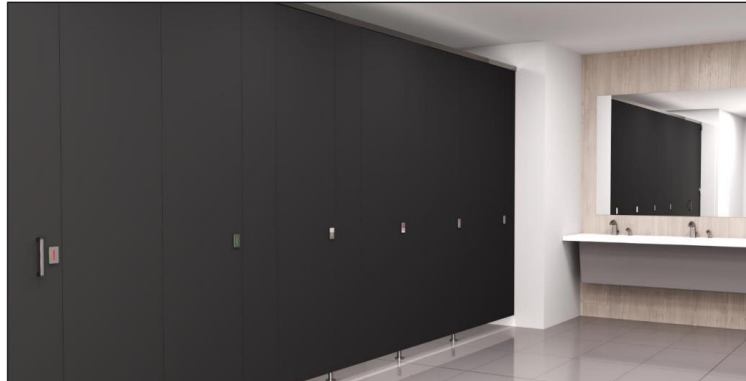
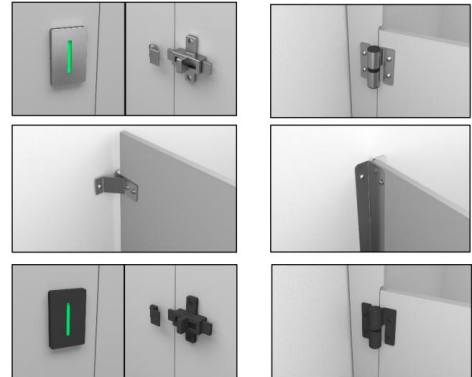




Hadrian Phenolic-Core Toilet Partitions.



ZURN Hadrian Phenolic-Core Toilet Partitions Guide Specification

[Hadrian®](#) is a worldwide supplier of quality toilet partition and locker products. Hadrian was the first manufacturer to powder coat toilet partitions and has continued to embrace new technologies and materials in order to offer architects, designers, and end-users more flexibility in design. Hadrian's wide range of toilet partition products include powder coated metal, stainless steel, embossed stainless steel, solid plastic, and phenolic. Lockers are available in Emperor (corridor) and Gladiator (athletic) front styles.

Coordination with Drawings: Indicate location and type of toilet compartments on the Drawings or in Schedules.

[Contact Hadrian](#) for assistance in editing this specification.

This Guide Specification must be carefully edited by a qualified design professional to meet the particular requirements of the project, assure compliance with governing building codes, and coordinate with other specification sections and Drawings. Accuracy is the responsibility of the specifier or designer. Retain or delete options, remove brackets, and delete blue guidance notes before publication.

SECTION 102113 – PHENOLIC-CORE TOILET PARTITIONS

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Phenolic-core toilet compartments.
2. Phenolic-core urinal screens.

B. Related Requirements:

Specifier: If retaining this optional Article, revise to match Project Manual section numbers and titles.

1. Section 055000 "Metal Fabrications" for miscellaneous structural and support metal components required to secure compartments.
2. Section 092216 "Non-structural Metal Framing" for blocking.
3. Section 102800 "Toilet, Bath, and Laundry Accessories" for toilet tissue dispensers, grab bars, purse shelves, and similar accessories mounted on toilet compartments.

1.2 REFERENCES

Specifier: If retaining this optional Article, edit list to correspond to references retained after editing.

A. References, General: Versions of the following standards current as of the date of issue of the project or as required by applicable code apply to the Work of this Section.

B. ASTM International (ASTM):

1. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials.
2. ASTM A240 - Standard Specification for Chromium and Chromium-Nickel Stainless Steel Plate, Sheet, and Strip for Pressure Vessels and for General Applications.
3. ASTM A666 - Standard Specification for Annealed or Cold-Worked Austenitic Stainless Steel Sheet, Strip, Plate, and Flat Bar.
4. ASTM A743/A743M - Standard Specification for Castings, Iron-Chromium, Iron-Chromium-Nickel, Corrosion Resistant, for General Application.
5. ASTM B86 - Standard Specification for Zinc and Zinc-Aluminum (ZA) Alloy Foundry and Die Castings.
6. ASTM B221 - Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes.

C. 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 accessible.

D. United States Department of Justice:

1. ADA - Americans with Disabilities Act, Standards for Accessible Design.

1.3 COORDINATION

- A. Coordinate requirements for blocking, reinforcing, and other concealed supports to ensure that toilet compartments can be supported and installed as indicated.

1.4 ACTION SUBMITTALS

- A. Product Data. Manufacturer's standard technical literature.
- B. Shop Drawings: Include dimensions, floor plan, elevations, sections, attachments to other work, and installation details. Indicate locations where blocking is required.

Specifier: Delete paragraph below if colors have already been selected.

- C. Samples for Selection: Furnish manufacturer's standard color card showing full range of colors for initial selection.

Specifier: Delete paragraph below if not required.

- D. Samples for Verification: Furnish physical samples of material in selected color.

- 1. Size: Manufacturer's standard size.

- E. Sustainable Design Submittals: Submit verification of compliance with sustainability requirements categories listed in Part 2.

1.5 INFORMATIONAL SUBMITTALS

- A. Warranty: Sample of special warranty.

1.6 CLOSEOUT SUBMITTALS

- A. Maintenance and cleaning instructions.

1.7 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Approved manufacturer listed in this section, with minimum 5 years' experience in the manufacture of toilet partitions.
- B. Installer: Firm with record of successful installations on projects of similar scope.
- C. Pre-Installation Meeting: Verify blocking requirements. Discuss handling and installation techniques, coordination with other work, and protection.

1.8 DELIVERY, STORAGE, AND HANDLING

- A. Comply with manufacturer's instructions for storage and handling.
- B. Deliver materials in original unopened packages with manufacturer's labels intact.
- C. Store in an upright position. Do not lay flat or stack.
- D. Protect materials from damage and deterioration.

1.9 FIELD CONDITIONS

- A. Do not deliver toilet partitions to site until building is enclosed and HVAC systems are in operation.
- B. Install toilet partitions after other finishing operations, including painting, have been completed.
- C. Field Measurements: Verify actual locations of fixtures, walls, columns, ceilings, and other construction by field measurements, and coordinate before toilet partition fabrication.

1.10 WARRANTY

- A. Special Manufacturer's Warranty: Provide manufacturer's standard form in which manufacturer warrants against defects in materials and workmanship during the following period:
 - 1. Phenolic-Core Toilet Partitions: 25 years.

PART 2 - PRODUCTS

2.1 MANUFACTURER

Specifier: Retain paragraph below for USA.

- A. Manufacturer: Provide listed products of Hadrian Inc., 7420 Clover Avenue, Mentor OH, 44060, 440-942-9618, www.hadrian-inc.com.

Specifier: Retain paragraph below for Canada.

- B. Manufacturer: Provide listed products of Hadrian Manufacturing Inc., 965 Syscon Road, Burlington, ON, Canada, L7L 5S3, 905-333-0300, www.hadrian-inc.com.

Specifier: Retain one of two options in paragraph below.

- A. Substitutions: [None acceptable] [In accordance with Instructions to Bidders and Division 01 General Requirements].
- B. Source Limitations: Obtain toilet compartment components and accessories from single manufacturer.

2.2 PHENOLIC-CORE TOILET PARTITIONS

- A. Phenolic-Core Toilet Compartments:
 - 1. Standard: 58-inch- (1473-mm-) high doors and panels.
 - a. Basis of Design Product: **Hadrian Standard**.
 - b. Style: [Headrail braced] [Floor mounted] [Ceiling hung] [Floor to ceiling].
 - 2. Privacy: 72-inch- (1829-mm-) high doors and panels.
 - a. Basis of Design Product: **Hadrian Elite Plus**.
 - b. Style: [Headrail braced] [Pedestal mount] [Ceiling hung] [Floor to ceiling].

3. European: [84-inch- (2134-mm-)] [92-inch (2337-mm-)] high doors and panels.

- a. Basis of Design Product: **Hadrian Elite Max.**
- b. Style: [Headrail braced] [Pedestal mount] [Floor to ceiling].

B. Phenolic-Core Urinal Screens: To match panels in construction and finish.

- 1. Basis of Design Product: **Hadrian Urinal Screen.**
- 2. [Wall hung] [Floor anchored] [Pedestal mount].

C. Phenolic Door, Panel, and Pilaster Construction, General: Decorative surface papers impregnated with melamine resins, pressed over kraft paper core sheets impregnated with phenolic resin and bonded together under high pressure and temperature.

D. Doors and Pilasters: No-sightline interlocking doors and pilasters. 3/4-inch- (19-mm-) thick with no sightline rebate and 45-degree chamfered edges.

E. Partition Panels: 1/2-inch- (13-mm) thick, straight cut with 45-degree chamfered edges.

Specifier: Retain paragraph below for headrail-braced and pedestal-mount partitions.

F. Headrails: 1 inch (25 mm) by 1.75 inch (44 mm), #4 brushed finish, extruded aluminum with anti-grip design. Minimum 0.060-inch (1.5 mm) wall thickness. Securely attach to wall and pilasters with manufacturer's fittings to make a rigid installation.

Specifier: Retain below for headrail braced.

G. Floor Shoes: 4-inch- (76 mm-) high stainless steel.

Specifier: Retain below for floor mounted, ceiling hung, and floor to ceiling.

H. Sleeve Shoes: 3-inch (50 mm-) high stainless steel.

Specifier: Retain paragraph below for pedestal-mount partitions.

I. Pedestals: Grade 304 stainless steel, #4 brushed finish.

2.3 HARDWARE AND ACCESSORIES

A. Hinges: Surface mounted, 11-gauge stainless steel with adjustable cams for self-closing operation. Attach to doors and pilasters with manufacturer's standard stainless steel fasteners.

B. Indicator Latches: Manufacturer's standard brushed nickel zamac indicator latch assembly with antimicrobial coating showing red in the window when in locked position and green when unlocked.

C. Door Pulls: Manufacturer's standard brushed nickel zamac pulls with antimicrobial coating at outswinging doors that comply with accessibility requirements.

D. Wall Connections: [Three stainless steel stirrup brackets] [Continuous stainless steel channels] at panel to wall, panel to pilaster, and pilaster to wall connections, Grade 304 stainless steel, #4 brushed finish.

E. Coat Hooks:

1. Inswing Doors: Stamped stainless steel door hook, Grade 304 stainless steel, #4 brushed finish, combined coat hook and bumper.
2. Outswing Doors: Stainless steel flat coat hook, Grade 304 stainless steel, #4 brushed finish.

F. Fasteners: Manufacturers standard stainless steel fasteners, vibration resistant, twin lead, with pan heads.

Specifier: Ceiling-hung and floor-to-ceiling partitions require an overhead structural steel member (normally a channel) or precast concrete member in the ceiling. Wood support is not acceptable. This member is supplied, installed, and drilled by others.

Retain paragraph below for ceiling-hung and floor-to-ceiling partitions. For those types of partitions, pilasters are rigidly fastened to ceiling structural support by means of two heavy duty ceiling support studs between bottom of supporting structural member and finished ceiling line. Studs must be supplied by Hadrian and be in place prior to application of finished ceiling.

G. Ceiling Support Studs: Heavy duty hanging studs supplied by manufacturer with 4 inch (102 mm) stainless steel sleeves to conceal ceiling connection.

2.4 PERFORMANCE REQUIREMENTS

Specifier: Retain paragraph below if ASTM E84, Class A or B finishes are required.

A. Surface-Burning Characteristics: Comply with ASTM E84; tested by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.

Specifier: Retain Flame-Spread Index of 25 for Class A; 75 for Class B.

1. Flame-Spread Index: [25] [75] or less.
2. Smoke-Developed Index: 450 or less.

Specifier: Hadrian offers partitions for accessible toilet compartments conforming to requirements of ICC/ANSI A117.1. Elite Plus and Elite Max Series offer 9-inch above-finish-floor options for ADA doors and panels. Show accessible toilet compartment locations, plans, and details on Drawings.

B. Accessibility Requirements: Comply with applicable provisions in the U.S. Architectural & Transportation Barriers Compliance Board's ADA-ABA Accessibility Guidelines for Buildings and Facilities and ICC A117.1 for toilet compartments designated as accessible.

2.5 SUSTAINABILITY REQUIREMENTS

A. Sustainability Requirements: Comply with the requirements for material selection categories applicable to Project including the following:

Specifier: For documentation of sustainability certifications visit [Hadrian Green](#) webpage.

1. Recycled content.
2. Regionally sourced.

2.6 MATERIALS

- A. Zinc Aluminum Magnesium and Copper Alloy (Zamac): ASTM B86.
- B. Stainless Steel Sheet: ASTM A240 or A666, 300 series.
- C. Stainless Steel Castings: ASTM A 743/A 743M.
- D. Aluminum: ASTM B221.

2.7 FABRICATION

- A. General: Fabricate toilet compartments to sizes indicated on Drawings. Coordinate requirements and provide for attachment of toilet accessories. Provide cutouts for through-partition toilet accessories where required.
- B. Doors: Pre-drill holes for latches and hinges. Factory install rubber bumpers secured with press fit and adhesive.
- C. Pilasters: Pre-drill holes for hinges.
- D. Anchors: Manufacturer's standard corrosion-resistant supports, leveling mechanism, and anchors at pilasters and walls to suit floor and wall conditions. Provide shoes at pilasters to conceal supports and leveling mechanism.

Specifier: Retain paragraph below and revise to suit Project; verify requirements of authorities having jurisdiction.

- E. Door Size and Swings: Unless otherwise indicated, provide 24-inch- (610-mm-) wide, in-swinging doors for standard toilet compartments and 36-inch- (914-mm-) wide, out-swinging doors with a minimum 32-inch- (813-mm-) wide clear opening for compartments designated as accessible.

2.8 FINISH

Specifier: Coordinate with "Performance Requirements" Article. Contact Hadrian to obtain color cards for initial selection of stock colors or to verify availability of custom face sheet options. If more than one color is required, indicate locations of colors on Drawings or in Schedules.

The first five color options in paragraph below are face sheets by Surforma; the remaining seven color options are face sheets by Wilson Art.

- A. Face Sheet Colors: [Ultra White] [Brushed Aluminum] [Daylight] [Dark Grey] [Black] [Dove Grey] [Sheer Mesh] [Pewter Mesh] [Field Elm] [Florence Walnut] [Portico Teak] [Graphite Nebula] <Insert custom color>.

Specifier: Retain paragraph below for optional black finish hardware. Verify availability with manufacturer. Delete hardware items not included in project. Stirrup brackets are not available in matte black.

- B. Black Hardware: Provide manufacturer's standard matte black finish for hinges, coat hooks, door pulls, fasteners, indicator latches, aluminum headrails, continuous channels, and pedestals. Apply antimicrobial coating to door pulls and indicator latches after color finishing.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine areas and conditions, with Installer present, for compliance with requirements for fastening, support, alignment, operating clearances, and other conditions affecting performance of the Work.
 - 1. Confirm location and adequacy of blocking and support required for installation.
- B. Do not proceed with installation until 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 penetrating structural floor to depth indicated in manufacturer's written instruction.

Specifier: Retain paragraphs below as required for selected installation style.

- B. Headrail-Braced Compartments: Secure pilasters to floor and level, plumb, and tighten. Secure continuous head rail to each pilaster. Adjust so tops of doors are parallel with overhead brace when doors are in closed position.
- C. Floor-Mounted Compartments: Secure pilasters to floor and level, plumb, and tighten. Adjust so tops of doors are level with tops of pilasters when doors are in closed position.
- D. Ceiling-Hung Compartments: Secure pilasters to support structure and level, plumb, and tighten. Hang doors and adjust so bottoms of doors are level with bottoms of pilasters when doors are in closed position.
- E. Floor to Ceiling Compartments: Secure pilasters to supporting construction and level, plumb, and tighten. Hang doors and adjust so doors are level and aligned with panels when doors are in closed position.
- F. Pedestal Mount Compartments: Secure pedestals to floor and level, plumb, and tighten. Secure continuous head rail to each pilaster. Adjust so tops of doors are parallel with overhead brace when doors are in closed position.
- G. Urinal Screens: Attach with anchoring devices to suit supporting structure. Set units level and plumb, rigid, and secured to resist lateral impact.

3.3 ADJUSTING

Specifier: Revise hinge adjustment requirements in this article to suit Project. Verify accessibility requirements of authorities having jurisdiction.
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- A. Hardware Adjustment: Adjust and lubricate hardware according to 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 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