## CALIFORNIA ACCESSIBILITY REQUIREMENTS CHAPTER 11B, 2010 CBC

- 1103B BUILDING ACCESSIBILITY
- 1103B.1 SCOPE. Accessibility to buildings or portions of buildings shall be provided for all occupancy classifications except as modified or enhanced by this chapter. Occupancy requirements in this chapter may modify general requirements, but never to the exclusion of them. When a building or facility contains more than one use, the occupancy specific accessibility provisions for each portion of the building or facility shall apply.
  - An accessible route of travel complying with Section 1114B.1.2 shall connect elements and spaces within a building or facility. Multistory buildings and facilities must provide access to each level, including mezzanines, by ramp or passenger elevator complying with Section 1116B. If more than one elevator is provided, each passenger elevator shall comply with Section 1116B.
- 1114B FACILITY ACCESSIBILTY
- I114B1.2 ACCESSIBLE ROUTE OF TRAVEL. When a building, or portion of a building, is required to be accessible or adaptable, an accessible route of travel complying with Sections 1102B, 114B, 1133B.3, 1133B.5, 1133B7, and 1133B.8.6 shall be provided to all portions of the building to accessible building entrances and between the building and the public way. Except within an individual dwelling unit, an accessible route of travel shall not pass through kitchens, storage rooms, restrooms, closets or other spaces for similar purposes. At least one accessible route within the boundary of the site shall be provided from public transportation stops, accessible parking and accessible passenger loading zones and public streets or sidewalks to the accessible building entrance they serve. The accessible route shall, to the maximum extent feasible, coincide with the route for the general public. At least one accessible route shall connect accessible buildings, facilities, elements and spaces that are on the same site. At least one accessible route shall connect accessible building or facility entrances with all accessible spaces and elemets and with all accessible dwelling units within the building or facility. An accessible route shall connect at least one accessible entrance of each accessible dwelling unit with those exterior and interior spaces and facilities that serve the accessible dwelling unit. Where more than one route of travel is provided, all routes shall be accessible.
- 1115B BATHING AND TOILET FACILITIES (SANITARY FACILITIES)
- 1115B.1 GENERAL. Bathing and toilet facilities that serve buildings, facilities or portion of buildings or facilities that are required by these standards to be accessible to persons with disabilities, shall be on an accessible route and shall conform to the following requirements. The accessible fixtures and controls required in this section shall be on an accessible route. An unobstructed turning space complying with Section 1115B.3.1, Item 1, or 1115B.3.2, Item1, as applicable, shall be provided within an accessible toilet facility. The clear floor spaces at fixtures and controls, the accessible route and the turning space may overlap.
- 1115B.1.1 SEPARATE AND UNISEX FACILITIES. Where separate facilities are provided for persons of each sex shall be accessible to persons with disabilities. where unisex facilities are provided, these facilities shall be accessible to persons with disabilities.
- 1115B.2 BATHING AND SHOWER FACILITIES. Where facilites for bathing are provided for the public, clients or employees, including showers or bathtubs, at least on shower or bathtub and support facilities such as lockers, and not less than 1 percent of all facilities, shall be accessible and conform to the following standards:
- SHOWER AREAS. Showers in all occupancies shall be finished as specified in Section 1115B.3.1, Item 6 to a height of not less than 70 inches (1778mm) above the drain inlet. Materials other than structural elements used in such walls shall be a type which is not adversely affected by moisture.
- DOORS AND PANELS. Doors and panel of shower and bathtub enclosures shall be substantially constructed from approved. shatter—resistant materials. Hinged shower doors shall open outward.
- GLAZING FOR SHOWER AND BATHTUB ENCLOSURES. Glazing used in doors and panels of shower and bathtub enclosures shall be fully tempered, laminated safety glass or approved plastic. When glass is used, it shall have minimum thickness of not less than 1/8 inch (3.2mm) when fully tempered, or 1/4 inch (6.4mm) when laminated, and shall pass the test requirements of Section 2406.
- PLASTICS. Plastics used in doors and panels of showers and bathtub enclosures shall be a shatter-resistant type.
- 1115B.3 TOILET FACILITIES
- 1115B.3.1 MULTIPLE—ACCOMMODATION TOILET FACILITIES. Multiple-accommodation toilet facilities shall have the following:
- WHEELCHAIR CLEARANCE. A clear space measured from the floor to a height of 27" (686mm) above the floor, within the sanitary facility room, of sufficient size to inscribe a circle with a diameter not less than 60 inches (1524mm) in size. Other than the door to the accessible water closet compartment, a door, in any position, may encroach into this space by not more than 12 inches (305mm).
- CLEAR FLOOR SPACE AT FIXTURES. Doors shall not swing into the clear floor space required for any fixture.
- ACCESSIBLE WATER CLOSET. Provide a minimum of one accessible water closet in compliance with Section 1115B4.1.
- ACCESSIBLE WATER CLOSET COMPARTMENT. Accessible water closet compartments shall comply with the following:
- 4.1. The compartment shall be a minimum or 60 inches (1524mm)
- 4.2. If the compartment has a side—opening door, a minimum 60 inch wide (1524mm) and 60-inches-deep (1524mm) clear floor space shall be provided in front of the water closet.
- 4.3. If the compartment has an end-opening door (facing the water closet), a minimum 60-inches-wide (1524mm) and 48-inches deep (1219mm) clear floor space shall be provided in front of the water closet. The door shall be located in front of the clear floor space and diagonal to the water closet, with a maximum stile width of 4 inches (102mm).
- 4.4. The water closet compartment shall be equipped with a door that has an automatic-closing device, and shall have a clear, unobstructed opeining width of 32 inches (813mm) when located at the end and 34 inches (864mm) when located at the side with the door positioned at an angle of 90 degrees from its closed position.
- 4.5. The inside and outside of the compartment door shill be equipped with a loop or U—shaped handle immediately below the latch. The latch shall be flip-over style, sliding or other hardware not requiring the user to grasp or twist. Except for door-opening widths and door swings, a clear, unobstructed access of not less than 44 inches (1118mm) shall be provided to water closet compartments designed for use by persons with disabilities. Maneuvering space at the compartment door shall comply with Sections 1133B2.4.2 and 1133B2.4.3, except that the space immediately in front of a water compartment shall not be less than 48 inches (1219mm) as measured at right angles to the compartment door in its closed position.

- LARGE TOILET ROOMS. Where six or more compartments are provided within a multiple-accommodation toilet room, at least one compartment shall comply with items 3 and 4 above, and at least one additional ambulatory accessible compartment shall be 36 inches (914mm) wide with an outward swinging self—closing door and parallel grab bars complying with Section 1115B.4.1, Item 3.
- INTERIOR SURFACES. In other than dwelling units, toilet room floors shall have a smooth, hard nonabsorbent surface such as Portland cement, concrete, ceramic tile or other approved material which extends upward onto the walls at least 5 inches (127mm). Walls within water closet compartments and walls within 24 inches (610 mm) of the front and sides of urinals shall be similarly finished to a height of 48 inches (1219 mm) and, except for structural elements, the materials used in such walls shall be a type which is not adversely affected by moisture.
- 1115B.3.2 SINGLE-ACCOMMODATION TOILET FACILITIES. Single—accommodation toilet facilities shall have the following:
- WHEELCHAIR CLEARANCE. There shall be sufficient space in the toilet room for a wheelchair measuring 30 inches (762mm) wide by 48" inches (1219mm) long to enter the room and permit the door to close. There shall be in the room a clear floor space of at least 60 inches (1524mm) in diameter, or a T-shaped space complying with Figure 11B-12 (a) and (b). No door shall encroach into this space for more than 12 inches (305mm). See Figure 11b-1A.
- CLEAR FLOOR SPACE AT FIXTURES. Doors shall not swing into the clear floor space required for any fixture.
- ACCESSIBLE WATER CLOSET. Provide one accessible water closet in compliance with Section 1115B.4.1.
- ACCESSIBLE ROUTE. All doors, fixtures and controls shall be on an accessible route. The minimum clear width of an accessible route shall be 36 inches (814mm) except at doors (see Section 1133B.2). If a person in a wheelchair must make a turn around an obstruction, the minimum clear width of the accessible route shall be as shown in Figure 11b-5E. See also Figure 11b-1A.
- INTERIOR SURFACES. In other than dwelling units, toilet room floors shall have a smooth, hard nonabsorbent surface such as Portland cement, concrete, ceramic tile or other approved material which extends upward onto the walls at least 5 inches (127mm). Walls within water closet compartments and walls within 24 inches (610 mm) of the front and sides of urinals shall be similarly finished to a height of 48 inches (1219 mm) and, except for structural elements, the materials used in such walls shall be a type which is not adversely affected by moisture.
- ACCESSIBLE LAVATORY. Provide one accessible lavatory in compliance with Section 1115B.4.3.
- PRIVACY LATCH. The entrance door shall contain a privacy latch which complies with Section 1117B.6, Controls and Operating Mechanisms.

### 1115B.4 ACCESSIBLE FIXTURES

- 1115B.4.1 ACCESSIBLE WATER CLOSETS. Water closets required to be accessible shall comply with this subsection:
- The centerline of the water closet fixture shall be 18 inches (457mm) from the side wall or partition. On the other side of the water closet, provide a minimum of 28 inches (711mm) wide clear floor space if the water closet is adjacent to a fixture or a minimum of 32 inches (813mm) wide clear floor space if the water closet is adjacent to a wall or partition. This clear floor space shall extend from the rear wall to the front of the water closet.
- A minimum 60 inches (1524mm) wide and 48 inches (1219mm) deep clear floor space shall be provided in front of the water closet.
- 3. Grab bars for water closets not located with a compartment shall comply with Section 1115B.7 and shall be provided on the side wall closest to the water closet and on the rear wall. Grab bars for water closets located within an accessible compartment shall comply with Section 1115B.7 and shall be provided on the side wall closets located within ambulatory accessible compartments shall comply with Section 1115B.7 and shall be provided on both sides of the compartment.
- Grab bars shall not project more than 3 inches (76mm) into the required clear floor space.
- 3.1 SIDE WALLS. The side grab bar shall be 42 inches (1067mm) long minimum, located 12 inches (305mm) maximum from the rear wall and extend 54 inches (1372mm) minimum from the rear wall with the front end positioned 24 inches (610mm) minimum in front of the water closet. The side grab bar shall be securely attached and centered 33 inches (838mm) above and parallel to the floor.
- 3.2 REAR WALL. The rear grab bar shall be 36 inches (914mm) long minimum and extend from the centerline of the water closet 12 inches (305mm) minimum on one side and 24 inches (610mm) minimum on the other side. The rear grab bar shall be securely attached and centered 33 inches (838mm) above and parallel to the floor, except that where a tank-type toilet is used which obstructs placement at 33 inches (838mm), the grab bar may be as high as 36 inches (914mm) and the space between the grab bar and the top of the tank shall be 1 1/2 inches (38mm)
- 4. The height of accessible water closets shall be a minimum of 17 inches (432mm) and a maximum of 19 inches (483mm) measured to the top of a maximum 2—inch (51mm) high toilet seat.
- Exception: A 3-inch (76mm) high seat shall be permitted only in alterations where the existing fixture is less than 15 inches (381mm) high.
- Controls shall be operable with one hand and shall not require tight grasping, pinching or twisting, Controls for the flush valves shall be mounted on the wide side of toilet areas, no more than 44 inches (1118mm) above the floor. The force required to activate controls shall be not greater than 5 pounds—force.
- 6. See Section 1134A.7 for additional requirements for water closets in publicly funded housing and all non—residential occupancies.
- 7. Automatic spring to lifted position seats are not allowed.
- 1115B.4.2 ACCESSIBLE URINALS. Urinals required to be accessible shall comply with this subsection.
- 1. Urinals shall be floor mounted, stall—type or wall hung. Where one or more wall—hung urinals are provided, at least one with an elongated rim projecting a minimum of 14 inches (356mm) from the wall and a maximum of 17 inches (432mm) from the wall and a maximum of 17 inches (432mm) above the floor shall be provided.
- 2. Flush controls shall be operable with one hand and shall not require tight grasping, pinching or twisting of the wrist and shall be mounted no more than 44 inches (1118mm) above the floor. The force required to activate controls shall be no greated than 5 pounds. Electronic automatic flushing controls are acceptable and and preferable.
- Where urinals are provided, at least one shall have a clear floor space 30 inches (762mm) by 48 inches (1219mm) in front of the urinal to allow forward approach. This clear space shall comply with Section 1118B.4.

- 1115B.4.3 ACCESSIBLE LAVATORIES. Lavatories required to be accessible shall comply with this subsection. The requirements of this subsection shall apply to lavatory fixtures, vanities and built—in layatories.
- 1. Faucet controls and operating mechanisms shall be operable with one hand in accordance with this chapter and shall not require tight grasping, pinching or twisting of the wrist. The force required to activate controls shall be no greater than 5 pounds. Lever-operated, push-type and electronically controlled mechanisms (preferable) are examples of acceptable designs. Self-closing valves are allowed if the faucet remains open for at least 10 seconds.
- 2. Lavatories, when located adjacent to a side wall or partition shall be a minimum of 18 inches (457mm) to the centerline of the fixture. All lavatories that are designated to be accessible shall be a minimum 17inches (432mm) in horizontal depth and mounted with the rim or counter edge no higher than 34 inches (864mm) above the finished floor and with vertical clearence measured from the bottom of the apron or the outside bottom edge of the lavatory of 29 inches (737mm) reducing to 27 inches (686mm) at a point located 8 inches (203mm) back from the front edge. In addition, a minimum 9—inch—high (230mm) toe clearance must be provided extending back toward the wall to a distance no more than 6 inches (150mm) from the back wall. The toe clearance space must be free of equipment or obstructions.
- . A clear floor space 30 inches (762mm) by 48 inches (1219mm) complying with Section 1118B.4 shall be provided in front of a lavatory to allow forward approach. Such clear floor space shall adjoin or overlap an accessible route and shall extend a maximum of 19 inches (483mm) into knee and toe space underneath the lavatory. See Figure 11B-1D. Knee Clearance.
- 4. Hot water and drainpipes accessible under lavatories shall be insulated or otherwise covered. There shall be no sharp or abrasive surfaces under lavatories
- 1115B.4.4 ACCESSIBLE SHOWERS. Showers required to be accessible shall comply with this subsections:

1115B.4.4.1 SIZE AND CLEARANCES. Accessible showers shall comply

- with one of the following: Roll-in shower 60 inches (1524mm) minimum in width between wall surfaces and 30 inches (762mm) minimum in depth with a full opening width on the long side. Shower compartment size and clear floor space
- Alternate roll-in shower 60 inches (1524mm) minimum in width between wall surfaces and 36 inches (914mm) in depth with an entrance opening width of 36 inches (914mm) minimum. Shower compartment size and clear floor space shall comply with Figure 11B-2B.

shall comply with Figure 11B-2A.

Figure 11B-2C.

- Alternate roll-in shower 60 inches (1524mm) minimum in width between wall surfaces and 36 inches (914mm) minimum in depth as long as the entrance opening width is a minimum 36 inches (914mm). Shower compartment size and clear floor space shall comply with
- 1115B.4.4.2 THRESHOLDS. Thresholds in roll—in type showers shall be 1/2 inch (12.7mm) high maximum and shall comply with
- 1115B.4.4.3 ORIENTATION. Where, within the same functional area, two or more accessible showers are provided, there shall be at least one shower constructed opposite hand from the other or others (that is, one left-hand controls versus right-handed
- 1115B.4.4.4 WATER CONTROLS. water controls shall be of a single—lever design, operable with one hand, and shall not require tight grasping, pinching or twisting of the wrist. The force required to activate controls shall be no greater than 5 pounds. The centerline of the controls shall be located at 40 inches (1016mm) above the shower floor.
- Controls in a 60-inch (1524mm) minimum by 30 inch (762mm) minimum roll-in shower shall be located on the back wall of the compartment adjacent to the seat and the centerline of the controls shall be within a range of no less than 19 inches (457mm) and no more than 27 inches (610mm) from the seat wall as shown in Figure 11B-2A.
- 2. Controls in a 60—inch (1524mm) minimum by 36 inch (914mm) minimum alternate roll—in shower shall be located on the side wall of the compartment adjacent to the seat and the centerline of the controls shall be within a range of no less than 19 inches (457mm) and no more than 27 inches (610mm) from the seat wall as shown in Figure 11B-2A.
- 6. Controls in a 60—inch (1524mm) minimum by 36 inch (914mm) minimum alternate roll—in shower with optional enclosure shall be located on the back wall of the compartment adjacent to the seat and the centerline of the controls shall be within a range of no less than 19 inches (457mm) and no more than 27 inches (610mm) from the seat wall as shown in Figure 11B-2C.
- 1115B.4.4.5 HAND-HELD SPRAYER UNIT. A flexible hand-held sprayer unit with a hose at least 60 inches (1524mm) long that can be used both as fixed shower head and as a hand-held shower shall be provided. This unit shall be mounted such that the top of the mounting bracket is a maximum height of 48 inches (1219mm) above the shower floor.
- Handheld sprayer unit in a 60 inch (1524mm) minimum by 30 inch (762mm) minimum roll—in shower shall be located on the back wall of the compartment adjacent to the seat and the centerline of the unit shall be no more than 27 inches (610mm) from the seat wall as shown in Figure 11B-2A.
- Handheld sprayer unit in a 60 inch (1524mm) minimum by 36 inch (914mm) alternate roll—in shower shall be located on the side wall of the compartment adjacent to the seat and the centerline of the unit shall be no more than 18 inches (457mm) from the seat wall as shown in Figure 11B-2B.
- 6. Handheld sprayer unit in a 60 inch (1524mm) minimum by 36 inch (914mm) minimum alternate roll—in shower with optional enclosure shall be located on the back wall of the compartment adjacent to the seat and the centerline of the unit shall be no more than 27inches (610mm) from the seat wall as shown in Figure 11B-2C.
- 1115B.4.4.7 FLOOR SLOPE. The maximum slope of the floor shall be 2 percent in any direction. Where drains are provided, grate openings shall be maximum of 1/4 inch (6.4mm) and located flush with the floor surface.
- 1115B.4.4.8 SHOWER ACCESSORIES. Shower accessories shall include : 1. A folding seat mounted 18 inches (457mm) above the floor, and with a minimum space of 1 inch (25mm) and maximum space of 1 1/2 inches (38mm) allowed between the edge of the seat and any wall. When folded, the seat shall not extend more than 6 inches (152mm) from the mounting wall. The seat dimensions and mounting position shall comply with Figures 11B-2A, 11B-2B, 11B-2C, and 11B-2D. The structural strength of seats and their attachments shall comply with Section 1115B.7.2.
- 2. Grab bars located on walls adjacent to and opposite the seat. Grab bars shall also comply with the diameter, loading and projection requirements of Section 1115B.7. Grab bars shall be mounted between a minimum of 33 inches (838mm) and a maximum of 36 inches (914mm) above the shower floor with an L-shaped grab bar mounted on walls opposite and adjacent to the front edge of the seat, but not extended to include that portion of wall over the seat. See Figure 11B-2A or 11B-2B.

- 1115B.4.4.9 SOAP DISH. When a soap dish is provided, it shall be located on the control wall at maximum height of 40 inches (1016mm) above the shower floor, and within reach limits from the seat.
- 1115B.4.6 ACCESSIBLE DRINKING FOUNTAINS. Where drinking fountains are provided, they shall comply with this section:
- 1. GENERAL. Where only one drinking fountain area is provided on a floor, there shall be a drinking fountain that is accessible to individuals who use wheelchairs in accordance with this section and one accessible to those who have difficulty bending or stooping. This can be accommodated by the use of "hi-low" fountains. or by such other means as would achieve the required accessibility
- for each group on each floor. Where more than one drinking fountain is provided on a floor, 50 percent of those provided shall comply with Items 1, 2, 4 and 5 of this section and shall be on an accessible route complying with Section 1114B.1.2. All drinking fountains shall comply with Item 3 of this section.
- 2. CLEARANCES. Wall and post—mounted cantilevered drinking fountains shall be minimum of 18 inches (457mm) and a maximum of 19 inches (483mm) in depth and shall have a clear knee space between the bottom of the apron and the floor or ground not less than 27 inches (686mm) in height, 30 inches (762mm) in width, and 8 inches (203mm) in depth, the depth measuirements being taken from the front edge of the fountain back toward the wall or mounting post. The knee clearance space must be free of equipment or obstructions. Additionally, there shall be toe clearance of 9 inches (229mm) in height above the floor and 17 inches (432mm) in depth from the front edge of the fountain. The toe clearance space must be free of equipment or obstructions. A clear floor space at least 30 inches (762mm) by 48 inches (1219mm) complying with Section 1118B.4 shall be provided in front of the drinking fountain to allow forward approach. A side approach drinking fountain is not acceptable.
- 3. ALCOVES. All drinking fountains shall be located completely within alcoves or otherwise positioned so as not to encroach into pedestrian ways. The alcove in which the drinking fountain is located shall not be less than 32 inches (813mm) in width and 18 inches (457mm) in depth. See Figure 11B-3 of this code. Additionally, alcoves shall comply with Section 1118B.4, Item 2. Protruding objects located in alcoves or otherwise positioned so as to limit encroachment into pedestrian ways are permitted to project 4 inches (102mm) into walks, halls, corridors, passageways or aisles.
- 4. The bubbler shall be activated by a manually operated system complying with Section 1117B.6, Item 4 that is front mounted or side mounted and located within 6 inches (152mm) of the front edge of the fountain or an electronically controlled device (preferably). The bubbler outlet orifice shall be located within 6 inches (152mm) of the front edge of the drinking fountain and within 36 inches (914mm) of the floor. The water stream from the bubbler shall be substantially parallel to the front edge of the drinking fountain.
- 5. The spout shall provide a flow of water at least 4 inches (102mm) high so as to allow the insertion of a cup or glass uner the flow of water. On an accessible drinking fountain with a round or oval bowl, the spout must be positioned so the flow of water is within 3 inches (75mm) of the front edge of the fountain. 6 inches (152mm) of the front edge of the drinking fountain

### 1115B.4.7 ACCESSIBLE SINKS.

- ACCESSIBLE KITCHEN SINKS. A clear floor space at least 30 inches (762mm) by 48inches (1219mm) complying with Section 1118B.4 shall be provided in front of sink to allow forward approach. The clear floor space shall be on an accessible route and shall extend a maximum of 19 inches (485mm) underneath the sink (see Fighre 11B-1D).
- Each accessible sink shall be a maximum of 6 1/2 inches (165mm) deep. Sinks shall be mounted with the counter rim no higher than 34 inches (865mm) above the finish floor. Knee clearance that is at least 27 inches (685mm) high, 30 inches (762mm) wide and 19 inches (485mm) deep shall be provided underneath sinks. Hot water and drain pipes exposed under sinks shall be insulated or otherwise configured so as to protect against contact. There shall be no sharp or abrasive surfaces under sinks.
- Faucet controls and operating mechanisms shall be operable with one hand and shall not require tight grasping, pinching or twisting of the wrist. The force required to activate controls shall be not greater than 5 pounds. Lever-operated, push-type and electronically controlled mechanisms are examples of acceptable designs. Self-closing valves are allowed if the faucet remains open for at least 10 seconds.
- . NONCOMMERCIAL KITCHEN AND COUNTER BAR SINKS. A clear floor space at least 30 inches (762mm) by 48 inches (1219 mm) complying with Section 1118B.4 shall be provided in front of a sink to allow forward approach. The clear floor space shall be on an accessible route and shall extend a maximum of 19 inches (485mm) underneath the sink (see Figure 11B-1D).
- Each accessible sink shall be a maximum of 6 1/2 inches (165mm) deep. Sinks shall be mounted with the counter rim no higher than 34 inches (865mm) above the finish floor. Knee clearance that is at least 27 inches (685mm) high, 30 inches (762mm) wide and 19 inches (485mm) deep shall be provided underneath sinks. Hot water and drain pipes exposed under sinks shall be insulated or otherwise configured so as to protect against contact. There shall be no sharp or abrasive surfaces uner sinks.
- Kitchen and counter bar sinks located in common use areas shall have faucet controls and operating mechanisms operable with one hand in accordance with this chapter and shall not require tight grasping, pinching or twisting of the wrist. The force required to activate controls shall be no greater than 5 pounds. Lever-operated, push—type and electronically controlled mechanisms are examples of acceptable designs.
- 1115B.5 PASSAGEWAYS. Passageways leading to sanitary facilities shall have a clear access. All doorways leading to such sanitary facilities shall comply with Section 1133B.2, Doors. Doors shall not swing into the clear floor space required for any fixture. Accessible fixtures and controls shall be on an accessible route.
- 1115B.6 IDENTIFICATION SYMBOLS. Doorways leading to men's sanitary facilities shill be identified by an equilateral triangle, 1/4 inch (6.4mm) thick with edges 12 inches (305mm) long and a vertex pointing upward. Women's sanitary facilities shall be identified by a circle, 1/4 inch (6.4mm) thick and 12 inches (305mm) in diameter. Unisex sanitary facilities shall be identified by a circle, 1/4 inch (6.4mm) thick, 12 inches (305mm) in diameter with a 1/4inch (6.4mm) thick triangle superimposed on the circle and within the 12 inch (305mm) diameter. These geometric symbols shall be centered on the door at a height of 60 inches (1524mm) and their color and contrast shall be distinctly different from the color and contrast of the door. See also Section 1117B.5.1, Item 1 for additional signage requirements applicable to sanitary facilities.
- 1115B.7 GRAB BARS, TUB AND SHOWER SEATS. All grab bars, tub and shower seats shall comply with this section.

- 1115B.7.1 DIAMETER OR WIDTH. The diameter or width of the gripping surfaces of a grab bar shall be 1 1/4 inch (32mm) to 1 1/2' (38mm) or the shape shall provide an equivalent gripping surface. If grab bars are mounted adjacent to a wall, the space between the wall and the grab bars shall be  $1 \frac{1}{2}$  inches (38mm). See Figure 11B-1C.
- 1115B.7.2 STRUCTURAL STRENGTH. The structural strength of grab bars, tub and shower seats, fastener and mounting devices shall meet the following specifications:
- Bending stress in a grab bar or seat induced by the maximum bending moment from the application of a 250 pound point load shall be less than the allowable stress for the material of the grab bar
- Shear stress induced in a grab bar or seat by the application of a 250 pound point load shall be less than the allowable shear stress for the material of the grab bar or seat, and its mounting bracket or other support is considered to be fully restrained, then direct and torsional shear stresses shall not exceed the allowable shear stress.
- Shear force induced in a fastener or mounting device from the application of 250 pound point load shall be less than the allowable lateral load of either the fastener or mounting device or the supporting structure, whichever is the smaller allowable load.
- Tensile force induced in a fastener by a direct tension force of a 250 pound point load, plus the maximum moment from the application of a 250 pound point load, shall be less than the allowable withdrawal load between the fastener and supporting structure. Shear stresses shall not exceed the allowable shear stress.
- 5. Grab bars shall not rotate within their fittings.
- 1115B.7.3 SURFACE. A grab bar and any wall or other surface adjacent to it shall be free of any sharp or abrasive elements. Edges shall have a minimum radius of 1/8 inch (3.2mm).
- 1115B.8 ACCESSORIES
- 1115B.8.1 MIRRORS. Mirrors shall be mounted with the bottom edge of the reflecting surface no higher than 40 inches (1016mm) from
- 1115B.8.2 MEDICINE CABINETS. if medicine cabinets are provided, at least one shall be located with a usable shelf no higher than 44 inches (1118mm) above the floor. A clear floor space 30 inches (762mm) by 48 inches (1219mm) complying with Section 1118B.4 shall be provided in front of a medicine cabinet to allow a forward or parallel approach.
- 1115B.8.3 TOWEL, SANITARY NAPKINS, WASTE RECEPTACLES, DISPENSERS AND CONTROLS. Where towels, sanitary napkins, waste receptacles, dispensers, other equipment and controls are provided, at least one of each type shall be located on an accessible route, with all operable parts, including coin slots, within 40 inches (1016mm) from the finished floor and shall comply with Section 1117B.6, Controls and Operating Mechanisms.
- 1115B.8.4 TOILET TISSUE DISPENSERS. Toilet tissue dispensers shall be located on the wall within 12 inches (305mm) of the front edge of the toilet seat, mounted below the grab bar, at a minimum height of 19 inches (485mm) and 36 inches (914mm) maximum to the far edge from the rear wall. Dispensers that control delivery or that do not permit continuous paper flow shall not be used. See Figure 11B-1A.
- 1115B.8.5 LOCKERS. Where lockers are provided for the public, clients, empolyees, members or participants, at least one locker and not less than 1 percent of all lockers shall be made accessible to persons with disabilities. A path of travel not less than 36 inches (914mm) in clear width shall be provided to these lockers.
- 1117B.5 SIGNS AND IDENTIFICATION. Californias's standards for signage are more stringent and are significantly larger and wider than federal law. Americans with Disabilities Act (ADA) Section 4.30.
- 1117B.5.1 GENERAL. When new or additional signs and / or identification devices are provided, or when existing signs and / or identification devices are replaced or altered, the new or altered signs and / or identification devices shall comply with Section 1117B.5. The addition of or replacement of signs and / or identification devices shall not trigger any additional path of travel requirements.
- IDENTIFICATION SIGNS. When signs identify permanent room and spaces of a building or site, they shall comply with Section 1117B.5.2, 1117B.5.3, 1117B.5.5, 1117B.5.6, and 1117B.5.7. For other means of egress signs and identification provisions adopted by SFM and DSA-AC, see Chapter 10, Sections 1011.3 for tactile exit signs, 1020.1.6.2 for tactile floor designation signs in stairways, 1008.1.8.6, Item 5 for delayed egress locks, 1007.6.5 for areas of refuge and 1007.7 for exits and elevators. See also Section 1116B for additional signage requirements applicable to elevators and Section 1115B.6 for sanitary facilities.
- DIRECTIONAL AND INFORMATIONAL SIGNS. When signs direct to or give information about permanent rooms and functional spaces of a building or site, they shall comply with Sections 1117B.5.2, 1117B.5.3
- ACCESSIBILITY SIGNS. When signs identify, direct to or give information about accessible elements and features of a building or site, they shall include the appropriate symbol of accessibility and shall comply with Sections 1117B.5.2 and 1117B.5.8.
- 4. PLAN REVIEW AND INSPECTIONS. Signs and identification as specified in Section 1117B.5.1, when included in the construction of new buildings or facilities, or when included, altered or replaced due to additions, alterations or renovations to existing buildings or facilities, and when a permit is required, shall comply with the following plan review and inspection requirements:
- 4.1 PLAN REVIEW. Plans, specifications or other information indicating compliance with these regulations shall be submitted to the enforcing agency for review and approval.
- 4.2 INSPECTION. Signs and identification shall be field inspected after installation and approved by the enforcing agency prior to the issuance of a final certificate of occupancy per Appendix Chapter 1, Section 110.2, or final approval where no certificate of occupancy is issued. The inspection shall include, but not be limited to, verification that Braille dots and cells are properly spaced and the size, proportion and type of raised characters are in compliance with these regulations.
- 4.3 OTHER SIGNS AND IDENTIFICATION. Tactile exit signage in Section 1011.3 and 1011.3.2, tactile floor designations signs in stairways in Section 1020.1.6, tactile special egress control device signs in Section 1008.1.8.6, Item 5, elevator car control identification required in Section 1116B.1, elevator doorjamb marking required in Section 1116B.1.14 and sanitory facilities signage required in Section 1115B.6 shall also comply with this
- 1117B.5.2 FINISH AND CONTRAST. Characters, symbols and their background shall have a nonglare finish. Characters and symbols shall contrast with their background, either light on a dark background or dark on a light background.
- 1117B.5.3 PROPORTIONS. Characters on signs shall have a width—to—height ratio of between 3:5 and 1:1 and a stroke width—to—height ration of between 1:5 and 1:10.

- 1117B.5.4 CHARACTER HEIGHT. Characters and numbers on signs shall be sized according to the viewing distance from which they are to be read. The minimum height is measured using an uppercase X. Lowercase characters are permitted. For signs suspended or projected above the inish floor in compliance with Section 1133B.8.6, the minimum character height shall be 3 inches (76mm).
- 1117B.5.5 RAISED CHARACTERS AND PICTORIAL SYMBOL SIGNS. When raised characters are required or when pictorial symbols (pictograms) are used on such signs, they shall conform to the following requirements :
- 1. CHARACTER TYPE. Characters on signs shall be raised 1/32 inch (.0794mm) minimum and shall be sans serif uppercase characters accompanied by grade 2 Braille complying with Section 1117B.5.6.
- 2. CHARACTER SIZE. Raised characters shall be a minimum of 5/8 inch (15.9mm) and a maximum of 2 inches (51mm) high.
- 3. PICTORIAL SYMBOL SIGNS (PICTOGRAMS). Pictorial symbol signs (pictograms) shall be accompanied by the verbal description placed directly below the pictogram. The outside dimension of the pictogram field shall be a minimum of 6 inches (152mm) in height.
- 4. CHARACTER PLACEMENT. Characters and Braille shall be in a horizontal format. Braille shall be place a minimum of 3/8 inch (9.5mm) and a maximum of 1/2 inch (12.7mm) directly below the tactile characters; flush left or centered. When tactile text is multilined, all Braille shall be placed together below all lines of tactile text.
- 1117B.5.6 BRAILLE. Contracted Grade 2 Braille shall be used wherever Braille is required in other portions of these standards. Dots shall be 1/10 inch (2.54mm) on center in each cell with 2/10 inch (5.08mm) space between cells, measured from the second column of dots in the first cell to the first column of dots in the second cell. Dots shall be raised a minimum of 1/40 inch (0.535mm) above the background. Braille dots shall be domed or rounded.
- 1117B.5.7 MOUNTING LOCATION AND HEIGHT. Where permanent identification signs are provided for rooms and spaces, signs shall be installed on the wall adjacent to the latch side of the door. Where there is no wall space on the latch side, including at double leaf doors. signs shall be placed on the nearest adjacent wall, preferably on
  - Where permanent identification signage is provided for room and spaces they shall be located on the approach side of the door as one enters the room or space. Signs that identify exits shall be located on the approach side of the door as one exits the room or space.
  - Mounting height shall be 60 inches (1524mm) above the finish floor to the center line of the sign. Mounting location shall be determined so that a person may approach within 3 inches (76mm) of signage without encountering protruding objects or standing within the swing of a door. See also Section 1115B.6 for additional signage requirements
- applicable to sanitary facilities.

1117B.5.8 SYMBOLS OF ACCESSIBILITY

- 1117B.5.8.1 INTERNATIONAL SYMBOL OF ACCESSIBILITY. The International Symbol of Accessibility shall be the standard used to identify facilities that are accessible to and usable by physically disabled persons as set forth in these building standards and as specifically required in this section. See Figure 11B-6.
- 1117B.5.8.1.1 COLOR OF SYMBOL. The symbol specified above shall consist of a white figure on a blue background. The blue shall be equal to Color No. 15090 in Federal Standard 595B.
- 1117B.5.8.1.2 ENTRANCE SIGNS. All building and facility entrances that are accessible to and usable by persons with disabilities shall be identified with a minimum of one International Symbol of Accessibility and with additional directional signs utilizing the symbol, at junctions where the accessible route of travel diverges from the regular circulation path, to be visible to persons along approaching circulation paths. Entrances which are not accessible shall have directional signage complying with Section 1117B.5.1, Items 2 and 3, which indicates the location of
- and route to the nearest accessible entrance. 1117B.5.8.1.3 INFORMATION POSTED. Buildings that provide specific sanitary facilities and / or elevators for public use that conform to these building standards shall have this information posted in the building lobby, preferably as part of the building directory. The information shall be accompanied by the International Symbol of Accessibility. Inaccessible sanitary facilities shall have directional signage complying with Section 1117B.5.1, Item 2 and 3, to indicate the location of the nearest accessible sanitary facility.

# 1117B.6 CONTROLS AND OPERATING MECHANISMS

- 1. GENERAL. Controls and operating mechanisms in accessible spaces, along accessible routes or as parts of accessible elements (for example, light switches and dispenser controls) and those required to be accessible by Section 109.1 shall comply with the requirements of this
- 2. CLEAR FLOOR SPACE. Clear floor space complying with Section 1118B.4 that allows a forward or parallel approach by a person using a wheelchair shall be provided at controls, dispensers, receptacles and other operable
- 3. HEIGHT. The highest operable part of all controls, dispenser, receptacles and other operable equipment shall be placed within at leat one of the reach ranges specified in Section 1118B.5 and 1118B.6. Electrical and communication systems receptacles on walls shall be mounted no less 15 inches (381mm) above the floor.
- 4. OPERATION. Controls and operating mechanisms shall be operable with one hand and shall not require tight grasping, pinching or twisting of the wrist. The force required to activate controls shall be no greater than 5 pounds of force.
- 5. INSTALLATION HEIGHTS OF ELECTRICAL SWITCHES AND RECEPTACLE OUTLETS.
- 5.1 ELECTRICAL SWITCHES. The center of the grip of the operating handle of controls or switches intended to be by the occupant of the room or area to control lighting and receptale outlets, appliances or cooling, heating and ventilating equipment, shall be 48 inches (1219mm) above the floor or working platform.
- 5.2 ELECTRICAL RECEPTACLE OUTLETS. The center of electrical receptacle outlets on branch circuits of 30 amperes or less shall be installed not more than 48 inches (1219mm) nor less than 15 inches (381mm) above the floor or working platform.

# Section 1118B SPACE ALLOWANCE AND REACH RANGES

- 1118B.1 WHEELCHAIR PASSAGE WIDTH. The minimum clear width for single wheelchair passage shall be 32 inches (813mm) at a point and 36 inches (914mm) continuously. See Figure 11B-10.
- 1118B.2 WIDTH FOR WHEELCHAIR PASSING. The minimum width for two
- wheelchairs to pass is 60 inches (1524mm). See Figure 11B-11. 1118B.3 WHEELCHAIR TURNING SPACE. The space required for a wheelchair to make a 180-degree turn is a clear space of 60 inches (1524mm) diameter [see Figure 11B-12(a)] or a T-shaped space. See Figure 11B-12(b).

- 1118B.4 CLEAR FLOOR OR GROUND SPACE FOR WHEELCHAIRS.
- 1. SIZE AND APPROACH. The minimum clear floor or ground space required to accommodate a single, stationary wheelchair and occupant is 30 inches (762mm) by 48 inches (1219mm). The minimum clear floor or ground space for wheelchairs may be positioned for forward or parallel approach to an object. Clear floor or ground space for wheelchairs may be part of the knee space required under some objects. See Figure 11b-5A
- RELATIONSHIP OF MANEUVERING CLEARANCES TO WHEELCHAIR SPACES. One full unobstructed side of the clear floor or ground space for a wheelchair shall adjoin or overlap an accessible route or adjoin another wheelchair clear floor space. If a clear floor space is located in an alcove or otherwise confined on all or a part of three sides, additional maneuvering clearances shall be provided as shown in Figure 11B—5A(b).
- 1118B.5 FORWARD REACH. If the clear floor space allows only forward approach to an object, the maximum high forward reach allowed shall be 48 inches (1219mm) [see Figure 11B-5C(a)]. The minimum low forward reach is 15 inches (381mm). If the high forward reach is over an obstruction, reach and clearances shall be as shown in Figure 11B-5C(b).
- 1118B.6 SIDE REACH. If the clear floor space allows parallel approach by a person in a wheelchair, the maximum high side reach allowed shall be 54 inches (1372mm) and the low side reach shall be no less than 9 inches (229mm) above the floor [see Figure 11B-5D(a) and (b)]. If the side reach is over and obstruction, the reach and clearances shall be as shown in Figure 11B-5D(c).

#### Section 1122B FIXED OR BUILT-IN SEATING, TABLES AND COUNTERS

- 1122B.1 MINIMUM NUMBER. Where fixed or built—in seating, tables or counters are provided in accessible public use or common use or common use areas, 5 percent, but never less than one, must be accessible as provided in this section. An accessible route of travel complying with Section 1114B.1.2 shall lead to and through such fixed or built—in seating areas or tables.
- 1122B.2 SEATING. If seating spaces for persons in wheelchairs are provided at fixed tables or counters, clear floor space complying with Section 1118B.4 shall be provided. Such clear floor space shall not overlap knee space by more than 19 inches (483mm) (see Figure 11B- 13).
- 1122B.3 KNEE CLEARANCE. If seating for persons in wheelchairs is provided at fixed tables or counters, knee spaces at least 27 inches (686mm) high, 30 inches (762mm) wide and 19 inches (483mm) deep shall be provided (see Figure 11B-13).

1122B.4 HEIGHT OF WORK SURFACES. The tops of tables and counters shall

be 28 inches (711mm) to 34 inches (864mm) from the floor or

Where a single counter contains more than one transaction station, such as (but not limited to) a bank counter with multiple teller windows or a retail sales counter with multiple cash register stations, at least 5 percent, but never less than one, of each type of station shall be located at a section of counter that is at least 36 inches (914mm) long and no more than 28 inches

# Section 1123B ACCESS TO EMPLOYEE AREAS

(711mm) to 34 inches (864mm) high.

- 1123B.1 GENERAL. Employee areas shall conform to all requirements of the Division of the State Architect-Access Compliance in the California Building Code, Plumbing Code and Electrical Code.
- 1123B.2 WORK STATIONS. Specific work stations need only comply with aisle width (Section 1133B.6.1 and 1133B.6.2) and floors and levels (Section 1120B), and entryways shall be 32 inches (813mm) in clear width.

# Section 1124B GROUND AND FLOOR SURFACES

comply with this section.

- 1124B.1 GENERAL. Ground and floor surfaces along accessible routs and in accessible rooms and spaces, including floors, walks, ramps, stairs and curb ramps, shall be stable, firm, slip resistent and shall
- 1124B.2 CHANGES IN LEVEL. Changes in level up to 1/4 inch (6.4mm) may be vertical and without edge treatment [see Figure 11B-5E(c)] Changes in level between 1/4 inch (6.4mm) and 1/2 inch (12.7mm) shall be beveled with a slope no greater than 1:2 [see Figure 11B-5E(d)]. Changes in level greater than 1/2 inch (12.7mm) shall be accomplished by means of a curb ramp, ramp, elevator or platform lift that complies with Section 1127B.5, 1133B.5, 1116B.1 or 1116B.2, respectively.
- 1124B.3 CARPET. If carpet or carpet tile is used on a ground or floor surface, then it shall be securely attached; have a firm cushion, pad or backing or no cushion or pad; and have a level loop, textured loop, level-cut pile or level-cut / uncut pile texture. The maximum pile height shall be 1/2 inch (12.7mm). See Figure 11B-7E(b). Exposed edges of carpet shall be fastened to floor surfaces and have trim along the entire length of the
- exposed edge. Carpet edge trim shall comply with Section 1124B.2. 1124B.4 GRATINGS. If gratings are located in walking surfaces, then they shall have spaces no greater than 1/2 inch (12.7mm) wide in one direction (see Figure 11B-7E). If gratings have elongated openings, then they shall be placed so that the long dimension is perpendicular to the dominant direction of travel (see Figur 11B—7E).

# Section 1125B STORAGE

1125B.1 GENERAL. If fixed storage facilities such as cabinets, shelves, closets or drawers are provided where access is required by Section 109.1, at least one of each type shall comply with this section. Additional storage may be provided outside of

of the reach ranges shown in Figure 11B-5D.

1125B.2 CLEAR FLOOR SPACE. A clear floor space at least 30 inches (762mm) by 48 inches (1219mm) complying with Section 1118B.4 that allows either a forward or parallel approach by a person using a wheelchair shall be provided at accessible storage facilities. 1125B.3 HEIGHT. Accessible storage spaces shall be within at least one of the reach ranges specified in Sections 1118B.5 and 1118B.6.

Clothes rods shall be maximum of 54 inches (1372mm) from the

floor for a side approach (See Figure 11B-5D). Where the distance

from the wheelchair to the clothes rod or shelf exceeds 10 inches

(254mm), as in closets without accessible doors, the height and

depth to the rod or shelf shall comply with Figure 11B-5D. 1125B.4 HARDWARE. Hardware for accessible storage facilities shall comply with Section 1117B.6. Touch latches and U-shaped pulls are

### acceptable. Section 1126B VENDING MACHINES AND OTHER EQUIPMENT

Spaces for vending machines and other equipment shall comply with Section 1118B and shall be located on an accessible route complying with Section 1114B.1.2. Controls for vending machines and other equipment shall comply with Section 1117B.6, Controls and Operating Mechanisms.

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