

SECTION 10811**CHANGING STATIONS**

***** Brocar Products, Inc. manufactures eleven models of wall mounted, folding diaper changing stations for use in commercial toilet facilities.

Model 100-EH - Polyethylene, horizontal station.

Model 100-EV - Polyethylene, vertical station.

Model 100-PL - Polyethylene, horizontal station with plastic laminate face panel.

Model 100-SSR-R - Stainless steel, horizontal, recessed mounted station.

Model 100-SSR-SM - Stainless steel, horizontal, surface mounted station.

Model 100-SSV-R - Stainless steel, vertical, recessed mounted station.

Model 100-SSV-SM - Stainless steel, vertical, surface mounted station.

Model 100-SSC-R - Recessed mounted, polyethylene, horizontal station in stainless steel shell.

Model 100-SSC-SM - Surface mounted, polyethylene, horizontal station in stainless steel shell.

Model 100-SSE-R - Stainless steel, horizontal, recessed mounted, adult changing station designed for use by physically challenged persons.

Model 100-SSE-SM - Stainless steel, horizontal, surface mounted, adult changing station designed for use by physically challenged persons.

This guide specification section can be used to specify all of the above diaper changing stations. The specifier will need to select appropriate products and delete non-applicable models and options. Refer to Brocar Products, Inc. product literature for descriptions and available options.

The specification section is organized by placing information in three standard parts:

PART 1 - GENERAL Describes administrative and procedural requirements.

PART 2 - PRODUCTS Describes materials, products, and accessories to be incorporated into the construction project.

PART 3 - EXECUTION Describes how the products will be installed at the construction site.

Throughout this product guide specification, references are made to other specification

sections that might be contained in the project manual. These references are presented as examples and coordination reminders. For each project, these references will need to be revised to reflect actual sections being used.

Within the specification text, Imperial dimensions are presented first in brackets followed by System International Metric (SI) equivalents also in brackets. Depending on project requirements, either the Imperial or the SI metric equivalents will need to be deleted.

The specifier will need to edit this product specification for a specific project to reflect the options and applications being used. The guide section has been written so that most editing can be accomplished by deleting unnecessary requirements and options. Depending on project requirements, some additional information will need to be added by the specifier. Options are indicated by []. Notes to assist the specifier in selecting options and editing the specification guide are printed in bold and indicated with *********. For final editing, all brackets and notes will need to be deleted from the guide.

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes: Diaper changing stations including mounting hardware and accessories.
- B. Related sections:

******* List other specification sections dealing with work directly related to this section such as the following. *******

1. Section 09260 - Gypsum Board Assemblies: Blocking in metal stud partitions for anchorage of changing stations.
2. Section 09310 - Ceramic Tile: Tile wall finish to coordinate with installation of changing stations.

1.2 REFERENCES

****** List by number and full title reference standards referred to in remainder of specification section. Delete non-applicable references. ******

- A. American Society for Testing and Materials (ASTM):
 1. ASTM A167 - Stainless and Heat-Resisting Chromium-Nickel Steel Plate, Sheet and Strip.
 2. ASTM G21 - Resistance of Synthetic Polymeric Materials to Fungi.
 3. ASTM G22 - Resistance of Plastic to Bacteria.

- B. American National Standards Institute (ANSI):
 - 1. ANSI Z535.3 - Criteria for Safety Symbols.
 - 2. ANSI Z535.4 - Product Safety Signs and Labels.
- C. ICC/ANSI A117.1 - International Code Council/American National Standards Institute Standard on Accessible and Useable Buildings and Facilities.
- D. NEMA LD3 - High Pressure Decorative Laminates.

1.3 SUBMITTALS

- A. Provide in accordance with Section 01330 - Submittal Procedures:
 - 1. Product data for changing stations, materials, finishes, mounting hardware, and accessories.
 - 2. Test reports from independent company showing compliance with Paragraph 1.4.A.
 - 3. Shop drawings showing dimensions, mounting heights, and installation details.
 - 4. Installation and maintenance instructions.
 - 5. Certificate of product liability insurance required by Paragraph 1.4.C.
 - 6. Copy of warranty required by Paragraph 1.5 for review by Architect.

1.4 QUALITY ASSURANCE

- A. Changing stations shall have been performance tested by United States Testing Company, Inc. or other independent testing laboratory:
 - 1. Cycle test: No structural failure, cracking, or impairment to operation after 59,000 cycles tested at 8 cycles per minute for 4 days.
- B. Changing stations shall be provided and installed in compliance with ICC/ANSI A117.1.
- C. Provide liability insurance coverage to protect Owner from financial loss due to accident or injury during life of changing stations. Minimum coverage shall be \$1,000,000 general liability and \$10,000,000 excess liability.

1.5 WARRANTY

- A. In accordance with Section 01770 - Closeout Procedures provide 1 year warranty to cover repair or replacement of defective product.

PART 2 - PRODUCTS**2.1 ACCEPTABLE MANUFACTURERS**

- A. Brocar Products, Inc.
- B. Manufacturers of equivalent products submitted and approved in accordance with Section 01630 - Product Substitution Procedures.

2.2 MATERIALS

******* Edit this article to include materials for selected changing stations. Delete non-applicable materials. *******

- A. Molded, high-density polyethylene, Food and Drug Administration (FDA) approved, and complying with ASTM G21 and ASTM G22 to inhibit bacterial and fungal growth.
- B. Stainless steel: ASTM A167 Type 304, commercial grade, brushed finish, 16 gage minimum.

******* For Model 100-PL, Brocar Products, Inc. provides over 900 color options for plastic laminate front face panels manufactured by either Formica Corporation, Nevamar, Wilsonart International, Pionite, Perstorp, or Polyray. *******

- C. Plastic laminate:
 - 1. NEMA LD 3, general purpose GP-50.
 - 2. Color and pattern: [[_____] as manufactured by [Formica Corporation] [Nevamar] [Wilsonart International] [Pionite] [Perstorp] [Polyray]] [as selected by Architect from manufacturer's full range of options].
- D. Labels: Equip all changing stations [and wall seats] with graphic symbol label instructing users on safe operation of unit. Labels shall comply with ANSI Z535.3 and ANSI Z535.4.

******* Include and edit the following article to specify polyethylene baby diaper changing stations, Models 100-EH and 100-EV. *******

2.3 POLYETHYLENE CHANGING STATION

******* Include the following paragraphs to specify polyethylene horizontal station Model 100-EH. *******

- A. Type: Horizontal, surface mounted, fold down, baby diaper changing station with concave changing bed; Model 100-EH as manufactured by Brocar Products, Inc.

- B. Construction: Molded polyethylene components.
- C. Nominal size: [34-1/4 inches] [870 mm] wide by [18 inches] [457 mm] high and projecting [4 inches] [102 mm] when closed. When open, bed projects [18 inches] [457 mm] from wall.
- D. Rated load capacity: [250 pounds.] [113 kg.]
- E. Operation: Opens and closes with pneumatic gas spring mechanism in concealed cylinder.
- F. Equip changing station with integral liner dispenser, 2 built-in bag hooks, and child protection safety strap with cam buckle adjustable with one hand.

***** **Include the following paragraphs to specify polyethylene vertical station Model 100-EV.** *****

- A. Type: Vertical, surface mounted, fold down, baby diaper changing station with concave changing bed; Model 100-EV as manufactured by Brocar Products, Inc.
- B. Construction: Molded polyethylene components with foam filled core.
- C. Nominal size: [19-1/2 inches] [495 mm] wide by [34-1/2 inches] [876 mm] high and projecting [4 inches] [102 mm] when closed. When open, bed projects [34-1/2 inches] [876 mm] from wall.
- D. Rated load capacity: [250 pounds.] [113 kg.]
- E. Operation: Opens and closes with pneumatic gas spring mechanism in concealed cylinder.
- F. Equip changing station with integral liner dispenser, 2 built-in bag hooks, and child protection safety strap with cam buckle adjustable with one hand.

***** **Include and edit the following article to specify polyethylene, horizontal baby diaper changing stations with plastic laminate panel on front face, Model 100-PL.** *****

2.4 POLYETHYLENE CHANGING STATION WITH PLASTIC LAMINATE FACE

- A. Type: Horizontal, surface mounted, fold down, baby diaper changing station with concave changing bed and plastic laminate panel on front face; Model 100-PL as manufactured by Brocar Products, Inc.
- B. Construction: Molded polyethylene components with foam filled core.

- C. Rated load capacity: [250 pounds.] [113 kg.]
- D. Front face panel: Equip changing station with polyethylene perimeter frame securing decorative plastic laminate panel.
- E. Nominal size: [34-1/4 inches] [870 mm] wide by [18 inches] [457 mm] high and projecting [4 inches] [102 mm] when closed. When open, bed projects [18 inches] [457 mm] from wall.
- F. Operation: Opens and closes with pneumatic gas spring mechanism in concealed cylinder.
- G. Equip changing station with integral liner dispenser, 2 built-in bag hooks, and child protection safety strap with cam buckle adjustable with one hand.

***** **Include and edit the following article to specify stainless steel baby diaper changing stations, Models 100-SSR-R, 100-SSR-SM, 100-SSV-R, and 100-SSV-SM.** *****

2.5 STAINLESS STEEL CHANGING STATION

***** **Include the following paragraphs to specify stainless steel, horizontal, recessed mounted station, Model 100-SSR-R.** *****

- A. Type: Horizontal, recessed mounted, fold down, stainless steel baby diaper changing station with concave changing bed; Model 100-SSR-R as manufactured by Brocar Products, Inc.
- B. Construction:
 - 1. Body: 16 gage stainless steel with seamless welds, softened edges, and rounded plastic corners.
 - 2. Replaceable tray liner: Insulating polystyrene.
- C. Nominal size: [36 inches] [914 mm] wide by [23-1/4 inches] [591 mm] high and projecting [1 inch] [25 mm] when closed. When open, bed projects [21 inches] [533 mm] from back wall of station.
- D. Rated load capacity: [400 pounds.] [181 kg.]
- E. Operation: Opens and closes with pneumatic gas spring mechanism in concealed cylinder and stainless steel hinges.
- F. Equip changing station with child protection safety strap with cam buckle adjustable with one hand.

******* Include the following paragraphs to specify stainless steel, horizontal, surface mounted station, Model 100-SSR-SM. *******

- A. Type: Horizontal, surface mounted, fold down, stainless steel baby diaper changing station with concave changing bed; Model 100-SSR-SM as manufactured by Brocar Products, Inc.
- B. Construction:
 - 1. Body: 16 gage stainless steel with seamless welds, softened edges, and rounded plastic corners.
 - 2. Replaceable tray liner: Insulating polystyrene.
- C. Nominal size: [36 inches] [914 mm] wide by [23-1/4 inches] [591 mm] high and projecting [4 inches] [102 mm] when closed. When open, bed projects [21 inches] [533 mm] from back wall of station.
- D. Rated load capacity: [400 pounds.] [181 kg.]
- E. Operation: Opens and closes with pneumatic gas spring mechanism in concealed cylinder and stainless steel hinges.
- F. Equip changing station with child protection safety strap with cam buckle adjustable with one hand.

******* Include the following paragraphs to specify stainless steel, vertical, recessed mounted station, Model 100-SSV-R. *******

- A. Type: Vertical, recessed mounted, fold down, stainless steel baby diaper changing station with concave changing bed; Model 100-SS-RV as manufactured by Brocar Products, Inc.
- B. Construction:
 - 1. Body: 16 gage stainless steel with seamless welds, softened edges, and rounded plastic corners.
 - 2. Replaceable tray liner: Insulating polystyrene.
- C. Nominal size: [23-1/4 inches] [591 mm] wide by [35-5/8 inches] [904 mm] high and projecting [1 inch] [25 mm] when closed. When open, bed projects [31-1/2 inches] [800 mm] from back wall of station.
- D. Rated load capacity: [400 pounds.] [181 kg.]

- E. Operation: Opens and closes with pneumatic gas spring mechanism in concealed cylinder and stainless steel hinges.
- F. Equip changing station with child protection safety strap with cam buckle adjustable with one hand.

****** Include the following paragraphs to specify stainless steel, vertical, surface mounted station, Model 100-SSV-SM. ******

- A. Type: Vertical, surface mounted, fold down, stainless steel baby diaper changing station with concave changing bed; Model 100-SSV-SM as manufactured by Brocar Products, Inc.
- B. Construction:
 - 1. Body: 16 gage stainless steel with seamless welds, softened edges, and rounded plastic corners.
 - 2. Replaceable tray liner: Insulating polystyrene.
- C. Nominal size: [23-1/4 inches] [591 mm] wide by [35-5/8 inches] [904 mm] high and projecting [4 inches] [102 mm] when closed. When open, bed projects [31-1/2 inches] [800 mm] from back wall of station.
- D. Rated load capacity: [400 pounds.] [181 kg.]
- E. Operation: Opens and closes with pneumatic gas spring mechanism in concealed cylinder and stainless steel hinges.
- F. Equip changing station with child protection safety strap with cam buckle adjustable with one hand.

2.6 STAINLESS STEEL CLAD POLYETHYLENE CHANGING STATION

****** Include the following paragraphs to specify recessed mounted, polyethylene horizontal changing station in stainless steel shell, Model 100-SSC-R. ******

- A. Type: Horizontal, recessed mounted, fold down, polyethylene baby diaper changing station with concave changing bed and housed in stainless steel shell; Model 100-SSC-R as manufactured by Brocar Products, Inc.
- B. Construction:
 - 1. Body: Molded polyethylene components with foam filled core.

2. Shell: 16 gage stainless steel with seamless welds, softened edges, and rounded plastic corners.
- C. Nominal size: [19-1/2 inches] [495 mm] wide by [19-1/2 inches] [495 mm] high and projecting [1 inch] [25 mm] when closed. When open, bed projects [19 inches] [483 mm] from back wall of station.
- D. Rated load capacity: [250 pounds.] [113 kg.]
- E. Operation: Opens and closes with pneumatic gas spring mechanism in concealed cylinder.
- E. Equip changing station with integral liner dispenser, built-in dual bag hooks, and child protection safety strap with cam buckle adjustable with one hand.

******* Include the following paragraphs to specify surface mounted, polyethylene horizontal changing station in stainless steel shell, Model 100-SSC-SM. *******

- A. Type: Horizontal, surface mounted, fold down, polyethylene baby diaper changing station with concave changing bed and housed in stainless steel shell; Model 100-SSC-SM as manufactured by Brocar Products, Inc.
- B. Construction:
 1. Body: Molded polyethylene components with foam filled core.
 2. Shell: 16 gage stainless steel with seamless welds, softened edges, and rounded plastic corners.
- C. Nominal size: [19-1/2 inches] [495 mm] wide by [19-1/2 inches] [495 mm] high and projecting [4 inches] [102 mm] when closed. When open, bed projects [19 inches] [483 mm] from back wall of station.
- D. Rated load capacity: [250 pounds.] [113 kg.]
- E. Operation: Opens and closes with pneumatic gas spring mechanism in concealed cylinder.
- F. Equip changing station with integral liner dispenser, built-in dual bag hooks, and child protection safety strap with cam buckle adjustable with one hand.

2.7 STAINLESS STEEL ADULT CHANGING STATION

******* Include the following paragraphs to specify stainless steel, horizontal, recessed mounted adult changing station designed for physically challenged persons, Model 100-**

SSE-R. *****

- A. Type: Horizontal, recessed mounted, fold down, stainless steel adult diaper changing station with concave changing bed designed for physically challenged persons; Model 100-SSE-R as manufactured by Brocar Products, Inc.
- B. Construction:
 - 1. Body: 16 gage stainless steel with seamless welds, softened edges, and rounded plastic corners.
 - 2. Replaceable tray liner: Insulating polystyrene.
- C. Nominal size: [64-1/2 inches] [1638 mm] wide by [22 inches] [559 mm] high and projecting [1 inch] [25 mm] when closed. When open, bed projects [21 inches] [533 mm] from back wall of station.
- D. Rated load capacity: [450 pounds.] [204 kg.]
- E. Operation: Opens and closes with pneumatic gas spring mechanism in concealed cylinder and stainless steel hinges.
- F. Equip changing station with protection safety strap with cam buckle adjustable with one hand.

***** **Include the following paragraphs to specify stainless steel, horizontal, surface mounted adult changing station designed for physically challenged persons, Model 100-SSE-SM.** *****

- A. Type: Horizontal, surface mounted, fold down, stainless steel adult changing station with concave changing bed designed for physically challenged persons; Model 100-SSE-SM as manufactured by Brocar Products, Inc.
- B. Construction:
 - 1. Body: 16 gage stainless steel with seamless welds, softened edges, and rounded plastic corners.
 - 2. Replaceable tray liner: Insulating polystyrene.
- C. Nominal size: [64-1/2 inches] [1638 mm] wide by [22 inches] [559 mm] high and projecting [4 inches] [102 mm] when closed. When open, bed projects [21 inches] [533 mm] from back wall of station.
- D. Rated load capacity: [400 pounds.] [181 kg.]
- E. Operation: Opens and closes with pneumatic gas spring mechanism in concealed

cylinder and stainless steel hinges.

- F. Equip changing station with protection safety strap with cam buckle adjustable with one hand.

2.8 ACCESSORIES

- A. Mounting hardware: Provide each changing station with fasteners and other hardware of type and size recommended by manufacturer for type of installation and substrate for complete secure installation.

******* Polyethylene changing stations are equipped with integral sanitary liner dispensers. Stainless stations do not have liner dispensers. Brocar Products, Inc. can provide surface mounted separate liner dispensers for use with stainless steel changing stations. Include the following paragraph if liner dispensers are required. *******

- B. Liner dispenser: Wall mounted, stainless steel sanitary liner dispenser for changing stations; Model 106-SS as provided by Brocar Products, Inc.
1. Nominal size: [10-3/4 inches] [273 mm] wide by [4 inches] [102 mm] deep by [7 inches] [178 mm] high.
 2. Capacity: 100 changing station sanitary liners.

******* Brocar Products, Inc. provides recessed stainless steel diaper vending dispensers to be installed in conjunction with changing stations. Include the following paragraph if diaper vending dispensers are required. Vending dispensers are available with free or monetary amounts from 25 cents to 3 dollars in 25 cent increments. *******

- C. Diaper vending dispenser: Stainless steel, recessed unit with [25 cents] [_____] [3 dollars] [free] operation; Model 105-SS as provided by Brocar Products, Inc.
1. Nominal size: [12-1/2 inches] [318 mm] wide by [5-1/4 inches] [133 mm] deep by [42 inches] [1067 mm] high.
 2. Capacity: 24 diaper kits.

******* Brocar Products, Inc. manufactures a child protection, wall mounted, fold down seat for securing children when parent uses toilet facilities. Include the following paragraph to specify Model 103-BQS Wall Seat. *******

- D. Wall seat: Wall mounted, fold down, polyethylene, child protection safety seat; Model 103-BQS as manufactured by Brocar Products, Inc.
1. Construction: Molded polyethylene components with foam filled core.
 2. Nominal size: [12 inches] [305 mm] wide by [15-1/4 inches] [387 mm] high

and projecting [3 inches] [76 mm] when closed. When open, seat projects [13-1/2 inches] [343 mm] from wall.

3. Rated load capacity: [80 pounds.] [36 kg.]
4. Operation: Opens and closes with pneumatic gas spring mechanism in concealed cylinder.
5. Equip wall station with child protection safety strap with cam buckle adjustable with one hand.

PART 3 - EXECUTION

3.1 PREPARATION

- A. Coordinate requirements for blocking [and construction of wall openings for recessed units].
- B. Provide templates and rough-in measurements as required.
- C. Verify with Architect exact locations of accessories.

3.2 INSTALLATION

- A. Install in accordance with manufacturer's instructions.

******* Barrier free requirements will depend on type of project and local jurisdiction. Edit and include the following paragraph if installation of changing stations and accessories need to accommodate persons with physical disabilities. *******

- B. Changing stations [wall seats,] and other accessories shall be installed to comply with requirements for accessible mounting heights, protrusions into accessible routes, and other requirements of ICC/ANSI A117.1.
- C. Install units so that they are level, plumb, and secure.
- D. After installation open and close units a minimum of 3 times. Verify units operate smoothly and properly latch. Adjust as required for proper safe use.
- E. Wash exposed surfaces using a solution of mild detergent in warm water, applied with soft, clean cloths. Do not use abrasives. Take care to remove dirt from corners.

END OF SECTION