Bobrick Washroom Equipment, Inc., which is located at: 6901 Tujunga Avenue.; North Hollywood, CA 91605-6213 Tel: 818-764-1000; Fax: 818-503-1930; Email: [request info \(info@bobrick.com\)](mailto:request_info(info@bobrick.com)); Web: [www.bobrick.com](http://www.bobrick.com)
- B. Basis of Design Products: Based on the quality and performance requirements of the project, specifications are based solely on the products of Bobrick Washroom Equipment, Inc. [www.bobrick.com](http://www.bobrick.com). Location of manufacturing shall be the United States.
- C. Substitutions: The Architect will consider products of comparable manufacturers as a substitution, pending the Contractor's submission of adequate documentation of the substitution in accordance with procedures in Division 1 of the Project Manual. Documentation shall include a list of five similar projects of equivalent size where products have been installed for a minimum of two years, and manufacturer's certification that products are fabricated in the United States.
- D. Requests for substitutions will be considered in accordance with provisions of Section 01600.

### 2.2 SOLID COLOR REINFORCED COMPOSITE (SCRC) SUBSTRATE (SierraSeries)

- A. Solid Color Reinforced Composite (SCRC) Toilet Partitions: Bobrick SierraSeries.
  - 1. Design Type:
    - a. Standard Height.
      - 1) Door/Panel Height: 58 inches (147 cm).
      - 2) Floor Clearance: 12 inches (30 cm).
    - b. Maximum Height.
      - 1) Door/Panel Height: 72 inches (183 cm).
      - 2) Floor Clearance: 4 inches (10 cm).
  - 2. Gap-Free interlocking design.
  - 3. Mounting:
    - a. Floor-mounted.
      - 1) Stile Standard Height: 70 inches (178 cm).
      - 2) Stile Maximum Height: 76-5/16 inches (198 cm).
    - b. Floor-mounted, overhead-braced with satin finish, extruded anodized aluminum headrails, 0.065 inch (1.65 mm) thick with anti-grip profile.
      - 1) Stile Standard Height: 70 inches (178 cm).
      - 2) Stile Maximum Height: 83 inches (211 cm).
    - c. Floor-to-ceiling.
      - 1) Stile Standard Height: As required 10'-0" (305 cm) maximum.
      - 2) Stile Maximum Height: As required 10'-0" (305 cm) maximum.
    - d. Ceiling-hung.
      - 1) Stile Standard Height: 8'-0" or as required 10'-0" (305 cm) maximum.
      - 2) Stile Maximum Height: 8'-0" or as required 10'-0" (305 cm) maximum.

- B. Solid Color Reinforced Composite (SCRC) Urinal Screens: Bobrick SierraSeries.
1. Mounting Configuration:
    - a. Floor-to-ceiling.
      - 1) Screen Height: 58 inches (178 cm) with floor clearance: 12 inches (30 cm)
      - 2) Stile Height: As required up to 10'-0" (305 cm) maximum
    - b. Floor-to-ceiling maximum privacy.
      - 1) Screen Height: 72 inches (183 cm) with floor clearance: 4-5/16 inches (11 cm)
      - 2) Stile Height: As required up to 10'-0" (305 cm) maximum
    - c. Post-to-ceiling.
      - 1) Screen Height: 58 inches (178 cm)
      - 2) Floor Clearance: 12 inches (30 cm)
      - 3) Post Height: Up to 10'-0" (305 cm) maximum
    - d. Post-to-ceiling maximum privacy.
      - 1) Screen Height: 72 inches (183 cm)
      - 2) Floor Clearance: 4-5/16 inches (11 cm)
      - 3) Post Height: Up to 10'-0" (305 cm) maximum
    - e. Wall-hung.
      - 1) Screen Height: 42 inches (107 cm) with 18 inches (46 cm) floor clearance.
      - 2) Screen Height: 48 inches (122 cm) with 12 inches (30 cm) floor clearance.
- C. Solid Color Reinforced Composite (SCRC) Dressing Compartments AND/OR Shower Dividers: Bobrick SierraSeries.
1. Design Type:
    - a. Standard Height.
      - 1) Door/Panel Height: 58 inches (178 cm).
      - 2) Floor Clearance: 12 inches (30 cm).
    - b. Maximum Height.
      - 1) Door/Panel Height: 72 inches (183 cm).
      - 2) Floor Clearance: 4 inches (10 cm).
  2. Gap-Free interlocking design.
  3. Mounting Configuration:
    - a. Floor-mounted, overhead-braced with satin finish, extruded anodized aluminum headrails, 0.065 inch (1.65 mm) thick with anti-grip profile and integral curtain tracks and hooks for compartments without doors.
      - 1) Bobrick vinyl curtains.
      - 2) Stile Standard Height: 70 inches (178 cm)
      - 3) Stile Maximum Height: 83 inches (211 cm)
- D. Materials: Solid color reinforced composite (SCRC) material for stiles, panels, doors, and screens with Bobrick GraffitiOff coating, thermoset and integrally fused into homogenous piece; high density polyethylene (HDPE), high density polypropylene not acceptable.
1. Composition: Dyes, organic fibrous material, and polycarbonate/phenolic resins.
  2. Surface Treatment: Non-ghosting, graffiti resistant surface integrally bonded to core through a manufacturing steps requiring thermal and mechanical pressure.
  3. Edges: Same color as the surface.
  4. Color:
    - a. As selected by Architect from manufacturer's standard SierraSeries range.
    - b. As indicated on Drawings.

- c. SC01 Golden Khaki.
  - d. SC02 Desert Beige.
  - e. SC03 Terra Cotta.
  - f. SC04 Forest Green.
5. Acceptable SCRC Products: Or manufacturer approved equal.
- a. Ultimate Corian System by Shower Shapes.
  - b. WilsonArt Gibraltar Material.
  - c. WilsonArt EarthStone Material.
- E. Performance Requirements:
- 1. Graffiti Resistance (ASTM D 6578): Passed cleanability test; 5 staining agents.
  - 2. Scratch Resistance (ASTM D 2197): Maximum load value exceeds 10 kilograms.
  - 3. Impact Resistance (ASTM D 2794): Maximum impact force exceeds 30 inch-pounds.
  - 4. Smoke Developed Index (ASTM E 84): Less than 450.
  - 5. Flame Spread Index (ASTM E 84): Less than 75.
  - 6. National Fire Protection Association/International Building Code Interior Wall and Ceiling Finish: Class B.
  - 7. Uniform Building Code: Class II.
- F. Finished Thickness:
- 1. Stiles and Doors: 3/4 inch (19 mm).
  - 2. Panels and Screens: 1/2 inch (13 mm).
- G. Stiles: Floor-anchored stiles furnished with expansion shields and threaded rods.
- 1. Leveling Devices: 7 gauge, 3/16 inches (5 mm) thick, corrosion-resistant, chromate-treated, double zinc-plated steel angle leveling bar bolted to stile; furnished with 3/8 inch (10 mm) diameter threaded rods, hex nuts, lock washers, flat washers, spacer sleeves, expansion anchors, and shoe retainers.
  - 2. Stile Shoes: One-piece, 22 gauge (0.8 mm), 18-8, Type 304 stainless steel, 4 inch (102 mm) height; tops with 90 degree return to stile. One-piece shoe capable of adapting to 3/4 inch (19 mm) or 1 inch (25 mm) stile thickness and capable of being fastened (by clip) to stiles starting at wall line.
- H. Wall Posts: Pre-drilled for door hardware, 18-8, Type 304, 16 gauge (1.6 mm) stainless steel with satin finish; 1 inch (25 mm) x 1-1/2 inches (38 mm) x 58 inches high (1473 mm).
- I. Anchors: Expansion shields and threaded rods at floor connections as applicable. Threaded rods secured to supports above ceiling as applicable. Supports above ceiling furnished and installed as Work of Section 055000.
- J. Hardware: Chrome-plated "Zamak", aluminum, extruded plastic hardware not acceptable.
- 1. Compliance: Operating force of less than 5 lb (2.25 kg).
  - 2. Emergency Access: Hinges, latch allow door to be lifted over keeper from outside compartment on inswing doors.
  - 3. Materials: 18-8, Type 304, heavy-gauge stainless steel with satin finish.
  - 4. Doorstops: Prevents inswinging doors from swinging out beyond stile; on outswing doors, doorstop prevents door from swinging in beyond stile.
  - 5. Fastening: Hardware secured to door and stile by through-bolted, theft-resistant, pin-in-head Torx stainless steel machine screws into factory-installed, threaded brass inserts. Fasteners secured directly into core not acceptable.

- a. Threaded Brass Inserts: Factory-installed; withstand direct pull force exceeding 1500 lb (680 kg) per insert.
- 6. Clothes Hooks: Projecting no more than 1-1/8 inch (29 mm) from face of door.
- 7. Door Hardware Type:
  - a. Standard, commercial hardware.
    - 1) Latching: Track of door latch prevents inswing doors from swinging out beyond stile; on outswing doors, door keeper prevents door from swinging in beyond stile; 14 gauge (1.8 mm) sliding door latch, 11 gauge (2 mm) keeper.
    - 2) Hinges: Balanced, with field-adjustable cam to permit door to be fully closed or partially open when compartment is unoccupied.
    - 3) Locking: Door locked from inside by sliding door latch into keeper.
  - b. Institutional Hardware
    - 1) Latching: 14 gauge (1.8 mm) sliding door latch, 11 gauge (2 mm) keeper; latch slides on a shock-resistant nylon track.
    - 2) Hinges: 16 gauge (1.6 mm) stainless steel, self-closing, 3 section hinges.
- 8. Fittings:
  - a. Standard, commercial hardware.
    - 1) Mounting Brackets: Mounted inside compartment; exposed brackets on exterior of compartment not acceptable with the exception of outswing doors.
  - b. Institutional Hardware
    - 1) Mounting Brackets: 18 gauge (1.2 mm) stainless steel and extend full height of panel.
    - 2) U-Channels: Secure panels to stiles.
    - 3) Angle Brackets: Secure stiles-to-walls and panels to walls.

### 2.3 COMPACT LAMINATE (SOLID PHENOLIC), MOISTURE RESISTANT SUBSTRATE (DuraLineSeries)

- A. Compact Laminate (Solid Phenolic) Toilet Partitions: Bobrick DuraLineSeries.
  - 1. Design Type::
    - a. Standard Height.
      - 1) Door/Panel Height: 58 inches (147 cm).
      - 2) Floor Clearance: 12 inches (30 cm).
    - b. Maximum Height.
      - 1) Door/Panel Height: 72 inches (183 cm).
      - 2) Floor Clearance: 4 inches (10 cm).
  - 2. Gap-Free interlocking design.
    - a. Floor-mounted.
      - 1) Stile Standard Height: 70 inches(178 cm).
      - 2) Stile Maximum Height: 76-5/16 inches (198 cm).
    - b. Floor-mounted, overhead-braced with satin finish, extruded anodized aluminum headrails, 0.065 inch (1.65 mm) thick with anti-grip profile.
      - 1) Stile Standard Height: 70 inches (178 cm).
      - 2) Stile Maximum Height: 83 inches (211 cm).
    - c. Floor-to-ceiling.
      - 1) Stile Standard Height: As required 10'-0" (305 cm) maximum.
      - 2) Stile Maximum Height: As required 10'-0" (305 cm) maximum.
    - d. Ceiling-hung.
      - 1) Stile Standard Height: 8'-0" or as required 10'-0" (305 cm) maximum.
      - 2) Stile Maximum Height: 8'-0" or as required 10'-0" (305 cm) maximum.

- B. Compact Laminate (Solid Phenolic) Urinal Screens: Bobrick DuraLineSeries.
  - 1. Mounting Configuration:
    - a. Floor-to-ceiling.
      - 1) Screen Height: 58 inches (178 cm) with floor clearance: 12 inches (30 cm)
      - 2) Stile Height: As required up to 10'-0" (305 cm) maximum
    - b. Floor-to-ceiling maximum privacy.
      - 1) Screen Height: 72 inches (183 cm) with floor clearance: 4-5/16 inches (11 cm)
      - 2) Stile Height: As required up to 10'-0" (305 cm) maximum
    - c. Post-to-ceiling.
      - 1) Screen Height: 58 inches (178 cm)
      - 2) Floor Clearance: 12 inches (30 cm)
      - 3) Post Height: Up to 10'-0" (305 cm) maximum
    - d. Post-to-ceiling maximum privacy.
      - 1) Screen Height: 72 inches (183 cm)
      - 2) Floor Clearance: 4-5/16 inches (11 cm)
      - 3) Post Height: Up to 10'-0" (305 cm) maximum
    - e. Wall-hung.
      - 1) Screen Height: 42 inches (107 cm) with 18 inches (46 cm) floor clearance.
      - 2) Screen Height: 48 inches (122 cm) with 12 inches (30 cm) floor clearance.
  
- C. Compact Laminate (Solid Phenolic) Dressing Compartments AND/OR Shower Dividers: Bobrick DuraLineSeries.
  - 1. Design Type:
    - a. Standard Height.
      - 1) Door/Panel Height: 58 inches (178 cm).
      - 2) Floor Clearance: 12 inches (30 cm).
    - b. Maximum Height.
      - 1) Door/Panel Height: 72 inches (183 cm).
      - 2) Floor Clearance: 4-5/16 inches (11 cm).
  - 2. Gap-Free interlocking design.
  - 3. Mounting Configuration:
    - a. Floor-mounted, overhead-braced with satin finish, extruded anodized aluminum headrails, 0.065 inch (1.65 mm) thick with anti-grip profile and integral curtain tracks and hooks for compartments without doors.
      - 1) Bobrick vinyl curtains.
      - 2) Stile Standard Height: 70 inches (178 cm)
      - 3) Stile Maximum Height: 83 inches (211 cm)
  
- D. Materials: Solidly fused plastic laminate with matte-finish melamine surfaces; integrally bonded colored face sheets and black phenolic-resin core.
  
- E. Edges: Black; brown edges not acceptable.
  
- F. Color:
  - 1. As selected by Architect from manufacturer's standard DuraLineSeries range.
  - 2. As indicated on Drawings.
  - 3. Color: 515-58 Graphite Grafix.
  - 4. Color: 851-58 Spectrum Blue.
  - 5. Color: 909-58 Black.
  - 6. Color: 949-58 White.
  - 7. Color: 3518-58 Flint Crystall.
  - 8. Color: 4674-60 Evening Tigris.



9. Color: 4872-60 Western Storm.
  10. Color: 4878-60 Pewter Mesh.
  11. Color: 7022-58 Natural Canvas.
  12. Color: P-500-CA BlackStar.
  13. Color: P-886-CA Grey Grit.
  14. Color: P-887-CA Beige Grit.
  15. Color: S-431-CA Willow Grey.
  16. Color: S-436-CA Sand.
  17. Color: S-445-CA Almond.
  18. Color: S-463-CA Antique White.
  19. Color: S-513-CA Denim Blue.
  20. Color: S-542-CA Limousine Grey.
- G. Fire Resistance:
1. National Fire Protection Association/International Building Code Interior Wall and Ceiling Finish: Class B / Uniform Building Code: Class II.
    - a. Flame Spread Index (ASTM E 84): 30 for panels and stiles.
    - b. Smoke Developed Index (ASTM E 84): 55 for panels, 20 for stiles.
  2. National Fire Protection Association/International Building Code Interior Wall and Ceiling Finish: Class A / Uniform Building Code: Class I.
    - a. Flame Spread Index (ASTM E 84): 15 for panels and stiles.
    - b. Smoke Developed Index (ASTM E 84): 25 for panels, 20 for stiles.
- H. Finished Thickness:
1. Stiles and Doors: 3/4 inch (19 mm).
  2. Panels and Screens: 1/2 inch (13 mm).
- I. Stiles: Floor-anchored stiles furnished with expansion shields and threaded rods.
1. Leveling Devices: 7 gauge, 3/16 inches (5 mm) thick, corrosion-resistant, chromate-treated, double zinc-plated steel angle leveling bar bolted to stile; furnished with 3/8 inch (10 mm) diameter threaded rods, hex nuts, lock washers, flat washers, spacer sleeves, expansion anchors, and shoe retainers.
  2. Stile Shoes: One-piece, 22 gauge (0.8 mm), 18-8, Type 304 stainless steel, 4 inch (102 mm) height; tops with 90 degree return to stile. One-piece shoe capable of adapting to 3/4 inch (19 mm) or 1 inch (25 mm) stile thickness and capable of being fastened (by clip) to stiles starting at wall line.
- J. Wall Posts: Pre-drilled for door hardware, 18-8, Type 304, 16 gauge (1.6 mm) stainless steel with satin finish; 1 inch (25 mm) x 1-1/2 inches (38 mm) x 58 inches high (1473 mm).
- K. Anchors: Expansion shields and threaded rods at floor connections as applicable. Threaded rods secured to supports above ceiling as applicable. Supports above ceiling furnished and installed as Work of Section 055000.
- L. Hardware:
1. Compliance: Operating force of less than 5 lb (2.25 kg).
  2. Emergency Access: Hinges, latch allow door to be lifted over keeper from outside compartment on inswing doors.
  3. Materials: 18-8, Type 304, heavy-gauge stainless steel with satin finish.
  4. Doorstops: Prevents inswinging doors from swinging out beyond stile; on outswing doors, doorstop prevents door from swinging in beyond stile.
  5. Fastening: Hardware secured to door and stile by through-bolted, theft-resistant, pin-in-head Torx stainless steel machine screws into factory-installed, threaded brass inserts. Fasteners secured directly into core not acceptable.

- a. Threaded Brass Inserts: Factory-installed; withstand direct pull force exceeding 1500 lb (680 kg) per insert.
- 6. Clothes Hooks: Projecting no more than 1-1/8 inch (29 mm) from face of door.
- 7. Door Hardware Type:
  - a. Standard, commercial hardware.
    - 1) Latching: Track of door latch prevents inswing doors from swinging out beyond stile; on outswing doors, door keeper prevents door from swinging in beyond stile; 14 gauge (1.8 mm) sliding door latch, 11 gauge (2 mm) keeper.
    - 2) Hinges: Balanced, with field-adjustable cam to permit door to be fully closed or partially open when compartment is unoccupied.
    - 3) Locking: Door locked from inside by sliding door latch into keeper.
  - b. Institutional Hardware
    - 1) Latching: 14 gauge (1.8 mm) sliding door latch, 11 gauge (2 mm) keeper; latch slides on a shock-resistant nylon track.
    - 2) Hinges: 16 gauge (1.6 mm) stainless steel, self-closing, 3 section hinges.
- 8. Fittings:
  - a. Standard, commercial hardware.
    - 1) Mounting Brackets: Mounted inside compartment; exposed brackets on exterior of compartment not acceptable with the exception of outswing doors.
  - b. Institutional Hardware
    - 1) Mounting Brackets: 18 gauge (1.2 mm) stainless steel and extend full height of panel.
    - 2) U-Channels: Secure panels to stiles.
    - 3) Angle Brackets: Secure stiles-to-walls and panels to walls.

#### 2.4 LAMINATED PLASTIC SUBSTRATE (Bobrick DesignerSeries or TrimLineSeries)

- A. Plastic Laminate Toilet Partitions:
  - 1. Design Type:
    - a. Standard Height.
      - 1) Door/Panel Height: 58 inches (147 cm).
      - 2) Floor Clearance: 12 inches (30 cm).
    - b. Maximum Height.
      - 1) Door/Panel Height: 72 inches (183 cm).
      - 2) Floor Clearance: 4 inches (10 cm).
  - 2. Mounting Configuration:
    - a. Floor-mounted.
      - 1) Stile Standard Height: 70 inches (178 cm).
      - 2) Stile Maximum Height: 76-5/16 inches (198 cm).
    - b. Floor-mounted, overhead-braced with satin finish, extruded anodized aluminum headrails, 0.065 inch (1.65 mm) thick with anti-grip profile.
      - 1) Stile Standard Height: 70 inches (178 cm).
      - 2) Stile Maximum Height: 83 inches (211 cm).
    - c. Ceiling-hung.
      - 1) Stile Standard Height: 8'-0" or as required 10'-0" (305 cm) maximum.
      - 2) Stile Maximum Height: 8'-0" or as required 10'-0" (305 cm) maximum.
- B. Plastic Laminate Urinal Screens:
  - 1. Mounting Configuration:
    - a. Floor-to-ceiling.

- 1) Screen Height: 58 inches (178 cm) with floor clearance: 12 inches (30 cm).
- 2) Stile Height: As required up to 10'-0" (305 cm) maximum.
- b. Floor-to-ceiling maximum privacy.
  - 1) Screen Height: 72 inches (183 cm) with floor clearance: 4-5/16 inches (11 cm).
  - 2) Stile Height: As required up to 10'-0" (305 cm) maximum.
- c. Post-to-ceiling.
  - 1) Screen Height: 58 inches (178 cm).
  - 2) Floor Clearance: 12 inches (30 cm).
  - 3) Post Height: Up to 10'-0" (305 cm) maximum
- d. Post-to-ceiling maximum privacy.
  - 1) Screen Height: 72 inches (183 cm).
  - 2) Floor Clearance: 4-5/16 inches (11 cm).
  - 3) Post Height: Up to 10'-0" (305 cm) maximum
- e. Wall-hung.
  - 1) Screen Height: 42 inches (107 cm) with 18 inches (46 cm) floor clearance.
  - 2) Screen Height: 48 inches (122 cm) with 12 inches (30 cm) floor clearance.

C. Plastic Laminate Dressing Compartments:

1. Design Type:
  - a. Standard Height.
    - 1) Door/Panel Height: 58 inches (178 cm).
    - 2) Floor Clearance: 12 inches (30 cm).
  - b. Maximum Height.
    - 1) Door/Panel Height: 72 inches (183 cm).
    - 2) Floor Clearance: 4-5/16 inches (11 cm).
2. Mounting Configuration:
  - a. Floor-mounted, overhead-braced with satin finish, extruded anodized aluminum headrails, 0.065 inch (1.65 mm) thick with anti-grip profile and integral curtain tracks and hooks for compartments without doors.
    - 1) Bobrick vinyl curtains.
    - 2) Stile Standard Height: 70 inches (178 cm).
    - 3) Stile Maximum Height: 83 inches (211 cm).

D. Finished Thickness: 1 inch (25 mm) for stiles, doors, screens and panels.

E. Materials: 3-ply, stiles, panels, doors, and screens.

1. Cores: 45 lb (20.4 kg) density, industrial grade, resin-impregnated, particle board.
2. Surfaces: High-pressure laminated plastic NEMA LDS-1985 minimum thickness 0.050 inch (1.33 mm) with matte finish.
3. Fabrication: Bonded high-pressure plastic laminate to core material with adhesive specially formulated to prevent delamination. Edges bonded prior to bonding face sheets. Splices or joints in faces or edges are not acceptable except in the case of laminate material limitations.
4. Stainless Steel Edge Option.
  - a. Edge Trim: 18-8, Type 304 stainless steel channel with satin finish.
  - b. Stainless Steel Channels: Mortised for flush fit with routed substrate.
  - c. Corners: Mitered.
5. Color:
  - a. As selected by Architect from manufacturer's standard Plastic Laminate range.
  - b. As indicated on Drawings.

- c. As selected by Architect from manufacturer's 10 Day Rapid Response DesignerSeries or TrimLineSeries range.
- d. Color: 851-58 Spectrum Blue.
- e. Color: 1500-60 Grey.
- f. Color: 1530-60 Beige.
- g. Color: 1572-60 Antique White.
- h. Color: 1595-60 Black.
- i. Color: 3690-58 Basalt Slate.
- j. Color: 4622-60 Grey Nebula.
- k. Color: 4623-60 Graphite Nebula.
- l. Color: 4667-60 Green Tigris.
- m. Color: 4669-60 Natural Tigris.
- n. Color: 4674-60 Evening Tigris.
- o. Color: 4794-60 Windswept Bronze.
- p. Color: 4814-60 Tungsten EV.
- q. Color: 4830K-18 Satin Stainless.
- r. Color: 4841-60 Desert Zephyr.
- s. Color: 4859-60 Spiced Zephyr.
- t. Color: 4878-38 Pewter Mesh.
- u. Color: 4924-38 White Carrara.
- v. Color: 5488-58 Smokey Brown Pear.
- w. Color: 5881-58 Chocolate Warp.
- x. Color: 5884-58 Chestnut Woodline.
- y. Color: 6212-58 Wheat Strand.
- z. Color: 6307-58 Burnt Strand.
- aa. Color: 7018-58 Navy Grafix.
- bb. Color: 7022-58 Natural Canvas.
- cc. Color: 7040A-60 Figured Mahogany.
- dd. Color: 7945K-38 Xanadu.
- ee. Color: 8820-58 Leaf Green.
- ff. Color: D30-60 Natural Almond.
- gg. Color: D91-60 Slate Grey.
- hh. Color: D96-60 Shadow.
- ii. Color: D307-60 Hollyberry.
- jj. Color: D315-60 Platinum.
- kk. Color: D321-60 Brittany Blue.
- ll. Color: D354-60 Designer White.

F. Fire Resistance:

- 1. National Fire Protection Association/International Building Code Interior Wall and Ceiling Finish: Class B / Uniform Building Code: Class II.
  - a. Flame Spread Index (ASTM E 84): 60 for panels and stiles.
  - b. Smoke Developed Index (ASTM E 84): 265 for panels and stiles.

G. Stiles: Floor-anchored stiles furnished with expansion shields and threaded rods.

- 1. Leveling Devices: 3/8 inch x 7/8 inch (10 mm x 22 mm) steel bar welded to 11 gauge (3 mm) steel-reinforcing core; chromate-treated and double zinc-plated; welded to sheet-steel core of stiles.
- 2. Stile Shoes: One-piece, 22 gauge (0.8 mm), 18-8, Type 304 stainless steel, 4 inch (102 mm) height; tops with 90 degree return to stile. One-piece shoe capable of adapting to 3/4 inch (19 mm) or 1 inch (25 mm) stile thickness and capable of being fastened (by clip) to stiles starting at wall line.

H. Wall Posts: Pre-drilled for door hardware, 18-8, Type 304, 16 gauge (1.6 mm) stainless steel with satin finish; 1 inch (25 mm) x 1-1/2 inches (38 mm) x 58 inches high (1473 mm).

- I. Anchors: Expansion shields and threaded rods at floor connections as applicable. Threaded rods secured to supports above ceiling as applicable. Supports above ceiling furnished and installed as Work of Section 055000.
- J. Hardware:
  - 1. Compliance: Operating force of less than 5 lb (2.25 kg).
  - 2. Emergency Access: Hinges, latch allow door to be lifted over keeper from outside compartment on inswing doors.
  - 3. Materials: Stainless Steel 18-8, Type 304, heavy-gauge stainless steel with satin finish.
  - 4. Fastening: Hardware secured to door and stile by theft-resistant, pin-in-head Torx stainless steel machine screws into factory-installed, threaded inserts.
  - 5. Door Hardware:
    - a. Standard, commercial hardware:
      - 1) Latching: Track of door latch prevents inswing doors from swinging out beyond stile; on outswing doors, door keeper prevents door from swinging in beyond stile; 14 gauge (2.3 mm) sliding door latch, 11 gauge (2.3 mm keeper).
      - 2) Hinges: Balanced, with field-adjustable cam to permit door to be fully closed or partially open when compartment is unoccupied.
      - 3) Locking: Door locked from inside by sliding door latch into keeper.
      - 4) Doorstops: Prevents inswinging doors from swinging out beyond stile; on outswing doors, doorstop prevents door from swinging in beyond stile.
    - b. Institutional Hardware:
      - 1) Latching: 14 gauge (2 mm) sliding door latch, 11 gauge (2.3 mm) keeper; latch slides on a shock-resistant nylon track.
      - 2) Hinges: 16 gauge (1.6 mm) stainless steel, self-closing, 3 section hinges.
      - 3) Locking: Door locked from inside by sliding door latch into keeper.
      - 4) Doorstops: Prevents inswinging doors from swinging out beyond stile; on outswing doors, doorstop prevents door from swinging in beyond stile.
  - 6. Fittings:
    - a. Standard, commercial hardware.
      - 1) Mounting Brackets: Mounted inside compartment; exposed brackets on exterior of compartment not acceptable with the exception of outswing doors.
    - b. Institutional Hardware
      - 1) Mounting Brackets: 18 gauge (1.2 mm) stainless steel and extend full height of panel.
      - 2) U-Channels: Secure panels to stiles.
      - 3) Angle Brackets: Secure stiles-to-walls and panels to walls.

## 2.5 LAMINATED PLASTIC SUBSTRATE (Bobrick MetroSeries or AccentSeries)

- A. Plastic Laminate Toilet Partitions:
  - 1. Design:
    - a. Standard Height.
      - 1) Door/Panel Height: 58 inches (147 cm).
      - 2) Floor Clearance: 12 inches (30 cm).
  - 2. Mounting Configuration:
    - a. Floor-mounted.
      - 1) Stile Standard Height: 70 inches (178 cm).

- b. Floor-mounted, overhead-braced with satin finish, extruded anodized aluminum headrails, 0.065 inch (1.65 mm) thick with anti-grip profile.
          - 1) Stile Standard Height: 70 inches (178 cm).
        - c. Ceiling-hung.
          - 1) Stile Standard Height: 8'-0" or as required 10'-0" (305 cm) maximum.
- B. Plastic Laminate Urinal Screens:
- 1. Mounting Configuration:
    - a. Floor-to-ceiling.
      - 1) Screen Height: 58 inches (178 cm) with floor clearance: 12 inches (30 cm)
    - b. Post-to-ceiling.
      - 1) Screen Height: 58 inches (178 cm)
      - 2) Floor Clearance: 12 inches (30 cm)
      - 3) Post Height: Up to 10'-0" (305 cm) maximum
    - c. Wall-hung.
      - 1) Screen Height: 42 inches (107 cm) with 18 inches (46 cm) floor clearance.
      - 2) Screen Height: 48 inches (122 cm) with 12 inches (30 cm) floor clearance.
- C. Plastic Laminate Dressing Compartments:
- 1. Design Type:
    - a. Standard Height.
      - 1) Door/Panel Height: 58 inches (178 cm).
      - 2) Floor Clearance: 12 inches (30 cm).
  - 2. Mounting Configuration:
    - a. Floor-mounted, overhead-braced with satin finish, extruded anodized aluminum headrails, 0.065 inch (1.65 mm) thick with anti-grip profile and integral curtain tracks and hooks for compartments without doors.
      - 1) Bobrick vinyl curtains.
      - 2) Stile Standard Height: 70 inches (178 cm)
- D. Finished Thickness: 1 inch (25 mm) for stiles, doors, screens and panels.
- E. Materials: 3-ply, stiles, panels, doors, and screens.
- 1. Cores: 45 lb (20.4 kg) density, industrial grade, resin-impregnated, particle board.
  - 2. Surfaces: High-pressure laminated plastic NEMA LDS-1985 minimum thickness 0.050 inch (1.33 mm) with matte finish.
  - 3. Fabrication: Bonded high-pressure plastic laminate to core material with adhesive specially formulated to prevent delamination. Edges bonded prior to bonding face sheets. Splices or joints in faces or edges are not acceptable except in the case of laminate material limitations.
  - 4. Stainless Steel Edge Option:
    - a. Edge Trim: 18-8, Type 304 stainless steel channel with satin finish.
    - b. Stainless Steel Channels: Mortised for flush fit with routed substrate.
    - c. Corners: Mitered.
  - 5. Color:
    - a. As selected by Architect from manufacturer's standard Plastic Laminate range.
    - b. As indicated on Drawings.
    - c. As selected by Architect from manufacturer's 2 Day Rapid Response MetroSeries range.
    - d. As selected by Architect from manufacturer's 10 Day Rapid Response

- AccentSeries range.
- e. Color: 851-58 Spectrum Blue.
- f. Color: 1500-60 Grey.
- g. Color: 1530-60 Beige.
- h. Color: 1572-60 Antique White.
- i. Color: 1595-60 Black.
- j. Color: 3690-58 Basalt Slate.
- k. Color: 4622-60 Grey Nebula.
- l. Color: 4623-60 Graphite Nebula.
- m. Color: 4667-60 Green Tigris.
- n. Color: 4669-60 Natural Tigris.
- o. Color: 4674-60 Evening Tigris.
- p. Color: 4794-60 Windswept Bronze.
- q. Color: 4814-60 Tungsten EV.
- r. Color: 4830K-18 Satin Stainless.
- s. Color: 4841-60 Desert Zephyr.
- t. Color: 4859-60 Spiced Zephyr.
- u. Color: 4878-38 Pewter Mesh.
- v. Color: 4924-38 White Carrara.
- w. Color: 5488-58 Smokey Brown Pear.
- x. Color: 5881-58 Chocolate Warp.
- y. Color: 5884-58 Chestnut Woodline.
- z. Color: 6212-58 Wheat Strand.
- aa. Color: 6307-58 Burnt Strand.
- bb. Color: 7018-58 Navy Grafix.
- cc. Color: 7022-58 Natural Canvas.
- dd. Color: 7040A-60 Figured Mahogany.
- ee. Color: 7945K-38 Xanadu.
- ff. Color: 8820-58 Leaf Green.
- gg. Color: D30-60 Natural Almond.
- hh. Color: D91-60 Slate Grey.
- ii. Color: D96-60 Shadow.
- jj. Color: D307-60 Hollyberry.
- kk. Color: D315-60 Platinum.
- ll. Color: D321-60 Brittany Blue.
- mm. Color: D354-60 Designer White.

F. Fire Resistance:

1. National Fire Protection Association/International Building Code Interior Wall and Ceiling Finish: Class B / Uniform Building Code: Class II.
  - a. Flame Spread Index (ASTM E 84): 60 for panels and stiles.
  - b. Smoke Developed Index (ASTM E 84): 265 for panels and stiles.

G. Stiles: Floor-anchored stiles furnished with expansion shields and threaded rods

1. Stile Leveling Device:
  - a. Standard:
    - 1) Overhead-Braced: 12 gauge (2.8 mm), 3 inches x 1-1/4 inches (75 x 32 mm) plated steel stile bracket factory installed to bottom of stile. Furnished with leveling bolt, shoe retainer, floor L-bracket, plastic anchor #14-16, #14 x 5/8 inches (M6.3 x 16 mm) stainless steel sheet-metal screws and #14 x 1-3/4 inches (M6.3 x 45 mm) stainless steel sheet-metal floor screws.
  - b. Steel Core Stile Option:
    - 1) Leveling Devices: 3/8 inch x 7/8 inch (10 mm x 22 mm) steel bar welded to 11 gauge (3 mm) steel-reinforcing core; chromate-treated and double zinc-plated; welded to sheet-steel core of

stiles.

2. Stile Shoes: One-piece, 22 gauge (0.8 mm), 18-8, Type 304 stainless steel, 4 inch (102 mm) height; tops with 90 degree return to stile. One-piece shoe capable of adapting to 3/4 inch (19 mm) or 1 inch (25 mm) stile thickness and capable of being fastened (by clip) to stiles starting at wall line.
- H. Wall Posts: Pre-drilled for door hardware, 18-8, Type 304, 16 gauge (1.6 mm) stainless steel with satin finish; 1 inch (25 mm) x 1-1/2 inches (38 mm) x 58 inches high (1473 mm).
- I. Anchors: Expansion shields and threaded rods at floor connections as applicable. Threaded rods secured to supports above ceiling as applicable. Supports above ceiling furnished and installed as Work of Section 055000.
- J. Hardware:
1. Compliance: Operating force of less than 5 lb (2.25 kg).
  2. Emergency Access: Hinges, latch allow door to be lifted over keeper from outside compartment on inswing doors.
  3. Materials:
    - a. Aluminum:
      - 1) Fastening: Through bolted hardware.
      - 2) Door Hardware:
        - a) Latching: Door is locked from inside by sliding door latch into keeper; twisting latch operation not acceptable; fastened with theft-resistant, one-way machine screws.
        - b) Doorstop: Combination coat hook and bumper reduced damage from door inside compartment.
        - c) Hinges: Pivot hinges; attached to door and stile by through-bolting theft-resistant, chrome one-way shoulder screws into one-way chrome barrel nuts.
    - b. Chrome-plated "Zamak":
      - 1) Fastening: Through bolted hardware.
      - 2) Door Hardware:
        - a) Latching: Door is locked from inside by sliding door latch into keeper; twisting latch operation not acceptable; fastened with theft-resistant, one-way machine screws.
        - b) Doorstop: Combination coat hook and bumper reduced damage from door inside compartment.
        - c) Hinges: Pivot hinges; attached to door and stile by through-bolting theft-resistant, chrome one-way shoulder screws into one-way chrome barrel nuts.
    - c. Stainless Steel 18-8, Type 304, heavy-gauge stainless steel with satin finish.
      - 1) Fastening: Hardware secured to door and stile by theft-resistant, pin-in-head Torx stainless steel machine screws into factory-installed, threaded inserts.
      - 2) Door Hardware:
        - a) Standard, commercial hardware:
          - 1) Latching: Track of door latch prevents inswing doors from swinging out beyond stile; on outswing doors, door keeper prevents door from swinging in beyond stile; 16 gauge (1.6 mm) sliding door latch, 14 gauge (2 mm keeper).
          - 2) Hinges: Balanced, with field-adjustable cam to permit door to be fully closed or partially open when compartment is unoccupied.



- 3) Locking: Door locked from inside by sliding door latch into keeper.
- 4) Doorstops: Prevents inswinging doors from swinging out beyond stile; on outswing doors, doorstop prevents door from swinging in beyond stile.
- b) Institutional Hardware:
  - 1) Latching: 14 gauge (2 mm) sliding door latch, 11 gauge (3.2 mm) keeper; latch slides on a shock-resistant nylon track.
  - 2) Hinges: 16 gauge (1.6 mm) stainless steel, self-closing, 3 section hinges.
  - 3) Locking: Door locked from inside by sliding door latch into keeper.
  - 4) Doorstops: Prevents inswinging doors from swinging out beyond stile; on outswing doors, doorstop prevents door from swinging in beyond stile.
- 3) Fittings:
  - a) Standard, commercial hardware.
    - 1) Mounting Brackets: Mounted inside compartment; exposed brackets on exterior of compartment not acceptable with the exception of outswing doors.
  - b) Institutional Hardware
    - 1) Mounting Brackets: 18 gauge (1.2 mm) stainless steel and extend full height of panel.
    - 2) U-Channels: Secure panels to stiles.
    - 3) Angle Brackets: Secure stiles-to-walls and panels to walls.

## PART 3 PRODUCTS

### 3.1 PREPARATION

- A. Prepare substrates including but not limited to blocking and supports in walls and ceilings at points of attachment using methods recommended by the manufacturer for achieving the best result for the substrates under the project conditions.
  - 1. Inspect areas scheduled to receive compartments for correct dimensions, plumbness of walls, and soundness of surfaces that would affect installation of mounting brackets.
  - 2. Verify spacing of plumbing fixtures to assure compatibility with installation of compartments.
- B. If preparation is the responsibility of another installer, notify Architect in writing of deviations from manufacturer's recommended installation tolerances and conditions.
- C. Do not proceed with installation until substrates have been properly prepared with blocking and supports in walls and ceilings at points of attachment and deviations from manufacturer's recommended tolerances are corrected. Commencement of installation constitutes acceptance of conditions.

### 3.2 INSTALLATION

- A. Install products in strict compliance with manufacturer's written instructions and recommendations, including the following:
  - 1. Verify blocking and supports in walls and ceilings has been installed properly at points of attachment.

2. Verify location does not interfere with door swings or use of fixtures.
3. Use fasteners and anchors suitable for substrate and project conditions
4. Install units rigid, straight, plumb, and level.
5. Conceal evidence of drilling, cutting, and fitting to room finish.
6. Test for proper operation.

### 3.3 ADJUSTING, CLEANING AND PROTECTION

- A. Adjust hardware for proper operation after installation. Set hinge cam on in-swinging doors to hold doors open when unlatched. Set hinge cam on out-swinging doors to hold unlatched doors in closed position.
- B. Touch-up, repair or replace damaged products.
- C. Clean exposed surfaces of compartments, hardware, and fittings.

END OF SECTION