



BRADLEY UNIVERSAL-ADULT CHANGING STATION

Guide Specification

Adult changing tables will soon be required as approved to be included in the 2024 International Building Code (IBC) and specifications (published as part of the next edition of the ICC A117.1 accessibility standard in 2023).

The following locations will be required to install Universal changing tables according to the 2024 International Building Code. <https://www.changingspacescampaign.com/building-code-explanation>.

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SECTION 10 28 14 – UNIVERSAL-ADULT CHANGING STATION

PART 1 - GENERAL

1.1 SECTION INCLUDES

- A. Universal-Adult Changing Station.
- B. Related Sections:
 - 1. Section 08 83 00 "Mirrors" for monolithic frameless glass mirrors.
 - 2. Section 10 14 23 "Room-identification Panel Signage" for room designation clearly indicating the location of the adult changing station.
 - 3. Section 10 28 13.14 "Commercial Toilet Accessories" for toilet accessories specific to public restrooms.
 - 4. Section 10 28 16 "Hospitality Toilet Accessories" for toilet accessories specific to public accommodations.
 - 5. Section 10 28 13.13.19 "Healthcare Toilet Accessories" for toilet accessories specific to healthcare facility patient care areas.
 - 6. Section 10 28 13.17 "Shower Room Accessories." for toilet accessories specific to public shower rooms.

1.2 REFERENCES

- A. General: Applicable edition of references cited in this Section is current edition published on date of issue of Project specifications, unless otherwise required by building code in force.
- B. ASTM International (ASTM) www.astm.org:
 - 1. ASTM E 84: Standard Test Method for Surface Burning Characteristics of Building Materials.
- C. International Building Code (IBC): International Building code, I-Codes, Chapter 11, Accessibility.
- D. National Electrical Manufacturers Association (NEMA) www.global.ihs.com:
 - 1. NEMA Standards Publication 250, "Enclosures for Electrical Equipment (1000 Volts Maximum)."
- E. Underwriters Laboratories (UL) www.ul.com:
 - 1. UL 94 - Standard for Safety of Flammability of Plastic Materials for Parts in Devices and Appliances Testing.
- F. International Electric Code (IEC):
 - 1. ANSI/IEC 60529-2020 - Degrees of Protection Provided by Enclosures (IP Code).
 - 2. ANSI/IEC 62262-2021 - Degrees of Protection Provided by Enclosures (IK code).

1.3 PREINSTALLATION MEETINGS

- A. Pre-installation Conference: Conduct conference at [**Project site**] <**Insert location**>.
 - 1. Structure: Capacity of wall supporting structure to secure unit to wall.
 - 2. Location: Maneuvering clearances at the adult changing location. Such maneuvering clearances shall be measured where the adult changing surface is in the operational position. (IBC 613.4.4 Maneuvering clearances.)

3. Power: Electrical source and entrance protection to comply with the immersion protection (IP) requirements.
4. Signage: Verification of room or compartment signage to be installed.

1.4 ACTION SUBMITTALS

- A. Product Data: For each product:
 1. Manufacturer's data sheets indicating enclosure materials and construction, equipment, and accessories.
 2. Include rated capacities, operating characteristics, electrical characteristics, and furnished specialties and accessories.
- B. LEED Submittals:
 1. Product Data for products having recycled content, documentation indicating percentages by weight of postconsumer and preconsumer recycled content. Include statement indicating cost for each product having recycled content.
 2. Laboratory Test Reports for adhesives and sealants, documentation indicating that products comply with the testing and product requirements of the California Department of Health Services' "Standard Practice for the Testing of Volatile Organic Emissions from Various Sources Using Small-Scale Environmental Chambers."
- C. Shop Drawings:
 1. Include plans, elevations, sections, and mounting details.
 2. Include details of electrical connections and operating parts.
 3. Include details of equipment assemblies. Indicate dimensions, weights, loads, required clearances, method of field assembly, components, and location and size of each field connection.

1.5 INFORMATION SUBMITTALS

- A. Product Test Reports: Tests performed by manufacturer and witnessed by a qualified testing agency or a qualified testing agency.
 1. Manufacturer's Certificates: Submit certificates documenting factory testing of power operated personal lift units.
- B. Sample Warranty: For manufacturer's warranty.
- C. Buy American Act Certification: Submit documentation certifying that products comply with provisions of the Buy American Act 41 U.S.C 10a – 10d.
- D. Sample Warranty: For manufacturer's extended component warranty.

1.6 CLOSEOUT SUBMITTALS

- A. Operation and maintenance data.

1.7 MAINTENANCE SUBMITTALS

- A. Furnish indicated spare parts that are packaged with identifying labels listing associated products.

1.8 QUALITY ASSURANCE

- A. Source Limitations: Obtain universal-adult changing tables through a single source from a single manufacturer.
- B. Unit shall be engineered, manufactured, and warranted serviced in the United States of America.
- C. Unit shall be listed and label per UL 962 - Product Safety and Certification Testing of Furniture by a testing agency acceptable to authorities having jurisdiction.
- D. Unit shall be listed and labeled per CSA C22.2 NO. 68-18 (R2023) - Motor-Operated Appliances (Household and Commercial).
- E. Electrical Components: Unit shall be listed and labeled per NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction.
 - 1. Direct attached actuator, permitting lag-free experience. Chain-driven models not acceptable.

1.9 WARRANTY

- A. Manufacturer's Warranty: Provide manufacturer's standard form in which manufacturer agrees to repair or replace products that fail in materials or workmanship.
 - 1. Warranty Period: Five year(s) from date of Substantial Completion.
- B. Qualifications:
 - 1. This warranty does not cover the cost of freight for defective, repaired or replacement parts, installation or any other labor charges, and does not apply to any unit that has been damaged by accident, abuse, improper installation, improper maintenance, or altered in any way.
 - 2. This warranty extends only to commercial and institutional purchasers and does not extend to any others, including consumer customers of commercial and institutional purchasers.
 - 3. This warranty does not extend to any product purchased from an unauthorized online seller (meaning any seller offering Bradley products for sale over the internet, other than those resellers identified as "authorized" at bradleycorp.com/national-distributors-and-online-retailers)
 - 4. This warranty is in lieu of all other warranties, expressed or implied, including any implied warranty of merchantability or fitness for a particular purpose.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Basis-of-Design Product: Subject to compliance with requirements, provide emergency shower enclosures manufactured by **The Bradley Corporation**, Menomonee Falls, WI 53051; (800)272-3539; Email info@BradleyCorp.com; Website www.bradleycorp.com.
 - 1. Submit requests for substitution in accordance with Instructions to Bidders and Division 01 General Requirements.

The following locations will be required to install Universal changing tables according to the 2024 International Building Code. <https://www.changingspacescampaign.com/building-code-explanation>.

2.2 UNIVERSAL-ADULT CHANGING STATION

- A. Basis of Design Manufacture/Model: **Bradley Corp. Universal-Adult Changing Table.**
- B. Product: A changing table for adult, juvenile, seniors and special needs persons. Electrically operated wall mounted floor supported lift.
- C. Specifically designed for public washrooms without attendants.

2.3 PERFORMANCE REQUIREMENTS

- A. Designed and engineered to meet the standards of the International Building Code (IBC).
- B. Unit shall be ADA compliant.
- C. Regulatory 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.
- D. Station shall be tested and listed by a testing agency acceptable to authorities having jurisdiction.
 - 1. Unit shall be IPX6 rated ANSI/IEC 60529 (Powerful water jets at any angle by 12.5 mm nozzle) confirming thorough and safe cleaning.
 - 2. Unit shall be IK10 rated ANSI/IEC 62262 (2002) (5kg mass dropped from a height of 400mm) confirming for material impact resistance.
- E. Capacities: Supports up to **500 lbs (227 Kg)**.

2.4 CONSTRUCTION

- A. Surface-Burning Characteristics: Comply with ASTM E84; testing by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.
 - 1. Changing Surface Material – ABS Plastic:
 - a. Flame-Spread Index: 25 or less.
 - b. Smoke-Developed Index: 50 or less.
- B. Dimensional Characteristics:
 - 1. Closed unit projects from wall **9.5 inches (241mm)**.
 - 2. Open changing surface projects **41 inches (1041.4mm)**.
 - 3. Overall table surface size: **76.6 inches x 34.75 inches (1946mm x 883mm)**.
 - 4. Usable tray size: **70.5 inches x 30.125 inches (1791mm x 765mm)**.
 - 5. Height adjustability range: **16 inches to 39 inches (406mm x 991mm)**.
 - 6. Tray depth: **9.5 inches (241mm)** when closed, **40 inches (1016mm)** when open.
- C. Operating Range:
 - 1. Temperature: **40°F to 95°F (5°C to 35°C)**.
 - 2. Relative Humidity: 0% to 80% @ **85°F (30°C)** (non-condensing).
 - 3. Height Above Sea Level: Max **9,800 feet (2,987Meters)**.
- D. Materials:

1. Changing Surface: Vacuum-formed surface shall be made of ABS plastic resisting bacteria without added chemicals.
2. Changing surface shall have no exposed fasteners, cracks or crevices.
3. Shroud/Enclosure: The unit shroud shall be made of 304 brushed stainless steel.
4. Frame: Powder coated steel structural frame.
5. Changing Surface Finish: Silver.
6. Changing Surface Finish: White.

2.5 COMPONENTS

A. Motors:

1. Source: 120v 20A GFCI protected outlet or circuit.
2. Direct attached actuator ensuring a smooth, lag-free start/stop.
3. Provide an appropriate electrical outlet cover or entrance seal to maintain the water ingress (IP) rating of the station.

2.6 CONTROLS AND SAFETIES

A. Controls:

1. Control buttons located on front and side of changing table for height adjustments, transfers and positioning.

B. Safety:

1. Automatic retracting feature stops operation and reverses direction when an obstruction is detected.
2. "Soft-plunge" tray, safety sensor, indicator lights and sound warning.
3. Battery backup to ensure safe use in power outage situations.
4. Indicator lights and sound offers an extra layer of safety assurance.

2.7 ACCESSORIES

- A. Signage indicating the weight capacity and instructions for operation of the changing station within the room or compartment.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Install as required by manufacturer.
- B. Provide electrical connections to station and associated fittings in accordance with manufacturer's instructions.
- C. Install unit level, plumb, and anchored firmly in place in accordance with manufacturer's rough-in drawings.

3.2 CLEANING AND PROTECTION

- A. Repair or replace defective work, including damaged fixtures and components.
- B. Clean unit surfaces, test fixtures, and leave in ready-to-use condition.
- C. Turn over tools, maintenance instructions to Owner.

3.3 TESTING AND ADJUSTING

- A. Test and adjust installation.

END OF SECTION