

Paper Towel, Toilet Paper, Soap and Hand Sanitizer Dispensers

4.2.5* Forward Reach. If the clear floor space only allows forward approach to an object, the maximum high forward reach allowed shall be 48 in (1220 mm) (see Fig. 5(a))

<http://www.access-board.gov/adaag/html/figures/fig5a.html> . The minimum low forward reach is 15 in (380 mm). If the high forward reach is over an obstruction, reach and clearances shall be as shown in Fig. 5(b)

<http://www.access-board.gov/adaag/html/figures/fig5b.html> . Appendix Note <http://www.access-board.gov/adaag/html/adaag.htm#A4.2.5>

Figure 5a
High Forward Reach Limit

Forward reach range shown in profile and plan view to be 48 inches maximum and 15 inches minimum.

Forward reach range shown in profile and plan view to be 48 inches maximum and 15 inches minimum.

Figure 5b
Maximum Forward Reach over an Obstruction

The maximum level forward reach over an obstruction with knee space below is 25 inches (635 mm). When the obstruction is less than 20 inches (510 mm) deep, the maximum high forward reach is 48 inches (1220 mm). When the obstruction projects 20 to 25 inches (510 mm to 635 mm), the maximum high forward reach is 44 inches (1120 mm). (4.2.5, 4.2.5.3).

Figure 5b Maximum Forward Reach over an Obstruction

4.2.6* Side Reach. If the clear floor space allows parallel approach by a person in a wheelchair, the maximum high side reach allowed shall be 54 in (1370 mm) and the low side reach shall be no less than 9 in (230 mm) above the floor (Fig. 6(a))

<http://www.access-board.gov/adaag/html/figures/fig6a.html> and (b))

<http://www.access-board.gov/adaag/html/figures/fig6b.html> . If the side reach is over an obstruction, the reach and clearances shall be as shown in Fig 6(c) <http://www.access-board.gov/adaag/html/figures/fig6c.html> .

Appendix Note <http://www.access-board.gov/adaag/html/adaag.htm#A4.2.5>

Figure 6(a)
Clear Floor Space - Parallel Approach

The 30 by 48 inch clear floor space is located a maximum 10 inches (255 mm) from the wall.

s Top view of the 30 by 48 inch clear floor space for a wheelchair, shown a maximum of 10 inches from the wall along side it, on which an element, such as a light switch, might be located

Figure 6(c)
Maximum Side Reach over Obstruction

If the depth of the obstruction is 24 inches (610 mm) and the maximum height of the obstruction is 34 inches (865 mm), the maximum high side reach over the obstruction is 46 inches (1170).

Front view of a wheelchair user reaching to the side over a counter 34 inches high, maximum, and 24 inches deep, maximum. The maximum high reach is 46 inches

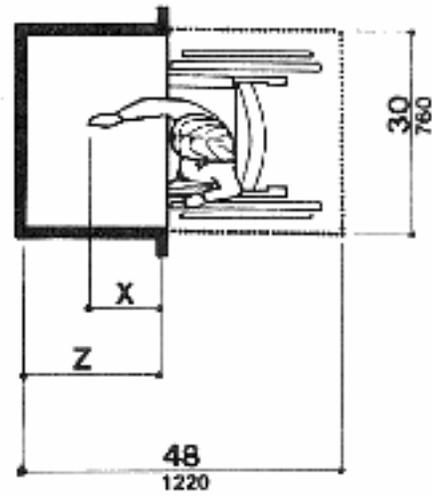
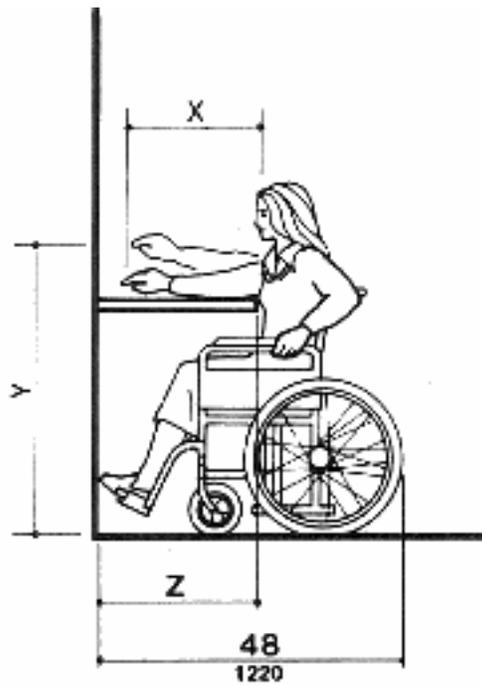
Toilet Paper Dispensers:

604.7 Dispensers. Toilet paper dispensers shall comply with 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 and shall not be located behind grab bars. Dispensers shall not be of a type that controls delivery or that does not allow continuous paper flow.

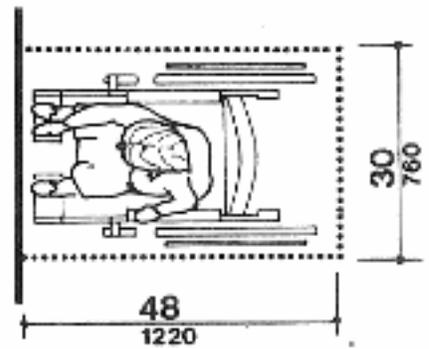
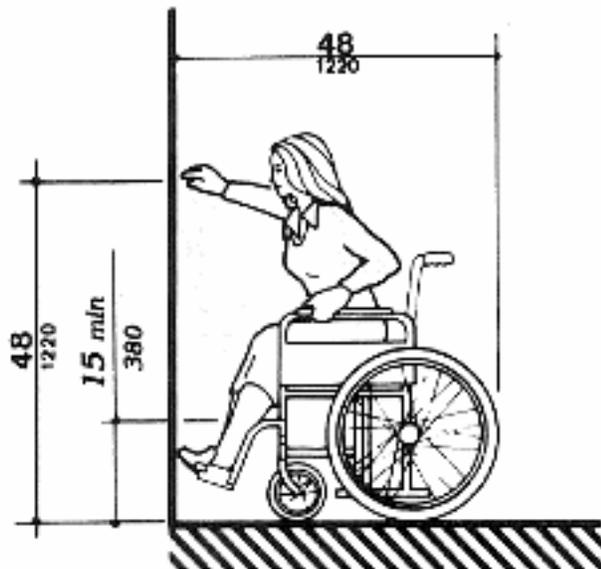
Advisory 604.7 Dispensers. If toilet paper dispensers are installed above the side wall grab bar, the outlet of the toilet paper dispenser must be 48 inches (1220 mm) maximum above the finish floor and the top of the gripping surface of the grab bar must be 33 inches (840 mm) minimum and 36 inches (915 mm) maximum above the finish floor.

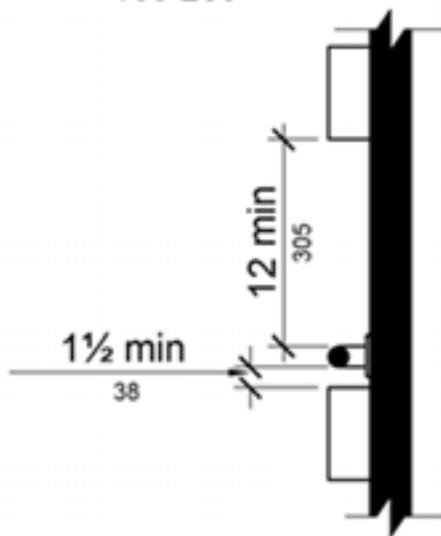
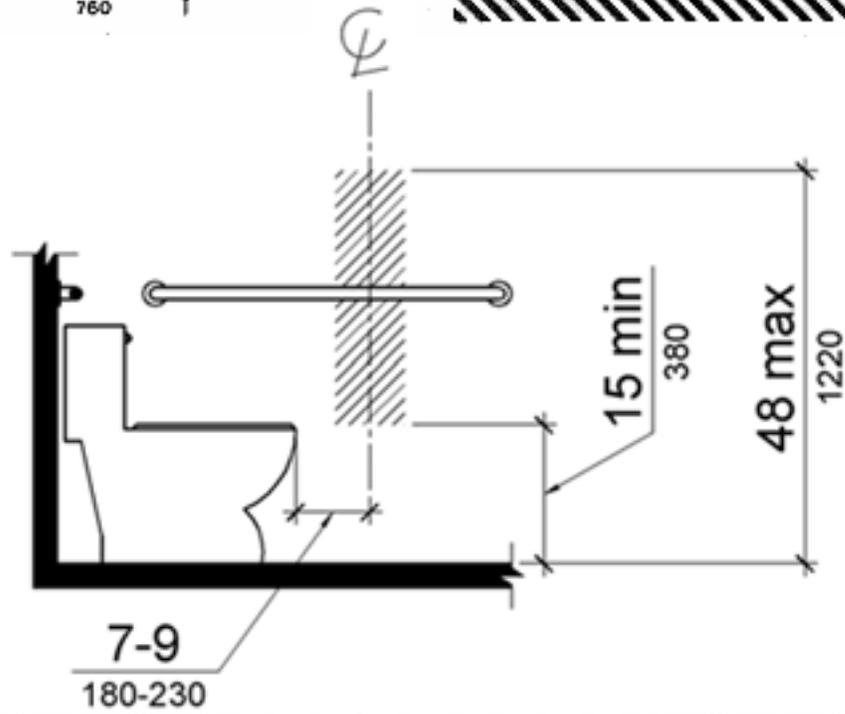
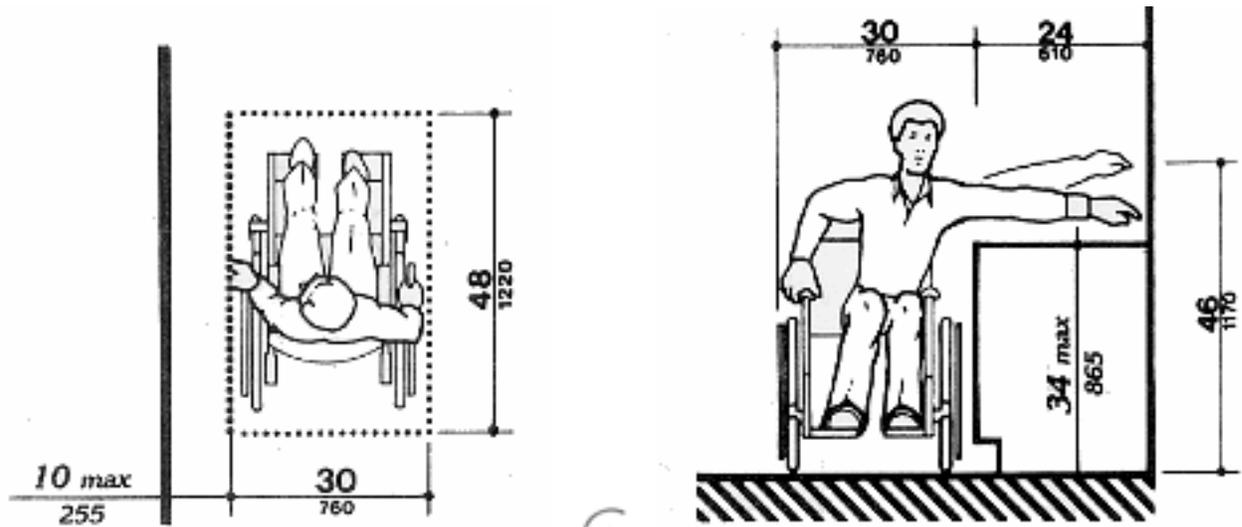
609.4 Position of Grab Bars. Grab bars shall be installed in a horizontal position, 33 inches (840 mm) minimum and 36 inches (915 mm) maximum above the finish floor measured to the top of the gripping surface, except that at water closets for children's use complying with 604.9, grab bars shall be installed in a horizontal position 18 inches (455 mm) minimum and 27 inches (685 mm) maximum above the finish floor measured to the top of the gripping surface. The height of the lower grab bar on the back wall of a bathtub shall comply with 607.4.1.1 or 607.4.2.1.

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 shall be 1½ inches (38 mm) minimum. The space between the grab bar and projecting objects above shall be 12 inches (305 mm) minimum.



NOTE: x shall be ≤ 25 in (635 mm); z shall be $\geq x$. When $x < 20$ in (510 mm), then y shall be 48 in (1220 mm) maximum. When x is 20 to 25 in (510 to 635 mm), then y shall be 44 in (1120 mm) maximum.





(a)
projecting objects



(b)
recessed objects

