

DIVISION 10 SPECIALTIES**SECTION 10165 PLASTIC LAMINATE TOILET COMPARTMENTS****PART 1 GENERAL****1.01 SECTION INCLUDES**

- A. Plastic laminate toilet compartments, floor mounted and head rail braced.

1.02 RELATED SECTIONS

- A. Section 06114- Wood Blocking and Curbing: Framing and plates within walls for partition panel support.
- B. Section 10800 - Toilet Accessories.

1.03 REFERENCES

- A. ADA - Americans with Disabilities Act Accessibility Guidelines for Buildings and Facilities.
- B. ANSI A208.1 - Mat Formed Wood Particleboard.
- C. ASTM A167 - Stainless and Heat-Resisting Chromium-Nickel Steel Plate, Sheet, and Strip.
- D. NEMA LD-3 - High Pressure Decorative Laminates.

1.04 SUBMITTALS

- A. Submit under provisions of Section 01300.
- B. Shop Drawings: Indicate partition plan, elevation views, dimensions, details of wall, floor and supports, door swings.
- C. Product Data: Provide data on panel construction, hardware, and accessories.
- D. Manufacturer's Installation Instructions: Indicate special procedures and perimeter conditions requiring special attention.

1.05 REGULATORY REQUIREMENTS

- A. Conform to ADA code for access for the handicapped.

1.06 FIELD MEASUREMENTS

- A. Verify that field measurements are as instructed by the manufacturer.

1.07 COORDINATION

- A. Coordinate work under provisions of Section 01039.
- B. Coordinate the work with placement of support framing and anchors in wall.

PART 2 PRODUCTS

2.01 ACCEPTABLE MANUFACTURERS

- A. American Sanitary Partition Corporation. Product: type PL-FS.
- B. Ampco Products, Inc. Product: high-pressure plastic laminate.
- C. General Partitions Manufacturing Company. Product: Series 40.
- D. Substitutions: Under provisions of Section 01600.

2.02 MATERIALS

- A. Wood Particle Board Core: ANSI A208.1, composed of wood flakes set with waterproof resin binder; 45 grade, sanded faces.
- B. Plastic Laminate: NEMA LD-3 General Purpose Type 0.062 inch thick.
- C. Adhesive: Manufacturer's standard type.

2.03 ACCESSORIES

- A. Pilaster Shoe: Formed ASTM A167 type 304 stainless steel with No. 4 finish, 3 inch high, with adjustable screw jack.
- B. Head Rails: Hollow stainless steel tube, 1 x 1-5/8 inch size, with cast socket wall brackets.
- C. Attachments, Screws, and Bolts: Stainless steel; tamper proof type, heavy duty extruded aluminum brackets.
- D. Through Bolts and Nuts: Stainless steel with tamper proof heads.
- E. Steel Plate Reinforcement: Carbon steel, prepared for fasteners, 1/8 inch thick.
- F. Hardware: Stainless steel:
 - 1. Pivot hinges, gravity type, adjustable for door close positioning.
 - 2. Nylon bearings.
 - 3. Thumb turn door latch with exterior emergency access feature.
 - 4. Door strike and keeper with rubber bumper.
 - 5. Coat hook with rubber bumper.
 - 6. Door pull for out swinging doors.
 - 7. Paddle handle door latch at handicapped compartments as required ADA.

2.04 FABRICATION

- A. Fabricate partitions by applying single sheet plastic laminate finish to faces and edges of core material using adhesive and pressure bonding.
- B. Seal edges of cut-outs. Bevel corners and edges.
- C. Reinforce pilaster and panels with steel plate reinforcement sandwiched, within particle core at attachment points. Router cut openings as required.

- D. Doors and Panels:
 - 1. Thickness: 1 inch.
 - 2. Door Width: 24 inch.
 - 3. Door Width for Handicapped Use: 36 inch.
 - 4. Height: 58 inch.
- E. Thickness of Pilasters: 1-1/4 inch .

2.05 FINISHING

- A. Plastic Laminate, Two Colors: As selected.
- B. Stainless Steel Surfaces: No. 4 finish.
- C. Exposed Steel Surfaces: Polished.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify site conditions under provisions of Section 01039.
- B. Verify correct spacing of and between plumbing fixtures.
- C. Verify correct location of built-in framing, anchorage, and bracing.

3.02 INSTALLATION

- A. Install partitions secure, rigid, plumb, and level in accordance with manufacturer's instructions.
- B. Maintain 3/8 to 1/2 inch space between wall and panels and between wall and end pilasters.
- C. Attached panel brackets securely to walls using anchor devices.
- D. Attach panels and pilasters to brackets with tamper proof through bolts and nuts. Locate head rail joints at pilaster center lines.
- E. Anchor urinal screen panels to walls with two panel brackets and vertical upright consisting of pilaster anchored to floor.
- F. Provide adjustment for floor variations with screw jack through steel saddles integral with pilaster. Conceal floor fastenings with pilaster shoes.
- G. Equip each door with two hinges, one door latch, one coat hook and bumper, outswinging door with pull. Comply with ADA at handicapped compartment.
- H. Install door strike and keeper with door bumper on each pilaster in alignment with door latch.
- I. Field touch-up of scratches or damaged finish will not be permitted.
- J. Replace damaged or scratched materials with new materials.

3.03 ERECTION TOLERANCES

- A. Maximum Variation From True Position: 1/4 inch.
- B. Maximum Variation From Plumb: 1/8 inch.

3.04 ADJUSTING

- A. Adjust work under provisions of Section 01700.
- B. Adjust and align hardware to uniform clearance at vertical edge of doors, not exceeding 3/16 inch.
- C. Adjust hinges to position doors in partial opening position when unlatched. Return out-swinging doors to closed position.
- D. Adjust adjacent components for consistency of line or plane.

END OF SECTION

SECTION 10441 PLASTIC SIGNS**PART 1 GENERAL****1.1 SECTION INCLUDES**

- A. Individual plastic character signs.

1.2 RELATED SECTIONS

- A. Section 15190 - Mechanical Identification.
- B. Section 16195 - Electrical Identification.

1.3 REFERENCES

- A. ADA - Americans with Disabilities Act Accessibility Guidelines for Buildings and Facilities.

1.4 SUBMITTALS

- A. Submit under provisions of Section 01300.
- B. Shop Drawings: Indicate sign styles, lettering font, foreground and background colors, locations, overall dimensions of each sign.
- C. Samples: Submit two sample signs, 2 x 6 inch in size illustrating type, style, letter font, and colors specified; method of attachment.
- D. Manufacturer's Installation Instructions: Include installation template and attachment devices.

1.5 QUALIFICATIONS

- A. Manufacturer: Company specializing in manufacturing the Products specified in this section with minimum three years experience.

1.6 REGULATORY REQUIREMENTS

- A. Conform to applicable code and ADA for requirements for the physically handicapped.

1.7 DELIVERY, STORAGE, AND HANDLING

- A. Deliver, store, protect and handle products to site under provisions of ABC Form C-8.
- B. Package signs, labeled in name groups.

1.8 ENVIRONMENTAL REQUIREMENTS

- A. Do not install signs when ambient temperature is lower than recommended by manufacturer.
- B. Maintain this minimum temperature during and after installation of signs.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Manufacturers:
 - 1. Best Manufacturing Company System HC 200.
 - 2. Substitutions: Refer to ABC Form C-8.

2.2 ADA SIGNS

- A. Raised Letter Signs: ADA signs - plastic face and raised copy selected from manufacturers standard colors and as follows:
 - 1. Total Thickness: 1/8 inch.
 - 2. Height: 7/8".
 - 3. Letter Thickness: 1/32 inch.
 - 4. Edges: Square.
 - 5. Corners: Square
 - 6. Character Font: Optima Medium.
 - 7. Braille: Grade 2 on each sign per ADA specifications.

2.3 ACCESSORIES

- A. Tape Adhesive: Double sided tape, permanent adhesive.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify that substrate surfaces are ready to receive work.

3.2 INSTALLATION

- A. Install in accordance with manufacturer's instructions.
- B. Install signs after surfaces are finished, in locations as directed.
- C. Position sign as required by ADA.

3.3 SCHEDULES

- A. Each Male Public Toilet Rooms: Plaque sign 8 x 8 inches, "MALE", and international pictorial accessible symbols.
- B. Each Female Public Toilet Rooms: Plaque sign 8 x 8 inches, "FEMALE", and international pictorial accessible symbols.

END OF SECTION



SECTION 10801 TOILET ACCESSORIES**PART 1 GENERAL****1.01 SECTION INCLUDES**

- A. Toilet and washroom accessories.
- B. Grab bars.
- C. Attachment hardware.

1.02 PRODUCTS INSTALLED BUT NOT FURNISHED UNDER THIS SECTION

- A. Section 06114 - Wood Blocking and Curbing: Wall Sheathing.
- B. Section 09260-Gypsum Board Systems: Placement of backing plate reinforcement.

1.03 REFERENCES

- A. ADA - Americans with Disabilities Act Accessibility Guidelines for Buildings and Facilities.
- B. ASTM A123 - Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products.
- C. ASTM A167 - Stainless and Heat-Resisting Chromium-Nickel Steel Plate, Sheet, and Strip.
- D. ASTM A269 - Seamless and Welded Austenitic Stainless Steel Tubing for General Service.
- E. ASTM A366 - Steel, Carbon, Cold-Rolled Sheet, Commercial Quality.
- F. ASTM B456 - Electro deposited Coatings of Copper Plus Nickel Plus Chromium and Nickel Plus Chromium.
- G. NEMA LD-3 - High Pressure Decorative Laminates.

1.04. SUBMITTALS

- A. Submit under provisions of Section 01300.
- B. Product Data: Provide data on accessories describing size, finish, details of function, attachment methods.
- C. Manufacturer's Installation Instructions: Indicate special procedures and perimeter conditions requiring special attention.

1.05. REGULATORY REQUIREMENTS

- A. Conform to ADA code for access for the handicapped.

1.06. FIELD MEASUREMENTS

- A. Verify that field measurements are as indicated, instructed by the manufacturer.

1.07. COORDINATION

- A. Coordinate work under provisions of Section 01039.
- B. Coordinate the work with the placement of internal wall reinforcement and reinforcement of toilet partitions to receive anchor attachments.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Bobrick Washroom Equipment
- B. Other acceptable manufacturers offering equivalent products.
 - 1. Miami-Covey Company
 - 2. Parker
 - 3. Bradley
- C. Substitutions: Under provisions of Section 01600. Substitutions permitted.

2.02 MATERIALS

- A. Sheet Steel: ASTM A366.
- B. Stainless Steel Sheet: ASTM A167, Type 304.
- C. Tubing: ASTM A269, stainless steel.
- D. Adhesive: Two component epoxy type, waterproof.
- E. Fasteners, Screws, and Bolts: Hot dip galvanized, tamper-proof, and security type.
- F. Expansion Shields: Fiber, lead, or rubber as recommended by accessory manufacturer for component and substrate.

2.03 FABRICATION

- A. Weld and grind joints of fabricated components, smooth.
- B. Form exposed surfaces from single sheet of stock, free of joints. Form surfaces flat without distortion. Maintain surfaces without scratches or dents.
- C. Fabricate grab bars of tubing, free of visible joints, return to wall with end attachment flanges. Form bar with 1½ inches clear of wall surface.
- D. Shop assemble components and package complete with anchors and fittings.
- E. Provide steel anchor plates, adapters, and anchor components for installation.

2.04 FINISHES

- A. Galvanizing: ASTM A123 to 1.25 oz/sq yd. Galvanize ferrous metal and fastening devices.
- B. Shop Primed Ferrous Metals: Pre-treat, clean and spray apply one coat of primer.

- C. Enamel: Pre-treat to clean conditions, apply one coat of primer and minimum two coats of epoxy baked enamel.
- D. Chrome/Nickel Plating: ASTM B456, Type SC 2 satin finish.
- E. Stainless Steel: No. 4 satin luster finish.
- F. Back paint components where contact is made with building finishes to prevent electrolysis.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify site conditions under provisions of Section 01039.
- B. Verify that site conditions are ready to receive work and dimensions are as instructed by the manufacturer.
- C. Verify exact location of accessories for installation.

3.02 PREPARATION

- A. Deliver inserts and rough-in frames to site for timely installation.
- B. Provide templates and rough-in measurements as required.

3.03 INSTALLATION

- A. Install accessories in accordance with manufacturers' instructions and ADA.
- B. Install plumb and level, securely and rigidly anchored to substrate.

3.04 SCHEDULE: (Bradley number unless noted otherwise)

<u>Description</u>	<u>Symbol</u>	<u>Manufacturer / model number</u>
Toilet Paper Holder (one per toilet fixture)	TPH	505
Grab bar 42" long (one per H C toilet fixture)	GB	812-42
Grab bar 36" long (one per H C toilet fixture)	GB	812-36
Soap Dispenser (one per two lavatories)	SD	6542
Paper Towel Dispenser (one per restroom)	TD	250-15
Mirror (one per Lavatory)	M	781 18 x 34
Sanitary Napkin Disposal (one per women's stall)	SND	4781-15

END OF SECTION

SECTION 10522 FIRE EXTINGUISHERS AND ACCESSORIES**PART 1 GENERAL****1.1 SECTION INCLUDES**

- A. Fire extinguishers.
- B. Fire extinguisher cabinets.
- C. Accessories.

1.2 RELATED SECTIONS

- A. Section 06114 - Wood Blocking and Curbing: Wood blocking and shims.

1.3 REFERENCES

- A. NFPA 10 - Standard for Portable Fire Extinguishers.
- B. UL - Fire Protection Equipment Directory.

1.4 PERFORMANCE REQUIREMENTS

- A. Conform to NFPA 10.
- B. Provide extinguishers classified and labeled by Underwriters Laboratories Inc. for the purpose specified and indicated.

1.5 SUBMITTALS FOR INFORMATION

- A. Section 01300 - Submittals: Procedures for submittals.
- B. Manufacturer's Installation Instructions: Indicate special criteria and wall opening coordination requirements.
- C. Manufacturer's Certificate: Certify that Products meet or exceed specified requirements.

1.6 SUBMITTALS AT PROJECT CLOSEOUT

- A. Section 01700 - Contract Closeout: Procedures for submittals.
- B. Maintenance Data: Include test, refill or recharge schedules and re-certification requirements.

1.7 ENVIRONMENTAL REQUIREMENTS

- A. Do not install extinguishers when ambient temperature may cause freezing of extinguisher ingredients.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Manufacturers:
 - 1. J. L. Industries, Inc.
 - 2. Larsen's Manufacturing Company.
 - 3. Substitutions: Not permitted.

2.2 FIRE EXTINGUISHERS

- A. Dry Chemical Type: Heavy-duty steel tank, with pressure gage; Class ABC, Size 10.
- B. Extinguisher Finish: Steel, enamel, and color as selected.

2.1 FIRE EXTINGUISHER CABINETS

- A. Gemini Series AL FS G 2409-R3 with MP5 as manufactured by Larsen's.
- B. Cabinets in fire rated walls are required to be UL rated.

2.4 ACCESSORIES

- A. Extinguisher Brackets: Formed steel, white enamel finish.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Section 01039 - Coordination and Meetings: Verification of existing conditions before starting work.
- B. Verify rough openings for cabinet are correctly sized and located.

3.2 INSTALLATION

- A. Install in accordance with manufacturer's instructions.
- B. Install cabinets plumb and level in wall openings, 36 inches from finished floor to inside bottom of cabinet.
- C. Secure rigidly in place.
- D. Place extinguishers in cabinets.

END OF SECTION

SECTION 10531 ALUMINUM CANOPIES**PART 1 GENERAL****1.1 SECTION INCLUDES**

- A. Work in this section includes furnishing and installation of extruded aluminum overhead hanger rod style canopies as manufactured by Mapes Industries Inc.
- B. Related Items and Considerations:
 - 1. Flashing of various designs may be required.
 - 2. Determine wall construction, make-up and thickness.
 - 3. Ensure adequate wall condition to carry canopy loads where required.
 - 4. Consider water drainage away from canopy where necessary.
 - 5. Any necessary removal or relocation of existing structures, obstructions or materials.

1.2 QUALITY ASSURANCE

- A. Products meeting these specifications established standard of quality required as manufactured by Mapes Industries, Inc. Lincoln, Nebraska 1-800-228-2391.

1.3 FIELD MEASUREMENT

- A. Confirm dimensions prior to preparation of shop drawings when possible.
- B. If requested, supply manufacturer's standard literature and specifications for canopies.
- C. Submit shop drawings showing structural component locations/positions, material dimensions and details of construction and assembly.

1.4 PERFORMANCE REQUIREMENTS

- A. Canopy must conform to local building codes.
- B. Determine if specific load requirements have been established for canopies and if stamped calculations are required for location in which canopy is installed.

1.5 DELIVER, STORAGE, HANDLING

- A. Deliver and store all canopy components in protected areas.

1.6 SUBMITTALS

- A. Submit under provisions of Section 01300.
- B. Provide manufacturer's shop drawings, including fabrication and installation details.

1.7 COORDINATION

- A. Provide necessary anchors, block outs, flashing and other items required to be built-in in ample time to avoid delays to the job.

PART 2 PRODUCTS

2.1 MANUFACTURERS / PRODUCT

- A. Mapes Industries, Inc. / Super Lumideck
Lincoln, Nebraska
1-800-228-2391; fax: 1-800-737-6756
- B. Other acceptable manufacturers offering equivalent products.
 - 1. Dittmer Architectural Aluminum
 - 2. E. L. Burns.
 - 3. American Aluminum Products.
- C. Substitutions: Under provisions of Section 01600.

2.2 MATERIALS:

- A. Decking and fascia shall be extruded aluminum, alloy 6063-T6, in profile and thickness shown in current Mapes brochures.
- B. Hanger rods and attachment hardware shall be galvanized/zinc plated.
- C. Fascia shall be standard 8" extruded "J" style (minimum .125 aluminum)

2.3 FINISHES

- A. Standard two-coat Kynar® colors as selected by Architect from manufactures standards.

2.4 FABRICATION

- A. All connections shall be mechanically assembled utilizing 3/16" fasteners with a minimum shear stress of 350 lb. Pre-welded or factory-welded connections are not acceptable.
- B. Decking shall be designed with interlocking extruded aluminum members with mechanical fasteners field applied to provide structural integrity for the completed assembly.
- C. Concealed drainage. Water shall drain from covered surfaces into integral fascia gutter and directed for front drainage.

PART 3 EXECUTION:

3.1 INSPECTION

- A. Confirm that surrounding area is ready for the canopy installation.

- B. Installer shall confirm dimensions and elevations to be as shown on drawings provided by Mapes Industries.
- C. Erection shall be performed by an approved installer and scheduled after all concrete, masonry and roofing in the area is completed.

3.2 INSTALLATION

- A. Installation shall be in strict accordance with manufacturer's shop drawings. Particular attention should be given to protecting the finish during handling and erection.
- B. Installation: Canopies shall be installed according to approved plans and shop drawings and the entire structure shall be erected straight, true, and plumb in accordance with standard construction procedures. All joints and connections shall be tight and clean and all surfaces left in a clean condition,
- C. Drainage: Installed unit(s) shall have the following minimum pitch for water drainage of the roof:
 - 1. Up to 10' projection: 1/8" per foot.
 - 2. Over 10' projection: 1/4" per foot.
- D. After installation, entire system shall be left in a clean condition.

END OF SECTION

