

Chapter 1. Application and Administration

(Item #152)

101 Purpose The technical criteria in Chapters 3 through 9, and Sections 1002, 1003 and 1005 of this standard make sites, facilities, buildings and elements accessible to and usable by people with such physical disabilities as the inability to walk, difficulty walking, reliance on walking aids, blindness and visual impairment, deafness and hearing impairment, incoordination, reaching and manipulation disabilities, lack of stamina, difficulty interpreting and reacting to sensory information, and extremes of physical size. The intent of these sections is to allow a person with a physical disability to independently get to, enter, and use a site, facility, building, or element.

Section 1004 of this standard provides criteria for Type B units. These criteria are intended to be consistent with meet or exceed the intent of the criteria of the U.S. Department of Housing and Urban Development (HUD) Fair Housing Accessibility Guide lines. The Type B units are intended to supplement, not replace, Accessible units or Type A units as specified in this standard.

This standard is intended for adoption by government agencies and by organizations setting model codes to achieve uniformity in the technical design criteria in building codes and other regulations.

(Item #302)

102 Anthropometric Provisions

The technical criteria in this standard are based on adult dimensions and anthropometrics. This standard also contains technical criteria based on children's dimensions and anthropometrics for drinking fountains, water closets, toilet compartments, lavatories and sinks, dining surfaces, ~~and~~ work surfaces and benches.

104 Conventions

(Item #184)

104.2 Dimensions. Dimensions that are ~~not~~ stated as a range of as "maximum" and of "minimum" are absolute. All other dimensions are subject to conventional industry tolerances.

105 Referenced Standards

(Item #294)

105.2.2 National Fire Alarm Code: NFPA 72-~~2002~~ 2007 (National Fire Protection Association, 1 Batterymarch Park, Quincy, MA 02269-9101)

(Item #292)

105.2.5 Safety Code for Elevators and Escalators: ~~ASME/ANSI A17.1-2000 and Addenda A17.1a-2002~~ ASME A17.1/CSA B44-2007 (American Society of Mechanical Engineers International, Three Park Avenue, New York, NY 10016-5990)

(Item #292)

105.2.6 Safety Standard for Plat form Lifts and St air way Chair lifts : ~~ASME/ANSI A18.1-1999, with Addenda A18.1a-2001 and A18.1b-2004~~ 2005 (American Society of Mechanical Engineers International, Three Park Avenue, New York, NY 10016-5990)

106.5 Defined Terms

(Item #279)

Amusement Attraction. Any facility, or portion of a facility, located within an amusement park or theme park which provides amusement without the use of an amusement device. Amusement attractions include, but are not limited to, fun houses, barrels, and other attractions without seats.

(Item #279)

Amusement Ride. A system that moves persons through a fixed course within a defined area for the purpose of amusement.

(Item #279)

Amusement Ride Seat. A seat that is built-in or mechanically fastened to an amusement ride intended to be occupied by one or more passengers.

(Item #278)

Area of Sport Activity. That portion of a room or space where the play or practice of a sport occurs.

(Item #280)

Boarding Pier. A portion of a pier where a boat is temporarily secured for the purpose of embarking or disembarking.

(Item #280)

Boat Launch Ramp. A sloped surface designed for launching and retrieving trailered boats and other water craft to and from a body of water.

(Item #280)

Boat Slip. That portion of a pier, main pier, finger pier, or float where a boat is moored for the purpose of berthing, embarking, or disembarking.

(Item #285) **Catch Pool.** A pool or designated section of a pool used as a terminus for water slide flumes.

(Item #3)

common use: Interior or exterior circulation paths, rooms, spaces or elements that are not for public use and are made available for the shared use of two or more people.

(Item #185)

facility: All or any portion of a building, structure, or area, including the site on which such building, structure, or area is located, wherein specific services are provided or activities are performed site improvements, elements, and pedestrian routes or vehicular ways located on a site.

(Item #280, Item #282)

Gangway. A variable-sloped pedestrian walkway that links a fixed structure or land with a floating structure. Gangways that connect to vessels are not addressed by this document.

(Item #283)

Golf Car Passage. A continuous passage on which a motorized golf car can operate.

(Item #245)

habitable. A space in a building for living, sleeping, eating or cooking. Bathrooms, toilet rooms, closets, halls, storage or utility spaces and similar areas are not considered habitable spaces.

(Item #3)

public use: Interior or exterior rooms, spaces or elements that are made available to the public.

(Item #283)

Teeing Ground. In golf, the starting place for the hole to be played.

(Item #279)

Transfer device. Equipment designed to facilitate the transfer of a person from a wheelchair or other mobility aide to and from an amusement ride seat.

(Item #175)

Variable Message Signs (VMS). Electronic signs that have a message with the capacity to change by means of scrolling, streaming, or paging across a background.

(Item #175)

Variable Message Sign (VMS) Characters. Characters of an electronic sign are composed of pixels in an array. High resolution VMS characters have vertical pixel counts of 16 rows or greater. Low resolution VMS characters have vertical pixel counts of 7 to 15 rows.

(Item #241)

wheelchair space. A space for a single wheelchair and its occupant.

(Item #241)

wheelchair space locations. A space for a minimum of a single wheelchair and the associated companion seating. Wheelchair space locations can contain multiple wheelchair spaces and associated companion seating.

(Item #193)

work area equipment. Any machine, instrument, engine, motor, pump, conveyor, or other apparatus used to perform work. As used in this document, this term shall apply only to the equipment that is permanently installed or built-in employee in work areas. Work area equipment does not include passenger elevators and other accessible means of vertical transportation.

Chapter 3. Building Blocks

304 Turning Space

(Item #186)

304.2 Floor Surface. Floor surfaces of a turning space shall ~~have a slope not steeper than 1:48 and~~ shall comply with Section 302. Changes in level are not permitted within the turning space.

EXCEPTION: Slopes not steeper than 1:48 shall be permitted.

(Item #8)

304.3.1 Circular Space. The turning space shall be a circular space with a 60 inch (1525 mm) minimum diameter clear. The turning space shall not include ~~be permitted to include~~ knee and toe clearance ~~complying with Section 306.~~

305 Clear Floor Space

(Item #186)

305.2 Floor Surfaces. Floor surfaces of a clear floor space shall ~~have a slope not steeper than 1:48 and~~ shall comply with Section 302. Changes in level are not permitted within the clear floor space.

EXCEPTION: Slopes not steeper than 1:48 shall be permitted.

306 Knee and Toe Clearance

(Item #187)

306.1 General. Where space beneath an element is included as part of clear floor space at an element, clearance at an element, or a turning space, the space shall comply with Section 306. Additional space beyond knee and toe clearance shall be permitted beneath elements shall be not be prohibited beneath an element, but shall not be considered as part of the clear floor space or turning space.

(Item #188)

306.3.4 Clearance Reduction. Between 9 inches (230 mm) and 27 inches (685 mm) above the floor, the knee clearance shall be permitted to be reduced at a rate of 1 inch (25 mm) in depth for each 6 inches (150 mm) in height.

307 Protruding Objects

307.1 General. Protruding objects on circulation paths shall comply with Section 307.

(Item #189)

307.2 Protrusion Limits. Objects with leading edges more than 27 inches (685 mm) and not more than 80 inches (2030 mm) above the floor shall protrude 4 inches (100 mm) maximum horizontally into the circulation path.

EXCEPTIONS:

1. Handrails shall be permitted to protrude 4¹/₂ inches (115 mm) maximum.
2. ~~Door closers and door stops shall be permitted to be 78 inches (1980 mm) minimum above the floor.~~

(Items #189, #190)

307.3 Post-Mounted Objects. Objects on posts or pylons shall be permitted to overhang 4 inches (100 mm) maximum where more than 27 inches (685 mm) and not more than 80 inches (2030 mm) above the floor. Objects on multiple posts or pylons where the clear distance between the posts or pylons is greater than 12 inches (305 mm) shall have the lowest edge of such object either 27 inches (685 mm) maximum or 80 inches (2030 mm) minimum above the floor.

Exception: These requirements shall not apply to sloping portions of handrails between the top and bottom riser of stairs and above the ramp run.

(Item #189)

307.4 Reduced Vertical Clearance. ~~Guardrails or other barriers shall be provided where object protrusion is beyond the limits allowed by Sections 307.2 and 307.3, and where the vertical clearance is less than 80 inches (2030 mm) above the floor. The leading edge of such guardrail or barrier shall be 27 inches (685 mm) maximum above the floor. Vertical clearance shall be 80 inches (2030 mm) high minimum. Rails or other barriers shall be provided where the vertical clearance is less than 80 inches (2030 mm) high. The leading edge of such rails or barrier shall be located 27 inches (685 mm) maximum above the finish floor or ground.~~

EXCEPTION: Door closers and door stops shall be permitted to be 78 inches (1980 mm) minimum above the floor.

307.5 Required Clear Width. Protruding objects shall not reduce the clear width required for accessible routes.

308 Reach Ranges

308.3 Side Reach.

(Item #191)

308.3.1 Unobstructed. Where a clear floor space allows a parallel approach to an element and the side reach is unobstructed, edge of the clear floor space is 10 inches (255 mm) maximum from the element, the high side reach shall be 48 inches (1220 mm) maximum and the low side reach shall be 15 inches (380 mm) minimum above the floor.

EXCEPTION: Existing elements that are not altered shall be permitted at 54 inches (1370 mm) maximum above the floor.

(Items #30, #191)

308.3.2 Obstructed High Reach. Where a clear floor space allows a parallel approach to an ~~object~~ element and the high side reach is over an obstruction, the height of the obstruction shall be 34 inches (865 mm) maximum and the depth of the obstruction shall be 24 inches (610 mm) maximum. The high side reach shall be 48 inches (1220 mm) maximum for a reach depth of 10 inches (255 mm) maximum. Where the reach depth exceeds 10 inches (255 mm), the high side reach shall be 46 inches (1170 mm) maximum for a reach depth of 24 inches (610 mm) maximum.

Exceptions:

1. The depth of the obstruction is permitted to be 25-1/2" (650 mm) at the counter top.
2. The depth of the obstruction is not required to include handles or pulls on the front surface of the cabinet or drawer.
3. In Type B units, the height of the obstruction is permitted to be 36 inches (915 mm).
4. At washing machines and clothes dryers, the height of the obstruction shall be permitted to be 36 inches (915 mm) maximum above the finish floor.

Chapter 4. Accessible Routes

402 Accessible Routes

(Item #192)

402.3 Overlap. Unless otherwise specified, clear floor spaces, clearances at fixtures, and turning spaces shall be permitted to overlap.

403 Walking Surfaces

(Item #193)

403.5 Clear Width. Clear width of an accessible route shall comply with Table 403.5.

EXCEPTION: Within employee work areas, clearances on common use circulation paths shall be permitted to be decreased by work area equipment provided that the decrease is essential to the function of the work being performed.

404 Doors and Doorways

(Item #37)

~~404.2.3.5~~ 404.2.3.1 Floor Surface. Floor surface within the maneuvering clearances shall have a slope not steeper than 1:48 and shall comply with Section 302.

(Renumber existing sections)

405 Ramps

(Item #43)

405.2 Slope. Ramp runs shall have a running slope greater than 1:20 and not steeper than 1:12.

EXCEPTION: In existing buildings or facilities, ramps shall be permitted to have slopes steeper than 1:12 complying with Table 405.2 where such slopes are necessary due to space limitations.

(Item #194)

405.1 General. Ramps along accessible routes shall comply with Section 405.

Exception: In assembly areas, aisle ramps adjacent to seating and not serving elements required to be on an accessible route shall not be required to comply with Section 405.

(Item #195)

405.5 Clear Width. The clear width of a ramp run shall be 36 inches (915mm) minimum. Where handrails and handrail supports are provided on the ramp run, the clear width shall be measured between the handrails and handrail supports.

(Item #194)

405.9 Edge Protection. Edge protection complying with Section 405.9.1 or 405.9.2 shall be provided on each side of ramp runs and at each side of ramp landings.

Exceptions:

~~1. Ramps not required to have handrails where curb ramp flares complying with Section 406.3 are provided.~~

1. Edge protection shall not be required on ramps not required to have handrails and that have flared sides complying with 406.3.

2. Edge protection shall not be required on the sides of ramp landings serving an adjoining ramp run or stairway.

3. Edge protection shall not be required on the sides of ramp landings having a vertical drop-off of ½ inch (13mm) maximum within 10 inches (255mm) horizontally of the minimum landing area specified in 405.7.

4. Edge protection is not required on the sides of ramped aisles where the ramps provide access to the adjacent seats and aisle access ways.

(Item #198)

405.9.2 Curb or Barrier. A curb or barrier shall be provided. A curb must be a minimum of 4 inches (100 mm) in height. Barriers shall be constructed so that the barrier that prevents the passage of a 4-inch (100 mm) diameter sphere where any portion of the sphere is within 4 inches (100 mm) of the floor.

406 Curb Ramps

(Item #293)

406.3 Sides of Curb Ramps. Where provided, curb ramp flares shall comply with Section 406.3.

406.3.1 Slope. Flares shall not be steeper than 1:10.

406.3.2 Marking. If curbs adjacent to the ramp flares are painted, the painted surface shall extend along the flared portion of the curb.

407 Elevators

(Item #51)

407.2.1.5 Signals. Call buttons shall have visible signals to indicate when each call is registered and when each call is answered. Call buttons shall provide audible signal(s) or mechanical motion of the button to indicate when each call is registered.

EXCEPTIONS:

1. Destination-oriented elevators shall not be required to comply with Section 407.2.1.5, provided visible and audible signals complying with Section 407.2.1.7 are provided.

2. Existing elevators shall not be required to comply with Section 407.2.1.5.

(Item #52)

407.2.2.2 Visible Signals. Visible signal fixtures shall be centered at 72 inches (1830 mm) minimum above the floor. The visible signal elements shall be 2 ½ inches (64 mm) minimum ~~measured between the uppermost and lowest edges of the illuminated shape measured vertically, along the vertical centerline of the element.~~ Signals shall be visible from the floor area adjacent to the hall call button.

EXCEPTIONS:

1. Destination-oriented elevators shall be permitted to have signals visible from the floor area adjacent to the hoistway entrance.
2. Existing elevators shall not be required to comply with Section 407.2.2.2.

(Item #56)

407.4.4 Leveling. Each car shall be equipped with a self-leveling feature that will automatically bring stop and maintain the car position at floor landings within a tolerance of ½ inch (13 mm) under rated loading to zero loading conditions.

(Item #289)

407.4.5 Illumination. The level of illumination at the car controls, platform, car threshold and car landing sill shall be ~~5 foot-candles (54 lux) minimum in compliance with ASME A17.1 listed in Section 105.2.5.~~

(Item #57)

407.4.6.1 Location. Controls shall be located within one of the reach ranges specified in Section 308.

EXCEPTIONS:

1. Where the elevator panel ~~complies with Section 407.4.8 Elevator Car Call Sequential Step Scanning serves more than 16 openings and a parallel approach to the controls is provided, buttons with floor designations shall be permitted to be 54 inches (1370 mm) maximum above the floor.~~
2. (No Change)

(Item #59)

407.4.8 Elevator Car Call Sequential Step Scanning. Elevator car call sequential step scanning shall be provided where car control buttons are provided more than 48 inches (1220 mm) above the floor, ~~as permitted by Section 407.4.6.1, Exception #1.~~ Floor selection shall be accomplished by applying momentary or constant pressure to the up or down scan button. The up scan button shall sequentially select floors above the current floor. The down scan button shall sequentially select floors below the current floor. When pressure is removed from the up or down scan button for more than 2 seconds, the last floor selected shall be registered as a car call. The up and down scan button shall be located adjacent to or immediately above the emergency control buttons.

408 Limited-Use/Limited-Applications Elevators

(Item #61)

408.3.3 Door Location and Width. Car doors shall ~~provide a clear opening width of 32 inches (815 mm) minimum. Car doors shall positioned at a narrow end of the car~~ comply Section 408.3.3.

408.3.3.1 Cars with Single Door or Doors on Opposite Ends. Car doors shall positioned at the narrow end of cars with single door and on cars with doors opposite ends. Doors shall provide a opening width of 32 inches (815 minimum).

408.3.3.2 Cars with Doors on Adjacent Sides. Car doors shall be permitted to located on adjacent sides of cars that provide an 18 square foot (1.67 m²) platform. Doors located on the narrow end of cars provide a clear opening width of 36 inches (815 mm) minimum. Doors located on long side shall provide a clear opening width of 42 inches (1065 mm) minimum and be located as far as possible from the door. ~~on cars with two doors, or be centered on cars with three doors.~~

(Item #62)

408.4.1 Inside Dimensions of Elevator Cars. Elevator cars shall provide a clear floor area width of 42 inches (1065 mm) minimum in width, and 54 inches (1370 mm) minimum in depth. The clear floor area shall not be less than 15.75 square feet (1.46 m²) or more than 18 square feet (1.67 m²).

EXCEPTIONS:

- ~~1. Cars that provide a 51 inches (1295 mm) minimum clear floor width shall be permitted to provide 51 inches (1295 mm) minimum clear floor depth.~~
2. For installations in existing buildings, elevator cars that provide a clear floor area of 15 square feet (1.35 m²) minimum, and provide a clear inside dimension of 36 inches (915 mm) minimum in width and 54 inches (1370 mm) minimum in depth, shall be permitted. This exception shall not apply to cars with doors on adjacent sides.

409 Private Residence Elevators.

(Item #288)

409.3.1 Power Operation. Elevator car doors and gates shall be power operated and shall comply with ANSI/BHMA A156.19 listed in Section 105.2.3. Elevators with a single opening car shall have low energy power operated hoist way doors and gates.

EXCEPTION: ~~For elevators with a car that has more than one opening, the hoist way doors and gates shall be permitted to be of the manual open, self close type. Hoistway doors or gates shall be permitted to be of the self-closing, manual type, where that door or gate provides access to a narrow end of the car that serves only one landing.~~

(Item #288)

409.3.3 Door or Gate Location. Car gates or doors shall be positioned at the narrow end of the clear floor space required by Section 409.4.1, shall provide a clear opening width of 32 inches minimum. Car gates or doors positioned on adjacent sides, shall provide a clear opening width of 42 inches minimum.

(Item #289)

409.4.5 Illumination. The level of illumination at the ~~car controls, platform, and car threshold and landing sill~~ shall be 5 foot-candles (54 lux) minimum.

(Item #199)

409.4.7 Emergency Communications. Emergency communications systems shall comply with Section 409.4.7.

409.4.7.1 Type. A telephone and emergency signal device shall be provided in the car.

409.4.7.2 Operable Parts. The telephone and emergency signaling device shall comply with Section 309.3 and 309.4.

409.4.7.3 Compartment. If the device is in a closed compartment, the compartment door hardware shall comply with Section 309.

409.4.7.4 Cord. The telephone cord shall be 29 inches (735 mm) minimum in length.

410 Platform Lifts

(Items #64, #65)

410.2.1 Doors and Gates. Doors and gates shall be low energy power operated doors or gates complying with Section 404.3. Doors shall remain open for 20 seconds minimum. On lifts with one door or with doors on opposite ends, end door clear opening width shall be 32 inches (815 mm) minimum. On lifts with one door on a narrow end and one door on a long side, end door clear opening width shall be 36 inches (915 mm) minimum. Side door clear opening width shall be 42 inches (1065 mm) minimum. Where a door is provided on a long side and on a narrow end of a lift, the side door shall be located with the strike side furthest from the door on the narrow end.

EXCEPTIONS:

1. Lifts serving two landings maximum and having doors or gates on opposite sides shall be permitted to have self-closing manual doors or gates. Doors or gates shall be permitted to be of the self-closing, manual type, where that door or gate provides access to a narrow end of the platform that serves only one landing. This exception shall not apply to doors or gates with ramps.

2. Lifts serving two landings maximum and having doors or gates on adjacent sides shall be permitted to have self closing manual doors or gates provided that the side door or gate is located with the strike side furthest from the end door. This exception shall not apply to door or gates with ramps.

(Item #66)

410.2.2 Ramps. ~~End ramps shall be 32 inches (815 mm) minimum in width. Side ramps shall be 42 inches (1065 mm) minimum in width. Ramp widths shall not be less than the platform opening they serve.~~

(Item #68)

410.5 Clear Floor Space. Clear floor space in platform lifts shall comply with Section ~~305~~410.5.

410.5.1 Lifts with Single Door or Doors on Opposite Ends. Platform lifts with a single door or with doors on opposite ends shall provide a clear floor width of 36 inches (915 mm) minimum and a clear floor depth of 48 inches (1220 mm) minimum.

410.5.2 Lifts with Doors on Adjacent Sides. Platform lifts with doors on adjacent sides shall provide a clear floor width of 42 inches (1065 mm) minimum and a clear floor depth of 60 inches (1525 mm) minimum.

Exception: In existing buildings, platform lifts with doors on adjacent sides shall be permitted to provide a clear floor width of 36 inches (915 mm) and a clear floor depth of 48 inches (1220 mm) provided that the side door is located as far as possible from the end door and it has a low energy power operated door.

Chapter 5. General Site and Building Elements

502 Parking Spaces

(Item #200)

502.6 Vertical Clearance. Parking spaces for vans, and access aisles serving them, and vehicular routes serving them from an entrance to the van parking spaces, and from the van parking spaces to a vehicular exit serving them shall provide a vertical clearance of 98 inches (2490 mm) minimum.

503 Passenger Loading Zones

(Item #201)

503.3.3 Length. Access aisles shall ~~be 20 feet (6100 mm) minimum in length~~ extend the full length of the vehicle pull-up spaces they serve.

505 Handrails

(Item #194)

505.2 Location. Handrails shall be provided on both sides of stairs and ramps.

EXCEPTIONS:

1. In assembly seating areas, handrails shall not be required on both sides along aisle stairs, and aisle ramps provided with a handrail either at the side or within the aisle width.
2. In assembly seating areas, handrails shall not be required on the sides of ramped aisles serving seats.

(Item #194)

505.3 Continuity. Handrails shall be continuous within the full length of each stair flight or ramp run. Inside handrails on switchback or dogleg stairs or ramps shall be continuous between flights or runs. Other handrails shall comply with Sections 505.10 and 307.

EXCEPTION: Handrails shall not be required to be continuous in aisles serving seating for handrails in aisles serving seating where handrails are discontinuous to provide access to seating and to permit crossovers within the aisles.

Chapter 6. Plumbing Elements and Facilities

602 Drinking Fountains

602.1 General. Accessible drinking fountains shall comply with Section 602 and 307.

(Item #206)

602.2 Clear Floor Space. A clear floor space complying with Section 305, positioned for a forward approach to the drinking fountain, shall be provided. Knee and toe space complying with Section 306 shall be provided. The clear floor space shall be centered on the drinking fountain.

EXCEPTIONS:

1. Drinking fountains for standing persons.
2. Drinking fountains primarily for children's use shall be permitted where the spout is 30 inches (760 mm) maximum above the floor, and parallel approach complying with Section 305, centered on the drinking fountain, is provided.
3. ~~In existing buildings, existing drinking fountains providing a parallel approach complying with Section 305, centered on the drinking fountains shall be permitted.~~
4. ~~Where specifically permitted by the administrative authority, a parallel approach complying with Section 305, centered on the drinking fountain, shall be permitted for drinking fountains that replace existing drinking fountains with a parallel approach.~~

603 Toilet and Bathing Rooms

(Item #81)

603.2.1 Turning Space. A turning space complying with Section 304 shall be provided within the room. The required turning space shall not be provided within a toilet compartment.

(Item #192)

~~**603.2.2 Overlap.** Clear floor spaces, clearances at fixtures, and turning spaces shall be permitted to overlap.~~

(Item #77)

603.2.3 Door Swing. Doors shall not swing into the clear floor space or clearance for any fixture.

EXCEPTIONS:

1. Doors to a toilet ~~and~~ or bathing room for a single occupant, accessed only through a private office and not for common use or public use shall be permitted to swing into the clear floor space, provided the swing of the door can be reversed to meet Section 603.2.3.
2. Where the room is for individual use and a clear floor space complying with Section 305.3 is provided within the room beyond the arc of the door swing.

(Item #207)

603.3 Mirrors. Where mirrors are located above lavatories, sinks or counters a mirror shall be located over the accessible lavatory and shall be mounted with the bottom edge of the reflecting surface 40 inches (1015 mm) maximum above the floor. Where mirror are located above counters that do not contain lavatories, the mirror shall be mounted with the bottom edge of the reflecting surface 40 inches (1015 mm) maximum above the floor.

Exception: Other than within Accessible dwelling or sleeping units, mirrors ~~not located above lavatories, sinks or counters shall be~~ are not required over the lavatories or counters if a mirror is located within the same toilet or bathing room and mounted with the bottom edge of the reflecting surface 35 inches (890 mm) maximum above the floor.

(Item #80)

603.5 Diaper Changing Tables. Diaper changing tables shall comply with Section 309 and 902.

(Item #287)

603.5 ~~606.7~~ Operable Parts. Operable parts on towel dispensers and hand dryers serving accessible lavatories shall comply with Table ~~606.7~~ 603.5.

(Item #287)

**Table ~~603.5~~ 606.7
Maximum Reach Depth and Height**

Maximum Reach Depth	.5 inch (13 mm)	2 inches (50 mm)	5 inches (125 mm)	6 inches (150 mm)	9 inches (230 mm)	11 inches (280 mm)
Maximum Reach Height	48 inch (1220 mm)	46 inch (1170 mm)	42 inches (1065 mm)	40 inches (1015 mm)	36 inches (915 mm)	34 inches (865 mm)

604 Water Closets and Toilet Compartments

(Item #257)

604.3.1 ~~Size~~ Clearance Width. Clearance around the water closet shall be 60 inches (1525 mm) minimum in width, measured perpendicular from the side wall.

604.3.2 Clearance Depth. Clearance around the water closet shall be ~~and~~ 56 inches (1420 mm) minimum in depth, measured perpendicular from the rear wall, ~~shall be provided.~~

604.3.3 ~~604.3.2~~ Clearance Overlap. The required clearance around the water closet shall be permitted to overlap the water closet, associated grab bars, paper dispensers, sanitary napkin receptacles, coat hooks, shelves, accessible routes, clear floor space at other fixtures and the turning space. No other fixtures or obstructions shall be within the required water closet clearance.

(Item 208)

604.5 Grab Bars. Grab bars for water closets shall comply with Section 609 and shall be provided in accordance with Sections 604.5.1 and 604.5.2. Grab bars shall be provided on the rear wall and on the side wall closest to the water closet.

EXCEPTIONS:

1. Grab bars are not required to be installed in a toilet room for a single occupant, accessed only through a private office and not for common use or public use, provided reinforcement has been installed in walls and located so as to permit the installation of grab bars complying with Section 604.5.
2. In detention or correction facilities, grab bars are not required to be installed in housing or holding cells or rooms that are specially designed without protrusions for purposes of suicide prevention.
3. ~~In Type A units, grab bars are not required to be installed where reinforcement complying with Section 1003.11.4 is installed for the future installation of grab bars.~~
4. ~~In Type B units located in institutional facilities and assisted living facilities, two swing-up grab bars shall be permitted to be installed in lieu of the rear wall and side wall grab bars. Swing-up grab bars shall comply with Sections 604.5.3 and 609.~~
5. ~~In a Type B unit, where fixtures are located on both sides of the water closet, a swing-up grab bar complying with Sections 604.5.3 and 609 shall be permitted. The swing-up grab bar shall be installed on the side of the water closet with the 18 inch (455 mm) clearance required by Section 1004.11.3.1.2.~~

(Item #210)

604.5.1 Fixed Side Wall Grab Bars. Fixed sidewall grab bars shall be 42 inches (1065 mm) minimum in length, located 12 inches (305 mm) maximum from the rear wall and extending 54 inches (1370 mm) minimum from the rear wall. In addition, a vertical grab bar 18 inches (455 mm) minimum in length shall be mounted with the bottom of the bar located between 39 inches (990 mm) and 41 inches (1040 mm) above the floor, and with the center line of the bar located between 39 inches (990 mm) and 41 inches (1040 mm) from the rear wall.

EXCEPTIONS:

1. ~~In Type A and Type B units, the vertical grab bar component is not required.~~
2. ~~In a Type B unit, when a side wall is not available for a 42-inch (1065 mm) grab bar, the sidewall grab bar shall be permitted to be 18 inches (455 mm) minimum in length, located 12 inches (305 mm) maximum from the rear wall and extending 30 inches (760 mm) minimum from the rear wall.~~

(Item #211)

604.5.2 Rear Wall Grab Bars. The rear wall grab bar shall be 36 inches (915 mm) minimum in length, and extend from the centerline of the water closet 12 inches (305 mm) minimum on the side closest to the wall, and 24 inches (610 mm) minimum on the transfer side.

EXCEPTIONS:

1. The rear grab bar shall be permitted to be 24 inches (610 mm) minimum in length, centered on the water closet, where wall space does not permit a grab bar 36 inches (915 mm) minimum in length due to the location of a recessed fixture adjacent to the water closet.
2. ~~In a Type A or Type B unit, the rear grab bar shall be permitted to be 24 inches (610 mm) minimum in length, centered on the water closet, where wall space does not permit a grab bar 36 inches (915 mm) minimum in length.~~
3. Where an administrative authority requires flush controls for flush valves to be located in a position that conflicts with the location of the rear grab bar, that grab bar shall be permitted to be split or shifted to the open side of the toilet area.

(Item #212)

604.5.3 Swing-up Grab Bars. Where swing-up grab bars are installed, a clearance of 18 inches (455 mm) minimum from the centerline of the water closet to any side wall or obstruction shall be provided. A swing-up grab bar shall be installed with the centerline of the grab bar 15³/₄ inches (400 mm) from the centerline of the water closet. Swing-up grab bars shall be 28 inches (710 mm) minimum in length, measured from the wall to the end of the horizontal portion of the grab bar.

(Item #96)

604.8.3 Doors. Toilet compartment doors, including door hardware, shall comply with Section 404.1 except if the approach is to the latch side of the compartment door, clearance between the door side of the stall and any obstruction shall be 42 inches (1065 mm) minimum. ~~Doors shall be located in the front partition or in the side wall or partition farthest from the water closet. Where located in the front partition, the door opening shall be 4 inches (102 mm) maximum from the side wall or partition farthest from the water closet. Where located in the side wall or partition, the door opening shall be 4 inches (102 mm) maximum from the front partition.~~ The door shall be self-closing. A door pull complying with Section 404.2.6 shall be placed on both sides of the door near the latch. Toilet compartment doors shall not swing into the required minimum area of the compartment.

604.8.3.1 Door Opening Location. The farthest edge of toilet compartment door opening shall be located in the front partition or in the side wall or partition as required by Table 604.8.3.1.

Table 604.8.3.1 – Door Opening Location

<u>Opening Location</u>	<u>Measured From</u>	<u>Dimension</u>
<u>Front Partition</u>	<u>From the side wall or partition closest to the water closet</u>	<u>56 inches (1420 mm) minimum</u>
		<u>or</u>
	<u>From the side wall or partition farthest from the water closet</u>	<u>4 inches (102 mm) maximum</u>
<u>Side Wall or Partition</u> = <u>Wall-Hung Water Closet</u>	<u>From the rear wall</u>	<u>52 inches (1320 mm) minimum</u>
		<u>or</u>
	<u>From the front partition</u>	<u>4 inches (102 mm) maximum</u>
<u>Side Wall or Partition</u> = <u>Floor-Mounted Water Closet</u>	<u>From the rear wall</u>	<u>55 inches (1395 mm) minimum</u>
		<u>or</u>
	<u>From the front partition</u>	<u>4 inches (102 mm) maximum</u>

(Item #89)

604.10.5 Grab bars. Grab bars for water closets shall comply with Section 604.5.

Exception: The vertical grab bar shall be mounted with the bottom of the bar located between 3 inches (75 mm) minimum and 6 inches (150 mm) maximum above the horizontal bar, and the centerline of the bar located between 28 inches (710 mm) and 30 inches (760 mm) from the rear wall.

605 Urinals

(Item #213)

605.2 Height and Depth. Urinals shall be of the stall type or shall be of the wall hung type with the rim at 17 inches maximum above the floor. Urinals shall be 13 ½ inches deep minimum measured from the outer face of the urinal rim to the back of the fixture.

606 Lavatories and Sinks

(Item #77, #102, #104)

606.2 Clear Floor Space. A clear floor space complying with Section 305.3, positioned for forward approach, shall be provided. ~~Knee and toe clearance complying with Section 306 shall be provided. The dip of the overflow shall not be considered in determining knee and toe clearances.~~

EXCEPTIONS:

1. A parallel approach complying with Section 305 and centered on the sink, shall be permitted to a kitchen sink in a space where a cook top or conventional range is not provided.
2. The requirement for knee and toe clearance shall not apply to a lavatory in a toilet ~~and or~~ bathing facility for a single occupant, accessed only through a private office and not for common use or public use.
3. A knee clearance of 24 inches (610 mm) minimum above the floor shall be permitted at lavatories and sinks used primarily by children ages 6 through 12 where the rim or counter surface is 31 inches (785 mm) maximum above the floor.
4. A parallel approach complying with Section 305 and centered on the sink, shall be permitted at lavatories and sinks used primarily by children ages 5 and younger.
5. ~~The requirement for knee and toe clearance shall not apply to more than one bowl of a multibowl sink.~~
- 6.5. A parallel approach complying with Section 305 and centered on the sink, shall be permitted at wet bars.

Item #104) (

606.3 Clearance.

606.3.1 Forward approach. At sinks where a forward approach is required, knee and toe clearance complying with Section 306 shall be provided. The dip of the overflow shall not be considered in determining knee and toe clearances.

EXCEPTION: The requirement for knee and toe clearance shall not apply to more than one bowl of a multibowl sink.

606.3.2 Parallel approach. At sinks in kitchenettes and wetbars where a parallel approach is permitted by Section 606.2, the sink shall be 7 inches (178 mm) deep maximum.

EXCEPTION: The requirement for depth shall not apply to more than one bowl of a multibowl sink.

(Renumber subsequent sections)

(Item #77, #104)

606.3 Height. The front of lavatories and sinks shall be 34 inches (865 mm) maximum above the floor, measured to the higher of the rim or counter surface.

EXCEPTION: A lavatory in a toilet ~~and~~ or bathing facility for a single occupant, accessed only through a private office and not for common use or public use, shall not be required to comply with Section 606.3.

(Item #214)

606.5 Lavatories with Enhanced Reach Range. Where enhanced reach range is required at lavatories, faucets and soap dispenser controls shall have a reach depth of 11 inches (280 mm) maximum or, if automatic, shall be activated within a reach depth of 11 inches (280 mm) maximum. Water and soap flow shall be provided with a reach depth of 11 inches (280 mm) maximum.

EXCEPTION: ~~In Type A and Type B units, reach range for lavatory faucets and soap dispensers is not required.~~

(Item #287)

606.7 (See Section 603.5 above)

607 Bathtubs

(Item #215)

607.4 Grab Bars. Grab bars shall comply with Section 609 and shall be provided in accordance with Section 607.4.1 or 607.4.2.

EXCEPTIONS:

1. Grab bars shall not be required to be installed in a bathing facility for a single occupant accessed only through a private office and not for common use or public use, provided reinforcement has been installed in walls and located so as to permit the installation of grab bars complying with Section 607.4.
2. ~~In Type A units, grab bars are not required to be installed where reinforcement complying with Section 1003.11.4 is installed for the future installation of grab bars~~

(Item #108)

607.4.1 Bathtubs with Permanent Seats. For bathtubs with permanent seats, grab bars complying with Section 607.4.1 shall be provided.

(Item #217)

607.4.1.1 Back Wall. Two horizontal grab bars shall be provided on the back wall, one complying with Section 609.4 and the other ~~9 inches (230 mm)~~ located 8 inches (205 mm) minimum and 10 inches (255 mm) maximum above the rim of the bathtub. Each grab bar shall be located 15 inches (380 mm) maximum from the head end wall and extend to 12 inches (305 mm) maximum from the control end wall.

(Item #108)

607.4.1.2.1 Horizontal Grab Bar. A horizontal grab bar 24 inches (610 mm) minimum in length shall be provided on the control end wall ~~at the front edge of the bathtub~~ beginning near the front edge of the bathtub and extending toward the inside corner of the bathtub.

607.4.2 Bathtubs without Permanent Seats. For bathtubs without permanent seats, grab bars complying with Section 607.4.2 shall be provided.

(Item #218)

607.4.2.1 Back Wall. Two horizontal grab bars shall be provided on the back wall, one complying with Section 609.4 and the other ~~9 inches (230 mm)~~ located 8 inches (205 mm) minimum and 10 inches (255 mm) maximum above the rim of the bathtub. Each grab bar shall be 24 inches (610 mm) minimum in length, located 24 inches (610 mm) maximum from the head end wall and extend to 12 inches (305 mm) maximum from the control end wall.

(Item #108)

607.4.2.2.1 Horizontal Grab Bar. A horizontal grab bar shall be provided in accordance with Section 607.4.1.2.1 ~~24 inches (610 mm) minimum in length shall be provided on the control end wall beginning near the front edge of the bathtub and extend toward the inside corner of the bathtub.~~

(Item #219)

607.5 Controls. Controls, other than drain stoppers, shall be provided on an end wall, located between the bathtub rim and grab bar, and between the open side of the bathtub and the ~~midpoint~~ centerline of the width of the bathtub. Controls shall comply with Section 309.4.

607.6 Hand Shower. A hand shower with a hose 59 inches (1500 mm) minimum in length, that can be used as both a fixed shower head and as a hand shower, shall be provided. The hand shower shall have a control with a nonpositive shut-off feature. Where provided, an adjustable-height hand shower mounted on a vertical bar shall be installed so as to not obstruct the use of grab bars.

607.7 Bathtub Enclosures. Enclosures for bathtubs shall not obstruct controls, faucets, shower and spray units or obstruct transfer from wheelchairs onto bathtub seats or into bathtubs. Enclosures on bathtubs shall not have tracks installed on the rim of the bathtub.

(Item #220) 608.2 Size and Clearances. Shower compartments shall have sizes and clearances complying with 608.2.

608 Shower Compartments

(Item #221)

608.2.2 Standard Roll-in-Type Shower Compartments. Standard roll-in-type shower compartments shall have a clear inside dimension of 60 inches (1525 mm) minimum in width and 30 inches (760 mm) minimum in depth, measured at the center point of opposing sides. An entry 60 inches (1525 mm) minimum in width shall be provided. ~~A clearance of 60 inches (1525 mm) minimum in length adjacent to the 60 inch (1525 mm) width of the open face of the shower compartment, and 30 inches (760 mm) minimum in depth, shall be provided. A lavatory complying with Section 606 shall be permitted at the end of the clearance opposite the shower compartment side where shower controls are positioned. Where shower controls are located on the back wall and no seat is provided, the lavatory shall be permitted at either end of the clearance.~~

(Item #221)

608.2.2.1 Clearance. A clearance of 30 inches (760 mm) in depth minimum by 60 inches (1525 mm) in length minimum shall be provided adjacent to the 60-inch (1525 mm) width of the open face of the shower compartment open face of the shower compartment.

(Item #221 and #110)

EXCEPTION: A lavatory complying with 606 shall be permitted at the end of the clearance opposite the seat.

(Item #110)

608.2.2.2 Seat. A seat shall be provided on an end wall.

(Item #222)

608.3 Grab Bars. Grab bars shall comply with Section 609 and shall be provided in accordance with Section 608.3. Where multiple grab bars are used, required horizontal grab bars shall be installed at the same height above the floor.

EXCEPTIONS:

1. Grab bars are not required to be installed in a shower facility for a single occupant, accessed only through a private office and not for common use or public use, provided reinforcement has been installed in walls and located so as to permit the installation of grab bars complying with Section 608.3.
2. ~~In Type A units, grab bars are not required to be installed where reinforcement complying with Section 1003.11.4 is installed for the future installation of grab bars.~~

(Item #231)

608.3.1.3 Grab Bar Configuration. ~~Grab bars complying with Sections 608.3.1.1 and 608.3.1.2 shall be permitted to be separate bars, a single piece bar, or combination thereof.~~

(Item #110)

608.3.2 Standard Roll-In-Type Showers. ~~In standard roll-in type showers, grab bars shall be provided on three walls of showers without seats. Where a seat is provided in a standard roll-in type shower, grab bars shall be provided on the back wall and on the wall opposite the seat. Grab bars shall not be provided above the seat. Grab bars shall be 6 inches (150 mm) maximum from the adjacent wall.~~

(Item #110, #224, #290)

608.4 Seats. ~~A folding or non-folding seat shall be provided in transfer-type shower compartments. A seat shall be provided in an alternate roll-in type shower compartment. In standard and alternate roll-in type showers where a seat is provided, if the seat extends over the minimum clear inside dimension required by Sections 608.2.2 or 608.2.3, the seat shall be a folding seat. In a transfer-type shower compartment, a folding or non-folding seat shall be provided on the seat wall opposite the control wall. In an alternate roll-in-type shower compartment, a folding seat shall be provided on the seat wall opposite the back wall. In a standard roll-in-type shower compartment, a folding seat shall be provided on an end wall. Seats shall comply with Section 610.~~

EXCEPTIONS:

1. A shower seat is not required to be installed in a shower facility for a single occupant, accessed only through a private office and not for common use or public use, provided reinforcement has been installed in walls and located so as to permit the installation of a shower seat complying with Section 608.4.

- ~~2. In Type A units, a shower seat is not required to be installed where reinforcement complying with Section 1003.11.9 is installed for the future installation of shower seat.~~
2. In standard roll-in-type showers, seats shall be permitted to be fixed where the seat does not extend over the minimum clear inside dimension required by Sections 608.2.2.

(Items #113 and #226)

608.5.1 Transfer-Type Showers. In transfer-type showers, the controls and hand shower shall be located on the control wall opposite the seat, 38 inches (965 mm) minimum and 48 inches (1220 mm) maximum above the shower floor, within and 15 inches (380 mm), left or right maximum, of from the centerline of the seat control wall toward the shower opening.

(Item #110, #227)

608.5.2 Standard Roll-in Showers. In standard roll-in showers, the controls and hand shower shall be located on the back wall 38 inches (965 mm) minimum and above the grab bar, but no higher than 48 inches (1220 mm) maximum above the shower floor. ~~In standard roll-in showers with seats, the controls and hand shower shall be located on the back wall, and be no more than 27 inches (685 mm) maximum from the end wall behind the seat.~~

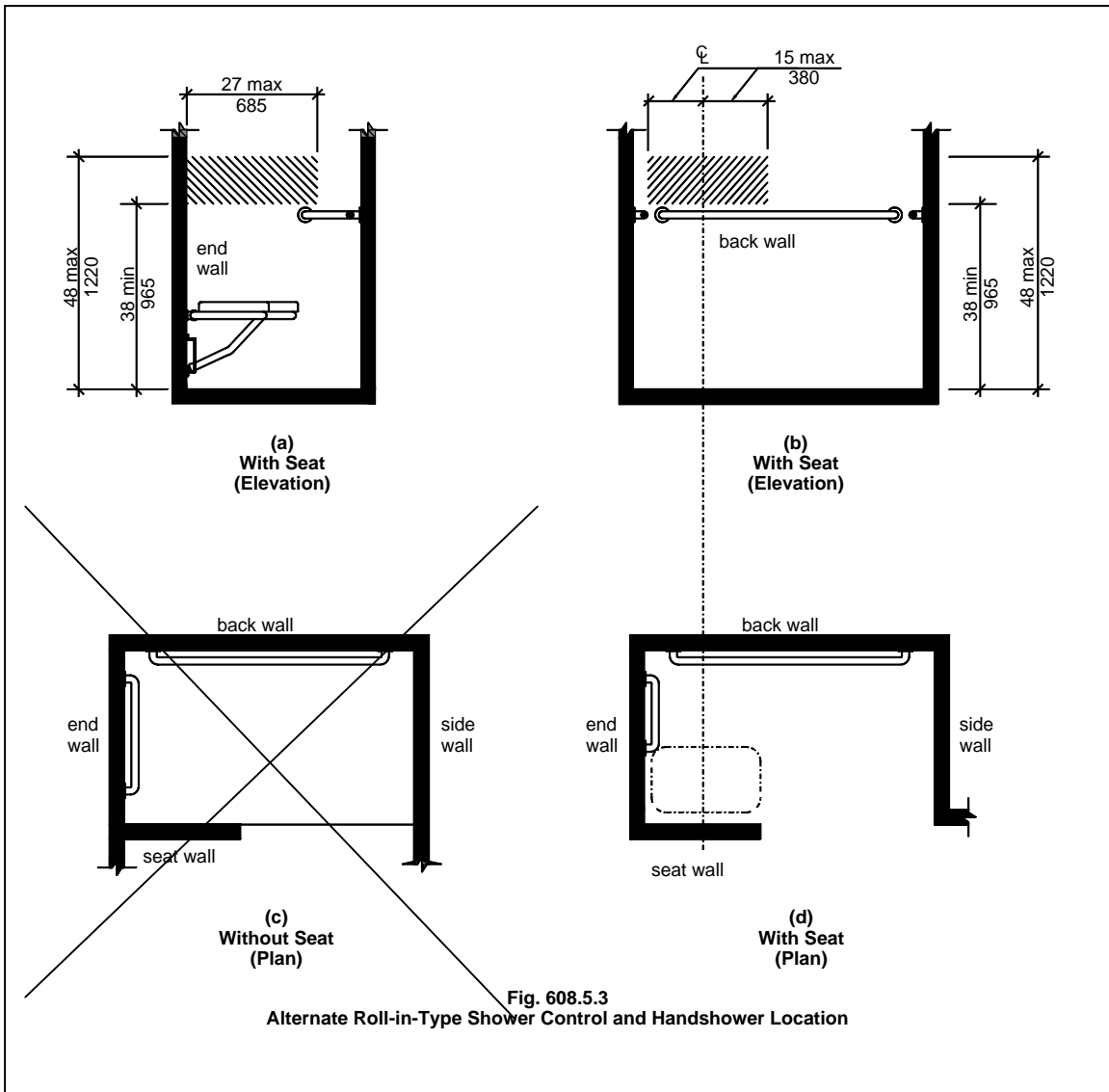
(Item #228)

608.5.3 Alternate Roll-in Showers. In alternate roll-in showers, the controls and hand shower shall be located 38 inches (965 mm) minimum and 48 inches (1220 mm) maximum above the shower floor. In alternate roll-in showers with controls and hand shower located on the end wall adjacent to the seat, the controls and hand shower shall be 27 inches (685 mm) maximum from the seat wall. In alternate roll-in showers with the controls and hand shower located on the back wall opposite the seat, the controls and hand shower shall be located within 15 inches (380 mm), left or right, of the centerline of the seat.

EXCEPTION: ~~A fixed shower head with the controls and shower head located on the back wall opposite the seat shall be permitted.~~

(Item #290)

Delete Fig. 608.5.3 (c) (See below)



(Item #229)

608.6 Hand Showers. A hand shower with a hose 59 inches (1500 mm) minimum in length, that can be used both as a fixed shower head and as a hand shower, shall be provided. The hand shower shall have a control with a nonpositive shut-off feature. Where provided, an adjustable-height hand shower head mounted on a vertical bar shall be installed so as to not obstruct the use of grab bars.

EXCEPTION: In other than Accessible units and Type A units, a fixed shower head located 48 inches (1220 mm) maximum above the shower finish floor shall be permitted in lieu of a hand shower where the scoping provisions of the administrative authority require a fixed shower head.

609 Grab Bars

(Item #230)

609.3 Spacing. The space between the wall and the grab bar shall be 1½ inches (38 mm). The space between the grab bar and projecting objects below and at the ends of the grab bar shall be 1½ inches (38 mm) minimum. The space between the grab bar and projecting objects above the grab bar shall be 12 inches (305 mm) minimum.

EXCEPTIONS:

1. The space between the grab bars and shower controls, shower fittings, and other grab bars above the grab bar shall be permitted to be 1½ inches (38 mm) minimum.
2. ~~Swing up grab bars shall not be required to comply with Section 609.3.~~

(Item #231)

609.7 Installation and Configuration. Grab bars shall be installed in any manner that provides a gripping surface at the locations specified in this standard and does not obstruct the clear floor space. Horizontal and vertical grab bars shall be permitted to be separate bars, a single piece bar, or combination thereof.

610 Seats

(Item #110, #290)

610.3 Shower Compartment Seats. ~~Where a seat is provided in a standard roll-in shower compartment, it shall be a folding type and shall be on the wall adjacent to the controls.~~ The height of the shower compartment seats shall be 17 inches (430 mm) minimum and 19 inches (485 mm) maximum above the bathroom floor, measured to the top of the seat. In transfer-type and alternate roll-in-type showers, the seat shall extend along the seat wall to a point within 3 inches (76 mm) of the compartment entry. In standard roll-in-type showers, the seat shall extend from the control wall to a point within 3 inches (76 mm) of the compartment entry. Seats shall comply with Section 610.3.1 or Section 610.3.2.

611 Washing Machines and Clothes Dryers

(Item #232)

611.4 Height. Top loading machines shall have the door to the laundry compartment 36 inches (915 mm) maximum above the floor. Front loading machines shall have the bottom of the opening to the laundry compartment 15 inches (380 mm) minimum and ~~34~~ 36 inches (~~865~~ 915 mm) maximum above the floor.

(Item #233)

612 Saunas and Steam Rooms

612.1 General. Saunas and steam rooms shall comply with Section 612.

612.2 Bench. Where seating is provided in saunas and steam rooms, at least one bench shall comply with Section 903. Doors shall not swing into the clear floor space required by Section 903.2.

612.3 Turning space. A turning space complying with Section 304 shall be provided within saunas and steam rooms.