

**F206.7.3 Incidental Spaces.** *Wheelchair* (platform) lifts shall be permitted to provide an *accessible route* to incidental *occupiable spaces* and rooms which are not open to the public and which are occupied by five persons maximum.

**F206.7.4 Judicial Spaces.** *Wheelchair* (platform) lifts shall be permitted to provide an *accessible route* to raised judges' benches, clerks' stations, jury boxes and witness stands or to depressed areas such as the well of a court.

**F206.8 Security Barriers.** Security barriers including, but not limited to, security bollards and security check points shall not obstruct a required *accessible route* or *accessible means of egress*.

**EXCEPTION:** Where security barriers incorporate equipment such as metal detectors, fluoroscopes, or other similar devices which cannot be made *accessible*, an *accessible route* shall be provided adjacent to such security screening devices to facilitate an equivalent *circulation path*. The *circulation path* shall permit persons with disabilities passing through security barriers to maintain visual contact with their personal items to the same extent provided others traversing the barrier.

## F207 Accessible Means of Egress

**F207.1 General.** All *accessible spaces* shall be provided with not less than one *accessible means of egress*. Where more than one means of egress is required from any *accessible space*, each *accessible* portion of the *space* shall be served by not less than two *accessible means of egress*. *Accessible means of egress* shall comply with 409.

**EXCEPTION:** *Accessible means of egress* are not required in *alterations* to existing *buildings* or *facilities*.

**F207.2 Elevators.** In *buildings* or *facilities* where a required *accessible* floor is four or more *stories* above or below a level of exit discharge, at least one required *accessible means of egress* shall be an elevator complying with 409.3.

**F207.3 Signs.** At exit stairways and elevators serving a required *accessible space*, but not serving as an *accessible means of egress*, directional *signs* indicating the location of *accessible means of egress* shall be provided. Such *signs* shall comply with 703.4.

## F208 Parking Spaces

**F208.1 General.** Where parking *spaces* are provided, *accessible* parking *spaces* shall be provided in accordance with F208.

**EXCEPTION:** This section does not apply to parking *spaces* used exclusively for buses, trucks, other delivery vehicles, law enforcement vehicles, or vehicular impound and motor pools where lots accessed by the public are provided with a passenger loading zone complying with 503.

**F208.2 Number Required.** *Accessible parking spaces* shall be provided in accordance with Table F208.2, except as required by F208.2.1, F208.2.2, and F208.2.3, and shall comply with 502.

**Table F208.2 Accessible Parking Spaces**

Total Number of Parking Spaces Provided in Lot	Minimum Required Number of Accessible Parking Spaces
1 to 25	1
26 to 50	2
51 to 75	3
76 to 100	4
101 to 150	5
151 to 200	6
201 to 300	7
301 to 400	8
401 to 500	9
501 to 1000	2 percent of total
1001 and over	20, plus 1 for each 100, or fraction thereof, over 1000

**F208.2.1 Hospital Outpatient Facilities.** Ten percent of patient and visitor parking *spaces* provided to serve hospital outpatient *facilities* shall be *accessible*.

**Advisory F208.2.1**

The term "outpatient facility" is not defined in this document but is intended to cover *facilities* or units that provide regular and continuing medical treatment without an overnight stay, and that are located in hospitals. Doctors' offices, independent clinics, or other *facilities* not located in hospitals are not considered hospital outpatient *facilities* for purposes of this document.

**F208.2.2 Rehabilitation Facilities and Outpatient Physical Therapy Facilities.** Twenty percent of patient and visitor parking *spaces* provided to serve rehabilitation *facilities* and outpatient physical therapy *facilities* shall be *accessible*.

**F208.2.3 Residential Facilities.** Parking *spaces* provided to serve residential *facilities* shall comply with F208.2.3.

**F208.2.3.1 Parking for Residents.** Where parking serves *dwelling units*, one *accessible parking space* minimum shall be provided for each *dwelling unit* required to be *accessible* by F234.

**F208.2.3.2 Additional Spaces for Residents.** Where the total parking serving *dwelling units* exceeds one *parking space* per *dwelling unit*, two percent, but not fewer than one *space*, of all the additional *parking spaces* shall be *accessible*.

**F208.2.3.3 Guest Parking.** Where parking is provided for other than residents it shall comply with Table F208.2.

**F208.2.4 Van Parking Spaces.** For every eight or fraction of eight *accessible parking spaces* required by F208.2, F208.2.1, and F208.2.3, at least one shall be a *van parking space* complying with 502.

**F208.3 Identification.** *Accessible parking spaces* shall be identified by *signs* complying with 502.6.

**EXCEPTIONS:** 1. Where a total of five or fewer *parking spaces* are provided, identification complying with 502.6 shall not be required.

2. In residential *facilities*, where *parking spaces* are assigned to specific *dwelling units*, identification complying with 502.6 shall not be required.

**F208.4 Location.** *Parking facilities* shall comply with F208.4.

#### Advisory F208.4

On any site with multiple lots, the number of *accessible parking spaces* is calculated lot-by-lot.

**F208.4.1 General.** *Accessible parking spaces* serving a particular *building* or *facility* shall be located on the shortest *accessible route* from adjacent parking to an *accessible entrance*. In *buildings* or *facilities* with multiple *accessible entrances* with adjacent parking, *accessible parking spaces* shall be dispersed and located on the shortest *accessible route* to the *accessible entrances*. In *parking facilities* that do not serve a particular *building* or *facility*, *accessible parking spaces* shall be located on the shortest *accessible route* to an *accessible pedestrian entrance* of the *parking facility*.

**EXCEPTIONS:** 1. All *van parking spaces* shall be permitted to be grouped on one level of a *parking structure*.

2. *Accessible parking spaces* shall be permitted to be located in different lots if equivalent or greater accessibility is provided in terms of distance from an *accessible entrance*, user cost, and user convenience.

**F208.4.2 Residential Facilities.** In residential *facilities*, required *accessible spaces* shall be dispersed throughout all types of parking provided for the *dwelling units* required to be *accessible* by F234.

#### Advisory F208.4.2

In residential *facilities*, certain *accessible parking spaces* may not serve particular *accessible dwelling units*. These *spaces* also should be dispersed.

**EXCEPTION:** Parking *spaces* for *dwelling units* required to be *accessible* shall not be required to be dispersed throughout all types of parking if equivalent or greater accessibility, in terms of distance from an *accessible entrance*, user cost and user convenience is provided.

### F209 Passenger Loading Zones

**F209.1 General.** Where passenger loading zones are provided, one passenger loading zone in every continuous 100 linear feet (30 m) maximum of loading zone *space* shall comply with 503.

**F209.2 Medical Facilities.** A passenger loading zone shall be provided at an *accessible entrance* to licensed medical and long-term care *facilities*.

**F209.3 Valet Parking.** Valet parking services shall provide a passenger loading zone.

### F210 Stairways

**F210.1 General.** Interior and exterior stairs that are part of a means of egress shall comply with 504.

**EXCEPTIONS:** 1. In detention and correctional *facilities*, stairs not located in *public use* areas shall not be required to comply with the requirements of this section.

2. In *alterations*, stairs between levels that are connected by an *accessible route* are not required to comply with 504 except that handrails complying with 505 shall be provided.

### F211 Drinking Fountains and Water Coolers

**F211.1 General.** Where drinking fountains or water coolers are provided, they shall be provided in accordance with F211.

**F211.1.1 Single Installation.** Only one drinking fountain or water cooler shall not be permitted on a *site*, on a floor, or within a secured area.

**EXCEPTION:** Hi-lo drinking fountains or water coolers complying with 602 shall be permitted.

**F211.1.2 Multiple Installations.** Where more than one drinking fountain or water cooler is provided on a *site*, on a floor, or within a secured area, fifty percent shall comply with 602.1 through 602.6.

The remainder of the drinking fountains or water coolers on a site, on a floor, or within a secured area shall comply with 602.7.

**EXCEPTION:** Where three or more drinking fountains or water coolers are provided fifty percent shall be permitted to be calculated to be fifty percent plus or minus one.

## F212 Sinks, Kitchens, Kitchenettes, and Wet Bars

**F212.1 General.** Sinks, Kitchens, kitchenettes, and wet bars shall comply with F212.1.

**F212.1.1 Kitchens, Kitchenettes and Wet Bars.** Where kitchens, kitchenettes, or wet bars are provided, they shall comply with 804.

**EXCEPTIONS:** 1. In medical care *facilities*, this section does not apply to patient or resident sleeping rooms that are not required to be *accessible* in accordance with F223.2, F223.3, or F223.4.

2. In *transient lodging facilities*, this section does not apply to guest rooms that are not required to be *accessible* in accordance with F224.2.

3. In detention and correctional *facilities* this section does not apply to housing cells not required to be *accessible* in accordance with F233.2.

4. In residential *facilities*, this section does not apply to *dwelling units* that are not required to be *accessible*.

**F212.1.2 Sinks.** Where sinks are provided, at least 5 percent, but not less than one of each type, provided in each *accessible* room or *space* shall comply with 606.

**EXCEPTION:** Mop or service sinks are not required to be *accessible*.

## F213 Toilet and Bathing Facilities

**F213.1 General.** Where toilet *facilities* and bathing *facilities* are provided, they shall comply with F213. Where toilet *facilities* and bathing *facilities* are provided on an inaccessible level, toilet *facilities* and bathing *facilities* shall also be provided on an *accessible* level.

**F213.2 Toilet and Bathing Rooms.** Where toilet rooms are provided, each toilet room shall comply with 603. Where bathing rooms are provided, each bathing room shall comply with 603.

### Advisory F213.2

The guidelines allow the use of unisex (or single-user) toilet rooms in *alterations* when technical infeasibility can be demonstrated. Unisex toilet rooms offer benefits to people who use personal care assistants. For this reason, it is advantageous to install unisex toilet rooms in addition to *accessible* single-sex toilet rooms in new *facilities*.

- EXCEPTIONS:**
1. In *alterations* where it is *technically infeasible* to comply with 603, altering existing toilet or bathing rooms is not required where a single unisex toilet room or bathing room complying with F213.2.1 is provided and located in the same area and on the same floor as existing inaccessible toilet or bathing rooms.
  2. Where exceptions for *alterations* to *qualified historic buildings* or *facilities* are permitted by F202.5, and toilet rooms are provided, not less than one toilet room complying with 603 or a unisex room complying with F213.2.1 shall be provided.
  3. Where multiple single user portable toilet or bathing units are clustered at a single location, at least 5 percent, but not less than one toilet unit or bathing unit at each cluster shall comply with 603. *Accessible* units shall be identified by the International Symbol of Accessibility complying with 703.7.
  4. Where multiple single user toilet rooms are clustered at a single location and contain fixtures in excess of the minimum required number of plumbing fixtures for the occupancy, at least 5 percent, but not less than one toilet room for each use at each cluster shall comply with 603. *Accessible* toilet rooms shall be identified by the International Symbol of Accessibility complying with 703.7.
  5. In medical care *facilities*, this section does not apply to toilet *facilities* and bathing *facilities* that are part of patient or resident sleeping rooms not required to be *accessible* in accordance with F223.
  6. In *transient lodging facilities*, this section does not apply to toilet *facilities* and bathing *facilities* that are part of guest rooms not required to be *accessible* in accordance with F224.
  7. In detention and correctional *facilities*, this section does not apply to toilet *facilities* and bathing *facilities* that do not serve holding cells or housing cells required to be *accessible* in accordance with F233.
  8. In residential *facilities*, this section does not apply to toilet *facilities* and bathing *facilities* that are part of *dwelling units* that are not required to be *accessible*.

**F213.2.1 Unisex Toilet and Bathing Rooms.** A unisex toilet room shall comply with 603, shall contain one water closet and one lavatory, and the door shall have a privacy latch. A unisex bathing room shall comply with 603 and shall contain at least one shower or bathtub.

**F213.2.2 Signs.** Where existing toilet or bathing rooms are *altered* and not made *accessible*, directional *signs* indicating the location of the nearest *accessible* toilet or bathing room within the *facility* shall be provided. Such *signs* shall comply with 703.4 and shall include the International Symbol of Accessibility complying with 703.7. Where existing toilet or bathing rooms are *altered* and not made *accessible*, the *accessible* toilet or bathing room shall be identified by the International Symbol of Accessibility complying with 703.7.

**F213.3 Fixtures and Accessories.** Plumbing fixtures and accessories provided in toilet or bathing rooms required to be *accessible* by F213.2 shall comply with F213.3.

**F213.3.1 Toilet Compartments.** Where toilet compartments are provided, at least one shall be a *wheelchair accessible* compartment complying with 604.8.1. Where six or more toilet compartments are provided, a non-wheelchair *accessible* compartment complying with 604.8.2 shall be provided in addition to the compartment complying with 604.8.1. Water closets in such compartments shall comply with 604.

**F213.3.2 Water Closets.** Where water closets are provided, but are not in toilet compartments, at least one shall comply with 604.

**F213.3.3 Urinals.** Where urinals are provided, at least one shall comply with 605.

**F213.3.4 Lavatories.** Where lavatories are provided, at least one shall comply with 606. Where only one *accessible* lavatory is provided, it shall not be located in a toilet compartment.

**F213.3.5 Mirrors.** Where mirrors are provided, at least one shall comply with 603.3.

**F213.3.6 Operable Parts and Dispensers.** Where *operable parts*, dispensers, receptacles or other equipment are provided, at least one of each type shall comply with 309.

**F213.3.7 Bathing Facilities.** Where bathtubs or showers are provided, at least one bathtub complying with 607 or at least one shower complying with 608 shall be provided.

## F214 Laundry Equipment

**F214.1 General.** Where washing machines or clothes dryers are provided in *spaces* required to be *accessible*, *accessible* washing machines and clothes dryers complying with 611 shall be provided in accordance with F214.

**F214.2 Washing Machines.** Where three or fewer washing machines are provided, at least one shall be *accessible*. Where more than three washing machines are provided, at least two shall be *accessible*.

**F214.3 Dryers.** Where three or fewer clothes dryers are provided, at least one shall be *accessible*. Where more than three clothes dryers are provided, at least two shall be *accessible*.

## F215 Emergency Alarm Systems

**F215.1 Fire Alarms.** Where fire alarm systems are provided in *public use* or *common use* areas, the alarm shall provide a system with both audible and visual signals complying with 702. Guest rooms required by F224 to have *accessible* alarms shall comply with 702.3.6.

### Advisory F215.1

Unlike audible alarms, visual alarms must be located within the *space* they serve so that the signal is visible.

**F215.2 Other Emergency Alarm Systems.** Where emergency warning systems other than for fire are provided in *public use* or *common use* areas, a system with both audible and visual signals shall be provided.

#### Advisory F215.2

*Facility* alarm systems (other than fire alarm systems) that do not instruct occupants to evacuate the *facility*, such as those used for tornado warnings and other emergencies, must provide both audible and visual notification, but are not held to the technical criteria for alarms in section 702. Such alarms need to be differentiated in their signal from fire alarms systems.

### F216 Signs

**F216.1 General.** *Signs* shall be provided in accordance with F216 and shall comply with 703.

**EXCEPTION:** In detention and correctional *facilities*, *signs* not located in *public use* areas shall not be required to comply.

**F216.2 Permanent Designations.** Where exterior *signs* are provided as permanent designations of permanent interior rooms and *spaces* at the door to the *space* they serve, the *signs* shall be *tactile* and shall comply with 703.2. Where interior *signs* are provided as permanent designations of permanent interior rooms and *spaces*, the *signs* shall be *tactile* and shall comply with 703.2. Where *pictograms* are provided as permanent designations of permanent interior rooms and *spaces*, the *pictograms* shall comply with 703.6 and shall have *tactile* text descriptors complying with 703.2.

#### Advisory F216.2

“Permanent designations” label interior rooms or *spaces* where the designation is not likely to change over time. Examples include, interior signs labeling restrooms, room and floor numbers or letters, and room names. *Tactile* text descriptors are required for *pictograms* that are provided to label or identify a permanent room or *space*. *Pictograms* that provide information about a room or *space*, such as “no smoking,” occupant logos, and accessibility designations, are not required to have text descriptors.

**EXCEPTION:** This requirement shall not apply to signs used to designate *building* addresses or *building* or *facility* names.

**F216.3 Directional and Informational Signs.** *Signs* that provide direction to or information about permanent interior *spaces* and *facilities* of the *site* shall comply with 703.4.

#### Advisory F216.3

Information about a permanent room or space includes rules of conduct, occupant load, and similar *signs*. *Signs* providing direction to permanent rooms or spaces include those that identify egress routes.

**EXCEPTION:** *Building* directories, menus, and temporary *signs* are not required to comply with 703.4.

**F216.4 Exit Doors.** Exit doors shall be identified by *tactile signs* complying with 703.2.

## F217 Telephones

**F217.1 General.** Where coin-operated public pay telephones, coinless public pay telephones, public *closed-circuit telephones*, or other types of public telephones are provided, *accessible* public telephones shall be provided in accordance with F217 for each type of public telephone provided. For purposes of this section, a bank of telephones shall be considered two or more adjacent telephones.

**F217.2 Wheelchair Accessible Telephones.** Where public telephones are provided, *wheelchair accessible* telephones complying with 704.2 shall be provided in accordance with Table F217.2.

**Table F217.2 Wheelchair Accessible Telephones**

Number of Telephones Provided on a Floor or Level	Minimum Required Number of Wheelchair Accessible Telephones
1 or more single units	1 per floor or level
1 bank	1 per floor or level
2 or more banks	1 per bank <sup>1</sup>

1. At Least one telephone per floor shall provide a forward approach complying with 704.2.1.2, except for exterior installations where dial tone first service is available.

**F217.3 Volume Controls.** All *wheelchair accessible* telephones required by F217.2 and 25 percent, but not less than one, of all other public telephones provided shall have volume control complying with 704.3. Such telephones shall be identified by *signs* containing *pictograms* of a telephone handset with radiating sound waves complying with 703.7.

**EXCEPTION:** *Pictograms* are not required where all public telephones have volume control.

**F217.4 TTYs.** *TTYs* complying with 704.4 shall be provided in accordance with F217.4.

### Advisory F217.4

Separate requirements are provided based on the number of public pay telephones provided at a bank of telephones, within a floor, a *building*, or on a site. One *TTY* can be used to satisfy more than one of these requirements. For example, a *TTY* required for a *building* can be used to satisfy the requirement for at least one *TTY* on a site. Consideration should be given to phone systems that can accommodate both digital and analog transmissions for compatibility with digital and analog *TTYs*.

**F217.4.1 Bank Requirement.** Where four or more public pay telephones are provided at a bank of telephones, at least one public *TTY* shall be provided at that bank.

**EXCEPTION:** *TTYs* are not required at banks of telephones located within 200 feet (61 m) of, and on the same floor as, a bank containing a public *TTY*.

**F217.4.2 Floor Requirement.** Where at least one public pay telephone is provided on a floor of a *building*, at least one public *TTY* shall be provided on that floor.

**F217.4.3 Building Requirement.** Where at least one public pay telephone is provided in a *public use area* of a *building*, at least one public *TTY* shall be provided in the *building* in a *public use area*.

**F217.4.4 Site Requirement.** Where four or more public pay telephones are provided on a *site*, at least one public *TTY* shall be provided on the *site*.

**F217.4.5 Rest Stops, Emergency Roadside Stops, and Service Plaza.** Where a public pay telephone is provided at a public rest stop, emergency roadside stop or service plaza, at least one public *TTY* shall be provided.

**F217.4.6 Hospitals.** Where a public pay telephone is provided serving a hospital emergency room, hospital recovery room, or hospital waiting room, at least one public *TTY* shall be provided at each such location.

**F217.4.7 Transportation Facilities.** Transportation *facilities* shall be provided with *TTYs* in accordance with 1003.2.6 and 1004.2, in addition to the *TTYs* required by F217.4.

**F217.4.8 Detention and Correctional Facilities.** In detention and correctional *facilities*, where a public pay telephone is provided in a secured area used only by detainees or inmates and security personnel, then at least one *TTY* shall be provided in at least one such area.

**F217.4.9 Signs.** Identification and directional *signs* shall be provided in accordance with F217.4.9.

**F217.4.9.1 Identification Signs.** Public *TTYs* shall be identified by the International Symbol of *TTY* complying with 703.7.

**F217.4.9.2 Directional Signs.** Directional *signs* indicating the location of the nearest public *TTY* shall be provided at all banks of public pay telephones not containing a public *TTY*. In addition, where *signs* provide direction to public pay telephones, they shall also provide direction to public *TTYs*. Directional *signs* shall comply with 703.4 and shall include the International Symbol of *TTY* complying with 703.7.

**F217.5 Shelves for Portable *TTYs*.** Where a bank of telephones in the interior of a *building* consists of three or more public pay telephones, at least one public pay telephone at the bank shall be provided with a shelf and an electrical outlet in accordance with 704.5.

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- EXCEPTIONS:** 1. This requirement does not apply to the secured areas of detention and correctional *facilities* where shelves and outlets are prohibited for purposes of security or safety.
2. The shelf and electrical outlet shall not be required at a bank of telephones with a *TTY*.

**F218 Transportation Facilities**

**F218.1 General.** Transportation *facilities* shall comply with Chapter 10.

**F219 Assistive Listening Systems**

**F219.1 General.** Assistive listening systems shall be provided in accordance with F219 and shall comply with 706.

**F219.2 Required Systems.** In each *assembly area* where audible communication is integral to the use of the *space*, an assistive listening system shall be provided.

**EXCEPTION:** Other than in courtrooms, this requirement shall not apply where there is no audio amplification.

**F219.3 Receivers.** Receivers complying with 706.3 shall be provided for assistive listening systems in accordance with Table F219.3. Twenty five percent minimum of receivers, but not less than two, shall be hearing-aid compatible in accordance with 706.4.

**Table F219.3 Receivers for Assistive Listening Systems**

Capacity of Seating in Assembly Area	Minimum Required Number of Receivers	Minimum Number of Required Receivers Required to be Hearing-aid Compatible
50 or less	2	2
51 to 200	2 plus 1 per 25 seats over 50 seats <sup>1</sup>	2
201 to 500	2 plus 1 per 25 seats over 50 seats <sup>1</sup>	1 per 4 receivers <sup>1</sup>
501 to 1000	20 plus 1 per 33 seats over 500 seats <sup>1</sup>	1 per 4 receivers <sup>1</sup>
1001 to 2000	35 plus 1 per 50 seats over 1000 seats <sup>1</sup>	1 per 4 receivers <sup>1</sup>
2001 and over	55 plus 1 per 100 seats over 2000 seats <sup>1</sup>	1 per 4 receivers <sup>1</sup>

1. or fraction thereof

**F219.4 Signs.** Where assistive listening systems are provided, *signs* shall be provided to inform patrons of the availability of the system. The *signs* shall be located at ticket offices or windows, where ticket offices or windows are provided. The *signs* shall comply with 703.4 and shall include the International Symbol of Access for Hearing Loss complying with 703.7.

## **F220 Automatic Teller Machines and Fare Machines**

**F220.1 General.** Where automatic teller machines or self-service fare vending, collection, or adjustment machines are provided, at least one machine of each type at each location where such machines are provided shall comply with 707. Where bins are provided for envelopes, waste paper, or other purposes, at least one of each type shall comply with 905.

## **F221 Assembly Seating**

**F221.1 General.** In a motion picture house, theater, concert hall, stadium, arena, auditorium, convention center, lecture hall, courtroom, legislative chamber, public meeting room, hearing room, or similar *assembly area* that contains seating, *wheelchair spaces*, companion seats, and designated aisle seats shall be provided and shall comply with F221 and 802 in each type of seating area.

**F221.2 Wheelchair Spaces.** *Wheelchair spaces* shall be provided in all *facilities* identified in F221.1 and in each luxury box, club box, and suite within these *facilities*. *Wheelchair spaces* shall be integrated throughout these seating areas.

**F221.2.1 Number.** *Wheelchair spaces* shall be provided in accordance with Table F221.2.1.

**Table F221.2.1 Number of Wheelchair Spaces**

Number of Seats <sup>1</sup>	Minimum Required Number of Wheelchair Spaces
4 to 25	1
26 to 50	2
51 to 150	4
151 to 300	5
301 to 500	6
501 and over	6, plus 1 for each 100, or fraction thereof, over 500

1. installed seats plus required *wheelchair spaces*

**F221.3 Readily Removable Companion Seats.** One readily removable companion seat complying with 802.7 shall be provided for each *wheelchair space*. Each required readily removable companion

seat shall provide an additional *wheelchair space* complying with 802.1, 802.2, 802.3, 802.4, 802.5, and 802.9 when removed.

**EXCEPTIONS:** 1. Existing companion seats shall be permitted to be fixed and shall not be required to provide *wheelchair spaces*.

2. Companion seats shall be permitted to be fixed and shall not be required to provide *wheelchair spaces* where the seating capacity is 300 or fewer.

**F221.4 Designated Aisle Seats.** Aisle seats complying with 802.8 shall be provided in all *assembly areas*. *Signs* notifying patrons of the availability of such seats shall be posted at the ticket office.

**EXCEPTION:** Designated aisle seats are not required in luxury boxes, club boxes, or suites.

**F221.4.1 Number.** One designated aisle seat complying with 802.8 per 100 seats, or fraction thereof shall be provided.

**F221.4.2 Location.** At least one of each four required designated aisle seats shall be located on an *accessible route*. All other required designated aisle seats shall be located not more than two rows from an *accessible route* serving such seats.

**F221.5 Vertical Access.** Where *wheelchair spaces* or designated aisle seats share a common *accessible route* that includes vertical access by means of elevators or platform lifts, elevators or platform lifts shall be provided in such number, capacity, and speed as to provide a level of service equivalent to that provided in the same seating area to patrons who can use stairs or other means of vertical access.

## F222 Dressing, Fitting, and Locker Rooms

**F222.1 General.** Where dressing rooms, fitting rooms, or locker rooms are provided, at least 5 percent, but not less than one, of each type of use in each cluster provided shall comply with 803.

**EXCEPTION:** In *alterations*, where it is *technically infeasible* to provide *accessible* rooms in accordance with F222.1, one room for each sex on each level shall be *accessible*. Where only unisex rooms are provided, an *accessible* unisex room shall be permitted.

## F223 Medical Care Facility Patient or Resident Sleeping Rooms

**F223.1 General.** In licensed medical and long-term care *facilities* where people receive physical or medical treatment or care and where the period of stay exceeds twenty-four hours, *accessible* patient or resident sleeping rooms shall be provided in accordance with F223 and shall comply with 805.

**F223.1.1 Alterations.** Where sleeping rooms are *altered* or *added*, the requirements of F223 shall apply only to the sleeping rooms being *altered* or *added* until the number of *accessible* sleeping rooms complies with the minimum number required for new construction.

#### Advisory F223.1.1

In *alterations* and *additions*, the minimum required number is based on the total number of sleeping rooms altered or added instead of on the total number of sleeping rooms provided in a *facility*. As a *facility* is altered over time, *accessible* sleeping rooms may be dispersed among patient care areas such as pediatrics, cardiac care, maternity, and other units. In this way, people with disabilities may have access to the full-range of services provided by a medical care *facility*.

**F223.2 Hospitals.** In general purpose hospitals, psychiatric *facilities* and detoxification *facilities*, at least 10 percent, but not less than one, of the patient sleeping rooms shall be *accessible*.

**F223.3 Rehabilitation Facilities.** In hospitals and rehabilitation *facilities* that specialize in treating conditions that affect mobility, and in units within hospitals and rehabilitation *facilities* which specialize in treating conditions that affect mobility, 100 percent of the patient sleeping rooms shall be *accessible*.

#### Advisory F223.3

Conditions that affect mobility include conditions requiring the use or assistance of a brace, cane, crutch, prosthetic device, *wheelchair*, or powered mobility aid; arthritic, neurological, or orthopedic conditions that severely limit one's ability to walk; respiratory diseases and other conditions which may require the use of portable oxygen; and cardiac conditions that impose significant functional limitations. *Facilities* that may provide, but that do not specialize, in the treatment of such conditions, such as general rehabilitation hospitals, are not subject to this requirement but are subject to section F223.2.

**F223.4 Long Term Care Facilities.** In long term care *facilities*, at least 50 percent, but not less than one, of the resident sleeping rooms shall be *accessible*.

### F224 Transient Lodging Guest Rooms

**F224.1 General.** *Transient lodging facilities* shall provide guest rooms in accordance with F224.

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**F224.1.1 Alterations.** Where guest rooms are *altered* or *added*, the requirements of F224 shall apply only to the guest rooms being *altered* or *added* until the number of *accessible* guest rooms complies with the minimum number required for new construction.

#### Advisory F224.1.1

In *alterations* and *additions*, the minimum required number of *accessible* guest rooms is based on the total number of guest rooms altered or added instead of the total number of guest rooms provided in a *facility*. Typically, each *alteration* of a *facility* is limited to a particular portion of the *facility*. When *accessible* guest rooms are added as a result of subsequent *alterations*, compliance with F224.5 is likely to be achieved.

**F224.1.2 Guest Room Doors and Doorways.** *Entrance* and passage doors and doorways into and within all guest rooms shall provide clear width complying with 404.2.3.

#### Advisory F224.1.2

Because of the social interaction that often occurs in lodging *facilities*, an *accessible* clear opening width is required for doors and doorways to and within all guest rooms, including those not required to be *accessible*. This applies to all doors, including bathroom doors, that allow full passage. Other requirements for doors and doorways in section 404 do not apply to guest rooms not required to be *wheelchair accessible*.

**F224.2 Accessible Guest Rooms.** In *transient lodging facilities*, *accessible* guest rooms shall be provided in accordance with Table F224.2 and shall comply with 806.2

**Table F224.2 Accessible Guest Rooms**

Total Number of Guest Rooms Provided	Minimum Required Number of Accessible Rooms Without Roll-in Showers	Minimum Required Number of Accessible Rooms With Roll-in Showers	Total Number of Required Accessible Rooms
1 to 25	1	0	1
26 to 50	2	0	2
51 to 75	3	1	4
76 to 100	4	1	5
101 to 150	5	2	7
151 to 200	6	2	8

**Table F224.2 Accessible Guest Rooms**

Total Number of Guest Rooms Provided	Minimum Required Number of Accessible Rooms Without Roll-in Showers	Minimum Required Number of Accessible Rooms With Roll-in Showers	Total Number of Required Accessible Rooms
201 to 300	7	3	10
301 to 400	8	4	12
401 to 500	9	4	13
501 to 1000	2 percent of total	1 percent of total	3 percent of total
1001 and over	20 plus 1 for each 100, or fraction thereof, over 1000	10 plus 1 for each 100, or fraction thereof, over 1000	30 plus 2 for each 100, or fraction thereof, over 1000

**F224.3 Accessible Beds.** In rooms or *spaces* having four or more beds, the number of beds in the room or *space* required to have clear floor *space* complying with 806.2.3 shall comply with Table F224.3.

**Table F224.3 Accessible Beds**

Total Number of Beds in a Guest Room	Minimum Required Number of Accessible Beds
4 to 25	1
26 to 50	2
51 to 75	4
76 to 100	5
101 to 150	7
151 to 200	8
201 to 300	10
301 to 400	12
401 to 500	13
501 to 1000	3 percent of total
1001 and over	30 plus 1 for each 100, or fraction thereof, over 1000

**F224.4 Communication Features.** In *transient lodging facilities*, at least fifty percent of the total number of guest rooms shall have *accessible* communication features complying with 806.3.

**F224.5 Dispersion.** Fifty percent, but not less than one, of the guest rooms required to comply with 806.2 shall also comply with 806.3. Guest rooms required to comply with 806.2 and guest rooms required to comply with 806.3 shall be dispersed among the various classes of guest rooms and shall provide choices of types of rooms, types of beds, and other amenities comparable to the choices provided to other guests. Where the minimum number of rooms or beds required to be *accessible* is not sufficient to allow for complete dispersion, rooms or beds shall be dispersed in the following priority: room type, bed type, and amenities.

#### Advisory F224.5

Factors to be considered in providing an equivalent range of options may include, but are not limited to, room size, bed size, cost, view, bathroom fixtures such as hot tubs and spas, smoking and nonsmoking, the number of beds, and the number of rooms provided.

### F225 Self-Service Storage Facilities

**F225.1 General.** *Self-service storage facilities* shall provide *accessible* individual, self-storage spaces in accordance with Table F225.1.

**Table F225.1 Accessible Self-Service Storage Facilities**

Total Spaces in Facility	Minimum Required Number of Accessible Spaces
1 to 200	5 percent, but not less than 1
201 and over	10 plus 2 percent of total number of units over 200

**F225.2 Dispersion.** *Accessible* individual, self-service storage spaces shall be dispersed throughout the various classes of spaces provided. Where more classes of spaces are provided than the number of required *accessible* spaces, the number of *accessible* spaces shall not be required to exceed that required by Table F225.1. *Accessible* spaces shall be permitted to be dispersed in a single *building* of a multi-building *facility*.

### F226 Dining Surfaces and Work Surfaces

**F226.1 General.** Where dining surfaces and work surfaces are provided in *accessible* spaces, at least five percent, but not less than one, of the seating and standing spaces at the dining surfaces and work surfaces in a room or space shall comply with 902.

**F226.2 Dispersion.** *Accessible* dining surfaces and work surfaces shall be distributed throughout the space or facility containing such elements.

### F227 Sales and Service Counters

**F227.1 General.** Where sales or service counters are provided, they shall be *accessible* in accordance with F227.

**F227.2 Check-Out Aisles.** Where check-out aisles are provided, *accessible* check-out aisles shall be provided in accordance with Table F227.2. Where check-out aisles serve different functions, at least one *accessible* check-out aisle shall be provided for each function. Where check-out aisles are dispersed throughout the building or facility, *accessible* check-out aisles also shall be dispersed. Check-out aisles required to be *accessible* shall comply with 904.3.

**EXCEPTION:** Where check-out aisles are *altered* in facilities, at least one of each check-out aisle serving each function shall be made *accessible* until the number of *accessible* check-out aisles complies with F227.2.

**Table F227.2 Accessible Check-Out Aisles**

Total Check-Out Aisles of Each Function	Minimum Required Number of Accessible Check-Out Aisles of Each Function
1 to 4	1
5 to 8	2
9 to 15	3
16 and over	3 plus 20 percent of additional aisles

**F227.2.1 Identification.** *Accessible* check-out aisles shall be identified by the International Symbol of Accessibility complying with 703.7, unless all check-out aisles in the facility are *accessible*. The sign shall be above the check-out aisle in the same location as the check-out aisle number or type of check-out identification.

**F227.3 Point of Sales and Service Counters.** Where point of sales and service counters are provided for sales or distribution of goods or services, at least one of each type provided shall comply with 904.4.

Where such counters are dispersed throughout the *building* or *facility*, the *accessible* counters also shall be dispersed.

#### Advisory F227.3

Types of counters that provide different services in the same *facility* include, but are not limited to, order, pick-up, express, and returns. One continuous counter can be used to provide different types of service. For example, order and pick-up are different services. It would not be acceptable to provide access only to the part of the counter where orders are taken when orders are picked-up at a different location on the same counter. Both the order and pick-up section of the counter must be *accessible*.

**F227.4 Food Service Lines.** Food service lines shall comply with 904.5. Where self-service shelves are provided, at least 50 percent, but not less than one, of each type provided shall comply with 308.

**F227.5 Queues and Waiting Lines.** Queues and waiting lines servicing *accessible* counters or check-out aisles shall comply with 403.

### F228 Storage

**F228.1 General.** Where storage *elements* are provided in *accessible spaces*, at least one of each type shall comply with 905.

#### Advisory F228.1

Fixed or built-in storage *elements* include, but are not limited to, closets, cabinets, shelves, and drawers.

**F228.2 Lockers.** Where lockers are provided in *accessible spaces*, at least five percent, but not less than one, of each type shall comply with 905.

**F228.3 Self-Service Shelving.** Self-service shelves shall be located on an *accessible route* complying with 402. Self-service shelving shall not be required to comply with reach range provisions of 308.

#### Advisory F228.3

Self-service shelves include, but are not limited to, library, store, or post office shelves.

**F228.4 Coat Hooks and Folding Shelves.** Where coat hooks or folding shelves are provided in inaccessible toilet rooms, toilet compartments, or in dressing, fitting or locker rooms, at least one of each type shall be provided in *accessible* toilet rooms, toilet compartments or dressing, fitting and locker rooms.

## F229 Depositories, Vending Machines, Change Machines, and Mail Boxes

**F229.1 Depositories, Vending Machines, and Change Machines.** Where provided, at least one of each type of depository, vending machine, and change machine shall comply with 309.

<b>Advisory F229.1</b>
Depositories include, but are not limited to, night receptacles in banks, post offices, video stores, and libraries.

**EXCEPTION:** Drive-up-only depositories shall not be required to comply with this section.

**F229.2 Mail Boxes.** Where *mail boxes* are provided in an interior location, at least 5 percent, but not less than one, of each type shall comply with 309. In residential *facilities*, where *mail boxes* are provided for each *dwelling unit*, *mail boxes* complying with 309 shall be provided for each *dwelling unit* required to be *accessible* by F234.1.1.

## F230 Windows

**F230.1 Windows.** Where glazed openings are provided in *accessible* rooms or *spaces* for operation by the occupants, at least one opening shall comply with 309. In accessible rooms or *spaces*, each glazed opening required by the *administrative authority* to be operable shall comply with 309.

## F231 Two-Way Communication Systems

**F231.1 General.** Where a two-way communication system is provided to gain admittance to a *building* or *facility* or to restricted areas within a *building* or *facility*, the system shall comply with 708.

## F232 Judicial Facilities

**F232.1 General.** Judicial *facilities* shall comply with F232.

**F232.2 Courtrooms.** Each courtroom shall comply with F232.2.

**F232.2.1 Raised or Depressed Areas.** Where provided, areas that are raised or depressed and accessed by *ramps* or *wheelchair* (platform) lifts with entry *ramps* shall provide unobstructed turning *space* complying with 304.

**F232.2.2 Jury Boxes and Witness Stands.** Each jury box and witness stand shall have, within its defined area, clear floor *space* complying with 305.

**EXCEPTION:** In *alterations*, *accessible wheelchair spaces* are not required to be located within the defined area of raised jury boxes or witness stands and shall be permitted to be located outside these *spaces* where *ramp* or lift access poses a hazard by restricting or projecting into a *means of egress* required by the appropriate *administrative authority*.

**F232.2.3 Judges' Benches and Courtroom Stations.** Judges' benches, clerks' stations, bailiffs' stations, deputy clerks' stations, court reporters' stations and litigants' and counsel stations shall comply with 902.

**F232.3 Holding Cells.** Where provided, central holding cells and court-floor holding cells shall comply with F232.3.

**F232.3.1 Central Holding Cells.** Where separate central holding cells are provided for adult male, juvenile male, adult female, or juvenile female, one of each type shall comply with 807. Where central-holding cells are provided and are not separated by age or sex, at least one cell complying with 807.2 shall be provided.

**F232.3.2 Court-Floor Holding Cells.** Where separate court-floor holding cells are provided for adult male, juvenile male, adult female, or juvenile female, each courtroom shall be served by one cell of each type complying with 807. Where court-floor holding cells are provided, which are not separated by age or sex, courtrooms shall be served by at least one cell complying with 807.2. Cells may serve more than one courtroom.

**F232.4 Visiting Areas.** Visiting areas shall comply with F232.4.

**F232.4.1 Cubicles and Counters.** At least five percent, but not less than one, of cubicles shall comply with 902 on both the visitor and detainee sides. Where counters are provided, at least one shall comply with 904.4.2 on both the visitor and detainee sides.

**EXCEPTION:** This requirement shall not apply to the detainee side of cubicles or counters at non-contact visiting areas not serving accessible holding cells.

**F232.4.2 Partitions.** Solid partitions or security glazing that separate visitors from detainees shall comply with 904.6.

## **F233 Detention and Correctional Facilities**

**F233.1 General.** *Buildings, facilities*, or portions thereof, in which people are detained for penal or correction purposes, or in which the liberty of the inmates is restricted for security reasons shall comply with F233.

### **Advisory F233.1**

Detention *facilities* include, but are not limited to, jails, detention centers, and holding cells in police stations. Correctional *facilities* include, but are not limited to, prisons, reformatories, and correctional centers.

**F233.2 General Holding Cells and General Housing Cells or Rooms.** *Accessible* general holding cells and *accessible* general housing cells or rooms shall be provided in accordance with F233.2.

#### Advisory F233.2

*Accessible* cells or rooms should be dispersed among different levels of security, housing categories, and holding classifications (e.g., male/female and adult/juvenile) to facilitate access. Many detention and correctional *facilities* are designed so that certain areas (e.g., "shift" areas) can be adapted to serve as different types of housing according to need. For example, a shift area serving as a medium-security housing unit might be redesignated for a period of time as a high-security housing unit to meet capacity needs. Placement of *accessible* cells or rooms in shift areas may allow additional flexibility in meeting requirements for dispersion of *accessible* cells or rooms.

**EXCEPTION:** Altered cells or rooms shall be *accessible* in accordance with regulations issued by the appropriate Federal agency having authority under section 504 of the Rehabilitation Act of 1973.

**F233.2.1 Accessible Cells or Rooms.** At least two percent, but not less than one, of the total number of cells or rooms in a *facility* shall comply with 807.2.

**F233.2.2 Accessible Beds.** In cells or rooms having four or more beds, the number of beds in the cell or room required to have clear floor space complying with 807.2 shall comply with Table F224.3.

**F233.2.3 Communication Features.** At least two percent, but not less than one, of the total number of cells or rooms equipped with audible emergency alarm systems or permanently installed telephones within the cell or room shall comply with 807.3.

**F233.2.4 Dispersion.** Fifty percent, but not less than one, of the cells or rooms required to comply with 807.2 shall also comply with 807.3.

**F233.3 Special Holding Cells and Special Housing Cells or Rooms.** Where special holding cells or special housing cells or rooms are provided, at least one serving each purpose shall comply with 807.2. Cells or rooms subject to this requirement include, but are not limited to those used for purposes of orientation, protective custody, administrative or disciplinary detention or segregation, detoxification, and medical isolation.

**EXCEPTIONS:** 1. Cells or rooms specially designed without protrusions and that are used solely for purposes of suicide prevention shall not be required to comply with 604.5.

2. Altered cells or rooms shall be *accessible* in accordance with regulations issued by the appropriate Federal agency having authority under section 504 of the Rehabilitation Act of 1973.

**F233.4 Medical Care Facilities.** Patient bedrooms or cells required to be *accessible* by F223 shall be provided in addition to any medical isolation cells required to be *accessible* under F233.3.

**F233.5 Visiting Areas.** Visiting areas shall comply with F233.5.

**F233.5.1 Cubicles and Counters.** At least five percent, but not less than one, of cubicles shall comply with 902 on both the visitor and detainee sides. Where counters are provided, at least one shall comply with 904.4.2 on both the visitor and detainee or inmate sides.

**EXCEPTION:** This requirement shall not apply to the inmate or detainee side of cubicles or counters at non-contact visiting areas not serving *accessible* holding or housing cells or rooms.

**F233.5.2 Partitions.** Solid partitions or security glazing that separate visitors from detainees shall comply with 904.6.

## F234 Accessible Residential Facilities

**F234.1 General.** Residential *facilities* shall provide *dwelling units* in accordance with F234.

### Advisory F234.1

This section outlines the requirements for residential *facilities* subject to the Architectural Barriers Act of 1968. The *facilities* covered by this section, as well as other *facilities* not addressed or covered by these sections, may still be subject to other Federal laws such as the Fair Housing Act (42 U.S.C. 3604 et. seq.) and Section 504 of the Rehabilitation Act of 1973 (29 U.S.C. 794). For example, the Fair Housing Act requires that all residential *buildings* having four or more units, regardless of whether they are privately owned or federally assisted, include certain features of *accessible* and adaptable design according to guidelines established by the U. S. Department of Housing and Urban Development (HUD). Further information on these laws and the appropriate regulations should be consulted before proceeding with the design and construction of residential housing which may be covered by such laws.

**F234.1.1 Accessible Dwelling Units.** In residential *facilities*, at least five percent, but not less than one unit, of the total number of *dwelling units* in a *facility* shall comply with 1101 and 1102.

**EXCEPTION:** Where residential *facilities* contain four or less *dwelling units*, at least five percent, but not less than one unit, of the total number of *dwelling units* in the *project* shall comply with 1101 and 1102.

**F234.1.2 Accessible Dwelling Units, Alterations.** Where dwelling units are *altered* or *added*, the requirements of F234 shall apply only to the *dwelling units* being *altered* or *added* until the number of *accessible dwelling units* complies with the minimum number required for new construction.

**F234.1.3 Communication Features.** In residential *facilities*, at least two percent, but not less than one unit, of the total number of *dwelling units* in a *facility* shall comply with 1101 and 1103.

**EXCEPTION:** Where residential *facilities* contain four or less *dwelling units*, at least two percent, but not less than one unit, of the total number of *dwelling units* in the *project* shall comply with 1101 and 1103.

**F234.1.4 Communication Features, Alterations.** Where *dwelling units* are *altered* or *added*, the requirements of F234 shall apply only to the *dwelling units* being *altered* or *added* until the number of *dwelling units* with *accessible* communication features complies with the minimum number required for new construction.

**F234.1.5 Dispersion.** *Dwelling units* required to comply with 1102 and *dwelling units* required to comply with 1103 shall be dispersed among the various types of *dwelling units* in the *facility* and shall provide choices of *dwelling units* comparable to and integrated with those available to other residents.

**EXCEPTION:** Single level *dwelling units* shall be permitted where *spaces* and amenities are equivalent to those provided in multi-level *dwelling units*.

## Appendix C to Part 1191—Technical

TECHNICAL

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## CHAPTER 3: BUILDING BLOCKS

### 301 General

**301.1 Scope.** The provisions of this chapter apply where required by Chapter 2 or by Chapters 4 through 11.

### 302 Floor or Ground Surfaces

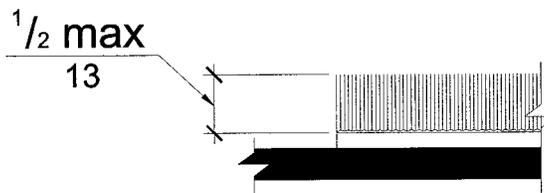
**302.1 General.** Floor and ground surfaces shall be stable, firm, and slip resistant and shall comply with 302.

#### Advisory 302.1

A stable surface is one that remains unchanged by contaminants or applied force, so that when the contaminant or force is removed, the surface returns to its original condition. A firm surface resists deformation by either indentations or particles moving on its surface. A slip-resistant surface provides sufficient frictional counterforce to the forces exerted in walking to permit safe ambulation.

**302.2 Carpet.** Carpet or carpet tile shall be securely attached and shall have a firm cushion, pad, or backing or no cushion or pad. Carpet or carpet tile shall have a level loop, textured loop, level cut pile, or level cut/uncut pile texture. Pile height shall be 1/2 inch (13 mm) maximum. Exposed edges of carpet shall be fastened to floor surfaces and shall have trim along the entire length of the exposed edge. Carpet edge trim shall comply with 303.

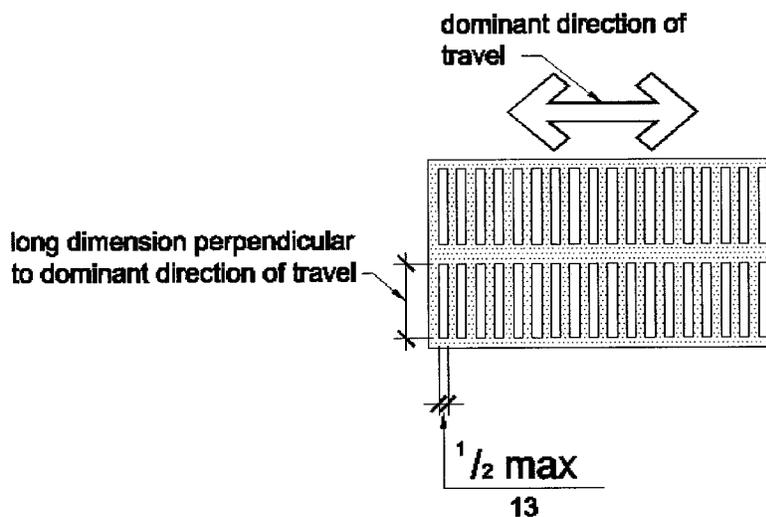
Figure 302.2



**Advisory 302.2**

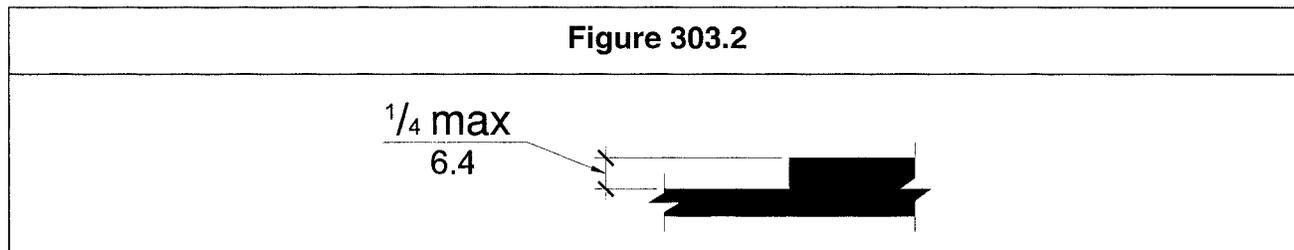
Carpets and permanently affixed mats can significantly increase the amount of force (roll resistance) needed to propel a *wheelchair* over a surface. The firmer the carpeting and backing, the lower the roll resistance. A pile thickness up to 1/2 inch (13 mm) (measured to the backing, cushion, or pad) is allowed, although a lower pile provides easier *wheelchair* maneuvering. If a backing, cushion or pad is used, it must be firm. Preferably, carpet pad should not be used because the soft padding increases roll resistance.

**302.3 Openings.** Openings in floor or ground surfaces shall allow passage of a sphere not more than 1/2 inch (13 mm) diameter except as allowed in 407.4.7, 408, and 1003. Elongated openings shall be placed so that the long dimension is perpendicular to the dominant direction of travel.

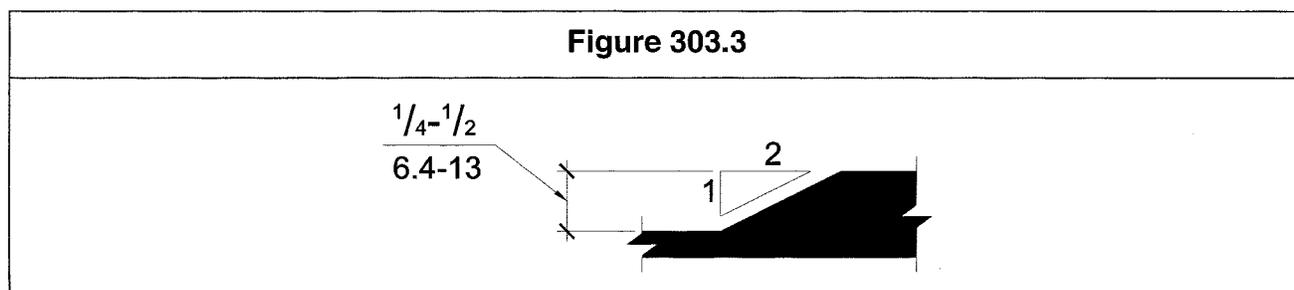
**Figure 302.3****303 Changes in Level**

**303.1 General.** Where changes in level are permitted in floor or ground surfaces, they shall comply with 303.

**303.2 Vertical.** Changes in level of 1/4 inch (6.4 mm) high maximum shall be permitted to be vertical.



**303.3 Beveled.** Changes in level between 1/4 inch (6.4 mm) high minimum and 1/2 inch (13 mm) high maximum shall be beveled with a slope not steeper than 1:2.



**Advisory 303.3**

The bevel should be applied to the entire level change.

**303.4 Ramps.** Changes in level greater than 1/2 inch (13 mm) high shall be ramped, and shall comply with 405 or 406.

### 304 Wheelchair Turning Space

**304.1 General.** *Wheelchair* turning space shall comply with 304.

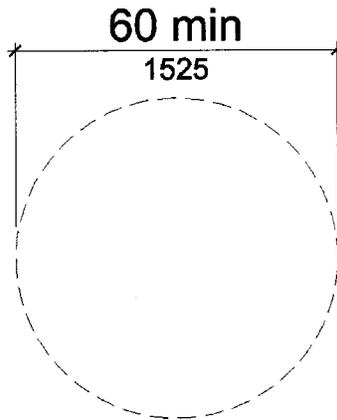
**304.2 Floor or Ground Surface.** Floor or ground surfaces of a turning space shall comply with 302. Changes in level are not permitted.

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

**304.3 Size.** *Wheelchair* turning space shall comply with 304.3.1 or 304.3.2.

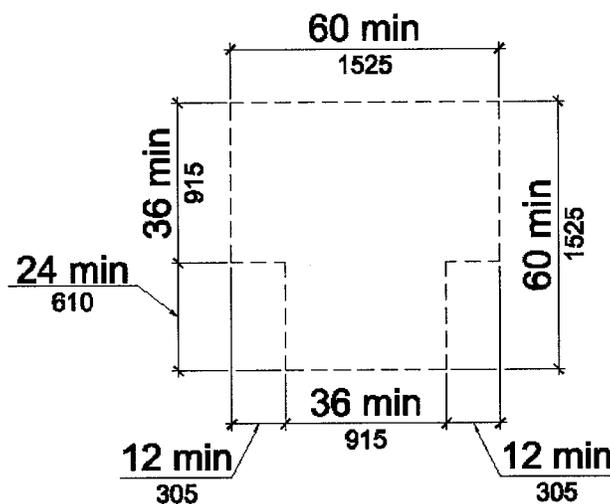
**304.3.1 Circular Space.** The *wheelchair turning space* shall be a *space* of 60 inches (1525 mm) diameter minimum. The *space* shall be permitted to include knee and toe clearance complying with 306.

Figure 304.3.1



**304.3.2 T-Shaped Space.** The *wheelchair turning space* shall be a T-shaped *space* within a 60 inch (1525 mm) minimum square with arms and base 36 inches (915 mm) wide minimum. Each arm of the T shall be clear of obstructions 12 inches (305 mm) minimum in each direction and the base shall be clear of obstructions 24 inches (610 mm) minimum. Such *space* shall be permitted to include knee and toe clearance complying with 306 only at the end of either the base or one arm.

Figure 304.3.2



**304.4 Doors.** Doors shall be permitted to swing into a *wheelchair turning space* unless otherwise specified.

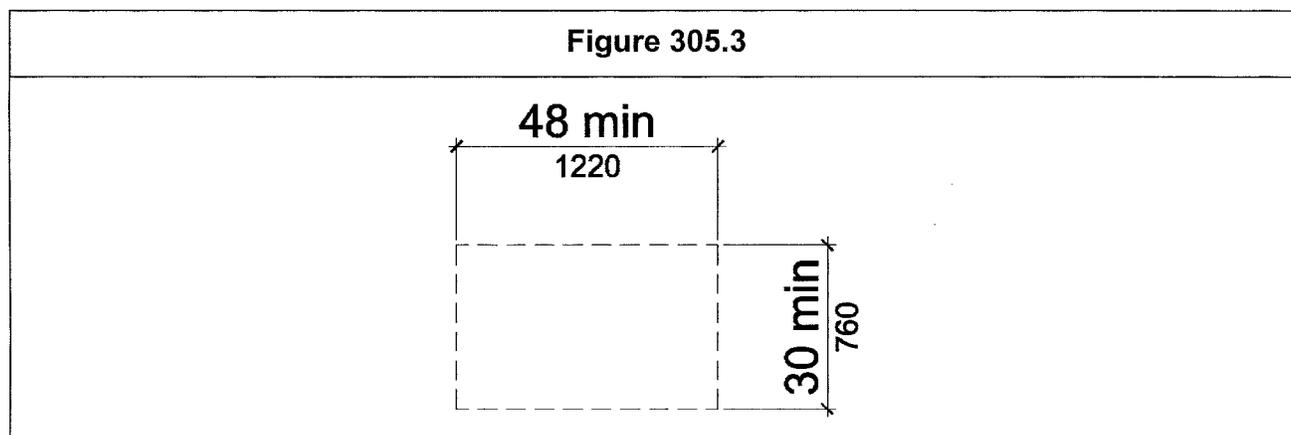
### 305 Clear Floor or Ground Space

**305.1 General.** Clear floor or ground *space* shall comply with 305.

**305.2 Floor or Ground Surfaces.** Floor or ground surfaces of a clear floor or ground *space* shall comply with 302. Changes in level are not permitted.

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

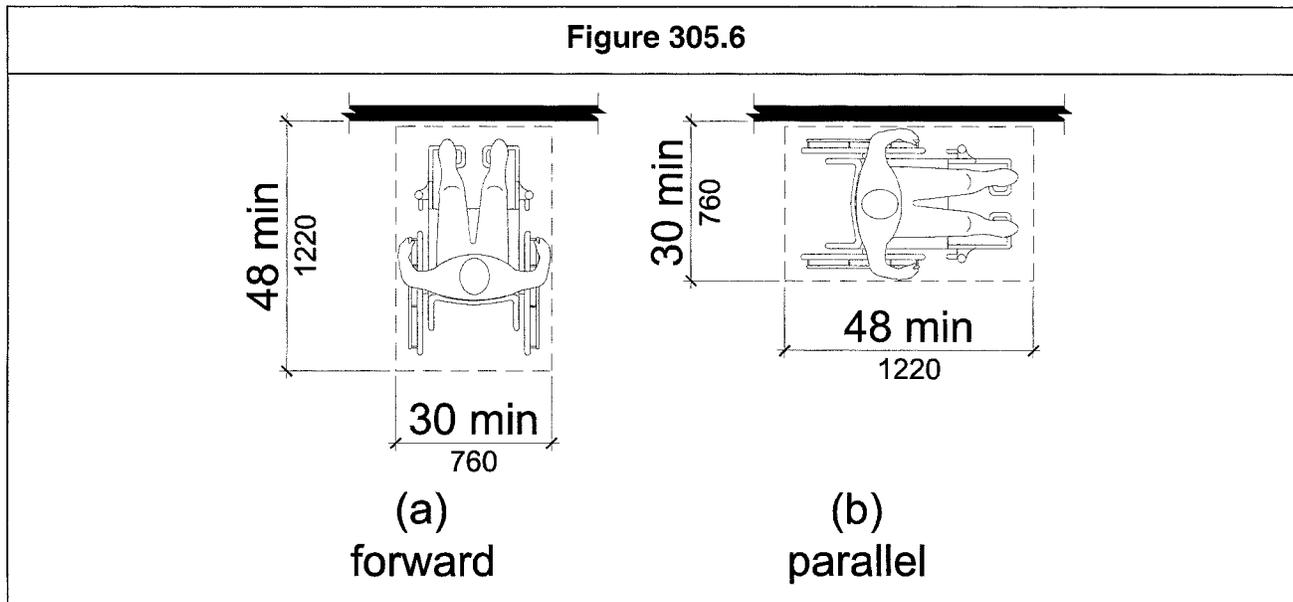
**305.3 Size.** The clear floor or ground *space* shall be 30 inches (760 mm) minimum by 48 inches (1220 mm) minimum.



**305.4 Knee and Toe Clearance.** Unless otherwise specified, clear floor or ground *space* shall be permitted to include knee and toe clearance complying with 306.

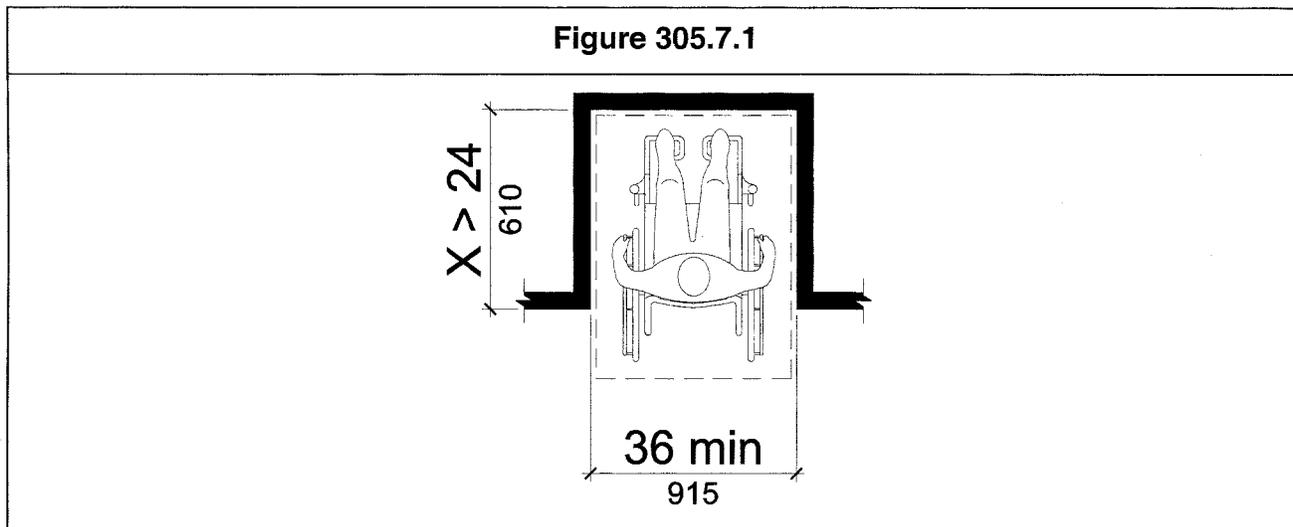
**305.5 Position.** Unless otherwise specified, clear floor or ground *space* shall be positioned for either forward or parallel approach to an *element*.

**305.6 Approach.** One full unobstructed side of the clear floor or ground *space* shall adjoin or overlap an *accessible route* or adjoin another clear floor or ground *space*.

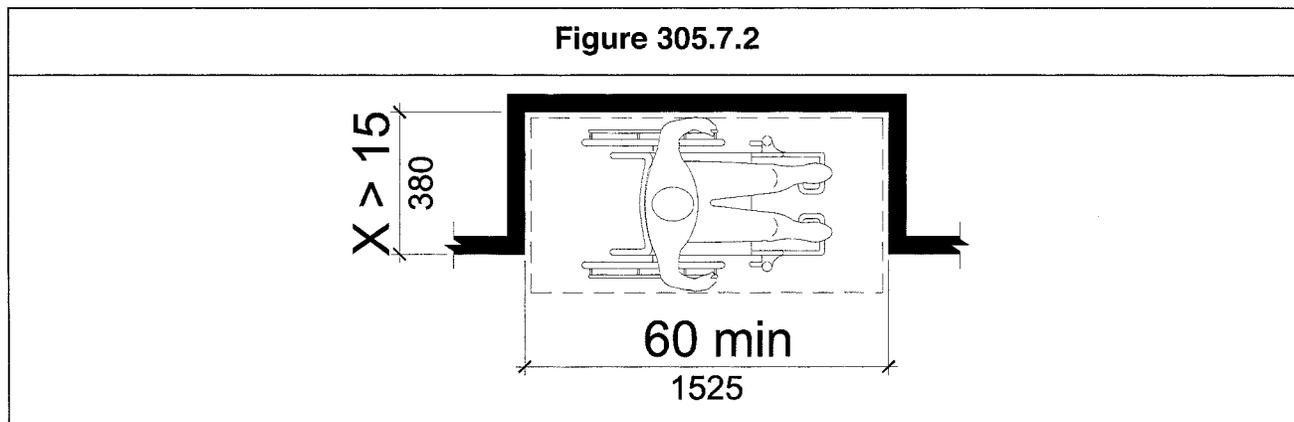


**305.7 Maneuvering Clearance.** Where a clear floor or ground *space* is located in an alcove or otherwise confined on all or part of three sides, additional maneuvering clearance complying with 305.7.1 and 305.7.2 shall be provided in accordance with 305.7.1 and 305.7.2.

**305.7.1 Forward Approach.** Where the depth of the alcove or other confined area exceeds 24 inches (610 mm), the width of the clear floor *space* shall be 36 inches (915 mm) minimum.



**305.7.2 Parallel Approach.** Where the depth of the alcove or other confined area exceeds 15 inches (380 mm), the length of the clear floor space shall be 60 inches (1525 mm) minimum.



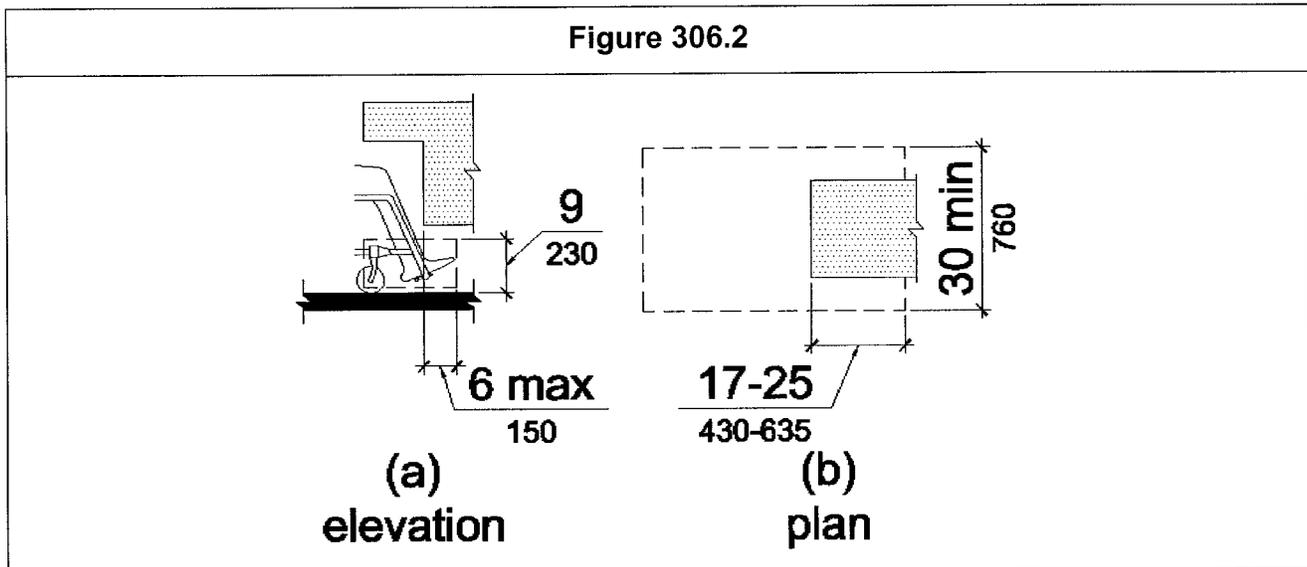
### 306 Knee and Toe Clearance

**306.1 General.** Where space beneath an object is included as part of clear floor or ground space or wheelchair turning space, the space shall comply with 306. Additional space shall not be prohibited beneath an object; however, such additional space shall not be considered as part of the clear floor or ground space or wheelchair turning space.

#### **Advisory 306.1**

Clearances are measured in relation to the usable clear floor space, not necessarily to the vertical support for an element. When determining clearance under an object for required turning or maneuvering space, care should be taken to ensure the space is clear of any obstructions.

## 306.2 Toe Clearance.



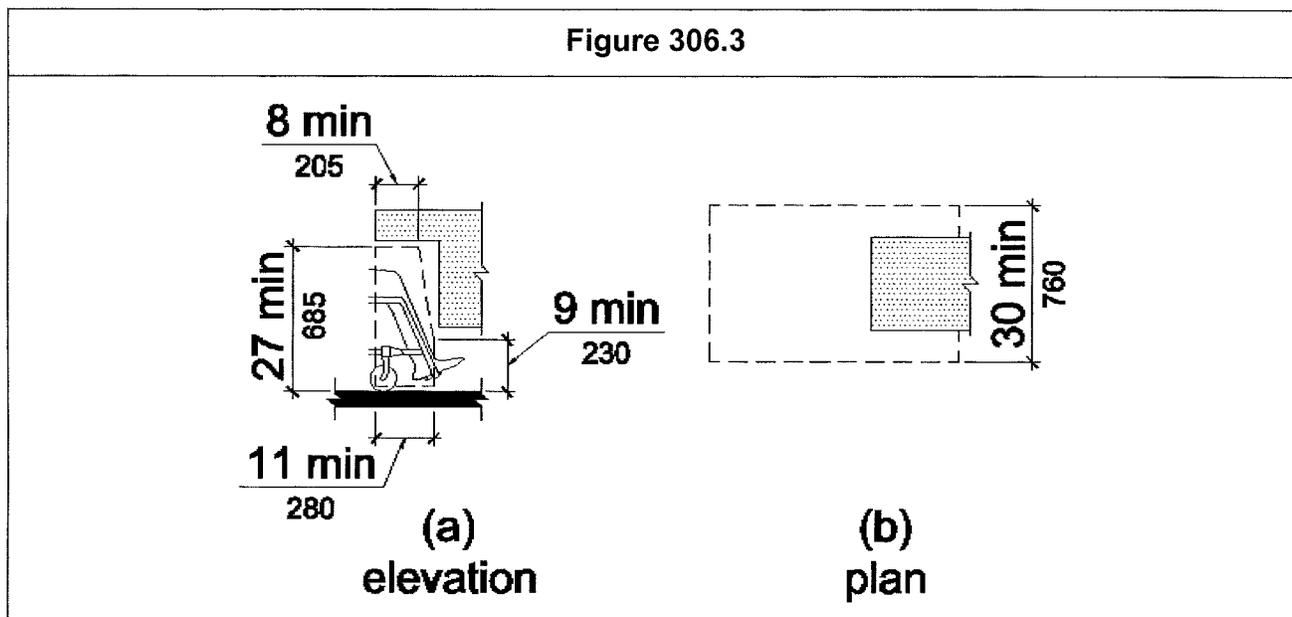
**306.2.1 General.** Space under an object between the floor or ground and 9 inches (230 mm) above the floor or ground shall be considered toe clearance and shall comply with 306.2.

**306.2.2 Maximum Depth.** Toe clearance shall extend 25 inches (635 mm) maximum under an object.

**306.2.3 Minimum Required Depth.** Where toe clearance is required at an *element* as part of a clear floor space, the toe clearance shall extend 17 inches (430 mm) minimum under the *element*.

**306.2.4 Additional Clearance.** Space extending greater than 6 inches (150 mm) beyond the available knee clearance at 9 inches (230 mm) above the floor or ground shall not be considered toe clearance.

**306.2.5 Width.** Toe clearance shall be 30 inches (760 mm) minimum in width.

**306.3 Knee Clearance.**

**306.3.1 General.** Space under an object between 9 inches (230 mm) and 27 inches (685 mm) above the floor or ground shall be considered knee clearance and shall comply with 306.3.

**306.3.2 Maximum Depth.** Knee clearance shall extend 25 inches (635 mm) maximum under an object at 9 inches (230 mm) above the floor or ground.

**306.3.3 Minimum Required Depth.** Where knee clearance is required under an *element* as part of a clear floor *space*, the knee clearance shall be 11 inches (280 mm) minimum in depth at 9 inches (230 mm) above the floor or ground, and 8 inches (205 mm) minimum in depth at 27 inches (685 mm) above the floor or ground.

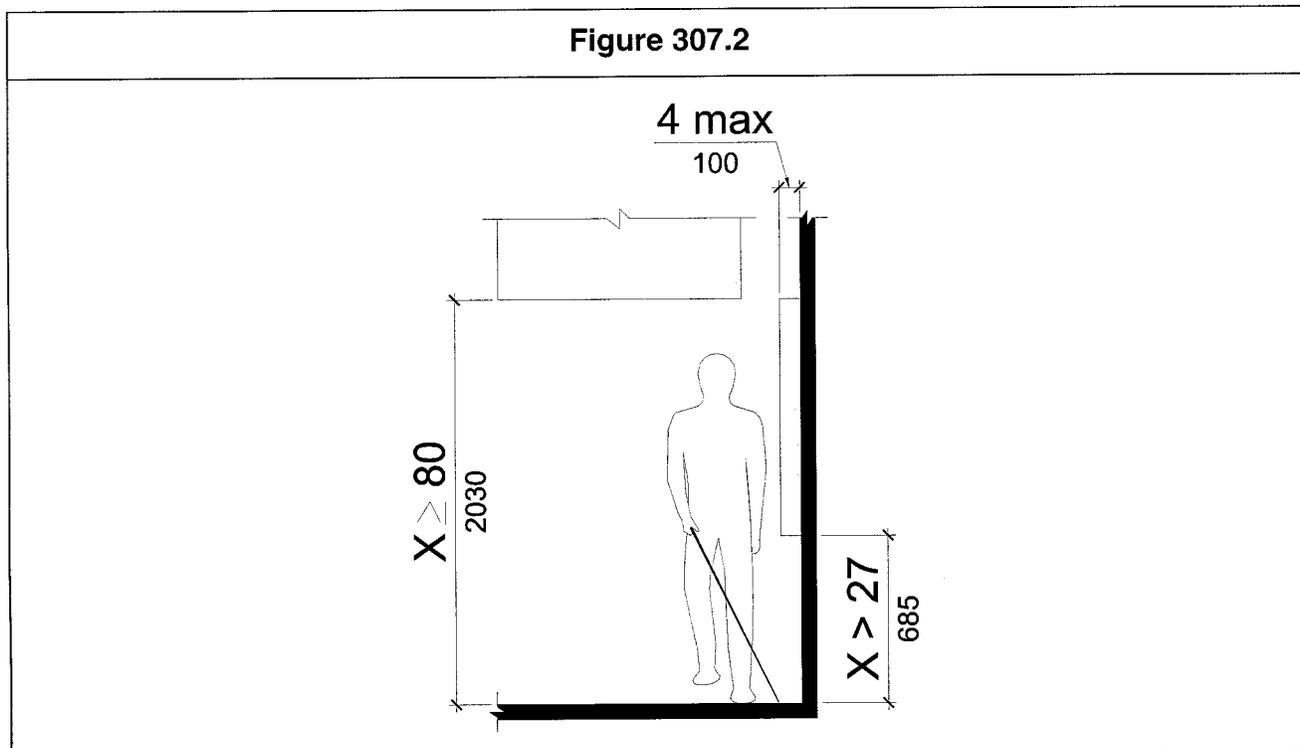
**306.3.4 Clearance Reduction.** Between 9 inches (230 mm) and 27 inches (685 mm) above the floor or ground, the knee clearance shall be permitted to reduce at a rate of 1 inch (25 mm) for each 6 inches (150 mm) in height.

**306.3.5 Width.** Knee clearance shall be 30 inches (760 mm) minimum in width.

**307 Protruding Objects**

**307.1 General.** Protruding objects shall comply with 307.

**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 or ground shall protrude 4 inches (100 mm) maximum horizontally into the *circulation path*.



#### Advisory 307.2

The two principle cane techniques are the touch technique, where the cane is arced from side-to-side and touches points outside both shoulders, and the diagonal technique, where the cane is held in a stationary position diagonally across the body with the tip just above the ground at a point outside one shoulder and the handle extended to a point outside the other shoulder. When one of these techniques is used and the element is in the detectable range, it gives a person sufficient time to detect the element with the cane before there is body contact.

**EXCEPTION:** Handrails serving stairs and *ramps* shall protrude 4-1/2 inches (115 mm) maximum from the wall.

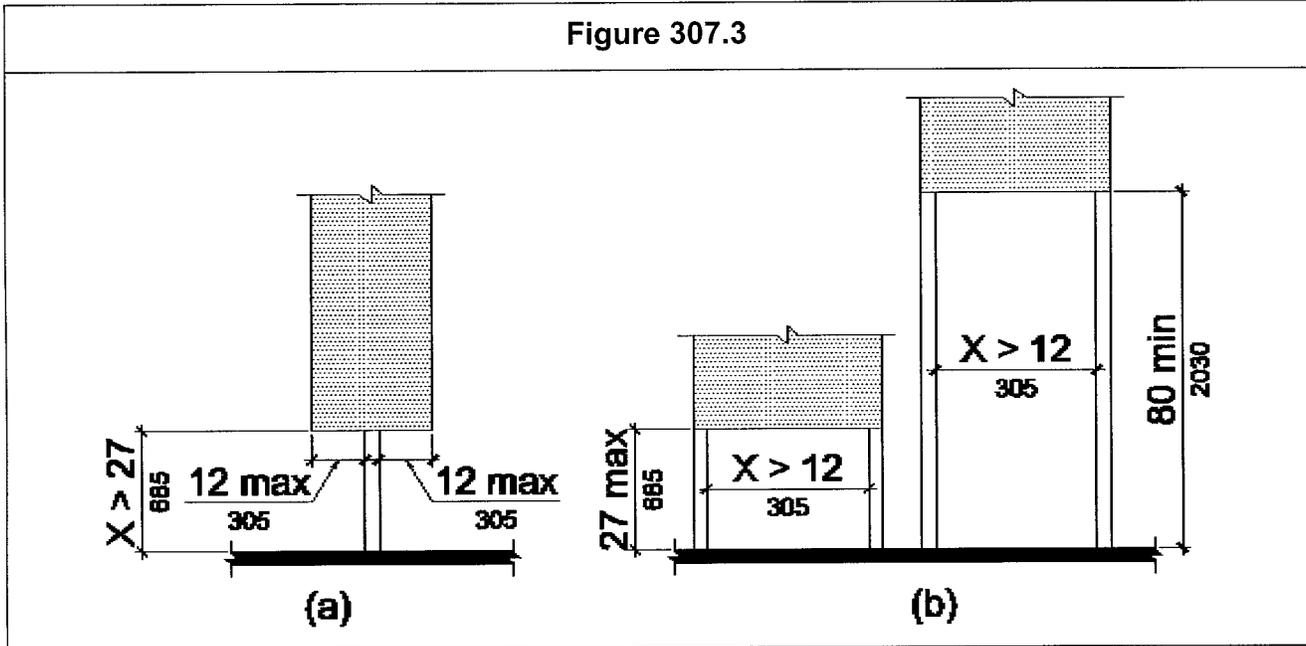
**307.3 Post-mounted Objects.** Free-standing objects mounted on posts or pylons shall overhang 12 inches (305 mm) maximum when located 27 inches (685 mm) minimum and 80 inches (2030 mm) maximum above the floor or ground. Where a *sign* or other obstruction is mounted between posts or pylons and the clear distance between the posts or pylons is greater than 12 inches (305 mm), the

## TECHNICAL

## CHAPTER 3: BUILDING BLOCKS

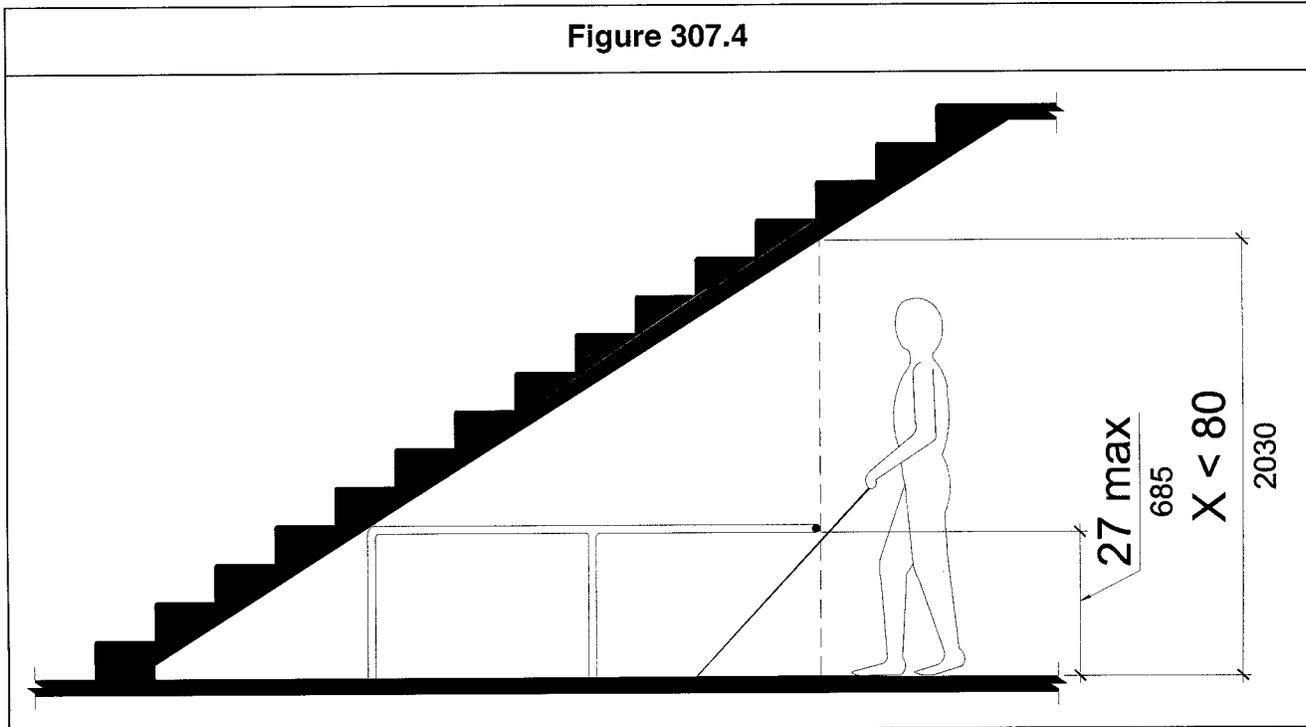
lowest edge of such *sign* or obstruction shall be 27 inches (685 mm) maximum or 80 inches (2030 mm) minimum above the floor or ground.

Figure 307.3



**EXCEPTION:** This requirement shall not apply to sloping portions of handrails serving stairs and ramps.

**307.4 Reduced Vertical Clearance.** Guardrails or other barriers shall be provided where the vertical clearance is less than 80 inches (2030 mm) high. The leading edge of such guardrail or barrier shall be located 27 inches (685 mm) maximum above the floor or ground.



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

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

### 308 Reach Ranges

**308.1 General.** Reach ranges shall comply with 308.

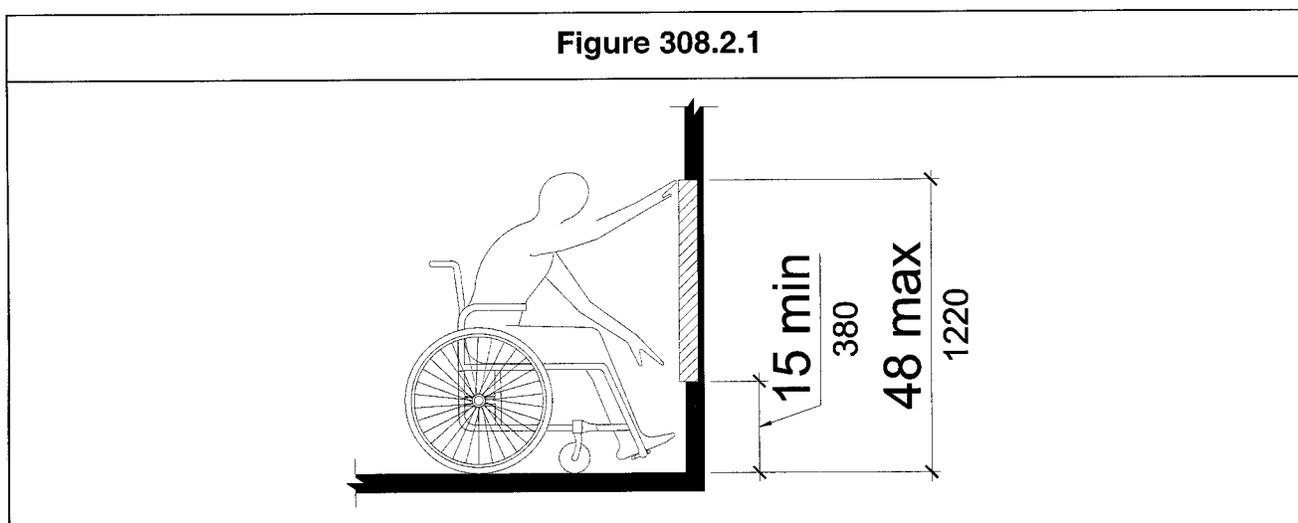
#### Advisory 308.1

The following table provides guidance on reach ranges for children according to age where *building elements* such as coat hooks, lockers, or controls and operating mechanisms are designed for use primarily by children. These dimensions apply to either forward or side reaches. *Accessible elements*, controls, and operating mechanisms designed for adult use or children over age 12 can be located outside these ranges but must be within the adult reach ranges required by 308.

Children's Reach Ranges			
Forward or Side Reach	Ages 3 and 4	Ages 5 through 8	Ages 9 through 12
High (maximum)	36 in (915 mm)	40 in (1015 mm)	44 in (1120 mm)
Low (minimum)	20 in (510 mm)	18 in (455 mm)	16 in (405 mm)

### 308.2 Forward Reach.

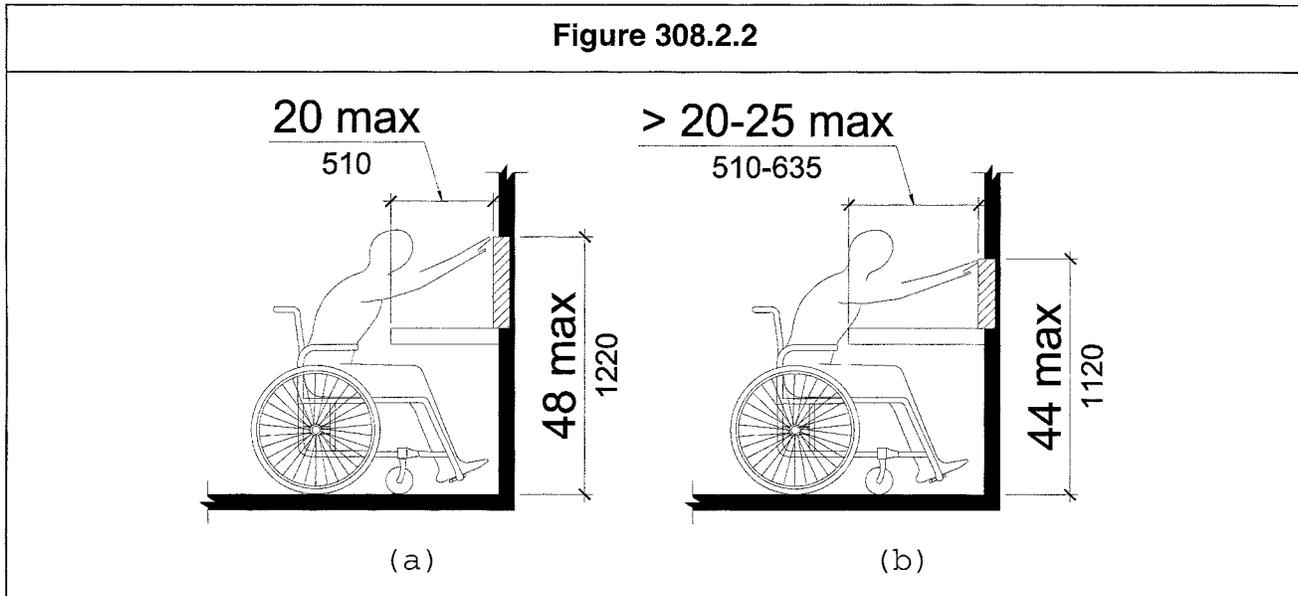
**308.2.1 Unobstructed.** Where a clear floor or ground *space* allows only a forward approach to an object and is unobstructed, the high forward reach shall be 48 inches (1220 mm) maximum and the low forward reach shall be 15 inches (380 mm) minimum above the floor or ground.



**308.2.2 Obstructed High Reach.** Where a clear floor or ground *space* allows only a forward approach to an object and the high forward reach is over an obstruction, the clear floor *space* shall extend beneath the object for a distance not less than the required reach depth over the obstruction. The high forward reach shall be 48 inches (1220 mm) maximum where the reach depth is 20 inches

(510 mm) maximum. Where the reach depth exceeds 20 inches (510 mm), the high forward reach shall be 44 inches (1120 mm) maximum and the reach depth shall be 25 inches (635 mm) maximum.

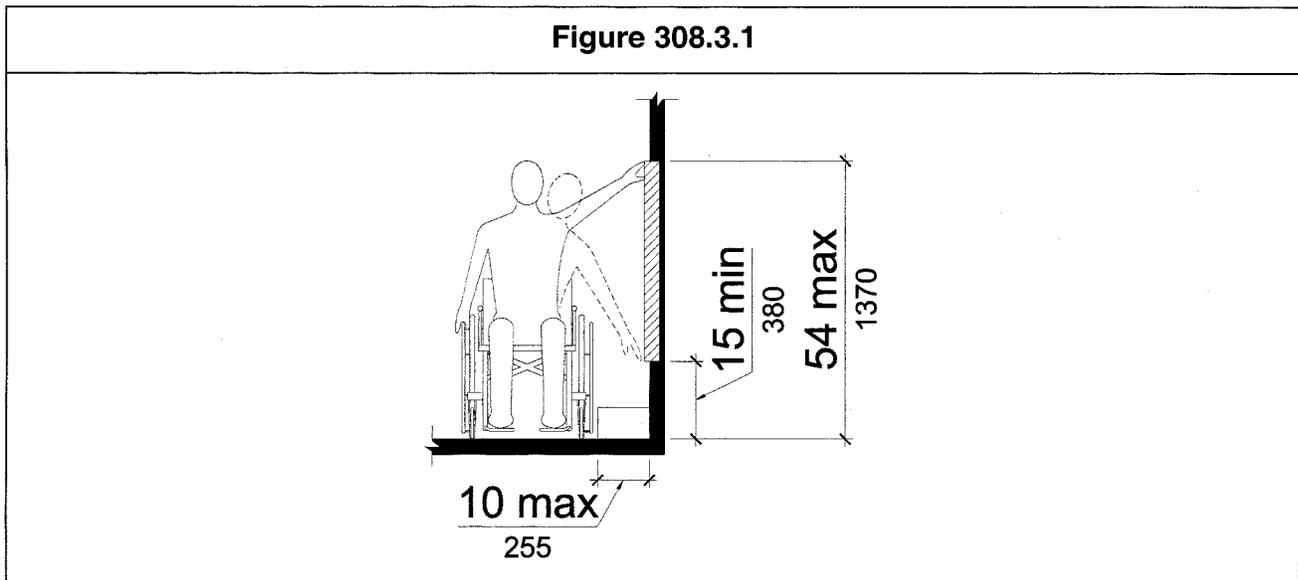
Figure 308.2.2



### 308.3 Side Reach.

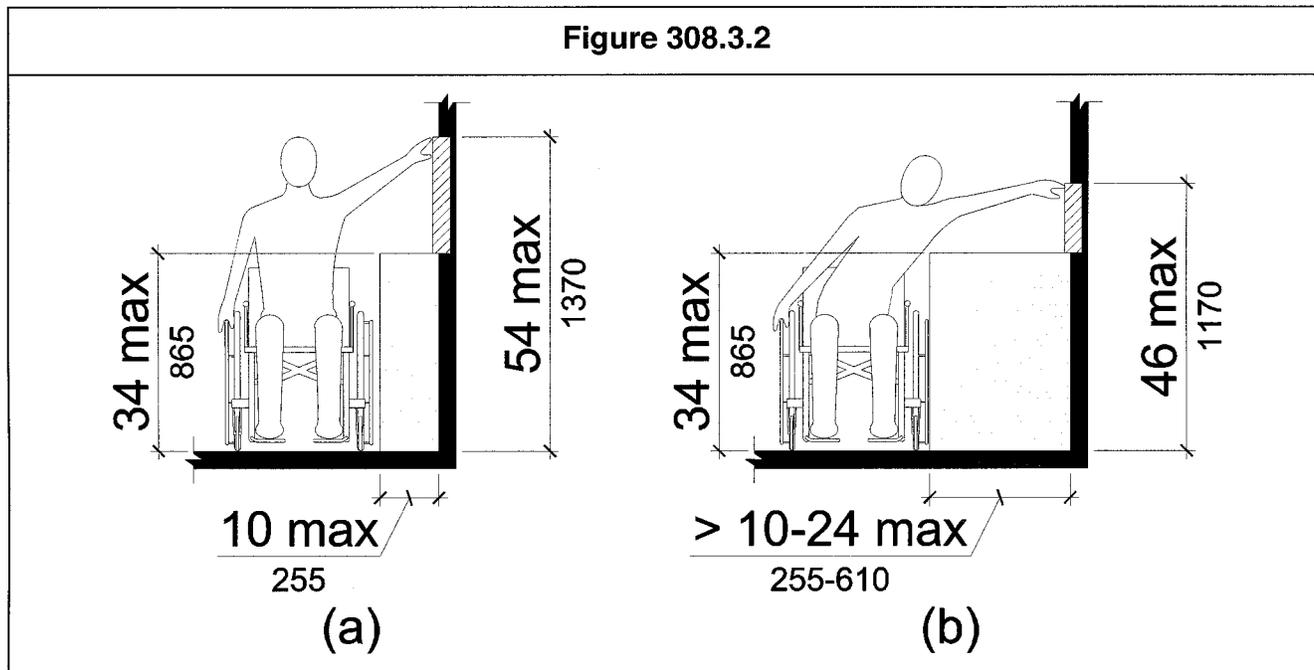
**308.3.1 Unobstructed.** Where a clear floor or ground *space* allows a parallel approach to an element and the side reach is unobstructed, the high side reach shall be 54 inches (1370 mm) maximum and the low side reach shall be 15 inches (380 mm) minimum above the floor or ground.

Figure 308.3.1



**EXCEPTION:** An obstruction shall be permitted between the clear floor or ground *space* and the element where the depth of the obstruction is 10 inches (255 mm) maximum.

**308.3.2 Obstructed High Reach.** Where a clear floor or ground *space* allows a parallel approach to an object 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 54 inches (1370 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.



### 309 Operable Parts

**309.1 General.** *Operable parts* shall comply with 309.

**309.2 Clear Floor Space.** A clear floor or ground *space* complying with 305 shall be provided.

**309.3 Height.** *Operable parts* shall be placed within one or more of the reach ranges specified in 308.

**EXCEPTION:** This requirement does not apply where the use of special equipment dictates otherwise or where electrical and communications systems receptacles are not normally intended for use by building or *facility* occupants.

**309.4 Operation.** *Operable parts* shall be operable with one hand and shall not require tight grasping, pinching, or twisting of the wrist. The force required to activate *operable parts* shall be 5 lb (22.2 N) maximum.



## CHAPTER 4: ACCESSIBLE ROUTES

### 401 General

**401.1 Scope.** *Accessible routes* and *accessible means of egress* required by Chapter 2 shall comply with the applicable provisions of this chapter.

### 402 Accessible Routes

**402.1 General.** *Accessible routes* shall comply with 402.

**402.2 Components.** *Accessible routes* shall consist of one or more of the following components: walking surfaces with a slope not steeper than 1:20, doorways, *ramps*, elevators and platform (*wheelchair*) lifts. All components of an *accessible route* shall comply with the applicable portions of this chapter.

### 403 Walking Surfaces

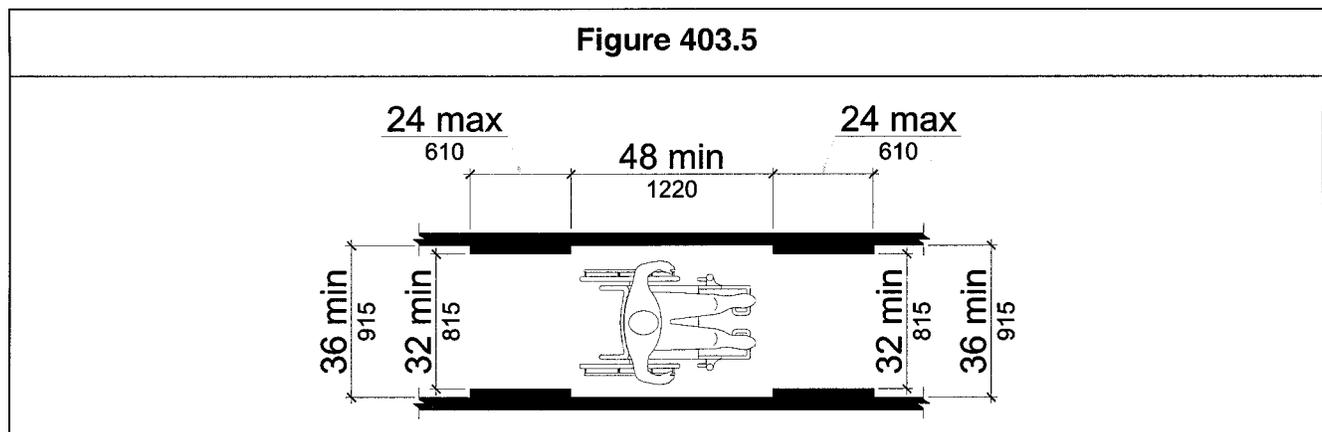
**403.1 General.** Walking surfaces that are a part of an *accessible route* shall comply with 403.

**403.2 Floor or Ground Surface.** Floor or ground surfaces shall comply with 302.

**403.3 Slope.** The *running slope* of walking surfaces shall be not steeper than 1:20. The *cross slope* of walking surfaces shall not be steeper than 1:48.

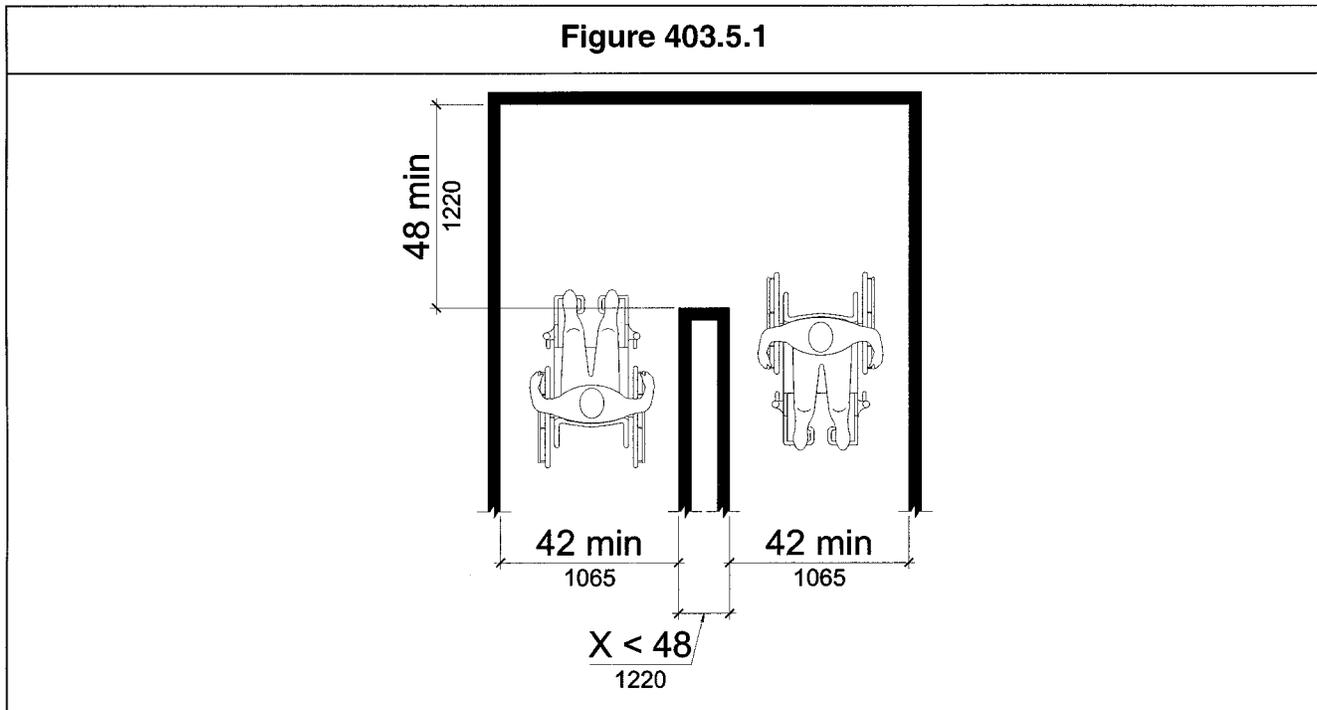
**403.4 Changes in Level.** Changes in level shall comply with 303.

**403.5 Clear Width.** The clear width of walking surfaces shall be 36 inches (915 mm) minimum.



**EXCEPTION:** The clear width shall be permitted to be reduced to 32 inches (815 mm) minimum for a length of 24 inches (610 mm) maximum, provided that reduced width segments are separated by segments that are 48 inches (1220 mm) minimum in length and 36 inches (915 mm) minimum in width.

**403.5.1 Clear Width at Turn.** Where the *accessible route* makes a 180 degree turn around an object which is less than 48 inches (1220 mm) wide, clear width shall be 42 inches (1065 mm) minimum approaching the turn, 48 inches (1220 mm) minimum at the turn and 42 inches (1065 mm) minimum leaving the turn.



**EXCEPTION:** This requirement shall not apply where the clear width at the turn is 60 inches (1525 mm) minimum.

**403.5.2 Passing Spaces.** An *accessible route* with a clear width less than 60 inches (1525 mm) shall provide passing *spaces* at intervals of 200 feet (61 m) maximum. Passing *spaces* shall be either a 60 inch (1525 mm) minimum by 60 inch (1525 mm) minimum *space*, or an intersection of two walking surfaces which provide a T-shaped *space* complying with 304 provided that the stem and arms of the T-shaped *space* extend 48 inches (1220 mm) minimum beyond the intersection.

**403.5.3 Protruding Objects.** Protruding objects shall comply with 307. Protruding objects shall not reduce the required clear width.

#### Advisory 403.5.3

The height of the clear or unobstructed *space* is considered from the floor or ground to 80 inches (2030 mm) above the floor or ground, unless specified otherwise.

### 404 Doors and Doorways

**404.1 General.** Doors and doorways that are part of an *accessible route* shall comply with 404.

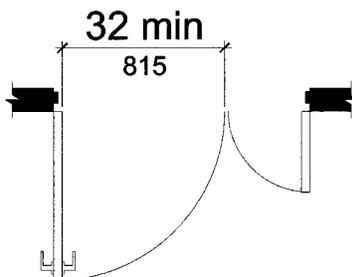
**404.2 Manual Doors and Doorways.** Manual doors and doorways and manual gates, including ticket gates, shall comply with 404.2.

**EXCEPTION:** Doors, doorways, and gates designed to be operated only by security personnel shall not be required to comply with 404.2.7, 404.2.8, and 404.2.9.

**404.2.1 Revolving Doors and Turnstiles.** Manual revolving doors and revolving turnstiles shall not be part of an *accessible route*.

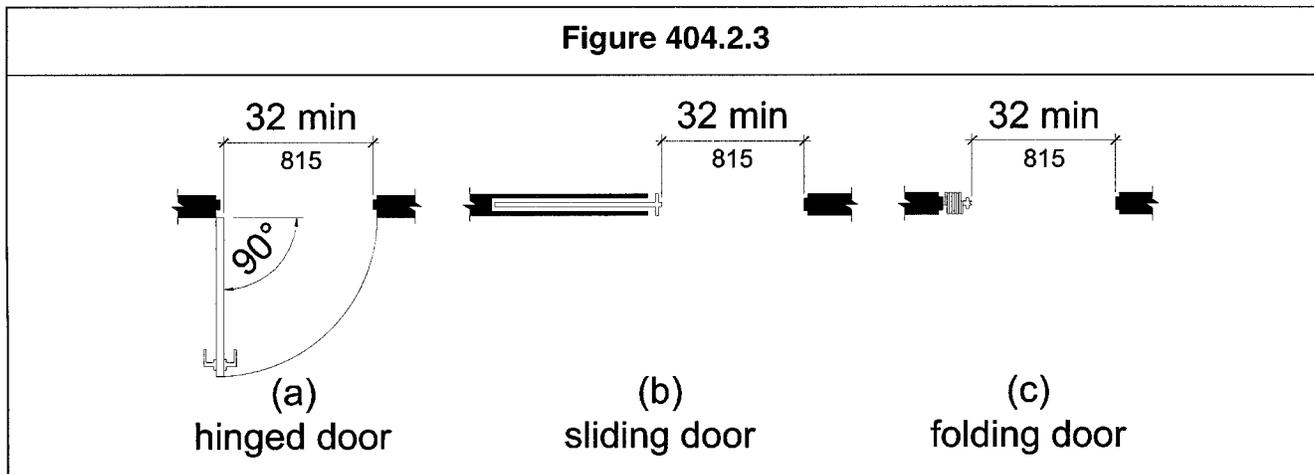
**404.2.2 Double-Leaf Doors.** At least one of the active leaves of doorways with two independently operated leaves shall comply with 404.2.3 and 404.2.4.

Figure 402.2.2



**404.2.3 Clear Width.** Doorways shall have a clear opening of 32 inches (815 mm) minimum. Clear openings of doorways with swinging doors shall be measured between the face of the door and the stop, with the door open 90 degrees. Openings more than 24 inches (610 mm) in depth shall provide a clear opening of 36 inches (915 mm) minimum. There shall be no projections into the required clear opening width lower than 34 inches (865 mm) above the floor or ground. Projections into the

clear opening width between 34 inches (865 mm) and 80 inches (2030 mm) above the floor or ground shall not exceed 4 inches (100 mm).



**EXCEPTION:** In *alterations*, a projection of 5/8 inch (16 mm) maximum into the required clear width shall be permitted for the latch side stop.

**404.2.4 Maneuvering Clearances.**

**404.2.4.1 Swinging Doors.** Approaches to swinging doors shall have maneuvering clearances complying with Table 404.2.4.1.

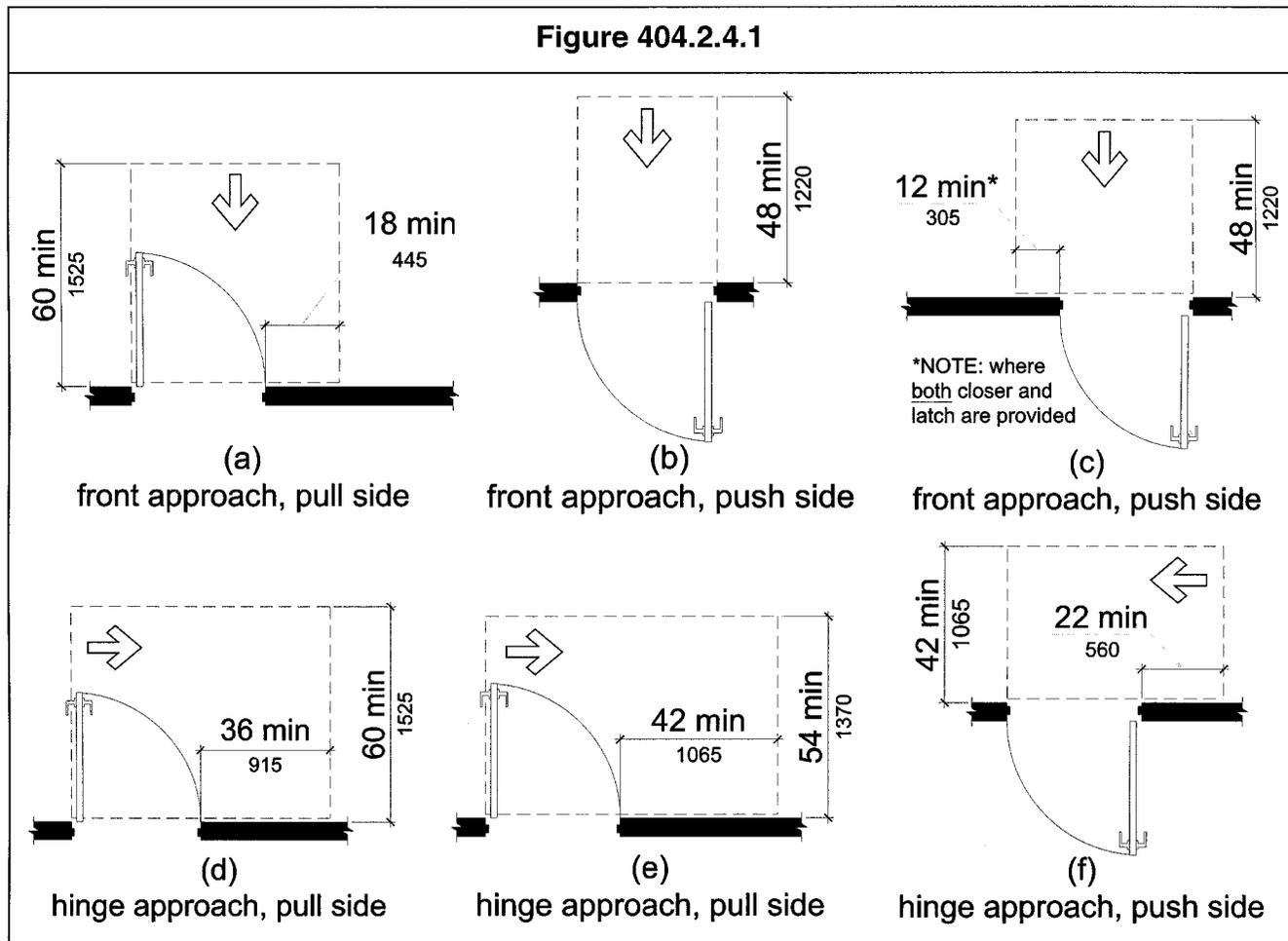
**Table 404.2.4.1 Maneuvering Clearances at Manual Swinging Doors**

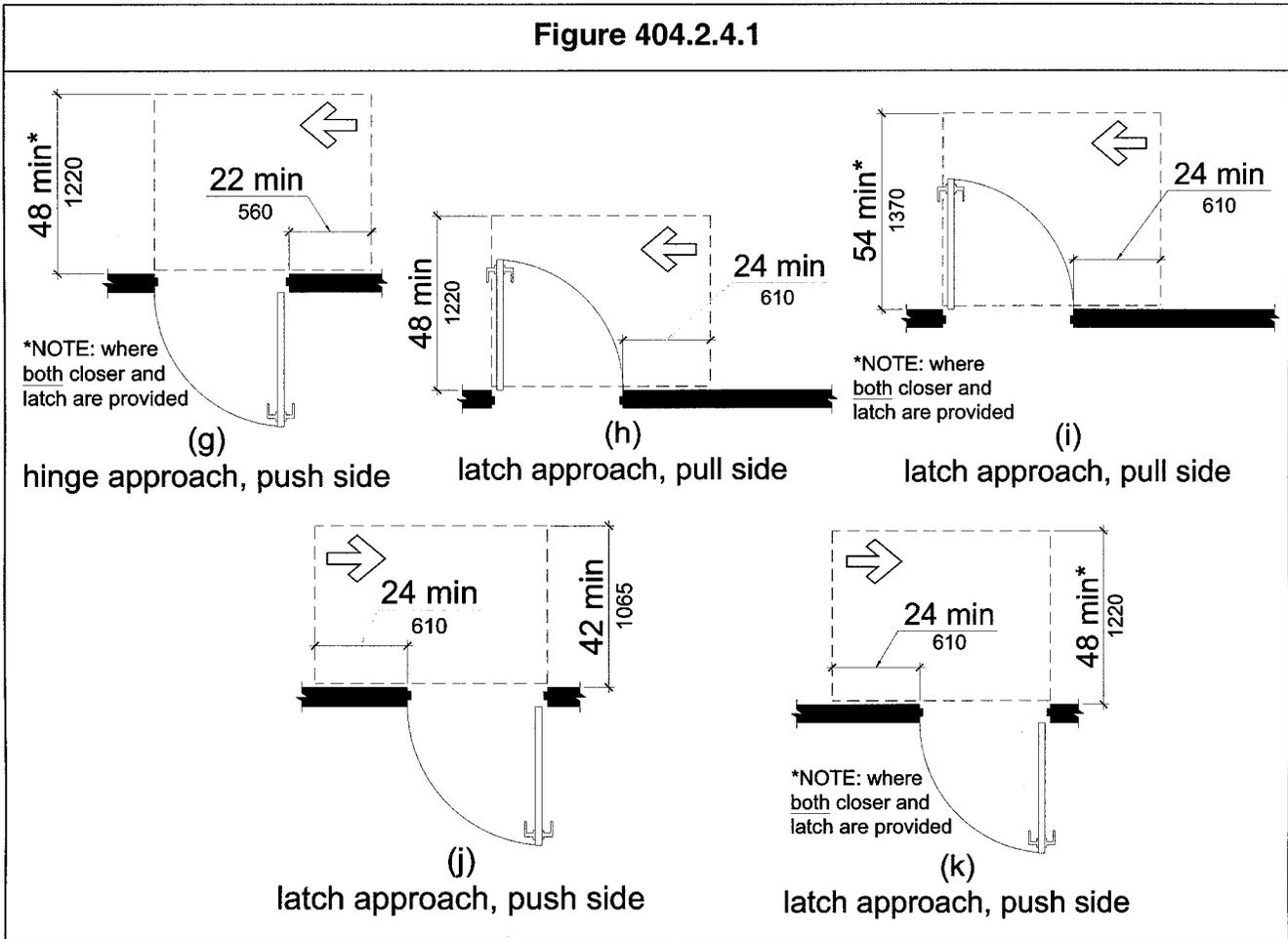
Type of Use		Minimum Maneuvering Clearance <sup>1</sup>	
Approach Direction	Door Side	Perpendicular to Doorway	Parallel to Doorway (beyond latch side unless noted)
From front	Pull	60 inches (1525 mm)	18 inches (455 mm)
From front	Push	48 inches (1220 mm)	0 inches (0 mm) <sup>2</sup>
From hinge side	Pull	60 inches (1525 mm)	36 inches (915 mm)
From hinge side	Pull	54 inches (1370 mm)	42 inches (1065 mm)
From hinge side	Push	42 inches (1065 mm) <sup>3</sup>	22 inches (560 mm) <sup>4</sup>
From latch side	Pull	48 inches (1220 mm) <sup>5</sup>	24 inches (610 mm)
From latch side	Push	42 inches (1065 mm) <sup>6</sup>	24 inches (610 mm)

1. Maneuvering clearances shall include the full width of the doorway.
2. Add 12 inches (305 mm) if closer and latch are provided.
3. Add 6 inches (150 mm) if closer and latch are provided.
4. beyond hinge side
5. Add 6 inches (150 mm) if closer and latch are provided.
6. Add 6 inches (150 mm) if closer and latch are provided.

**EXCEPTION:** Doors to hospital patient sleeping rooms shall not be required to provide the clearance beyond the latch side of the door provided the door is 44 inches (1120 mm) wide minimum.

Figure 404.2.4.1





**404.2.4.2 Doorways without Doors, Sliding Doors, and Folding Doors.** Doorways less than 36 inches (915 mm) wide without doors, sliding doors, or folding doors shall have maneuvering clearances complying with Table 404.2.4.2.

**Table 404.2.4.2 Maneuvering Clearances at Doorways without Doors, Manual Sliding Doors, and Manual Folding Doors**

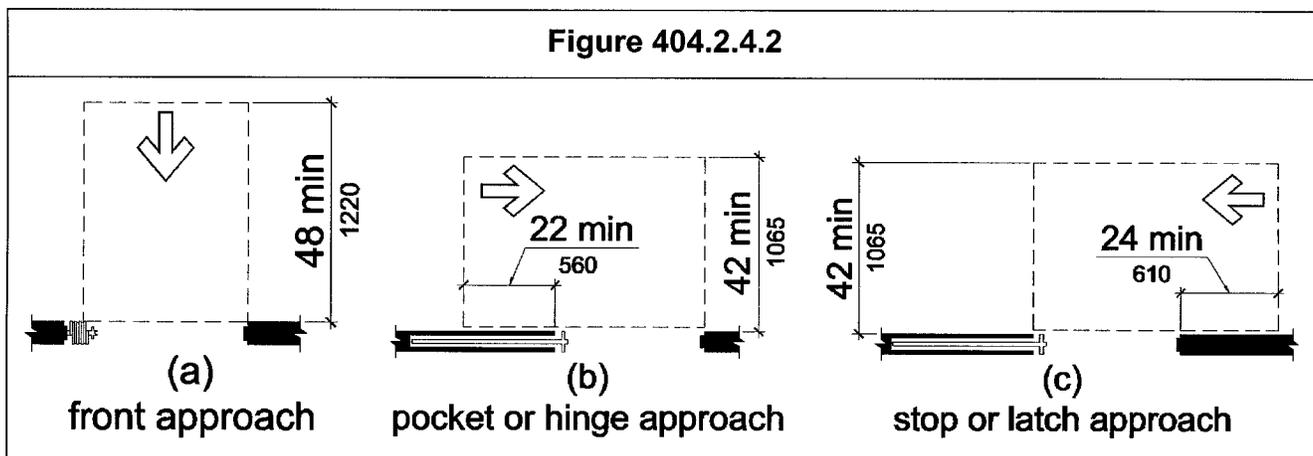
Approach Direction	Minimum Maneuvering Clearance <sup>1</sup>	
	Perpendicular to Doorway	Parallel to Doorway (beyond stop/latch side unless noted)
From Front	48 inches (1220 mm)	0 inches (0 mm)
From side <sup>2</sup>	42 inches (1065 mm)	0 inches (0 mm)

**Table 404.2.4.2 Maneuvering Clearances at Doorways without Doors, Manual Sliding Doors, and Manual Folding Doors**

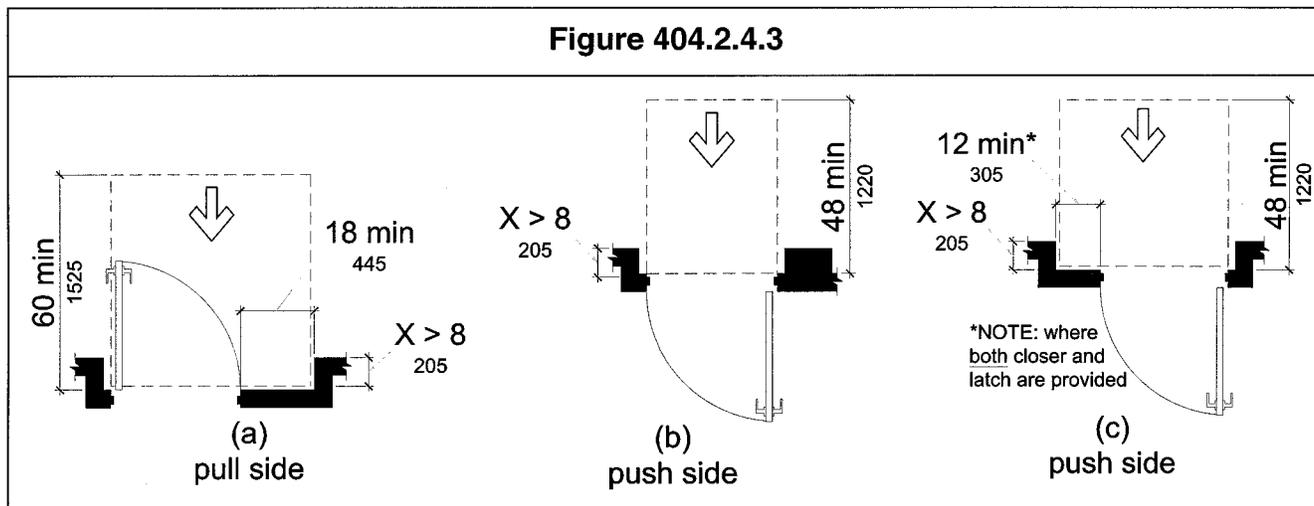
Approach Direction	Minimum Maneuvering Clearance <sup>1</sup>	
	Perpendicular to Doorway	Parallel to Doorway (beyond stop/latch side unless noted)
From pocket/hinge side	42 inches (1065 mm)	22 inches (560 mm) <sup>3</sup>
From stop/latch side	42 inches (1065 mm)	24 inches (610 mm)

1. Maneuvering clearance shall include the full width of the doorway.
2. doorway with no door only
3. beyond pocket/hinge side

**EXCEPTION:** Doors to hospital patient sleeping rooms are exempt from the clearance beyond the stop/latch side of the door provided the door is 44 inches (1120 mm) wide minimum.

**Figure 404.2.4.2**

**404.2.4.3 Recessed Doors.** Recessed doors where the plane of the doorway is offset more than 8 inches (205 mm) from any obstruction within 18 inches (455 mm) measured laterally on the latch side of the door shall provide maneuvering clearances for front approach.



**Advisory 404.2.4.3**

A door can be recessed due to wall thickness, or the placement of casework, and other fixed elements. This provision should be applied wherever doors are recessed.

**404.2.4.4 Floor or Ground Surface.** Floor or ground surface within required maneuvering clearances shall have a slope of 1:48 maximum and shall comply with 302. Changes in level, except at thresholds complying with 404.2.5, are not permitted.

**404.2.5 Thresholds.** Thresholds if provided at doorways shall be 1/2 inch (13 mm) maximum in height. Raised thresholds and changes in level at doorways shall comply with 302 and 303.

**EXCEPTION:** This requirement shall not apply to existing or *altered* thresholds 3/4 inch (19 mm) high maximum that have a beveled edge on each side.