

Chapter 6 - Plumbing Elements and Facilities

601 General

601.1 Scope. Plumbing elements and facilities required to be accessible by scoping provisions adopted by the administrative authority shall comply with the applicable provisions of this Chapter 6. *(TGEC)*

602 Drinking Fountains and ~~Water Coolers~~ *(FCA-052)*

602.1 General. Accessible ~~fixed~~ drinking fountains and ~~water coolers~~ shall comply with Sections 602 and 307. *(Proposal 6-002; FCA-052)*

602.2 Clear Floor Space. ~~Units shall have~~ A clear floor or ground space complying with Section 305, ~~positioned for a forward approach and centered on the unit,~~ 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. *(Proposal 6-001; FCA-004; TGEC)*

EXCEPTIONS:

1. Drinking fountains for standing persons. *(Comment PC-6-001-A)*
2. ~~A parallel approach complying with Section 305~~ Drinking fountains primarily for children's use shall be permitted at units primarily for children's use where the spout is 30 inches (760 mm) maximum above the finish floor or ground, and parallel approach complying with Section 305, centered on the unit, is provided. ~~and is 3-1/2 inches (90 mm) from the front edge of the unit, including bumpers.~~
(Proposal 6-001; Comment PC-6-001-A; FCA-004; TGEC)
3. ~~In existing buildings, existing drinking fountains or water coolers providing a parallel approach complying with Section 305, centered on the drinking fountain unit,~~ shall be permitted. *(Comment PC-6-00; TGEC)*
4. ~~Where specifically permitted by the administrative authority, a parallel approach complying with Section 305, centered on the drinking fountain unit,~~ shall be permitted for drinking fountains or water coolers that replace existing drinking fountains with a parallel approach. ~~units, where specifically permitted by the administrative authority.~~
(Comment PC-6-002; TGEC)

602.2.1 Forward Approach. ~~Where a forward approach is provided, the clear floor or ground space shall be centered on the unit and shall include knee and toe clearance complying with Section 306.~~ *(TGEC)*

602.2.2 Parallel Approach. ~~Where a parallel approach is provided, the clear floor or ground space shall be centered on the unit.~~ *(TGEC)*

602.3 Operable Parts. Operable parts shall comply with Section 309.

602.4 Spout Outlet Height. Spout outlets of wheelchair accessible drinking fountains shall be 36 inches (915 mm) maximum above the floor. Spout outlets of drinking fountains for standing persons shall be 38 inches (990 mm) minimum and 43 inches (1090 mm) maximum above the floor. *(Proposals 6-004, CP-156; Comment PC-6-004-A; TGEC)*

602.5 Spout Location. ~~Units with a parallel approach shall have the spout 3¹/₂ inches (89 mm) maximum from the front edge of the unit, including bumpers. Units with a forward approach shall have~~ The spout shall be located 15 inches (380 mm) minimum from the vertical support and 5 inches (125 mm) maximum from the front edge of the drinking fountain unit, including bumpers. Where only a parallel approach is provided, the spout shall be located 3¹/₂ inches (90 mm) maximum from the front edge of the unit, including bumpers.
(Proposals CP-154; Comment PC-6-002; TGEC)

EXCEPTION: ~~Where only a parallel approach is provided, the spout shall be located 3 1/2 inches (90 mm) maximum from the front edge of the unit, including bumpers.~~
(Comment PC-6-002; TGEC)

602.5.1 Drinking Fountains for Standing Persons. ~~Spout outlets of drinking fountains for standing persons shall be 39-38 inches (990 mm) minimum and 43 inches (1090 mm) maximum above the finish floor or ground.~~ **(Proposals 6-004, CP-156; Comment PC-6-004-A; TGEC)**

602.6 Water Flow. The spout shall provide a flow of water 4 inches (102 mm) high minimum in height. ~~to allow the insertion of a cup or glass under the flow of water. Measured horizontally relative to the front face of the unit.~~ The angle of the water stream from spouts within 3 inches (76 mm) of the front of the unit shall be 30 degrees maximum, ~~The angle of the water stream and~~ from spouts between 3 inches (76 mm) and 5 inches (125 mm) from the front of the drinking fountain unit shall be 15 degrees maximum, ~~The angle of the water stream shall be measured horizontally, relative to the front face of the drinking fountain unit.~~ **(Proposal CP-155; TGEC)**

602.7 Protruding Objects. ~~Units shall comply with Section 307.~~ **(Proposal 6-002)**

603 Toilet and Bathing Rooms

603.1 General. Accessible toilet and bathing rooms shall comply with Section 603.

603.2 Clearances.

603.2.1 Wheelchair Turning Space. A wheelchair turning space complying with Section 304 shall be provided within the room. **(Proposal CP-366)**

603.2.2 Overlap. Clear floor or ground spaces, clearances at fixtures, and wheelchair turning spaces shall be permitted to overlap. **(Proposal CP-366; FCA-004)**

603.2.3 Doors Swing. Doors shall not swing into the clear floor or ground space or clearance for any fixture. **(FCA-004; TGEC)**

EXCEPTIONS:

1. Doors to a toilet and 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.
(Proposal CP-157)
2. Where the room is for individual use and a clear floor or ground space complying with Section 305.3 is provided within the room, beyond the arc of the door swing. **(FCA-004)**

603.3 Mirrors. Mirrors located above lavatories, sinks or counters shall be mounted with the bottom edge of the reflecting surface 40-inches (1015 mm) maximum above the floor or ground. Mirrors not located above lavatories, sinks or counters shall be mounted with the bottom edge of the reflecting surface 35-inches (890 mm) maximum above the floor or ground.
(Proposals 6-006, 6-007; FCA-004)

603.4 Coat Hooks and Shelves. ~~Coat hooks provided within toilet rooms shall accommodate a forward reach or side reach complying with~~ shall be located within one of the reach ranges specified in Section 308. Where provided, a fold-down shelf ~~Shelves shall be 40 inches (1015 mm) minimum and 48 inches (1220 mm) maximum above the finish floor or ground.~~
(Proposal CP-158; FCA-004)

604 Water Closets and Toilet Compartments

604.1 General. Accessible water closets and toilet compartments shall comply with Section 604. Compartments containing more than one plumbing fixture shall comply with Section 603. Wheelchair accessible compartments shall comply with Section 604.8. Ambulatory accessible compartments shall comply with Section 604.9. **(Proposal 6-009; FCA-058)**

EXCEPTION: Water closets and toilet compartments primarily for children's use shall be permitted to comply with Section 604.10, as applicable. **(Proposal 6-009; Comment PC-6-011-A; TGEC)**

604.2 Location. The water closet shall be located ~~positioned~~ with a wall or partition to the rear and to one side. The centerline of the water closet shall be 16 inches (405 mm) minimum to 18 inches (455 mm) maximum from the side wall or partition, ~~except that the~~ Water closet shall be centered ~~located in the ambulatory accessible compartment specified in Section 604.9 shall have the centerline of the water closet 17 inches (430 mm) minimum to 19 inches (485 mm) maximum from the side wall or partition.~~ ~~except that the water closet shall be centered in the ambulatory accessible compartment specified in Section 604.8.2.~~
(Proposal 6-009; Comment PC-6-011-A; FCA-054; TGEC)

604.3 Clearance ~~Clear Floor Space.~~ **(Proposal 6-009; TGEC)**

604.3.1 Size Clearance. A clearance around the a water closet shall be 60 inches (1220 mm) minimum, measured perpendicular from the sidewall, and 56 inches (1420 mm) minimum, measured perpendicular from the rear wall, shall be provided. No other fixtures or obstructions shall be within the water closet clearance. **(Proposals 6-009, CP-159; TGEC)**

604.3.2 Overlap. The required clearance around the water closet shall be permitted to overlap the water closet fixture, associated grab bars, tissue paper dispensers, sanitary napkin receptacles disposal units, coat hooks, shelves, accessible routes, and clear floor or ground space, or clearances at other fixtures and the wheelchair turning space. No other fixtures or obstructions shall be within the required water closet clearance.
(Proposals 6-009, 6-010, CP-344, CP-366; FCA-004; TGEC)

604.4 Height. The ~~top~~ height of water closet seats shall be 17 inches (430 mm) minimum and 19 inches (485 mm) maximum above the floor or ground, measured to the top of the seat. Seats shall not be sprung to return automatically to a lifted position. **(Proposal 6-009; FCA-004)**

EXCEPTION: These requirements shall not apply to A water closet in a toilet room 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 604.4. **(Proposal 6-009; TGEC)**

604.5 Grab Bars. Grab bars for water closets shall comply with Section 609 and shall be provided in accordance with Section 604.5. Grab bars shall be provided on the rear wall and on the sidewall closest to the water closet. *(TGEC)*

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 that reinforcement has been installed in walls and located so as to permit the installation of grab bars complying with Section 604.5. *(Proposal 6-009; TGEC)*
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. *(Proposal 6-009)*
3. In Type A units, grab bars are not required to be installed where reinforcement complying that complies with Section 1003.11.9 is installed for the future installation of grab bars. *(TGEC)*
4. ~~In toilet room facilities where assisted service is provided, Type B units located in institutional facilities and assisted living facilities, swing-up type grab bars shall be permitted to be installed in lieu of the rear wall and side wall grab bars. The two bars shall be installed with centerlines 12 inches on both sides of the centerline of the water closet. A minimum of 24 inches clearance to each side of the water closet shall be provided when swing-up grab bars are used. Swing-up grab bars shall comply with Sections 604.5.1.2 and 609. *(Proposal 6-020; Comment PC-6-015-A; TGEC)*~~
5. In a Type B unit, when fixtures are provided on both sides of the water closet, a fold swing-down grab bar complying with Sections 604.5.2 and 609 is shall be permitted. The fold swing-down grab bar shall be installed on the side of the water closet with the 18" clearance required by Section 1004.11.3.1.2. *(Comment PC-10-028-A; TGEC)*

Comment PC-6-015-A

~~**604.5.1 Side Wall Grab Bars.** Fixed side wall grab bars shall comply with Section 604.5.1.1. Swing-up grab bars shall comply with Section 604.5.1.2. *(FCA-081; TGEC)*~~

604.5.1 Fixed Side Wall Grab Bars. Fixed sidewall grab bar shall be 42 inches (1065 mm) long 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 between 3 inches (75 mm) and 6 inches (150 mm) above the horizontal grab bar with the center line of the bar located between 39 inches (990 mm) and 41 inches (1040 mm) from the rear wall from 11 inches (280 mm) to 13 inches (330 mm) beyond the front edge of the water closet. *(Proposals 6-009, 6-017; Comment PC-6-014-A; FCA-081; TGEC)*

EXCEPTIONS:

1. In Type A and Type B units, the vertical grab bar component is not required in dwelling Type A and Type B dwelling. *(Proposal 6-017; Comment PC-6-014-A; TGEC)*
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) long minimum in length, located 12 inches (305 mm) maximum from the rear wall, and extending 30 inches (760 mm) minimum from the rear wall. *(Comment PC-10-028-A; TGEC)*

604.5.2 609.9 Swing-up Grab Bars. ~~Swing-up grab bars shall not be less than 28 inches in length measured from the finished wall. The size of the swing-up grab bar shall comply with Section 609.2. The structural strength of the swing-up grab bar shall comply with Section 609.8. Where swing-up grab bars are installed, provide 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 centerlines 15¾ inches (400 mm) from the centerline of the water closet. Swing-up grab bars shall be 28 inches minimum (710 mm) in length, measured from the wall to the end of the horizontal portion of the grab bar.~~
(Proposal 6-076; Comment PC-6-015-A; FCA-081; TGEC)

604.5.3 604.5.2 Rear Wall Grab Bars. ~~The rear grab bar shall be 24 36 inches (915 mm) long minimum in length centered on the water closet and extend from the centerline of the water closet 12 inches (305 mm) minimum on one the side closest to the wall, and 24 inches (610 mm) minimum on the other transfer side. Where space permits the grab bar shall be 36 inches (915 mm) long minimum, with the additional length provided on the transfer side of the water closet.~~
(Proposal 6-009; Comment PC-6-011-A; TGEC)

EXCEPTIONS:

1. ~~The rear grab bar shall be permitted to be 24-inches (610 mm) long minimum in length, centered on the water closet, where wall space does not permit a grab bar length of 36 inches (915 mm) minimum in length due to the location of a recessed fixture adjacent to the water closet. (Proposal 6-009; TGEC)~~
2. ~~In a Type A or Type B unit, the rear grab bar shall be permitted to be 24 inches (610 mm) long minimum in length, centered on the water closet, where wall space does not permit a grab bar length of 36 inches (915 mm) minimum in length. (Comment PC-10-028-A)~~
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, then that grab bar shall be permitted to be split or shifted to the open side of the toilet area. (Proposals 6-009, 6-018)~~

604.6 Flush Controls. ~~Flush controls shall be hand operated or automatic. Hand operated flush controls shall comply with Section 309. Flush controls shall be located on the open side of the water closet except in ambulatory accessible compartments complying with Section 604.8.2.~~
(Proposal 6-009; TGEC)

EXCEPTION: ~~In ambulatory accessible compartments complying with Section 604.9, flush controls shall be permitted to be located on either side of the water closet. (TGEC)~~

604.7 Dispensers. ~~Toilet paper dispensers shall comply with Section 309.4 and shall be 7 inches (180 mm) minimum and 9 inches (230 mm) maximum in front of the water closet measured to the centerline of the dispenser. The outlet of the dispenser shall be 15 inches (380 mm) minimum and 48 inches (1220 mm) maximum above the finish floor or ground and shall not be located behind the grab bars. There shall be a clearance of 1½ inches (38 mm) minimum below and 12 inches (305 mm) minimum above the grab bar. Dispensers shall not be of a type that control delivery, or that do not allow continuous paper flow. (Proposals 6-009, CP-160; FCA-004; TGEC)~~

604.8 Toilet Compartments. ~~Accessible toilet compartments shall comply with Sections 604.8.1 through 604.8.5. Compartments containing more than one plumbing fixture shall comply with 603. Water closets in accessible toilet compartments shall comply with Sections 604.1 through 604.7. Wheelchair accessible toilet compartments shall comply with Sections 604.8.1 and 604.8.3. Ambulatory accessible compartments shall comply with Sections 604.8.2 and 604.8.3.~~
(Proposal 6-009; FCA-058)

604.8.1 Wheelchair Accessible Compartments.

604.8.1 General. Wheelchair accessible compartments shall comply with Section 604.8 (FCA-058; TGEC)

604.8.2 604.8.1.1 Size. The minimum area of a wheelchair accessible compartments shall be 60 inches (1525 mm) ~~wide~~ minimum in width measured perpendicular to the side wall, and 56 inches (1420 mm) ~~deep~~ minimum in depth for wall hung water closets and 59 inches (1500 mm) ~~deep~~ minimum in depth for floor mounted water closets, measured perpendicular to the rear wall. The minimum area of a wheelchair accessible compartments for primarily children's use shall be 60 inches (1525 mm) ~~wide~~ minimum in width measured perpendicular to the side wall, and 59 inches (1500 mm) ~~deep~~ minimum in depth for wall hung and floor mounted water closets measured perpendicular to the rear wall. (Proposal 6-009; Comment PC-6-011-A; TGEC)

604.8.3 604.8.1.2 Doors. Toilet compartment doors, including door hardware, shall comply with Section 404 except that 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 a minimum of 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 required compartment area. (Proposal 6-009; TGEC)

604.8.4 604.8.1.3 Approach. Compartment arrangements shall be permitted arranged for left-hand or right-hand approach to the water closet. (Proposal 6-009)

604.8.5 604.8.1.4 Toe Clearance. In wheelchair accessible compartments, The front partition and at least one side partition shall provide a toe clearance ~~complying with Section 306.2 of 9-~~ inches (230 mm) minimum above the finish floor and extending 6 inches (150 mm) deep beyond the compartment side face of the partition, exclusive of partition support members. ~~Toe clearance at the front of the partition is not required in a compartment greater than 62 inches (1575 mm) deep with a wall hung water closet or 65 inches (1650 mm) deep with a floor mounted water closet. Toe clearance at the side partition is not required in a compartment greater than 66 inches (1675 mm) wide. Compartments primarily for children's use shall provide a toe clearance of 12-~~ inches (305 mm) minimum above the finish floor and extending 6 inches (150 mm) deep beyond the compartment side face of the partition, exclusive of partition support members. (Proposals 6-009, CP-161; Comments PC-6-011-A & PC-6-018; FCA-004)

EXCEPTIONS:

1. Toe clearance at the front partition is not required in a compartment greater than 62 inches (1575 mm) in depth ~~deep~~ with a wall-hung water closet or greater than 65 inches (1650 mm) in depth ~~deep~~ with a floor-mounted water closet. ~~Toe clearance at the front partition is not required~~ In a compartment primarily for children's use, ~~that is greater than 65 inches (1650 mm) in depth ~~deep~~, toe clearance at the front partition is not required.~~
2. Toe clearance at the side partition is not required in a compartment greater than 66 inches (1675 mm) in width ~~wide~~.

(Proposals 6-009, CP-161; Comment PC-6-018; TGEC)

604.8.6 Grab Bars. Grab bars shall comply with Section 609. ~~A~~ Side wall grabs bar complying with Section 604.5.1 located on the wall closest to the water closet, and a rear wall grab bar complying with Section 604.5.3, shall be provided. (Proposal 6-009; FCA-071)

604.9 Ambulatory Accessible Compartments. (Proposal 6-009)

604.9.1 General. Ambulatory accessible compartments shall comply with Section 604.9. (FCA-058; TGEC)

604.9.2 604.8.2 Size. The minimum area of an ambulatory accessible compartments shall be 60 inches (1525 mm) deep minimum in depth and 36 inches (915 mm) wide in width. Compartment doors shall not swing into the minimum required compartment area. (Proposal 6-009; FCA-059b; TGEC)

604.9.3 604.8.3 Doors. Toilet compartment doors, including door hardware, shall comply with Section 404, except that if the approach is to the latch side of the compartment door, the clearance between the door side of the compartment and any obstruction shall be 42 inches (1065 mm) minimum. The door shall be hinged 4 inches (100 mm) maximum from the adjacent wall or partition farthest from the water closet. 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. Compartment doors shall not swing into the required minimum required area of the compartment area. (Proposal 6-009; TGEC)

604.9.4 604.8.4 Grab Bars. Grab bars shall comply with Section 609. A Side-wall grab bars complying with Section 604.5.1 located on the wall closest to the water closet, and a rear wall grab bar complying with Section 604.5.3, shall be provided on both sides of the compartment. (Proposal CP-162; FCA-071)

604.8.4.1 Wheelchair Accessible Compartments. A Sidewall grab bars complying with Section 604.5.1 shall be provided on the wall closest to the water closet, and a rear wall grab bar complying with Section 604.5.2 shall be provided. (Proposal 6-031, CP-163)

604.8.4.2 Ambulatory Accessible Compartments. A Sidewall grab bars complying with Section 604.5.1 shall be provided on both sides of the compartment. (Proposals 6-031, CP-164)

604.10 Water Closets and Toilet Compartments for Children's Use. (TGEC)

604.10.1 General. Accessible water closets and toilet compartments for primarily children's use shall comply with Section 604.10. (Proposal 6-009; Comment PC-6-011-A; FCA-058; TGEC)

604.10.2 Location. The water closet shall be located with a wall or partition to the rear and to one side. The centerline of the water closet shall be 12 inches (305 mm) minimum to 18 inches (455 mm) maximum from the side wall or partition, except that the Water closets located in shall be centered in the ambulatory accessible toilet compartment specified in Section 604.9 shall be located as specified in Section 604.2. (Proposal 6-009; FCA-054)

604.10.3 Clearance Floor Space. A clearance around a water closet shall complying with Section 604.3 shall be provided. (Proposal 6-009; TGEC)

604.10.4 Height. The height of water closets seats shall be 11 inches (280 mm) minimum to and 17 inches (430 mm) maximum above the floor, measured to the top of the toilet seat. Seats shall not be sprung to return to a lifted position. (Proposal 6-009)

604.10.5 Grab Bars. Grab bars for water closets shall comply with Section 604.5. (Proposal 6-009)

604.10.6 Flush Controls. Flush controls shall be hand operated or automatic. Hand operated flush controls shall comply with Sections 309.2 and 309.4 and shall be installed 36 inches (915 mm) maximum above the finish floor. Flush controls shall be located on the open side of the water closet except in ambulatory accessible compartments complying with 604.8.2. **(Proposal 6-009; Comment PC-6-011-A; FCA-004; TGEC)**

EXCEPTION: In ambulatory accessible compartments complying with Section 604.9, flush controls shall be permitted to be located on either side of the water closet. **(TGEC)**

604.10.7 Dispensers. Toilet paper dispensers shall comply with Section 309.4 and shall be 7 inches (180 mm) minimum and 9 inches (230 mm) maximum in front of the water closet measured to the center line of the dispenser. The outlet of the dispenser shall be 14 inches (355 mm) minimum and 19 inches (485 mm) maximum above the finish floor. There shall be a clearance of 1½-inches (38 mm) minimum below the grab bar. Dispensers shall not be of a type that control delivery or that do not allow continuous paper flow. **(Proposal 6-009; Comment PC-6-011-A; FCA-004)**

604.10.8 Toilet Compartments. Toilet compartments shall comply with Section 604.8 and 604.9, as applicable. **(Proposal 6-009)**

604.11 604.8.5 Coat Hooks and Shelves. Coat hooks provided within toilet compartments shall be 48 inches (1220 mm) maximum above the floor or ground. Where provided, a fold down shelf Shelves shall be 40 inches (1015 mm) minimum and 48 inches (1220 mm) maximum above the floor or ground. **(Proposal 6-009; FCA-004, FCA-058)**

605 Urinals

605.1 General. Accessible urinals shall comply with Section 605.

605.2 Height. Urinals shall be of the stall type or shall be of the wall hung type with the rim at 17 inches (430 mm) maximum above the floor or ground. Urinals shall provide a minimum depth of 13½ inches (345 mm) measured from the outer face of the urinal rim to the back of the fixture. **(Proposal 6-034; FCA-004)**

605.3 Clear Floor or Ground Space. A clear floor or ground space complying with Section 305 positioned for forward approach shall be provided. **(FCA-004)**

605.4 Flush Controls. Flush controls shall be hand operated or automatic. Hand operated flush controls shall comply with Section 309.

606 Lavatories and Sinks

606.1 General. Accessible lavatories and sinks shall comply with Section 606.

606.2 Clear Floor or Ground Space. A clear floor or ground space complying with Section 305.3, positioned for forward approach, shall be provided. and 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. **(Proposal CP-166; FCA-004; TGEC)**

EXCEPTIONS:

1. A parallel approach complying with Section 305 shall be permitted to a kitchen sink in a space where a cook top or conventional range is not provided. (Proposals 6-036, CP-166)
2. The requirement for knee and toe clearance shall not apply to a lavatory in a toilet and bathing facility for a single occupant, accessed only through a private office and not for common use or public use. (Proposal CP-166)
3. A knee clearance of 24-inches (610 mm) minimum above the floor or ground shall be permitted at lavatories and sinks used primarily by children ages 6 through 12 where the rim or counter surface is 31-inches (760 mm) maximum above the finish floor or ground. (Proposals 6-041, CP-166; FCA-004)
4. A parallel approach complying with Section 305 shall be permitted in lieu of a forward approach to at lavatories and sinks used primarily by children ages 5 and younger. (Proposals 6-041, CP-166; FCA-119)
- ~~5-2. The dip of the overflow shall not be considered in determining knee and toe clearances. (Proposal CP-166; TGEC)~~
5. The requirement for knee and toe clearance shall not apply to more than one bowl of a multi-bowl sink. (Proposal 6-038, CP-166)
6. A parallel approach shall be permitted in kitchenettes and at wet bars. (Proposals 6-037, CP-166)
8. A parallel approach shall be permitted to a laboratory sink where hazardous or corrosive chemicals are used. (Comment PC-6-026; FCA-063)

606.3 Height and Clearances. The front of lavatories and sinks shall be installed with the front of the higher of the rim or counter surface 34 inches (865 mm) maximum above the finish floor or ground, measured to the higher of the fixture rim or counter surface. (Proposal CP-167; FCA-004; TGEC)

EXCEPTION: This requirement shall not apply to A lavatory in a toilet and 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. (Proposal CP-167 TGEC)

606.4 Faucets. Faucets shall comply with Section 309. Hand-operated, self-closing metering faucets shall remain open for 10 seconds minimum. (Proposal CP-168)

606.5 Lavatories with Enhanced Reach Range. Where enhanced reach range is required at lavatories, faucets and soap dispenser controls shall have a maximum reach depth of 11 inches (280 mm) maximum or, if automatic, shall be activated within a maximum reach depth of 11 inches (280 mm) maximum. Water and soap flow shall be provided with a maximum reach depth of 11 inches (280 mm) maximum. (Proposals 6-043, 6-044; TGEC)

Exception: In Type A and Type B units, reach range for lavatory faucets and soap dispensers are not required in Type A and Type B units. (Comment PC-6-031-A; TGEC)

606.5 Bowl Depth. Sinks shall be 6¹/₂-inches (165 mm) deep maximum. Multiple compartment sinks shall have at least one compartment complying with this requirement. (Proposals 6-038)

606.6 Exposed Pipes and Surfaces. Water supply and drainpipes under lavatories and sinks shall be insulated or otherwise configured to protect against contact. There shall be no sharp or abrasive surfaces under lavatories and sinks.

606.7 Operable Parts. Operable parts on towel dispensers and hand dryers air blowing units shall comply with the following Table 606.7. (Proposals 6-047, 6-048; FCA-119)

Table 606.7 – Operable Parts

<u>Maximum Reach Depth</u>	<u>.5 inch (15 mm)</u>	<u>2 inches (50 mm)</u>	<u>5 inches (130 mm)</u>	<u>6 inches (155 mm)</u>	<u>9 inches (230 mm)</u>	<u>11 inches (280 mm)</u>
<u>Maximum Reach Height</u>	<u>48 inches (1220 mm)</u>	<u>46 inches (1170 mm)</u>	<u>42 inches (1065 mm)</u>	<u>40 inches (1015 mm)</u>	<u>36 inches (915 mm)</u>	<u>34 inches (865 mm)</u>

(Proposals 6-047, 6-048; TGEC)

607 Bathtubs

607.1 General. Accessible bathtubs shall comply with Section 607.

607.2 Clearance. ~~A clearance in front of bathtubs, shall extending the length of the bathtub and shall be 30 inches (760 mm) wide minimum in width shall be provided. A lavatory complying with Section 606 shall be permitted at the foot control end of the clearance.~~ Where a permanent seat is provided at the head end of the bathtub, the clearance shall extend ~~a minimum of 12 inches (305 mm)~~ minimum beyond the wall at the head end of the bathtub.

(Proposals 6-049, 6-050, CP-003; TGEC)

607.3 Seat. A permanent seat at the head end of the bathtub or a removable in tub seat shall be provided. Seats shall comply with Section 610.

607.4 Grab Bars. Grab bars shall comply with Sections ~~607.4 and 609~~ and shall be provided in accordance with Section 607.4.1 or 607.4.2. *(Proposal CP-169)*

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 that reinforcement has been installed in walls and located so as to permit the installation of grab bars complying with Section 607.4. *(Proposal CP-169; TGEC)*
2. In Type A units, grab bars are not required to be installed where reinforcement complying with Section 1003.11.9 is installed for the future installation of grab bars. *(TGEC)*

607.4.1 Bathtubs With Permanent Seats. For bathtubs with permanent seats, grab bars complying with Sections ~~607.4.1.1 and 607.4.1.2~~ shall be provided.

607.4.1.1 Back Wall. Two horizontal grab bars shall be provided on the back wall, one complying with Section 609.4 and other 9 inches (230 mm) 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 ~~foot control~~ end wall. *(Proposals 6-052, CP-003; TGEC)*

607.4.1.2 Foot Control End Wall. ~~A grab bar 24 inches (610 mm) long minimum shall be provided on the foot control end wall at the front edge of the bathtub. Control end wall grab bars shall comply with Sections 607.4.1.2.1 and 607.4.1.2.2.~~ *(Proposals CP-003; Comment PC-6-040-C; TGEC)*

Exception: An L-shaped continuous grab bar of equivalent dimensions and positioning shall be permitted to serve the function of ~~the~~ separate vertical and horizontal grab bars.

(Comment PC-6-040-C; TGEC)

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

(Comment PC-6-040-C; TGEC)

607.4.1.2.2 Vertical Grab Bar. A vertical grab bar 18 inches (455 mm) ~~long~~ minimum in length shall be provided on the control end wall 3 inches (75 mm) minimum to 6 inches (150 mm) maximum above the horizontal grab bar and 4 inches (225 mm) maximum inward from the front edge of the bathtub. ***(Comment PC-6-040-C; TGEC)***

607.4.2 Bathtubs Without Permanent Seats. For bathtubs without permanent seats, grab bars complying with Sections 607.4.2.1 through ~~607.4.2.3~~ shall be provided.

607.4.2.1 Back Wall. Two horizontal grab bars shall be provided on the back wall, one complying with Section 609.4 and other 9 inches (230 mm) above the rim of the bathtub. Each grab bar shall be 24 inches (610 mm) ~~long~~ minimum in length and shall be 24 inches (610 mm) maximum from the head end wall and extend to 12 inches (305 mm) maximum from the ~~feet~~ control end wall. ***(Proposal CP-003; TGEC)***

607.4.2.2 Foot Control End Wall. A ~~grab bar 24 inches (610 mm) long minimum shall be provided on the foot control end wall at the front edge of the bathtub.~~ Control end wall grab bars shall comply with Sections 607.4.2.2.1 and 607.4.2.2.2.

(Proposals 6-052, CP-003; Comment PC-6-040-C; TGEC)

Exception: An L-shaped continuous grab bar of equivalent dimensions and positioning shall be permitted to serve the function of ~~the~~ separate vertical and horizontal grab bars.

(Comment PC-6-040-C; TGEC)

607.4.2.2.1 Horizontal Grab Bar. A horizontal grab bar 24 inches (610 mm) ~~long~~ minimum in length shall be provided on the control end wall beginning near the front edge of the bathtub and extending toward the inside corner of the bathtub. ***(Comment PC-6-040-C; TGEC)***

607.4.2.2.2 Vertical Grab Bar. A vertical grab bar 18 inches (455 mm) ~~long~~ minimum in length shall be provided on the control end wall 3 inches (75 mm) minimum to 6 inches (150 mm) maximum above the horizontal grab bar and 4 inches (225 mm) maximum inward from the front edge of the bathtub.

(Comment PC-6-040-C)

607.4.2.3 Head End Wall. A horizontal grab bar 12 inches (305 mm) ~~long~~ minimum in length shall be provided on the head end wall at the front edge of the bathtub. ***(TGEC)***

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

607.6 Hand Shower ~~Spray Unit and Water~~. A hand shower spray unit shall be provided, with a hose 59 inches (1500 mm) long minimum in length that can be used as both as a fixed shower head and as a hand held shower shall be provided. The hand shower spray unit shall have a water-on and water-off a volume control mechanism on the hand-held portion of the unit with a non-positive shut-off feature. If An adjustable-height hand shower head on a vertical bar is used, the bar shall be installed so as to not to obstruct the use of grab bars.
(Proposals 6-054, CP-170; Comment PC-6-042; TGEC)

607.7 Bathtub Enclosures. Bathtub Enclosures for bathtubs shall not obstruct controls or transfer from wheelchairs onto bathtub seats or into bathtubs. Bathtub Enclosures on bathtubs shall not have tracks installed on the rim of the bathtub.
(Proposal CP-171)

607.8 Water Temperature. Bathtubs shall deliver water that is 120 degrees F (49 degrees C) maximum. *(FCA-071b)*

608 Shower Compartments

608.1 General. Accessible shower compartments shall comply with Section 608.

608.2 Size and Clearances.

608.2.1 Transfer-Type Shower Compartments. Transfer-type shower compartments shall ~~be~~ have an inside finished dimension of 36 inches (915 mm) wide in width and by 36 inches (915 mm) in depth ~~deep inside finished dimension~~, measured at the center point of opposing sides. ~~and shall have a minimum~~ An entry 36 inches (915 mm) minimum in width ~~wide entry shall be provided~~ on the face of the shower compartment. The A clearance in front of the compartment shall be of 48 inches (1220 mm) long minimum in length measured perpendicular from the control wall, and 36 inches (915 mm) ~~wide~~ minimum in depth shall be provided adjacent to the open face of the compartment. Where the clearance is in an alcove or otherwise confined on part of three sides, the length of the clearance shall be 60 inches minimum.
(Proposal 6-069, Comment PC-6-049-A; TGEC)

608.2.2 Standard Roll-In-Type Shower Compartment. Roll-in-type shower compartments shall ~~be 30~~ have a clear inside dimension of 60 inches (1525 mm) wide minimum in width by 60 and 30 inches (706 mm) deep minimum in depth ~~clear inside dimension~~, measured at the center point of opposing sides. ~~and shall have~~ An entry 60 inches (1525 mm) wide minimum in width shall be provided on the face of the shower compartment. A clearance of 30 60 inches (760 mm) wide minimum in length adjacent to the 60 inch (1525 mm) width of the open face of the shower compartment. by and 60 30 inches (1525 mm) long minimum in depth ~~clearance~~ shall be provided adjacent to the open face of the shower compartment. A lavatory complying with Section 606 shall be permitted at the end of the clearance space 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 space.
(Proposal CP-172; FCA-073b; TGEC)

608.2.3 Alternate Roll-In-Type Shower Compartment. ~~Alternate roll-in shower compartments shall be 36 inches (915 mm) wide minimum in width and 60 and 36 inches (1220 mm) deep in depth minimum, measured at the center point of opposing sides. An entry 36 inches (915 mm) wide minimum in width entry shall be provided at one end of the long side 60 inch width of the compartment. A seat wall, 24 inches (610 mm) long minimum and 36 inches (915 mm) long maximum in length, shall be provided on the entry side of the compartment. The shower unit and controls shall be mounted on the end wall furthest from the compartment entry. (Proposal 6-066; Comment PC-6-046-B)~~

608.3 Grab Bars. ~~Grab bars shall comply with Sections 608.3 and 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 finish floor. (Proposal CP-173; FCA-004)~~

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 that reinforcement has been installed in walls and located so as to permit the installation of grab bars complying with Section 608.3. (Proposal CP-173)
2. In Type A units, grab bars are not required to be installed where reinforcement that complies with Section 1003.11.9 is installed for the future installation of grab bars. (TGEC)

608.3.1 Transfer-Type Showers. ~~Grab bars shall be provided across the control wall and on the back wall to a point 18 inches (455 mm) from the control wall. Grab bars for transfer type showers shall comply with 608.3.1. (Comment PC-6-043-B)~~

EXCEPTION: ~~An L-shaped continuous grab bar of equivalent dimensions and positioning shall be permitted to serve the function of the vertical and horizontal grab bar. (Comment PC-6-043-B; FCA-074)~~

608.3.1.1 Horizontal Grab Bars. ~~Horizontal grab bars shall be provided across the control wall and on the back wall to a point 18 inches (455 mm) from the control wall. (Comment PC-6-043-B)~~

608.3.1.2 Vertical Grab Bar. ~~A vertical grab bar 18 inches (455 mm) long minimum in length shall be provided on the control end wall 3 inches (76 mm) minimum to 6 inches (150 mm) maximum above the horizontal grab bar and 4 inches (105 mm) maximum inward from the front edge of the shower. (Comment PC-6-043-B)~~

608.3.1.3 Grab Bar Configuration. ~~Grab bars complying with 608.3.1.1 and 608.3.1.2 shall be permitted to be separate bars, a single piece bar, or combination thereof. (Comment PC-6-043-B)~~

608.3.2 Standard Roll-In-Type Showers. ~~In standard roll-in type showers, grab bars shall be provided on the three walls of the 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. (FCA-076)~~

EXCEPTIONS:

- ~~1. Where a seat is provided in a roll-in shower, grab bars shall not extend over the seat at the control wall and shall not be behind the seat.~~
- ~~2. In alternate roll-in type showers, grab bars shall not be required on the sidewall opposite the control wall and shall not be behind the seat. (FCA-076)~~

608.3.3 Alternate Roll-In-Type Showers. In alternate roll-in type showers, grab bars shall be provided on the back wall and the end wall adjacent to the seat. Grab bars shall not be provided above the seat. Grab bars shall be 6 inches (150 mm) maximum from the adjacent wall.
(FCA-076)

608.4 Seats. A attachable or integral 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. ~~Where the scoping provisions of the administrative authority require a seat in roll-in showers, a folding seat shall be provided.~~ In standard and alternate roll-in-type showers where a seat is provided, if the seat extends over the minimum clear inside dimension floor space required by Sections 608.2.2 or 608.2.3, the seat shall be a folding seat. Seats shall comply with Section 610.
(Proposal CP-174; Comments PC-6-045 & PC-6-046-B; TGEC)

Exception:

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 that reinforcement has been installed in walls and located so as to permit the installation of a shower seat complying with Section 608.4. (Comments PC-6-045 & PC-6-046-B)
2. In Type A units, grab bars are not required to be installed where reinforcement that complies with Section 1003.11.9 is installed for the future installation of grab bars. (TGEC)

608.5 Controls and Hand Showers. Shower or and bathtub/shower facilities shall deliver water that is thermal shock protected to 120 degrees F maximum. Faucets and controls shall comply with Sections 608.5 and 309.4. Controls in roll-in showers shall be above the grab bar but no higher than 48 inches (1220 mm) above the shower floor. In transfer-type shower compartments, controls, faucets, and the shower unit shall be on the sidewall opposite the seat 38 inches (965 mm) minimum and 48 inches (1220 mm) maximum above the shower floor.
(Proposals 6-065, 6-066; FCA-077; TGEC)

608.5.1 Transfer-type Showers. In transfer-type shower compartments, controls faucets, and the hand shower unit shall be located on the side control wall opposite the seat, 38 inches (965 mm) minimum and 48 inches (1220 mm) maximum above the shower floor. The controls and shower spray unit shall be on the control wall within 15 inches (380 mm), left or right, of the centerline of the seat. [Relocated from Sections 608.5 & 608.6] (Proposal 6-066; FCA-077; TGEC)

608.5.2 Standard Roll-in Showers. In standard roll-in showers, the controls and hand shower spray units in standard roll-in showers shall be located above the grab bar but no higher than 38 inches (965 mm) minimum and 48 inches (1220 mm) above the shower finish shower floor. In standard roll-in showers with seats, the controls and hand shower spray units shall be located on the back wall adjacent to the seat, no more than 27 inches (685 mm) maximum from the side end wall behind the seat. [Partly relocated from 608.5]
(Proposal 6-066; Comment PC-6-046-B; FCA-004, FCA-007; TGEC)

608.5.2 Alternate Roll-in Showers. Controls In alternate roll-in showers, the controls and hand shower shall be above the grab bar but no higher than located 38 inches (965 mm) minimum and 48 inches (1220 mm) maximum above the shower finish floor. In alternate roll-in showers with seats, controls and hand shower spray units located on the end wall adjacent to the seat, the controls and hand shower spray unit shall be 27 inches (685 mm) maximum from the side end wall behind the seat. In alternate roll-in showers with seats, controls and hand shower spray units located on the wall opposite the seat, the controls and hand shower spray unit shall be located within 15 inches (380 mm), left or right, of the centerline of the seat. [Partly relocated from 608.5]
(Proposal 6-066; Comment PC-6-046-B; FCA-004, FCA-007; TGEC)

EXCEPTION: ~~Where A fixed shower head is provided, with the controls and shower head unit shall be located on the wall opposite the seat shall be permitted.~~ **(Comment PC-6-046-B; TGEC)**

608.6 Hand Showers Spray Unit. ~~A hand shower spray unit shall be provided, with a hose 59 inches (1500 mm) long minimum in length that can be used as both a fixed showerhead and as a hand held shower shall be provided. In transfer-type showers, the controls and shower unit shall be on the control wall within 15 inches (380 mm), left or right, of the centerline of the seat. In roll-in showers, shower spray units mounted on the back wall shall be 27 inches (685 mm) maximum from the side wall. The hand shower spray unit shall have a water-on and water-off control mechanism with a non-positive shutoff feature on the hand-held portion of the unit. If An adjustable height hand showerhead mounted on a vertical bar is used, the bar shall be installed so as to not obstruct the use of grab bars.~~

(Proposals 6-066, 6-067, CP-175; Comment PC-6-048-A; FCA-007; TGEC)

EXCEPTION: ~~A fixed shower head shall be permitted in lieu of a hand shower held spray unit where the scoping provisions of the administrative authority require a fixed shower head.~~ **(Proposal CP-175; Comment PC-6-046-B)**

608.7 Location of Controls and Shower Unit **(Proposal 6-066)**

608.7.1 Transfer-type Showers. ~~In transfer-type shower compartments, controls, faucets, and the shower unit shall be on the side wall opposite the seat, 38 inches (965 mm) minimum and 48 inches (1220 mm) maximum above the shower floor. (relocated from 608.5) The controls and shower spray unit shall be on the control wall within 15 inches (380 mm), left or right, of the centerline of the seat. (relocated from 608.6; re-relocated to 608.5.1)~~ **(Proposal 6-066; FCA-007)**

608.7 Thresholds. ~~Thresholds in roll-in-type Shower compartments thresholds shall be 1/2-inch (13 mm) high maximum in height and shall comply in accordance with Section 303. In transfer-type shower compartments, thresholds 1/2-inch (13 mm) high maximum in height shall be beveled, rounded, or vertical.~~ **(Proposal CP-176)**

EXCEPTION: ~~In existing facilities, in transfer-type shower compartments where provision of a 1/2 inch (13 mm) high threshold in height would disturb the structural reinforcement of the floor slab, a threshold 2 inches (51 mm) high maximum in height shall be permitted in transfer-type shower compartments in existing facilities where provision of a 1/2-inch (13 mm) high threshold would disturb the structural reinforcement of the floor slab.~~ **(Proposal CP-176; TGEC)**

608.8 Shower Enclosures. Shower compartment enclosures for shower compartments shall not obstruct controls or obstruct transfer from wheelchairs onto shower seats.

608.9 Water Temperature. Showers shall deliver water that is 120 degrees F (49 degrees C) maximum. **(FCA-077)**

609 Grab Bars

609.1 General. Grab bars in accessible toilet or bathing facilities shall comply with Section 609. ~~Wall mounted grab bars in accessible toilet or bathing facilities shall comply with Section 609.2 through 609.8. Swing-up grab bars shall comply with Section 609.2 and 609.4 through 609.9.~~ **(Comment PC-6-015-A; FCA-081)**

609.2 Cross Section. Grab bars shall have a cross section complying with Section 609.2.1 or Section 609.2.2. **(Proposal CP-177; TGEC)**

609.2.1 609.2 Size Circular Cross Section. ~~Grab bars shall have a~~ with a circular cross sections with a shall have an outside diameter of 1¹/₄ inch (32 mm) minimum and 2 inches (51 mm) maximum, ~~or shall provide equivalent graspability complying with Section 609.2.1.~~
(*Proposal CP-178; TGEC*)

609.2.2 609.2.1 Non-Circular Cross Sections. ~~Grab bars with other shapes a~~ non-circular cross sections shall be permitted ~~provided they have a~~ maximum cross section dimension of 2 inches (51 mm) maximum, and a perimeter dimension of 4 inches (102 mm) minimum and 4.8 inches (120 mm) maximum and with edges having a 1/8-inch (3.2 mm) minimum radius.
(*Proposal CP-179; TGEC*)

609.3 Spacing. The space between the wall and the grab bar shall be 1¹/₂ inches (38 mm). The space between the grab bar and projecting objects below and at the ends of the grab bar shall be 1¹/₂ inches (38 mm) minimum. The space between the grab bar and projecting objects above the grab bar shall be 12 inches (305 mm) ~~15 inches (355 mm)~~ minimum.
(*Proposals 6-072, CP-180; TGEC*)

EXCEPTIONS:

1. The space between the grab bars and shower controls, shower fittings, and other grab bars above shall be permitted to be 1¹/₂ inches (38 mm) minimum. (*TGEC*)
2. ~~These requirements shall not apply to~~ Swing-up grab bars shall not be required to comply with Section 609.3. (*FCA-081*)

609.4 Position of Grab Bars. Grab bars shall be ~~mounted~~ installed in a horizontal position, 33-inches (840 mm) minimum and 36-inches (915 mm) maximum above the ~~finish~~ floor measured to the top of the gripping surface, except that: At water closets primarily for children's use complying with Section 604.9, grab bars shall be installed in a horizontal position 18 inches (455 mm) minimum to 27 inches (685 mm) maximum above the floor measured to the top of the gripping surface. (*Comment PC-6-050; FCA-004; TGEC*)

EXCEPTIONS:

1. ~~At water closets primarily for children's use complying with Section 604.9, grab bars shall be installed in a horizontal position 18 inches (455 mm) minimum to 27 inches (685 mm) maximum above the finish floor measured to the top of the gripping surface.~~ (*TGEC*)
 1. ~~The height of the lower grab bar on the back wall of a bathtub shall comply with~~ required by Section 607.4.1.1 or Section 607.4.2.1. (*TGEC*)
 2. ~~Vertical grab bars shall comply with~~ required by Sections 604.5.1, 607.4.1.2.2, 607.4.2.2.2 and 608.3.1.2. (*TGEC*)
- (*Proposal CP-181; Comment PC-6-050; FCA-004*)

EXCEPTION: ~~Height of grab bars on the back wall of a bathtub shall comply with Sections 607.4.1.1 and 607.4.2.1.~~ (*Proposal CP-181*)

609.5 Surface Hazards. Grab bars and any wall or other surfaces adjacent to grab bars shall be free of sharp or abrasive elements. ~~and Edges shall have be rounded edges. Edges shall have a radius of 1/8-inch (3 mm) minimum.~~ (*Proposal CP-182; TGEC*)

609.6 Fittings. Grab bars shall not rotate within their fittings.

609.7 Installation. Grab bars shall be installed in any manner that provides a gripping surface at the locations specified in this standard and that does not obstruct the clear floor space.

609.8 Structural Strength. Allowable stresses in bending, shear, and tension shall not be exceeded for materials used where a vertical or horizontal force of 250 lb (1112 N) is applied at any point on the grab bar, fastener mounting device, or supporting structure. ***(Proposal 6-075)***

609.10 Grab Bar Reinforcement. ***(Proposal 10-051; Comment PC-10-027-B)***

609.10.1 General. Reinforcement provided for future installation of grab bars and shower seats at water closets, bathtubs, and shower compartments shall be located as required in Section 609.10. ***(Proposal 10-051; Comment PC-10-027-B)***

609.10.2 Reinforcement Areas at Water Closets. ***(Proposal 10-051; Comment PC-10-027-B)***

609.10.2.1 Rear Wall Reinforcement. Where a horizontal grab bar is to be installed behind the water closet, the rear wall reinforcement area shall be 28-inches (711 mm) long minimum, measured horizontally, and centered on the water closet. Where space permits, the blocking shall extend an additional 12-inches on the transfer side of the water closet. The top of the rear reinforcement area shall be 37-inches (939 mm) minimum above the floor. ***(Proposal 10-051; Comment PC-10-027-B)***

609.10.2.2 Side Wall Reinforcement. Side wall reinforcement shall be 46-inches (1168 mm) long minimum, measured horizontally, and beginning 10-inches (254 mm) maximum from the rear wall. The bottom of the rear and side wall reinforcement area shall be 32-inches (815 mm) maximum above the floor. The top of the side wall reinforcement area shall be 37-inches (939 mm) minimum above the floor. ***(Proposal 10-051; Comment PC-10-027-B)***

609.10.2.3 Swing-up Grab Bars. Where swing-up grab bars are to be installed, rear wall reinforcement shall extend 7-inches (178 mm) maximum to 17-inches (431 mm) minimum from the center of the toilet on both sides, and shall extend 24-inches (609 mm) to 40-inches (1015 mm) from the floor. ***(Proposal 10-051; Comment PC-10-027-B)***

609.10.3 Reinforcement Areas at Bathtubs. ***(Proposal 10-051; Comment PC-10-027-B)***

609.10.3.1. Back Wall Reinforcement. Back wall reinforcement shall be 28-inches (662 mm) long minimum and shall be 22-inches (558 mm) maximum from the head end wall, and 10-inches (254 mm) maximum from the control end wall. Lower bar reinforcement shall extend from 7½-inches (190 mm) maximum to 12½-inches (317 mm) minimum above the rim of the bathtub. Upper bar reinforcement shall extend from 31-inches (787 mm) maximum to 38-inches (965 mm) minimum above the floor. ***(Proposals 10-051, CP-003; Comment PC-10-027-B)***

EXCEPTION: For bathtubs with permanent seats, back wall reinforcement shall extend from 13-inches (330 mm) maximum from the head end wall to 10-inches (254 mm) maximum from the control end wall. ***(Proposals 10-051, CP-003; Comment PC-10-027-B)***

609.10.3.2 Control End Wall Reinforcement. Control end wall reinforcement shall extend a minimum of 28-inches (711 mm) from 2-inches (51 mm) outside the front edge of the bathtub and shall extend between 31-inches (787 mm) maximum and 38-inches (965 mm) minimum above the floor. ***(Proposals 10-051, CP-003; Comment PC-10-027-B)***

609.10.3.3 Head end wall reinforcement. Head end wall reinforcement shall extend a minimum of 16-inches (406 mm) from 2-inches (51 mm) outside the front edge of the bathtub, and shall extend between 31-inches (787 mm) maximum and 38-inches (965 mm) minimum above the floor. ***(Proposals 10-051; Comment PC-10-027-B)***

~~**609.10.3.4 Vertical Bar Reinforcement.** The bottom vertical bar reinforcement shall extend from 34½-inches (876 mm) maximum to 40-inches minimum (1015 mm) from the floor. The top vertical bar reinforcement shall extend from 46-inches (1168 mm) maximum to 60-inches (1523 mm) minimum from the floor. Vertical bar blocking shall extend from 4-inches (102 mm) to 11-inches (279 mm) from the outside edge of the tub. (Proposals 10-051; Comment PC-10-027-B)~~

~~**609.10.4 Reinforcement Areas at Showers.** (Proposal 10-051; Comment PC-10-027-B)~~

~~**609.10.4.1 Side and Back Walls.** Reinforcement shall be provided for the entire length of the side and back walls and shall extend between 31-inches (787 mm) maximum and 38-inches (965 mm) minimum above the floor. (Proposal 10-051; Comment PC-10-027-B)~~

~~**609.10.4.2 Reinforcement for Seats.** Reinforcement for seats in showers 36-inches (916 mm) by 36-inches (916 mm) or smaller shall extend the length of the seat wall and on the back wall shall extend to a point 25-inches (635 mm) minimum from the seat wall. Seat reinforcement shall extend 14-inches (381 mm) maximum to 21-inches (533 mm) minimum above the floor. (Proposal 10-051; Comment PC-10-027-B)~~

~~**609.10.4.3 Vertical Bar Reinforcement.** Vertical bar reinforcement shall comply with Section 609.10.3.4. (Proposal 10-051; Comment PC-10-027-B)~~

610 Seats

610.1 General. Seats in accessible bathtubs and shower compartments shall comply with Section 610.

610.2 Bathtub Seats. ~~The top height of bathtub seats shall be 17 inches (430 mm) minimum to 19 inches (485 mm) maximum above the bathroom finish floor, measured to the top of the seat. The depth of a Removable in-tub seats shall be 15 inches (380 mm) minimum and 16 inches (405 mm) deep maximum in depth, and. The Removable in-tub seats shall be capable of secure placement. A Permanent seats shall be positioned at the head end of the bathtub. Permanent seats shall be have a depth of 15 inches (380 mm) deep minimum in depth, and be positioned at the head end of the bathtub shall extend from the back wall to or beyond the outer edge of the bathtub. The top of the seat shall be 17-inches (430 mm) minimum and 19-inches (485 mm) maximum above the bathroom floor. (Proposal CP-183; Comment PC-6-053; FCA-004; TGEC)~~

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. ~~Seats shall be L-shaped or rectangular. The top height of the seat shall be 17 inches (430 mm) minimum and 19 inches (485 mm) maximum in height above the bathroom finish floor, measured to the top of the seat. In a transfer-type and alternate roll-in-type showers, the seat shall extend from the back along the seat wall to a point within 3-inches (75 mm) of the compartment entry. In a standard roll-in-type showers, the seat shall extend from the control wall to a point within 3 inches (76 mm) of the minimum required seat wall width compartment entry. Seats shall comply with Section 610.3.1 or Section 610.3.2. (Proposal CP-184; Comment PC-6-046-B; FCA-004; TGEC)~~

610.3.1 Rectangular Seats. The rear edge of a rectangular seat shall be 2½-inches (64 mm) maximum and the front edge 15-inches (380 mm) minimum to 16-inches (405 mm) maximum from the seat wall, and the front edge 15-inches (380 mm) minimum and 16-inches (405 mm) maximum from the seat wall. ~~In a transfer type shower The side edge of a rectangular the seat shall be 1½-inches (38 mm) maximum from the back wall of a transfer-type shower and. In a roll-in type shower, the side edge of a rectangular seat shall be 1½-inches (38 mm) maximum from the control wall of a roll-in-type shower. (Proposal CP-185)~~

610.3.2 L-Shaped Seats. The rear edge of an L-shaped seat shall be 2¹/₂-inches (64 mm) maximum and the front edge 15 inches (380 mm) minimum to 16-inches (405 mm) maximum from the seat wall, and the front edge 15 inches (380 mm) minimum and 16 inches (405 mm) maximum from the seat wall. The rear edge of the "L" portion of the seat shall be 1¹/₂-inches (38 mm) maximum from the wall and the front edge shall be 14-inches (355 mm) minimum and 15-inches (380 mm) maximum from the wall. The end of the "L" shall be 22-inches (560 mm) minimum and 23-inches (585 mm) maximum from the main seat wall. **(Proposal CP-186)**

610.4 Structural Strength. Allowable stresses in bending, shear, and tension shall not be exceeded for materials used where a vertical or horizontal force of 250 pound (1112 N) is applied at any point on the seat, fastener mounting device, or supporting structure. **(Proposal CP-187)**

611 Laundry Equipment Washing Machines and Clothes Dryers (Proposal CP-188)

611.1 General. Accessible washing machines and clothes

611.2 Clear Floor or Ground Space. A clear floor or ground space complying with Section 305 positioned for parallel approach shall be provided. The clear floor or ground space shall be centered on the appliance. **(FCA-004)**

611.3 Operable Parts. Operable parts, including doors, lint screens, detergent and bleach compartments, shall comply with Section 309.

611.4 Height. Top loading machines shall have the door to the laundry compartment 34 ~~36~~ inches (865 ~~915~~ mm) maximum above the finish floor or ground. Front loading machines shall have the bottom of the opening to the laundry compartment 15-inches (380 mm) minimum and 34 inches (865 mm) maximum above the finish floor or ground. **(Proposal CP-189; FCA-004)**