

Chapter 120-3-20

ACCESSIBILITY CODE FOR BUILDINGS AND FACILITIES

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120-3-20-.01 PURPOSE

(1) The provisions of this chapter are enacted to further the policy of the State of Georgia to encourage and enable persons with disabilities or elderly persons to participate fully in the social and economic life of Georgia and to encourage and promote their education and rehabilitation. It is the intent of this chapter to eliminate, insofar as possible, unnecessary physical barriers encountered by persons with disabilities or elderly persons whose ability to participate in the social and economic life of this state is needlessly restricted when such persons cannot readily use government buildings, public buildings, and facilities used by the public.

(2) Unless otherwise stated in this Chapter of the Rules and Regulations of the Georgia Safety Fire Commissioner, the following meet the Americans With Disabilities Act Accessibility Guidelines and shall be the minimum standard for Accessibility to buildings and facilities by individuals with disabilities under the Americans with Disabilities Act (ADA) of 1990. These rules are to be applied during the design, construction, and alteration of buildings and facilities covered by Titles II and III of the ADA to the extent required by regulations issued by Federal agencies, including the Department of Justice and the Department of Transportation, under the ADA. The technical specifications Rules 120-3-20-.03 through 120-3-20-.46, of these regulations are the same as those of the American National Standard Institute's document A117.1-1980, except as noted in this text by italics. However, Rules 120-3-20-.07 through 120-3-20-.12 and Rules 120-3-20-.47 through 120-3-20-.53 are different from ANSI A117.1 in their entirety.

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120-3-20-.02 ADMINISTRATION

(a) Except for buildings under the jurisdiction of the Board of Regents of the University System of Georgia, all buildings subject to the jurisdiction of the Safety Fire Commissioner pursuant to Code Section 25-2-12 and subsection (c) of Code Section 25-2-13 shall be subject to the jurisdiction of the Safety Fire Commissioner for purposes of enforcement of this chapter.

(b) The board of regents shall be responsible for the administration and enforcement of this chapter with respect to all buildings and facilities under its jurisdiction. No construction plans for any such building or facility shall be approved by the board of regents for any construction within the University System of Georgia unless the building or facility conforms to O.C.G.A. 25-2-12 Rules 30-3-3 and 30-3-5 and unless the architect or engineer responsible for preparation of said plans and specifications affixes that person's seal on such plans. The affixing of the seal of an architect or engineer to said plans shall constitute a certification that to the best of that person's knowledge, information, and belief they have been prepared in conformity with O.C.G.A. Title 30 Code Rules 30-3-3 and 30-3-5. A certificate of compliance may be displayed on said plans in lieu of the architect's or engineer's seal. The builder, developer, contractor, or building owner following said plans shall require an architect's or engineer's seal or a certificate of compliance to be displayed on the plans before starting construction.

(c) Local governing authorities shall be responsible for the administration and enforcement of this chapter with regard to all government and public buildings and facilities which are not under the jurisdiction of the Safety Fire Commissioner or board of regents, pursuant to subsections (a) and (b) of this Code section and

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which are under the jurisdiction of such local governing authorities. No building permit for any such building or facility shall be approved by any local governing authority for any private person, corporation, partnership, association, or public entity unless the plans and specifications conform to the requirements of O.C.G.A. Title 30 Code Rules 30-3-3 and 30-3-5 and unless the architect or engineer responsible for preparation of said plans and specifications affixes that person's seal on such plans. The affixing of the seal of an architect or engineer to said plans shall constitute a certification that to the best of that person's knowledge, information, and belief they have been prepared in conformity with O.C.G.A. Title 30 Code Rules 30-3-3 and 30-3-5. A certificate of compliance may be displayed on said plans in lieu of the architect's or engineer's seal. The builder, developer, contractor, or building owner following said plans shall require such a seal or a certificate of compliance on the plans before starting construction. All construction plans must display such a certificate of compliance, or a seal provided by the architect or engineer, for all construction in local governing jurisdictions which do not require building permits. In all areas where local governing authority building permits are not required, the builder, developer, contractor, or building owner following said plans shall require such an architect's or engineer's seal or a certificate of compliance to be displayed on the plans before starting construction.

120-3-20-.03 Application.

(1) **General.** All areas of newly designed or newly constructed buildings and facilities required to be accessible by Rules 120-3-20-.07 and 120-3-20-.08 and altered portions of existing buildings and facilities required to be accessible by Rule 120-3-20-.11 shall comply with these Regulations, Rules 120-3-20-.03 through 120-3-20-.46, unless otherwise provided in this section or as modified in a special application section.

(2) **Application Based on Building Use.** Special application rules 120-3-20-.47 thru 120-3-20-.53 **provide additional requirements** for *restaurants and cafeterias, medical care facilities, business and mercantile, libraries, accessible transient lodging, transportation facilities and designing for Children*. When a building or facility contains more than one use covered by a special application section, each portion shall comply with the requirements for that use.

(3) **Areas Used Only by Employees as Work Areas.** Areas that are used only as work areas shall be designed and constructed so that individuals with disabilities can approach, enter, and exit the areas. These regulations do not require that all areas used only as work areas be constructed to permit maneuvering within the work area or be constructed or equipped (i.e., with racks or shelves) to be accessible.

Note: Areas Used Only by Employees as Work Areas. Where there are a series of individual work stations of the same type (e.g., laboratories, service counters, ticket booths), **5%**, but **not less than one**, of each type of work station should be constructed so that an individual with disabilities can maneuver within the work stations. Rooms housing individual offices in a typical office building must meet the requirements of the regulations concerning doors, accessible routes, etc. but do not need to allow for maneuvering space around all individual desks. Modifications required to permit maneuvering within

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the work area may be accomplished as a reasonable accommodation to individual employees with disabilities under Title I of the ADA. Consideration should also be given to placing shelves in employee work areas at a convenient height for accessibility or installing commercially available shelving that is adjustable so that reasonable accommodations can be made in the future. If work stations are made accessible they should comply with the applicable provisions of Rules 120-3-20-.03 through 120-3-20-.46.

(4) Temporary Structures. These regulations cover temporary buildings or facilities as well as permanent facilities. Temporary buildings and facilities are not of permanent construction but are extensively used or are essential for public use for a period of time. Examples of temporary buildings or facilities covered by these regulations include, but are not limited to: *reviewing stands, temporary classrooms, bleacher areas, exhibit areas, temporary banking facilities, temporary health screening services, or temporary safe pedestrian passageways around a construction site.* Structures, sites and equipment directly associated with the actual *processes of construction*, such as scaffolding, bridging, materials hoists, or construction trailers are not included.

(5) General Exceptions.

(a) In new construction, a person or entity is not required to meet fully the requirements of these regulations where that person or entity can demonstrate that it is **structurally impracticable** to do so. Full compliance will be considered structurally impracticable only in those rare circumstances when the unique characteristics of terrain prevent the incorporation of accessibility features. If full compliance with the requirements of these regulations is structurally impracticable, a person or entity shall comply with the requirements to the extent it is not structurally impracticable. Any portion of the building or facility which can be made accessible shall comply to the extent that it is not structurally impracticable.

(b) Accessibility is **not required** to:

(i) observation galleries used primarily for security purposes; or

(ii) in non-occupiable spaces accessed only by ladders, catwalks, crawl spaces, very narrow passageways, or freight (non-passenger) elevators, and frequented only by service personnel for repair purposes; such spaces include, but are not limited to, elevator pits, elevator penthouses, piping or equipment catwalks.

120-3-20-.04 GENERAL.

(1) **Provisions for Adults.** The specifications in these regulations are based upon adult dimensions and anthropometries.

(2) **Equivalent Facilitation.** Departures from particular technical and scoping requirements of this chapter by the use of other designs and technologies are permitted where the alternative designs and technologies used will provide substantially equivalent or greater access to and usability of the facility.

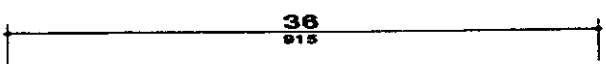
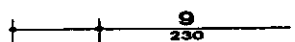




Note: Equivalent Facilitation. Specific examples of equivalent facilitation are found in the following sections:

120-3-20-.11(3)(c)	Elevators in Alterations
120-3-20-.42(9)	Text Telephones
120-3-49(2)	Sales and Service Counters, Teller Windows, Information counters
120-3-20-.51(1)d	Classes of Sleeping Accommodations
120-3-20-.51(2)(6)(d)	Requirements for Accessible Units, Sleeping Rooms, and Suites

(3) **Designing for Children.** The specifications in this standard are based upon adult dimensions and anthropometrics. If buildings, facilities, or portions thereof serve children primarily, they shall comply with provisions of 120-3-20-.53.

120-3-20-.05 Miscellaneous Instructions. (a) **Graphic Conventions.** Graphic conventions are shown in Table 1. Dimensions that are not marked minimum or maximum are absolute, unless otherwise indicated in the text or captions.

Table 1
Graphic Conventions

Convention	Description
	Typical dimension line showing U.S. customary units (in inches) above the line and SI units (in millimeters) below
	Dimensions for short distances indicated on extended line
	Dimension line showing alternate dimensions required
	Direction of approach
max	Maximum
min	Minimum
	Boundary of clear floor area
	Centerline

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(b) **Dimensional Tolerances.** All dimensions are subject to conventional building industry tolerances for field conditions.

(c) **Notes.** The text of these regulations contains additional information, and explanations. Rules, paragraphs, and subparagraphs marked with a "Note:" This additional information shall have the same effect as the specific requirements and shall be considered to be additional to the minimum accessible requirement.

(d) **General Terminology.**

<u>comply with</u>	Must meet one or more specifications.
<u>if, if ... then</u>	Denotes a specification that applies only when the conditions described are present.
<u>may</u>	Denotes an option or alternative.
<u>shall</u>	Denotes a mandatory specification or requirement.
<u>should</u>	Denotes an advisory specification or recommendation.

120-3-20-.06 Definitions.

Unless a different meaning is required by the context, the following terms as used in these rules and regulations shall have the meaning hereinafter respectively ascribed to them. Where terms are not defined, they shall have their ordinarily accepted meaning or such as context applies unless defined in O.C.G.A. Title 30 Chapter 3. Words used in the present tense included the future; Words used in the masculine gender includes the feminine and neuter; the singular includes the plural and the plural the singular.

(a) **Above Finished Floor (A.F.F.)** means the distance above the finish floor surface.

(b) **Access Aisle.** An accessible pedestrian space between elements, such as parking spaces, seating, and desks, that provides clearances appropriate for use of the elements.

(c) **Accessible.** Describes a site, building, facility, or portion thereof that complies with these regulations.

(d) **Accessible Element.** An element specified by these regulations (i.e., telephone, controls).

(e) **Accessible Route.** A continuous unobstructed path connecting all accessible elements and spaces of a building or facility. Interior accessible routes may include corridors, floors, ramps, elevators, lifts, and clear floor space at fixtures. Exterior accessible routes may include parking access aisles, curb ramps, crosswalks at vehicular ways, walks, ramps, and lifts.

(f) **Accessible Space.** Space that complies with these regulations.

(g) **Adaptability.** The ability of certain building spaces and elements, such as kitchen counters, sinks, and grab bars, to be added or altered so as to accommodate the needs of individuals with or without disabilities or to accommodate the needs of persons with different types or degrees of disability.

(h) **Addition.** An expansion, extension, or increase in the gross floor area of a building or facility.

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(i) Administrative Authority. A governmental agency that adopts or enforces regulations and regulations for the design, construction, or alteration of buildings and facilities.

(j) Alteration. An alteration is a change to a building or facility made by, on behalf of, or for the use of a public accommodation or commercial facility, that affects or could affect the usability of the building or facility or part thereof. Alterations include, but are not limited to, remodeling, renovation, rehabilitation, reconstruction, historic restoration, changes or rearrangement of the structural parts or elements, and changes or rearrangement in the plan configuration of walls and full-height partitions. Normal maintenance, re-roofing, painting or wallpapering, or changes to mechanical and electrical systems are not alterations unless they affect the usability of the building or facility.

(k) Area of Rescue Assistance. An area, which has direct access to an exit, where people who are unable to use stairs may remain temporarily in safety to await further instructions or assistance during emergency evacuation. The area of rescue assistance space shall be protected from fire or smoke, separated from all other spaces in the same building or an adjacent building that permits a delay in egress travel from any level.

(l) Assembly Area. A room or space accommodating a group of individuals for recreational, educational, political, social, or amusement purposes, or for the consumption of food and drink.

(m) Assistive. An electrical, hydraulic, or mechanical means of increasing power.

(n) Automatic Door. A door equipped with a power-operated mechanism and controls that open and close the door automatically upon receipt of a momentary actuating signal. The switch that begins the automatic cycle may be a photoelectric device, floor mat, or manual switch.

(o) Bollard. One of a series of short posts, used for excluding motor vehicles from pedestrian way.

(p) Building. Any structure used and intended for supporting or sheltering any use or occupancy.

(q) Circulation Path. An exterior or interior way of passage from one place to another for pedestrians, including, but not limited to, walks, hallways, courtyards, stairways, and stair landings.

(r) Clear. Unobstructed.

(s) Clear Floor Space. The minimum unobstructed floor or ground space required to accommodate a single, stationary wheelchair and occupant.

(t) Closed Circuit Telephone. A telephone with dedicated line(s) such as a house phone, courtesy phone or phone that must be used to gain entrance to a facility.

(u) Commissioner means the Safety Fire Commissioner provided for in Chapter 2 of Title 25.

(v) Common Use. Refers to those interior and exterior rooms, spaces, or elements that are made available

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for the use of a restricted group of people (for example, occupants of a homeless shelter, the occupants of an office building, or the guests of such occupants).

(w) Covered Multi Family Dwelling means a building which had occupancy after March 31, 1993, and consists of four or more units and has an elevator or the ground floor units of a building which consists of four or more units and does not have an elevator.

(x) Cross Slope. The slope that is perpendicular to the direction of travel (see running slope).

(y) Curb Ramp. A short ramp cutting through a curb or built up to it.

(z) Detectable Warning. A standardized surface feature built in or applied to walking surfaces or other elements to warn visually impaired people of hazards on a circulation path.

(aa) Dwelling Unit. A single unit which provides a kitchen or food preparation area, in addition to rooms and spaces for living, bathing, sleeping, and the like. Dwelling units include a single family home or a town house used as a transient group home; an apartment building used as a shelter; guest rooms in a hotel that provide sleeping accommodations and food preparation areas; and other similar facilities used on a transient basis. For purposes of these regulations, use of the term "Dwelling Unit" does not imply the unit is used as a residence.

(bb) Egress, Means of. A continuous and unobstructed way of exit travel from any point in a building or facility to a public way. A means of egress comprises vertical and horizontal travel and may include intervening room spaces, doorways, hallways, corridors, passageways, balconies, ramps, stairs, enclosures, lobbies, horizontal exits, courts and yards. An accessible means of egress is one that complies with these regulations and does not include stairs, steps, or escalators. Area of rescue assistance or evacuation elevators may be included as part of accessible means of egress.

(cc) Entrance. Any access point to a building or portion of a building or facility used for the purpose of entering. An entrance includes the approach walk, the vertical access leading to the entrance platform, the entrance platform itself, vestibules if provided, the entry door(s) or gate(s), and the hardware of the entry door(s) or gate(s).

(dd) Essential Features. Those elements and spaces that make a building or facility usable by, or serve the needs of, its occupants or users. Essential features include but are not limited to entrances, toilet rooms, and accessible routes.

(ee) Facilities shall include, but is not limited to, all or any portion of buildings, structures, site improvements, complexes, equipment, roads, walks, walkways, passageways, sidewalks, curbing, parking lots, parks, stadiums, coliseums, and any other man made or developed area used by the public or other real or personal property located on a site.

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(ff) Government Buildings means all buildings, structures, streets, sidewalks, walkways, and access thereto, which are used by the public or in which persons with disabilities or elderly persons may be employed, that are constructed, leased, or renovated in whole or in part by use of state, county, or municipal funds or the funds of any political subdivisions of the state, and, to the extent not required otherwise by federal law or regulations and not beyond the power of the state to regulate, all buildings and structures used by the public which are constructed or renovated in whole or in part by use of federal funds.

(gg) Ground Floor. Any occupiable floor less than one story above or below grade with direct access to grade. A building or facility always has at least one ground floor and may have more than one ground floor as where a split level entrance has been provided or where a building is built into a hillside.

(hh) Infeasible means where structural conditions in an existing building or facility make it virtually impossible to meet the accessibility requirements for alterations, those accessibility requirements will be deemed "technically infeasible." For example, the removal or altering of a load-bearing member in order to provide accessibility would be infeasible.

(ii) Mezzanine or Mezzanine Floor. That portion of a story which is an intermediate floor level placed within the story and having occupiable space above and below its floor.

(jj) Marked Crossing. A crosswalk or other identified path intended for pedestrian use in crossing a vehicular way.

(kk) Multifamily Dwelling. Any building containing more than two dwelling units.

(ll) Occupiable. A room or enclosed space designed for human occupancy in which individuals congregate for amusement, educational or similar purposes, or in which occupants are engaged at labor, and which is equipped with means of egress, light, and ventilation.

(mm) Operable Part. A part of a piece of equipment or appliance used to insert or withdraw objects, or to activate, deactivate, or adjust the equipment or appliance (for example, coin slot, push button, handle).

(oo) Path of Travel. Is a continuous, unobstructed route by which the primary function area can be approached, entered, and exited, and which connects the area with the entrance to the facility and other parts of the facility.

(pp) Power-assisted Door. A door used for human passage with a mechanism that helps to open the door, or relieves the opening resistance of a door, upon the activation of a switch or a continued force applied to the door itself.

(qq) Public Buildings means all buildings, structures, streets, sidewalks, walkways, and access thereto, which are used by the public or in which persons with disabilities or elderly persons may be employed, that are constructed or renovated by the use of private funds, including rental apartment complexes of twenty or more units or more and temporary lodging facilities of 20 units or more, but excluding covered multifamily

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dwellings; provided, however, that this chapter shall require fully accessible adaptable units in only 2 percent of the total rental apartments, or a minimum of one, whichever is greater, and this chapter shall apply to only 5 percent of the total temporary lodging units, or a minimum of one, whichever is greater; provided, further that this chapter shall not apply to a private single-family residence or to duplexes or any complex containing less than 20 units, or residential condominiums. Fifty percent of the fully accessible or adaptable rental apartment units required by this paragraph shall be adaptable for a roll in shower stall.

(rr) Public Use. Describes interior or exterior rooms or spaces that are made available to the general public. Public use may be provided at a building or facility that is privately or publicly owned.

(ss) Ramp. A walking surface which has a running slope greater than 1:20.

(tt) Reasonable Number for all government buildings, public buildings, and facilities receiving permits for construction or renovation after **July 1, 1995**, as used in Code Section 30-3-4, shall meet the number as established by ADAAG.

(uu) Renovation means:

- (a) if any specific component of an elevator is replaced or moved from its existing location to a different location, then the specific component shall be required to meet the ANSI A117.1 standard, as specified in this Code Section, as it applies to that specific component, including an accessible route as defined in the ANSI A117.1 Standard;
- (b) Any component of a building, structure, or facility, which is replaced, except for the purpose of repair, or moved, shall be required to meet the ANSI A117.1 Standard as specified in this Code Section, including an accessible route as defined in the ANSI A117.1 Standard; or
- (c) The resurfacing, rest ripping, or repainting of any parking facility, whether or not such resurfacing, rest ripping, repainting is required to have a permit from the appropriate political subdivision.

(vv) Running Slope. The slope that is parallel to the direction of travel (see cross slope).

(rr) Service Entrance. An entrance intended primarily for delivery of goods or services.

(ss) Signage. Displayed verbal, symbolic, tactile, and pictorial information.

(tt) Site. A parcel of land bounded by a property line or a designated portion of a public right-of-way.

(uu) Site Improvement. Landscaping, paving for pedestrian and vehicular ways, outdoor lighting, recreational facilities, and the like, added to a site.

(vv) Sleeping Accommodations. Rooms in which people sleep; for example, dormitory and hotel or motel guest rooms or suites.

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(ww) Space. A definable area, e.g., room, toilet room, hall, assembly area, entrance, storage room, alcove, courtyard, or lobby.

(xx) Story. That portion of a building included between the upper surface of a floor and upper surface of the floor or roof next above. If such portion of a building does not include occupiable space, it is not considered a story for purposes of these regulations. There may be more than one floor level within a story as in the case of a mezzanine or mezzanines.

(yy) Structural Frame. The structural frame shall be considered to be the columns and the girders, beams, trusses and spandrels having direct connections to the columns and all other members which are essential to the stability of the building as a whole.

(zz) Structural impracticability means only in those rare circumstances when the unique characteristics of terrain prevent the incorporation of accessibility features. Changes having little likelihood of being accomplished without removing or altering a load-bearing structural member and/or incurring an increase cost of 50 percent or more of the value of the element of the building or facility involved.

(aaa) Tactile. Describes an object that can be perceived using the sense of touch.

(bbb) Tactile Warning. A standardized surface texture applied to or built into walking surfaces or other elements to warn visually impaired people of hazards in the path of travel.

(ccc) Technically Infeasible. Means, with respect to an alteration of a building or facility, that it has little likelihood of being accomplished because of existing structural conditions would require removing or altering a load bearing member which is an essential part of the structural frame; or because other existing physical or site constraints prohibit modification or addition of elements, spaces, or features which are in full and strict compliance with the minimum requirements for new construction and which are necessary to provide accessibility.

(ddd) Text Telephone. Machinery or equipment that employs interactive graphic (i.e., typed) communications through the transmission of coded signals across the standard telephone network. Text telephones can include, for example, devices known as TDD's (telecommunication display devices or telecommunication devices for deaf persons) or computers.

(eee) Transient Lodging. A building, facility, or portion thereof, excluding inpatient medical care facilities, that contains one or more dwelling units or sleeping accommodations. Transient lodging may include, but is not limited to, resorts, group homes, hotels, motels, and dormitories.

(fff) Vehicular Way. A route intended for vehicular traffic, such as a street, driveway, or parking lot.

(ggg) Walk. An exterior pathway with a prepared surface intended for pedestrian use, including general pedestrian areas such as plazas and courts.

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120-3-20-.07 Accessible Sites and Exterior Facilities: New Construction. An accessible site shall meet the following minimum requirements:

- (a) At least one accessible route complying with Rule 120-3-20-.14 shall be provided within the boundary of the site from public transportation stops, accessible parking spaces, passenger loading zones if provided, and public streets or sidewalks, to an accessible building entrance.
- (b) At least one accessible route complying with rule 120-3-20-.14 shall connect accessible buildings, accessible facilities, accessible elements, and accessible spaces that are on the same site.
- (c) All objects that protrude from surfaces or posts into circulation paths shall comply with rule 120-3-20-.15
- (d) Ground surfaces along accessible routes and in accessible spaces shall comply with rule 120-3-20-.16.
- (e) 1. If parking spaces are provided for self-parking by employees or visitors, or both, then accessible spaces complying with rule 120-3-20-.17 shall be provided in each such parking area in conformance with the table below. Spaces required by the table need not be provided in the particular lot. They may be provided in a different location if equivalent or greater accessibility, in terms of distance from an accessible entrance, cost and convenience is ensured.

Total Parking Spaces in Lot	Required Minimum Number of Accessible 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 over 1000

Except as provided in (b), access aisles adjacent to accessible spaces shall be 60 inches (1525 mm) wide minimum.

2. One in every eight accessible spaces, but not less than one, shall be served by an access aisle 96 inches (2440 mm) wide minimum and shall be designated "van accessible" as required by rule 120-3-20-.17(4). The vertical clearance at such spaces shall comply with rule 120-3-20-.17(5). All such spaces may be grouped on one level of a parking structure.

EXCEPTION: Provision of all required parking spaces in conformance with "Universal Parking Design" (fig. A5)

3. If passenger loading zones are provided, then at least one passenger loading zone shall comply with rule 120-3-20-.17(6).

4. At facilities providing medical care and facilities providing other services for persons with mobility

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impairments, parking spaces complying with rule 120-3-20-.17 shall be provided in accordance with rule 120-3-20-.07(5)(a) except as follows:

Exception 1: Outpatient units and facilities: 10 percent of the total number of parking spaces provided serving each such outpatient unit or facility;

Exception 2: Units and facilities that specialize in treatment or services for persons with mobility impairments: 20 percent of the total number of parking spaces provided serving each such unit or facility.

5. Valet parking: Valet parking facilities shall provide a passenger loading zone complying with rule 120-3-20-.17(6) located on an accessible route to the entrance of the facility. Paragraphs 5(a), 5(b), and 5(d) of this section do not apply to valet parking facilities.

Notes: **Valet parking** is not always usable by individuals with disabilities. For instance, an individual may use a type of vehicle controls that render the regular controls inoperable or the driver's seat in a van may be removed. In these situations, another person cannot park the vehicle. It is recommended that some self-parking spaces be provided at valet parking facilities for individuals whose vehicles cannot be parked by another person and that such spaces be located on an accessible route to the entrance of the facility.

6. If toilet facilities are provided on a site, then each such public or common use toilet facility shall comply with 120-3-20-.33. If bathing facilities are provided on a site, then each such public or common use bathing facility shall comply with 120-3-20-.34. For single user portable toilet or bathing units clustered at a single location, at least 5% but no less than one toilet unit or bathing unit complying with 120-3-20-.33 or 120-3-20-.34 shall be installed at each cluster whenever typical inaccessible units are provided. Accessible units shall be identified by the International Symbol of Accessibility.

***EXCEPTION:** Portable toilet units at construction sites used exclusively by construction personnel are not required to comply with 120-3-20-.07(6).*

7. Building Signage. Signs which designate permanent rooms and spaces shall comply with rules 120-3-20-.41(1), 120-3-20-.41(4), 120-3-20-.41(5) and 120-3-20-.41(6). Other signs which provide direction to, or information about, functional spaces of the building shall comply with rules 120-3-20-.41(1), 120-3-20-.41(2), 120-3-20-.41(3), and 120-3-20-.41(5). Elements and spaces of accessible facilities which shall be identified by the **International Symbol of Accessibility** and which shall comply with rule 120-3-20-.41(7) are:

(i) Parking spaces designated as reserved for individuals with disabilities;

(ii) Accessible passenger loading zones;

(iii) Accessible entrances when not all are accessible (inaccessible entrances shall have directional signage to indicate the route to the nearest accessible entrance);

(iiii) Accessible toilet and bathing facilities when not all are accessible.

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120-3-20-.08 Accessible Buildings: New Construction. Accessible buildings and facilities shall meet the following minimum requirements:

- (1) At least one accessible route complying with rule 120-3-20-.14 shall connect accessible building or facility entrances with all accessible spaces and elements within the building or facility.
- (2) All objects that overhang or protrude into circulation paths shall comply with rule 120-3-20-.15.
- (3) Ground and floor surfaces along accessible routes and in accessible rooms and spaces shall comply with rule 120-3-20-.16.
- (4) Interior and exterior stairs connecting levels that are not connected by an elevator, ramp, or other accessible means of vertical access shall comply with rule 120-3-20-.20.
- (5) One passenger elevator complying with rule 120-3-20-.21 shall serve each level, including mezzanines, in all multi-story buildings and facilities unless exempted below. If more than one elevator is provided, each full passenger elevator shall comply with rule 120-3-20-.21.

EXCEPTION 1: Elevators are not required in facilities that are less than three stories or that have less than 3000 square feet per story unless the building is a shopping center, a shopping mall, or the professional office of a health care provider, or another type of facility as determined by the U.S. Attorney General. The elevator exemption set forth in this paragraph does not obviate or limit in any way the obligation to comply with the other accessibility requirements established in rule 120-3-20-.08. For example, floors above or below the accessible ground floor must meet the requirements of this section except for elevator service. If toilet or bathing facilities are provided on a level not served by an elevator, then toilet or bathing facilities must be provided on the accessible ground floor. In new construction if a building or facility is eligible for this exemption but a full passenger elevator is nonetheless planned, that elevator shall meet the requirements of rule 120-3-20-.21 and shall serve each level in the building. A full passenger elevator that provides service from a garage to only one level of a building or facility is not required to serve other levels.

EXCEPTION 2: Elevator pits, elevator penthouses, mechanical rooms, piping or equipment catwalks are exempted from this requirement.

EXCEPTION 3: Accessible ramps complying with rule 120-3-20-.19 may be used in lieu of an elevator.

EXCEPTION 4: Platform lifts (wheelchair lifts) complying with rule 120-3-20-.22 of this regulation and applicable state or local codes may be used in lieu of an elevator only under the following conditions:

- (a) To provide an accessible route to a performing area in an assembly occupancy.
- (b) To comply with the wheelchair viewing position line-of-sight and dispersion requirements of rule 120-3-20-.44(3).
- (c) To provide access to incidental occupiable spaces and rooms which are not open to the general public and which house no more than five persons, including but not limited to equipment control rooms and projection booths.

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(d) To provide access where existing site constraints or other constraints make use of a ramp or an elevator infeasible.

Note: Only full passenger elevators are covered by the accessibility provisions of rule 120-3-20-.21. Materials and equipment hoists, freight elevators not intended for passenger use, dumbwaiters, and construction elevators are not covered by these rules. If a building is exempt from the elevator requirement, it is not necessary to provide a platform lift or other means of vertical access in lieu of an elevator.

Under **Exception 4**, platform lifts are allowed where **existing conditions** make it impractical to install a ramp or elevator. Such conditions generally occur where it is essential to provide access to small raised or lowered areas where space may not be available for a ramp. Examples include, but are not limited to, raised pharmacy platforms, commercial offices raised above a sales floor, or radio and news booths.

(6) Windows: (Reserved).

(7) Doors:

(a) At each accessible entrance to a building or facility, at least one door shall comply with rule 120-3-20-.24.

(b) Within a building or facility, at least one door at each accessible space shall comply with rule 120-3-20-.24.

(c) Each door that is an element of an accessible route shall comply with rule 120-3-20-.24.

(d) Each door required by rule 120-3-20-.14(10), Egress, shall comply with 1 rule 20-3-20-.24.

(8) In new construction, at a minimum, the requirements in (a) and (b) below shall be satisfied independently:

(a) 1. All primary entrances (excluding those in (b) below) must be accessible. At least one must be a ground floor entrance. Public entrances are any entrances that are not loading or service entrances.

2. Accessible entrances must be provided in a number at least equivalent to the number of exits required by the applicable building/fire codes. (This paragraph does not require an increase in the total number of entrances planned for a facility.)

3. An accessible entrance must be provided to each tenancy in a facility (for example, individual stores in a strip shopping center). One entrance may be considered as meeting more than one of the requirements in (a). Where feasible, accessible entrances shall be the entrances used by the majority of people visiting or working in the building.

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- (b) 1. In addition, if direct access is provided for pedestrians from an enclosed parking garage to the building, at least one direct entrance from the garage to the building must be accessible.

2. If access is provided for pedestrians from a pedestrian tunnel or elevated walkway, one entrance to the building from each tunnel or walkway must be accessible. One entrance may be considered as meeting more than one of the requirements in (b). Because entrances also serve as emergency exits whose proximity to all parts of buildings and facilities is essential, it is preferable that all entrances be accessible.
- (c) If the only entrance to a building, or tenancy in a facility, is a service entrance, that entrance shall be accessible.
- (d) Entrances which are not accessible shall have directional signage complying with rules 120-3-20-.41(1), 120-3-20-.41(2), 120-3-20-.41(3), and 120-3-20-.41(5), which indicates the location of the nearest accessible entrance.

(9) In buildings or facilities, or portions of buildings or facilities, required to be accessible, accessible **means of egress** shall be provided in the **same number as required for exits by local building/life safety regulations**. Where a required exit from an occupiable level above or below a level of accessible exit discharge is not accessible, an area of rescue assistance shall be provided on each such level (in a number equal to that of inaccessible required exits). Areas of rescue assistance shall comply with rule 120-3-20-.14(11). A horizontal exit, meeting the requirements of local building/life safety regulations, shall satisfy the requirement for an area of rescue assistance.

EXCEPTION: Areas of rescue assistance are not required in buildings or facilities having a supervised automatic sprinkler system.

Note: Supervised automatic sprinkler systems have built in signals for monitoring features of the system such as the opening and closing of water control valves, the power supplies for needed pumps, water tank levels, and for indicating conditions that will impair the satisfactory operation of the sprinkler system. Because of these monitoring features, supervised automatic sprinkler systems have a high level of satisfactory performance and response to fire conditions.

(10) Drinking Fountains:

- (a) Where only one drinking fountain is provided on a floor there shall be a drinking fountain which is accessible to individuals who use wheelchairs in accordance with rule 120-3-20-.26 and one accessible to those who have difficulty bending or stooping. (This can be accommodated by the use of a "hi-lo" fountain; by providing one fountain accessible to those who use wheelchairs and one

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fountain at a standard height convenient for those who have difficulty bending; by providing a fountain accessible under rule 120-3-20-.26 and a water cooler; or by such other means as would achieve the required accessibility for each group on each floor.)

- (b) Where more than one drinking fountain or water cooler is provided on a floor, 50% of those provided shall comply with rule 120-3-20-.26 and shall be on an accessible route.

Notes: If an odd number of drinking fountains is provided on a floor, the requirement in rule 120-3-20-.08(10)(b) may be met by rounding down the odd number to an even number and calculating 50% of the even number. When more than one drinking fountain on a floor is required to comply with rule 120-3-20-.26, those fountains should be dispersed to allow wheelchair users convenient access. For example, in a large facility such as a convention center that has water fountains at several locations on a floor, the accessible water fountains should be located so that wheelchair users do not have to travel a greater distance than other people to use a drinking fountain.

(11) Toilet Facilities: If toilet rooms are provided, then each public and common use toilet room shall comply with rule 120-3-20-.33. Other toilet rooms provided for the use of occupants of specific spaces (i.e., a private toilet room for the occupant of a private office) shall be adaptable. If bathing rooms are provided, then each public and common use bathroom shall comply with rule 120-3-20-.34. Accessible toilet rooms and bathing facilities shall be on an accessible route.

(12) Storage, Shelving and Display Units:

- (a) If fixed or built-in storage facilities such as cabinets, shelves, closets, and drawers are provided in accessible spaces, at least one of each type provided shall contain storage space complying with rule 120-3-20-.36. Additional storage may be provided outside of the dimensions required by rule 120-3-20-.36.
- (b) Shelves or display units allowing self-service by customers in mercantile occupancies shall be located on an accessible route complying with rule 120-3-20-.14. Requirements for accessible reach range do not apply.

(13) Controls and operating mechanisms in accessible spaces, along accessible routes, or as parts of accessible elements (for example, light switches and dispenser controls) shall comply with rule 120-3-20-.38.

(14) If emergency warning systems are provided, then they shall include both audible alarms and visual alarms complying with rule 120-3-20-.39. Sleeping accommodations required to comply with rule 120-3-20-.51(3) shall have an alarm system complying with rule 120-3-20-.39. Emergency warning systems in medical care facilities may be modified to suit standard health care alarm design practice.

(15) Detectable warnings shall be provided at locations as specified in rule 120-3-20-.40.

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(16) Building Signage:

- (a) Signs which designate permanent rooms and spaces shall comply with rules 120-3-20-.41(1), 120-3-20-.41(4), 120-3-20-.41(5) and 120-3-20-.41(6).
- (b) Other signs which provide direction to or information about functional spaces of the building shall comply with rules 120-3-20-.41(1), 120-3-20-.41(2), 120-3-20-.41(3), and 120-3-20-.41(5).

EXCEPTION: Transitory building directories, menus, and all other signs which are temporary in nature are not required to comply.

(17) Public telephones:

- (a) If public pay telephones, public closed circuit telephones, or other public telephones are provided, then they shall comply with rules 120-3-20-.42(2) through 120-3-20-.42(8) to the extent required by the following table:

Number of each type of telephone provided on each floor	Number of telephones required to comply with rules 120-3-20-.42.2 through 120-3-20-.42.8 ¹
1 or more single unit	1 per floor
1 bank ²	1 per floor
2 or more banks ²	1 per bank. Accessible unit may be installed as a single unit in proximity (either visible or with signage) to the bank. At least one public telephone per floor shall meet the requirements for a forward reach telephone ³ .

¹ Additional public telephones may be installed at any height. Unless otherwise specified, accessible telephones may be either forward or side reach telephones.

² A bank consists of two or more adjacent public telephones, often installed as a unit.

³ **EXCEPTION:** For exterior installations only, if dial tone first service is available, then a side reach telephone may be installed instead of the required forward reach telephone (i.e., one telephone in proximity to each bank shall comply with rule 120-3-20-.42).

- (b) All telephones required to be accessible and complying with rules 120-3-20-.42(2) through 120-3-20-.42(8) shall be equipped with a volume control. In addition, 25 percent, but never less than one, of all other public telephones provided shall be equipped with a volume control and shall be dispersed among all types of public telephones, including closed circuit telephones, throughout the building or facility. Signage complying with applicable provisions of rule 120-3-20-.41(7) shall be provided.

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- (c) The following shall be provided in accordance with rule 120-3-20-.42(9):
1. if a total number of four or more public pay telephones (including both interior and exterior phones) is provided at a site, and at least one is in an interior location, then at least one interior public text telephone shall be provided.
 2. if an interior public pay telephone is provided in a stadium or arena, in a convention center, in a hotel with a convention center, or in a covered mall, at least one interior public text telephone shall be provided in the facility.
 3. if a public pay telephone is located in or adjacent to a hospital emergency room, hospital recovery room, or hospital waiting room, one public text telephone shall be provided at each such location.
- (d) 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 in each such bank shall be equipped with a shelf and outlet in compliance with rule 120-3-20-.42(9)(b).

Notes: In addition to the requirements of rule 120-3-20-.08(17)(b), the installation of additional **volume controls** is required. Volume controls can be installed on any telephone.

(18) If fixed or built-in seating or tables (including, but not limited to, study carrels and student laboratory stations), are provided in accessible public or common use areas, at least five percent (5%), but not less than one, of the fixed or built-in seating areas or tables shall comply with rule 120-3-20-.43. An accessible route shall lead to and through such fixed or built-in seating areas, or tables.

(19)* Assembly areas:

(a) In places of assembly with fixed seating, accessible wheelchair locations shall comply with rules 120-3-20-.44(2), 120-3-20-.44(3), and 120-3-20-.44(4) and shall be provided consistent with the following table:

Capacity of Seating in Assembly Areas	Number of Required Wheelchair Locations
4 to 25	1
26 to 50	2
51 to 300	4
301 to 500	6
over 500	6, plus 1 additional space for each total seating capacity increase of 100

In addition, one percent, but not less than one, of all fixed seats shall be aisle seats with no armrests on the aisle side, or removable or folding armrests on the aisle side. Each such seat shall be identified by a sign or marker. Signage notifying patrons of the availability of such seats shall be posted at the ticket office. Aisle seats are not required to comply with rule 120-3-20-.44(4).

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Note: Readily removable or folding seating units may be installed in lieu of providing an open space for wheelchair users. Folding seating units are usually two fixed seats that can be easily folded into a fixed center bar to allow for one or two open spaces for wheelchair users when necessary. These units are more easily adapted than removable seats which generally require the seat to be removed in advance by the facility management. Either a sign or a marker placed on seating with removable or folding arm rests is required by this section. Consideration should be given for ensuring identification of such seats in a darkened theater. For example, a marker which contrasts (light on dark or dark on light) and which also reflects light could be placed on the side of such seating so as to be visible in a lighted auditorium and also to reflect light from a flashlight.

(b) This paragraph applies to assembly areas where **audible communications are integral** to the use of the space (e.g., concert and lecture halls, playhouses and movie theaters, meeting rooms, etc.). Such assembly areas, if (1) they accommodate at least 50 persons, or if they have audio - amplification systems, and (2) they have fixed seating, shall have a permanently installed Assistive listening system complying with rule 120-3-20-.34. For other assembly areas, a permanently installed assistive listening system, or an adequate number of electrical outlets or other supplementary wiring necessary to support a portable assistive listening system shall be provided. *The minimum number of receivers to be provided shall be equal to 4 percent of the total number of seats, but in no case less than two.* Signage complying with applicable provisions of rule 120-3-20-.41 shall be installed to notify patrons of the availability of a listening system.

(20) Where automated teller machines (ATMs) are provided, each ATM shall comply with the requirements of rule 120-3-20-.45 except where two or more are provided at a location, then only one must comply.

EXCEPTION: *Drive-up-only automated teller machines are not required to comply with rules 120-3-20-.38(2), 120-3-20-.38(3) and 120-3-20-.45(3).*

(21) Where dressing and fitting rooms are provided for use by the **general public, patients, customers or employees, 5%**, but never less than one, of dressing rooms for each type of use in each cluster of dressing rooms shall be accessible and shall comply with rule 120-3-20-.46.

Examples of types of dressing rooms are those serving different sexes or distinct and different functions as in different treatment or examination facilities.

120-3-20-.09 (Reserved).

120-3-20-.10 Accessible Buildings: Additions. Each addition to an existing building or facility shall be regarded as an alteration. Each space or element added to the existing building or facility shall comply with the applicable provisions of rule 120-3-20-.07 to 120-3-20-.08, Minimum Requirements (for New Construction) and the applicable technical specifications of rules 120-3-20-.13 through 120-3-20-.46 and 120-3-20-.47 through 120-3-20-.53. Each addition that affects or could affect the usability of an area containing a primary function shall comply with rule 120-3-20-.011.

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120-3-20-.11 Accessible Buildings: Alterations.

(1) General. Alterations to existing buildings and facilities shall comply with the following:

(a) No alteration shall be undertaken which decreases or has the effect of decreasing accessibility or usability of a building or facility below the requirements for new construction at the time of alteration.

(b) If existing elements, spaces, or common areas are altered, then each such altered element, space, feature, or area shall comply with the applicable provisions of rules 120-3-20-.03 to 120-3-20-.08 **Minimum Requirements (for New Construction)**. If the applicable provision for new construction requires that an element, space, or common area be on an accessible route, the altered element, space, or common area is not required to be on an accessible route except as provided in rule 120-3-20-.011 (2) (Alterations to an Area Containing a Primary Function.)

(c) If alterations of single elements, when considered together, amount to an alteration of a room or space in a building or facility, the entire space shall be made accessible.

(d) No alteration of an existing element, space, or area of a building or facility shall impose a requirement for greater accessibility than that which would be required for new construction. For example, if the elevators and stairs in a building are being altered and the elevators are, in turn, being made accessible, then no accessibility modifications are required to the stairs connecting levels connected by the elevator. If stair modifications to correct unsafe conditions are required by other codes, the modifications shall be done in compliance with these regulations unless technically infeasible.

(e) At least one interior public text telephone complying with rule 120-3-20-.42 shall be provided if:

(i) alterations to existing buildings or facilities with less than four exterior or interior public pay telephones would increase the total number to four or more telephones with at least one in an interior location; or

(ii) Alterations to one or more exterior or interior public pay telephones occur in an existing building or facility with four or more public telephones with at least one in an interior location.

(f) If an escalator or stair is planned or installed where none existed previously and major structural modifications are necessary for such installation, then a means of accessible vertical access shall be provided that complies with the applicable provisions of rules 120-3-20-.19, 120-3-20-.20, 120-3-20-.10, or 120-3-20-.11.

(g) In alterations, the requirements of rules 120-3-20-.08 (9), 120-3-20-.14(10) and 120-3-20-.14(11) do not apply.

(h) Entrances: If a planned alteration entails alterations to an entrance, and the building has an accessible entrance, the entrance being altered is not required to comply with 120-3-20-.08(8), except to the extent required by rule 120-3-20-.11(2). If a particular entrance is not made accessible, appropriate accessible signage indicating the location of the nearest accessible entrance(s) shall be installed at or near the inaccessible entrance, such that a person with disabilities will not be required to retrace the approach route from the inaccessible entrance.

Note: When an entrance is being altered, it is required that those entrances being altered be made accessible to the extent feasible.

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(i) If the alteration work is limited solely to the electrical, mechanical, or plumbing system, or to hazardous material abatement, or automatic sprinkler retro-fitting, and does not involve the alteration of any elements or spaces required to be accessible under these regulations, then rule 120-3-20-.11(2) does not apply.

(j) **EXCEPTION:** In alteration work, if compliance with rule 120-3-20-.11 is technically infeasible, the alteration shall provide accessibility to the maximum extent feasible. Any elements or features of the building or facility that are being altered and can be made accessible shall be made accessible within the scope of the alteration.

(k) EXCEPTION:

(i) These Regulations do not require the installation of an elevator in an altered facility that is less than three stories or has less than 3,000 square feet per story unless the building is a shopping center, a shopping mall, the professional office of a health care provider, or another type of facility as determined by the U.S. Attorney General.

(ii) This exemption does not obviate or limit in any way the obligation to comply with the other accessibility requirements established in these regulations. For example, alterations to floors above or below the ground floor must be accessible regardless of whether the altered facility has an elevator. If a facility subject to the elevator exemption set forth in paragraph (1) nonetheless has a full passenger elevator, that elevator shall meet, to the maximum extent feasible, the accessibility requirements of these rules.

(2) **Alterations to an Area Containing a Primary Function:** In addition to the requirements of rule 120-3-20-.11(1), an alteration that affects or could affect the usability of or access to an area containing a primary function shall be made so as to ensure that, to the maximum extent feasible, the path of travel to the altered area and the rest rooms, telephones, and drinking fountains serving the altered area, are readily accessible to and usable by individuals with disabilities, unless such alterations are disproportionate to the overall alterations in terms of cost and scope (as determined under criteria established by the U.S. Attorney general).

(3) Special Technical Provisions for Alterations to Existing Buildings and Facilities:

(a) **Ramps:** Curb ramps and interior or exterior ramps to be constructed on sites or in existing buildings or facilities where space limitations prohibit the use of a 1:12 slope or less may have slopes and rises as follows:

(i) A slope between 1:10 and 1:12 is allowed for a maximum rise of 6 inches.

(ii) A slope between 1:8 and 1:10 is allowed for a maximum rise of 3 inches. A slope steeper than 1:8 is not allowed.

(b) **Stairs:** Full extension of handrails at stairs shall not be required in alterations where such extensions would be hazardous or impossible due to plan configuration.

(c) Elevators:

(i) If safety door edges are provided in existing automatic elevators, automatic door reopening devices may be omitted (see rule 120-3-20-.21).

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- (ii) Where existing shaft configuration or technical in feasibility prohibits strict compliance with rule 120-3-20-.21(9), the minimum car plan dimensions may be reduced by the minimum amount necessary, but in no case shall the inside car area be smaller than 48 inches by 48 inches.
- (iii) Equivalent facilitation may be provided with an elevator car of different dimensions when usability can be demonstrated and when all other elements required to be accessible comply with the applicable provisions of rule 120-3-20-.21. For example, an elevator of 47 inches by 69 inches (1195 mm by 1755 mm) with a door opening on the narrow dimension, could accommodate the standard wheelchair clearances shown in Figure 4.

(d) Doors:

- (i) Where it is technically infeasible to comply with clear opening width requirements of rule 120-3-20-.24(5), a projection of 5/8 inch maximum will be permitted for the latch side stop.
- (ii) If existing thresholds are 3/4 inch high or less, and have (or are modified to have) a beveled edge on each side, they may remain.

(e) Toilet Rooms:

- (i) Where it is technically infeasible to comply with rules 120-3-20-.33 or 120-3-20-.34, the installation of at least one unisex toilet/bathroom per floor, located in the same area as existing toilet facilities, will be permitted in lieu of modifying existing toilet facilities to be accessible. Each unisex toilet room shall contain one water closet complying with rule 120-3-20-.27 and one lavatory complying with rule 120-3-20-.30, and the door shall have a privacy latch.
- (ii) Where it is technically infeasible to install a required standard stall (Fig. 30(a)), or where other codes prohibit reduction of the fixture count (i.e., removal of a water closet in order to create a double-wide stall), either alternate stall (Fig. 30(b)) may be provided in lieu of the standard stall.
- (iii) When existing toilet or bathing facilities are being altered and are not made accessible, signage complying with rules 120-3-20-.41(1), 120-3-20-.41(2), 120-3-20-.41(3), 120-3-20-.41(5) and 120-3-20-.41(7) shall be provided indicating the location of the nearest accessible toilet or bathing facility within the facility.

(f) Assembly Areas:

- (i) Where it is technically infeasible to disperse accessible seating throughout an altered assembly area, accessible seating areas may be clustered. Each accessible seating area shall have provisions for companion seating and shall be located on an accessible route that also serves as a means of emergency egress.
- (ii) Where it is technically infeasible to alter all performing areas to be on an accessible route, at least one of each type of performing area shall be made accessible.

(g) Platform Lifts (Wheelchair Lifts): In alterations, platform lifts (wheelchair lifts) complying with rule 120-3-20-.22 and applicable state or local codes may be used as part of an accessible route. The use of lifts is not limited to the four conditions in exception 4 of rule 120-3-20-.08(5).

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(h) **Dressing Rooms:** In alterations where technical in feasibility can be demonstrated, one dressing room for each sex on each level shall be made accessible. Where only unisex dressing rooms are provided, accessible unisex dressing rooms may be used to fulfill this requirement.

120-3-20-.12 Accessible Buildings: Historic Preservation.

(1) Applicability:

(a) **General Rule.** Alterations to a qualified historic building or facility shall comply with rule 120-3-20-.11 Accessible Buildings: Alterations, the applicable technical specifications of rules 120-3-20-.13 through 120-3-20-.46 and the applicable special application Rules 120-3-20-.47 through 120-3-20-.52 unless it is determined in accordance with the procedures in rule 120-3-20-.12(2) that compliance with the requirements for accessible routes (exterior and interior), ramps, entrances, or toilets would threaten or destroy the historic significance of the building or facility in which case the alternative requirements in rule 120-3-20-.12(3) may be used for the feature.

EXCEPTION: (Reserved).

(b) A qualified historic building or facility is a building or facility that is:

- (i) Listed in or eligible for listing in the National Register of Historic Places; or
- (ii) Designated as historic under an appropriate State or local law.

(2) Procedures:

(a) Alterations to Qualified Historic Buildings and Facilities Subject to Section 106 of the National Historic Preservation Act:

(i) **Section 106 Process.** Section 106 of the National Historic Preservation Act (16 U.S.C. 470 f) requires that a Federal agency with jurisdiction over a Federal, federally assisted, or federally licensed undertaking consider the effects of the agency's undertaking on buildings and facilities listed in or eligible for listing in the National Register of Historic Places and give the Advisory Council on Historic Preservation a reasonable opportunity to comment on the undertaking prior to approval of the undertaking.

(ii) **ADA Application.** Where alterations are undertaken to a qualified historic building or facility that is subject to section 106 of the National Historic Preservation Act, the Federal agency with jurisdiction over the undertaking shall follow the section 106 process. If the State Historic Preservation Officer or Advisory Council on Historic Preservation agrees that compliance with the requirements for accessible routes (exterior and interior), ramps, entrances, or toilets would threaten or destroy the historic significance of the building or facility, the alternative requirements in rule 120-3-20-.12(3) may be used for the feature.

(b) **Alterations to Qualified Historic Buildings and Facilities Not Subject to Section 106 of the National Historic Preservation Act.** Where alterations are undertaken to a qualified historic building or facility that is not subject to section 106 of the National Historic Preservation Act, if the entity undertaking the alterations believes that compliance with the requirements for accessible routes (exterior and interior), ramps, entrances, or toilets would threaten or destroy the historic

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significance of the building or facility and that the alternative requirements in rule 120-3-20-.12(3) should be used for the feature, the entity should consult with the State Historic Preservation Officer. If the State Historic Preservation Officer agrees that compliance with the accessibility requirements for accessible routes (exterior and interior), ramps, entrances or toilets would threaten or destroy the historical significance of the building or facility, the alternative requirements in rule 120-3-20-.12(3) may be used.

- (c) **Consultation With Interested Persons.** Interested persons should be invited to participate in the consultation process, including State or local accessibility officials, individuals with disabilities, and organizations representing individuals with disabilities.
- (d) **Certified Local Government Historic Preservation Programs.** Where the State Historic Preservation Officer has delegated the consultation responsibility for purposes of this section to a local government historic preservation program that has been certified in accordance with section 101(c) of the National Historic Preservation Act of 1966 (16 U.S.C. 470a (c)) and implementing regulations (36 CFR 61.5), the responsibility may be carried out by the appropriate local government body or official.

(3) Historic Preservation: Minimum Requirements:

- (a) At least one accessible route complying with 4.3 from a site access point to an accessible entrance shall be provided.

EXCEPTION: *A ramp with a slope no greater than 1:6 for a run not to exceed 2 ft (610 mm) may be used as part of an accessible route to an entrance.*

- (b) At least one accessible entrance complying with rule 120-3-20-.25 which is used by the public shall be provided.

EXCEPTION: *If it is determined that no entrance used by the public can comply with rule 120-3-20-.25, then access at any entrance not used by the general public but open (unlocked) with directional signage at the primary entrance may be used. The accessible entrance shall also have a notification system. Where security is a problem, remote monitoring may be used.*

- (c) If toilets are provided, then at least one toilet facility complying with rule 120-3-20-.33 and rule 120-3-20-.11 shall be provided along an accessible route that complies with rule 120-3-20-.14. Such toilet facility may be unisex in design.
- (d) Accessible routes from an accessible entrance to all publicly used spaces on at least the level of the accessible entrance shall be provided. Access shall be provided to all levels of a building or facility in compliance with rule 120-3-20-.03 whenever practical.
- (e) Displays and written information, documents, etc., should be located where they can be seen by a seated person. Exhibits and signage displayed horizontally (e.g., open books), should be no higher than 44 inches (1120 mm) above the floor surface.

120-3-20-.13 Space Allowance and reach Ranges.

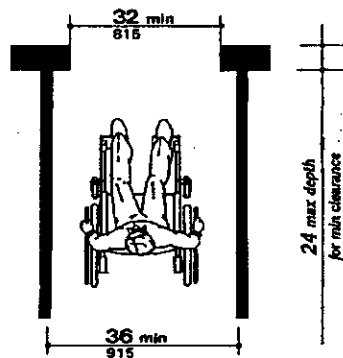


Fig. 1
Minimum Clear Width
for Single Wheelchair

(1) Wheelchair Passage Width.

The minimum clear width for single wheelchair passage shall be 32 inches (815 mm) at a point and 36 inches (915 mm) continuously (see Fig. 1 and 24 (e)).

Note: Space Requirements for Wheelchairs. Many persons who use wheelchairs need a 30 inches (760 mm) clear opening width for doorways, gates, and the like, when the latter are entered head-on. If the person is unfamiliar with a building, if competing traffic is heavy, if sudden or frequent movements are needed, or if the wheelchair must be turned at an opening, then greater clear widths are needed. For most situations, the addition of an inch of leeway on either side is sufficient. Thus, a minimum clear width of 32 inches (815 mm) will provide adequate clearance. However, when an opening or a restriction in a passageway is more than 24 in (610 mm) long, it is essentially a passageway and must be at least 36 inches (915 mm) wide.

(2) Space Requirements for Use of Walking Aids. Although people

who use walking aids can maneuver through clear width openings of 32 in (815 mm), they need 36 in (915 mm) wide passageways and walks for comfortable gaits. Crutch tips, often extending down at a wide angle, are a hazard in narrow passageways where they might not be seen by other pedestrians. Thus, the 36 inches (915 mm) width provides a safety allowance both for the person with a disability and for others.

(3) Space Requirements for Passing. Able-bodied persons in winter clothing, walking straight ahead with arms swinging, need 32 inches (815 mm) of width, which includes 2 inches (50 mm) on either side for sway, and another 1 inch (25 mm) tolerance on either side for clearing nearby objects or other pedestrians. Almost all wheelchair users and those who use walking aids can also manage within this 32 inches (815 mm) width for short distances. Thus, two streams of traffic can pass in 64 inches (1625 mm) in a comfortable flow. Sixty inches (1525 mm) provides a minimum width for a somewhat more restricted flow. If the clear width is less than 60 inches (1525 mm), two wheelchair users will not be able to pass but will have to seek a wider place for passing. Forty-eight inches (1220 mm) is the minimum width needed for an ambulatory person to pass a non-ambulatory or semi-ambulatory person. Within this 48 inches (1220 mm) width, the ambulatory person will have to twist to pass a wheelchair

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user, a person with a service animal, or a semi - ambulatory person. There will be little leeway for swaying or missteps (see Fig. A1).

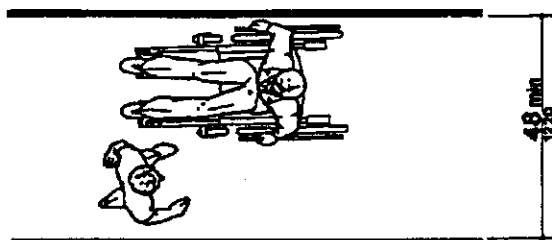


Fig. A1
Minimum Passage Width for One Wheelchair
and One Ambulatory Person

(2) Width for Wheelchair Passing. The minimum width for two wheelchairs to pass is 60 inches (1525 mm) (see Fig. 2).

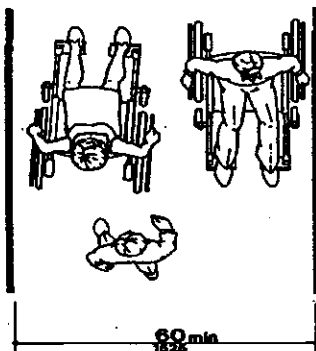


Fig. 2
Minimum Clear Width
for Two Wheelchairs

(3) Wheelchair Turning Space. The space required for a wheelchair to make a 180-degree turn is a clear space of 60 inches (1525 mm) diameter (see Fig.3(a)) or a T-shaped space (see Fig. 3(b)).

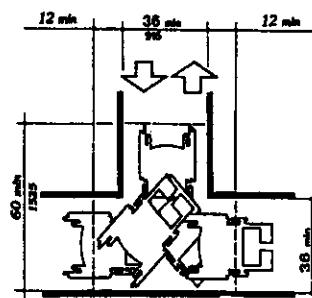


FIG. 3
(b)
T-Shaped Space for 180° Turns

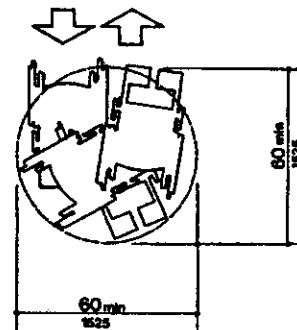


FIG. 3
(a)
60-in (1525-mm)-Diameter Space

Note: These guidelines specify a minimum space of 60 inches (1525 mm) diameter or a 60 inches by 60 inches (1525 mm by 1525 mm) T-shaped space for a pivoting 180-degree turn of a wheelchair. This space is usually satisfactory for turning around, but many people will not be able to turn without repeated tries and bumping into surrounding objects. The space shown in Fig. A2 will allow most wheelchair users to complete U-turns without difficulty.

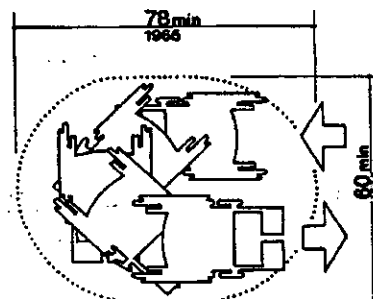


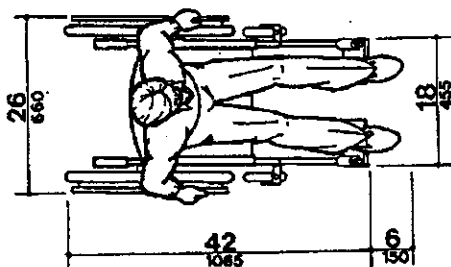
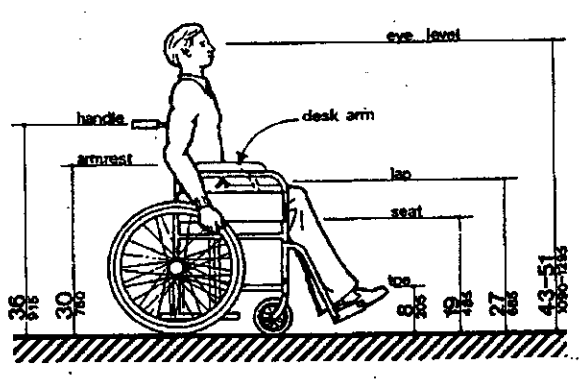
Fig. A2
Space Needed for Smooth U-Turn in a Wheelchair

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(4) Clear Floor or Ground Space for Wheelchairs.

(a) **Size and Approach.** The minimum clear floor or ground space required to accommodate a single, stationary wheelchair and occupant is 30 inches by 48 inches (760 mm by 1220 mm) (see Fig. 4(a)). The minimum clear floor or ground space for wheelchairs may be positioned for forward or parallel approach to an object (see Fig. 4(b) and (c)). Clear floor or ground space for wheelchair may be part of the knee space required under some objects in the T-shape turn.

Note: The wheelchair and user shown in Fig. A3 represent typical dimensions for a large adult male. The space requirements in these rules are based upon maneuvering clearances that will accommodate most wheelchairs. Fig. A3 provides a uniform reference for design not covered by these rules.



NOTE: Footrests may extend further for tall people

Fig A3

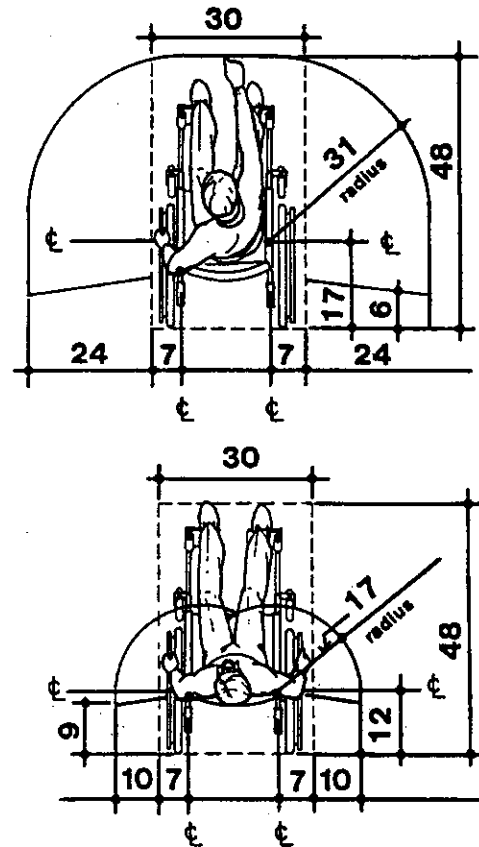


Fig. A3 (a)

(b) **Relationship of Maneuvering Clearance to Wheelchair Spaces.** One full unobstructed side of the clear floor or ground space for a wheelchair shall adjoin or overlap an accessible route or adjoin another wheelchair clear floor space. If a clear floor space is located in an alcove or otherwise confined on all or part of three sides, additional maneuvering clearances shall be provided as shown in Fig. 4(d) and (e).

(c) **Surfaces for Wheelchair Spaces.** Clear floor or ground spaces for wheelchairs shall comply with rule 120-3-20-16.

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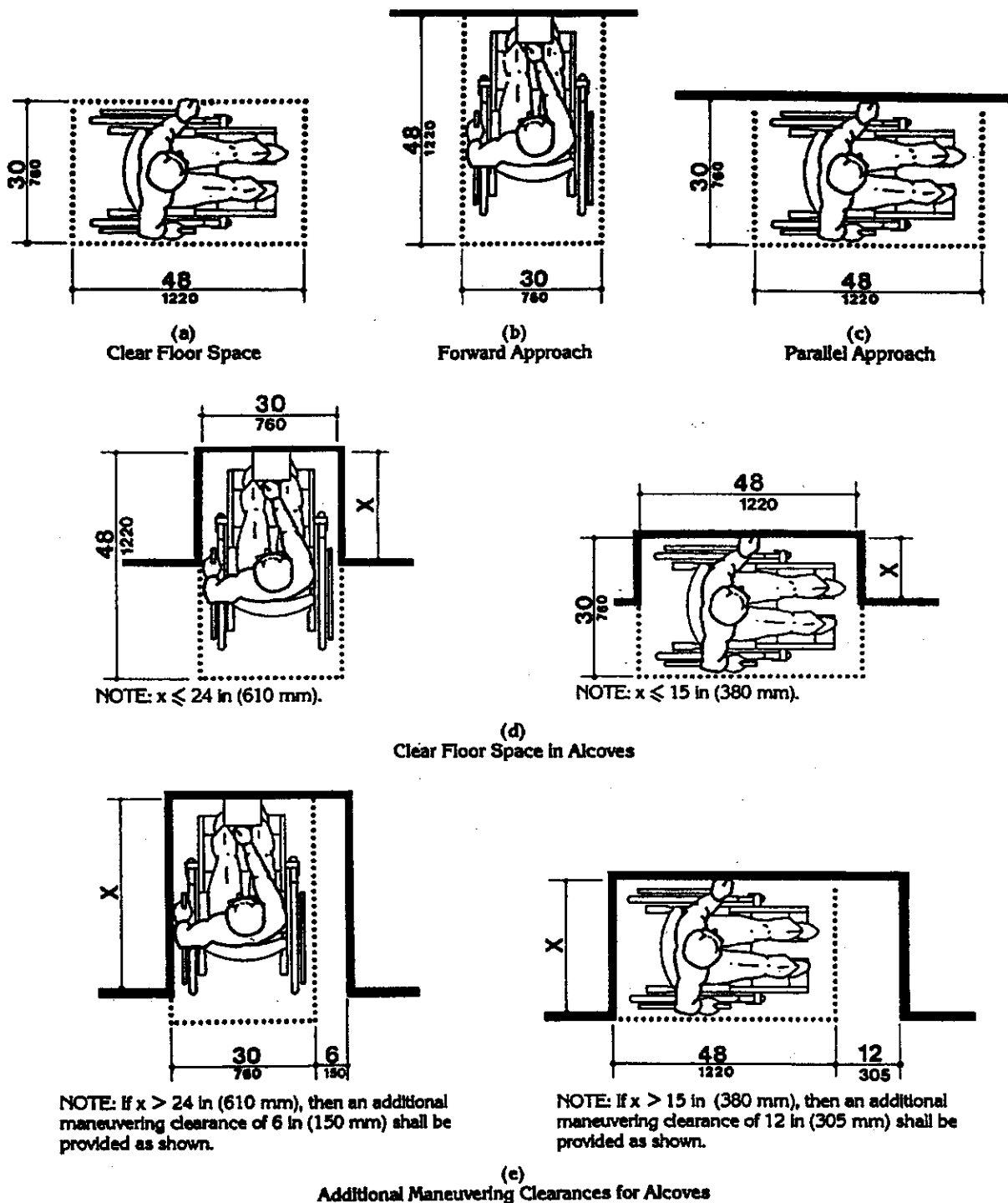


Fig. 4
Minimum Clear Floor Space for Wheelchairs

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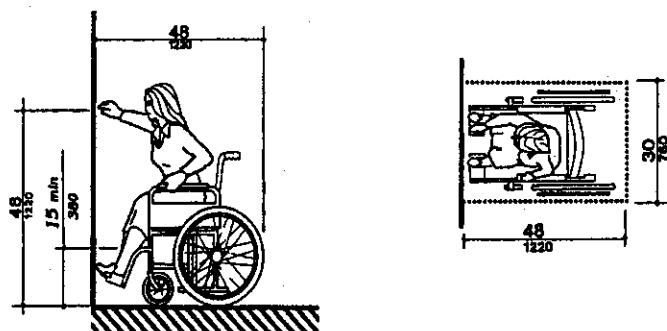
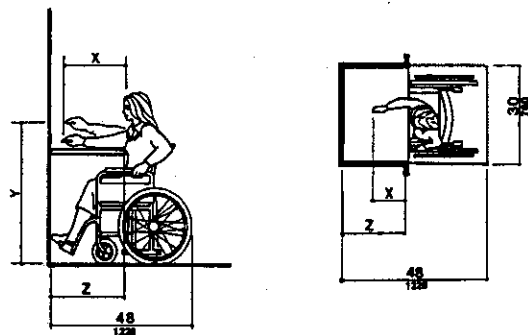


FIG. 5(a)
HIGH FORWARD REACH LIMITS

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

The minimum low forward reach is 15 inches (380 mm). If the high forward reach is over an obstruction, reach and clearances shall be as shown in Fig. 5(b).



NOTE: x shall be ≤ 25 in (635 mm); z shall be ≥ 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.

FIG. 5(b)
Maximum Forward Reach over an Obstruction

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

If the side reach is over an obstruction, the reach and clearances shall be as shown in Fig. 6(c).

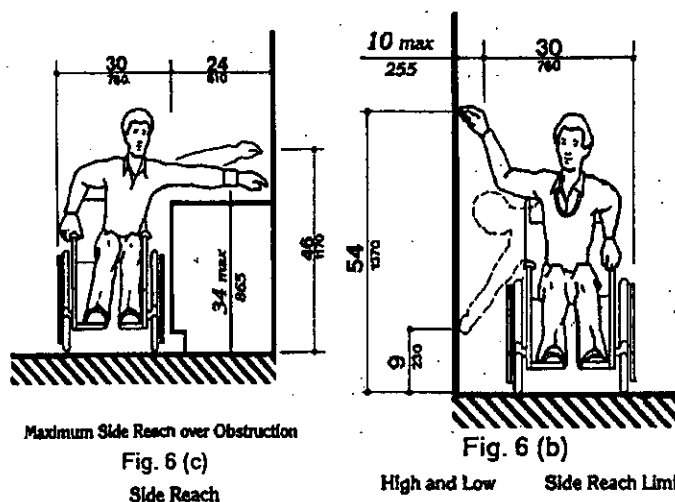
Note: Reach ranges for persons seated in wheelchairs may be further clarified by Fig. A3(a). These drawings approximate in the plan view the information shown in Fig. 4, 5, and 6.

120-3-20-.14 Accessible Route.

(1) General. All walks, halls, corridors, aisles, skywalks, tunnels, and other spaces that are part of an accessible route shall comply with rule 120-3-20-.14.

(2) Location.

(a) At least one accessible route within the boundary of the site shall be provided from public transportation stops, accessible parking, and accessible passenger loading zones, and public streets or sidewalks to the accessible building entrance they serve. The accessible route shall, to maximum extent feasible coincide with the route for the general public.



Maximum Side Reach over Obstruction

Fig. 6 (c)

Side Reach

Fig. 6 (b)

High and Low Side Reach Limits

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(b) At least one accessible route shall connect accessible buildings, facilities, elements, and spaces that are on the same site.

(c) At least one accessible route shall connect accessible building or facility entrances with all accessible spaces and elements and with all accessible dwelling units within the building or facility.

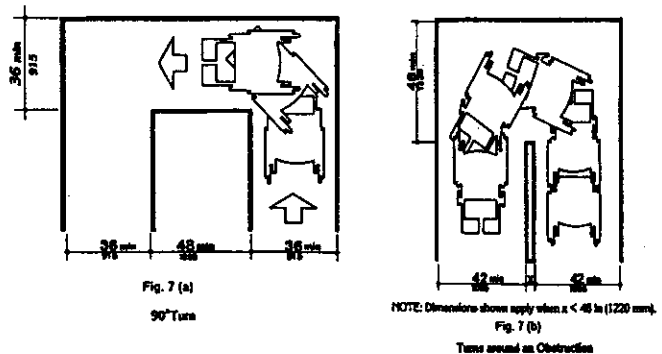
(d) An accessible route shall connect at least one accessible entrance of each accessible dwelling unit with those exterior and interior spaces and facilities that serve the accessible dwelling unit.

Note: Travel Distances. Many people with mobility impairments can move at only very slow speeds; for many, traveling **200 feet** (61 m) could take about 2 minutes. This assumes a rate of about 1.5 ft/s (455 mm/s) on level ground. It also assumes that the traveler would move continuously. However, on trips over 100 ft (30 m), disabled people are apt to rest frequently, which substantially increases their trip times. Resting periods of 2 minutes for every 100 ft (30 m) can be used to estimate travel times for people with severely limited stamina. In inclement weather, slow progress and resting can greatly increase a disabled person's exposure to the elements.

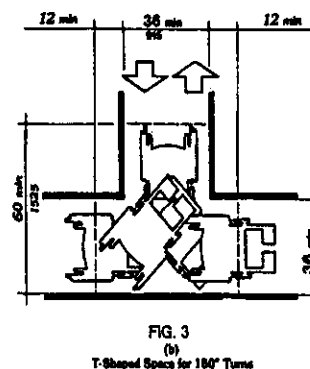
(2) Sites. Level, indirect routes or those with running slopes lower than 1:20 can sometimes provide more convenience than direct routes

with maximum allowable slopes or with ramps.

(3) **Width.** The minimum clear width of an accessible route shall be 36 inches (915 mm) except at doors (see rule 120-3-20-.24 (5) and rule 120-3-20-.24(6)). If a person in a wheelchair must make a turn around an obstruction, the minimum clear width of the accessible route shall be as shown in Fig. 7(a) and (b).



(4) **Passing Space.** If an accessible route has less than 60 inches (1525 mm) clear width, then passing spaces at least 60 inches by 60 inches (1525 mm by 1525 mm) shall be located at reasonable intervals not to exceed 200 feet (61 m). A T-intersection of two corridors or walks is an acceptable passing place.



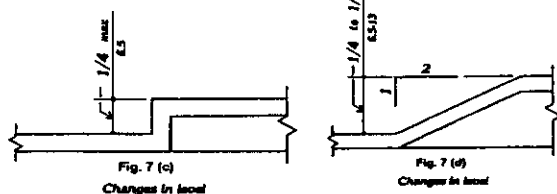
(5) **Head Room.** Accessible route shall comply with rule 120-3-20-.15.

(6) **Surface Texture.** Surface textures of an accessible route shall comply with rule 120-3-20-.16.

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(7) **Slope.** All accessible route with running slopes greater than 1:20 is a **ramp** and shall comply with rule 120-3-20-19. Cross slope shall not exceed 1:50.

(8) **Changes in Level.** Changes in level along an accessible route shall comply with 120-3-20-16. If an accessible route has changes in level greater than $\frac{1}{4}$ inch (13 mm), then a curb ramp, ramp, elevator, or platform lift (as permitted in rules 120-3-20-08 and 120-3-20-11 shall be provided that complies with rules 120-3-20-18, 120-3-20-19, 120-3-20-21, or 120-3-20-22, respectively. Accessible route does not include stairs, steps, or escalators. See definition of "egress, means of" in rule 120-3-20-06.



(9) **Doors.** Doors that are part of an accessible route shall comply with 120-3-20-24.

(10) **Egress.** Accessible routes serving any accessible space or element shall also serve as a means of egress for emergencies or connect to an accessible area of rescue assistance.

Note: Because people with disabilities may visit, be employed or be a resident in **any building**, emergency management plans with specific provisions to ensure their safe evacuation also play an essential role in fire safety and life safety.

(11) **Areas of Rescue Assistance.**

(a) **Location and Construction.** An area of rescue assistance shall be one of the following:

1. A portion of a stairway landing within a smokeproof enclosure (complying with local requirements).

2. A portion of an exterior exit balcony located immediately adjacent to an exit stairway when the balcony complies with local requirements for exterior exit balconies. Openings to the interior of the building located within 20 feet (6 m) of the area of rescue assistance shall be protected with fire assemblies having a three-fourths hour fire protection rating.

3. A portion of a one-hour fire-resistive corridor (complying with local requirements for fire-resistive construction and for openings) located immediately adjacent to an exit enclosure.

4. A vestibule located immediately adjacent to an exit enclosure and constructed to the same fire-resistive standards as required for corridors and openings.

5. A portion of a stairway landing within an exit enclosure which is vented to the exterior and is separated from the interior of the building with not less than one-hour fire-resistive doors.

6. When approved by the appropriate local authority, an area or a room which is separated from other portions of the building by a smoke barrier. Smoke barriers shall have a fire-resistive rating of not less than one hour and shall completely enclose the area or room. Doors in the smoke barrier shall be tight-fitting smoke-control and draft-control assemblies having a fire-protection rating of not less than 20 minutes and shall be self-closing or automatic closing. The area or room shall be provided with an exit directly to an exit enclosure. Where the room or area exits into an exit enclosure which is required

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to be of more than one-hour fire-resistive construction, the room or area shall have the same fire-resistive construction, including the same opening protection, as required for the adjacent exit enclosure.

7. An elevator lobby when elevator shafts and adjacent lobbies are pressurized as required for smokeproof enclosures by local regulations and when complying with requirements herein for size, communication, and signage. Such pressurization system shall be activated by smoke detectors on each floor located in a manner approved by the appropriate local authority. Pressurization equipment and its duct work within the building shall be separated from other portions of the building by a minimum two-hour fire-resistive construction.

(b) **Size.** Each area of rescue assistance shall provide at least two accessible areas each being not less than 30 inches by 48 inches (760 mm by 1220 mm). The area of rescue assistance shall not encroach on any required exit width. The total number of such 30-inches by 48-inches (760 mm by 1220 mm) areas per story shall be not less than one for every 200 persons of calculated occupant load served by the area of rescue assistance.

EXCEPTION: The appropriate local authority may reduce the minimum number of 30-inches by 48-inches (760 mm by 1220 mm) areas to one for each area of rescue assistance on floors where the occupant load is less than 200.

(c) **Stairway Width.** Each stairway adjacent to an area of rescue assistance shall have a minimum clear width of 48 inches between handrails.

Note: A 48 inches (1220 mm) wide

exit stairway is needed to allow assisted evacuation (e.g., carrying a person in a wheelchair) without encroaching on the exit path for ambulatory persons.

(d) **Two-way Communication.** A method of two-way communication, with both visible and audible signals, shall be provided between each area of rescue assistance and the primary entry. The fire department or appropriate local authority may approve a location other than the primary entry.

Note: It is essential that emergency communication not be dependent on voice communications alone because the safety of people with hearing or speech impairments could be jeopardized. The visible signal requirement could be satisfied with something as simple as a button in the area of rescue assistance that lights, indicating that help is on the way, when the message is answered at the point of entry.

(e) **Identification.** Each area of rescue assistance shall be identified by a sign which states "AREA OF RESCUE ASSISTANCE" and displays the international symbol of accessibility. The sign shall be illuminated when exit sign illumination is required. Signage shall also be installed at all inaccessible exits and where otherwise necessary to clearly indicate the direction to areas of rescue assistance. In each area of rescue assistance, instructions on the use of the area under emergency conditions shall be posted adjoining the two-way communication system.

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120-3-20-.15 Protruding Objects.

(1) **General.** Objects projecting from walls (for example, telephones) with their leading edges between 27 inches and 80 inches (685 mm and 2030 mm) above the finished floor shall protrude no more than 4 inches (100 mm) into walks, halls, corridors, passageways, or aisles (see Fig. 8(a)). Objects mounted with their leading edges at or below 27 inches (685 mm) above the finished floor may protrude any amount (see Fig. 8(a) and (b)). Free-standing objects mounted on posts or pylons may overhang 12 inches (305 mm)

or maneuvering space (see Fig. 8(e)).

Note: General. Service animals are trained to recognize and avoid hazards. However, most people with severe impairments of vision use the long cane as an aid to mobility. The two principal cane techniques are the touch technique, where the cane arcs from side to side and touches points outside both shoulders; and the diagonal

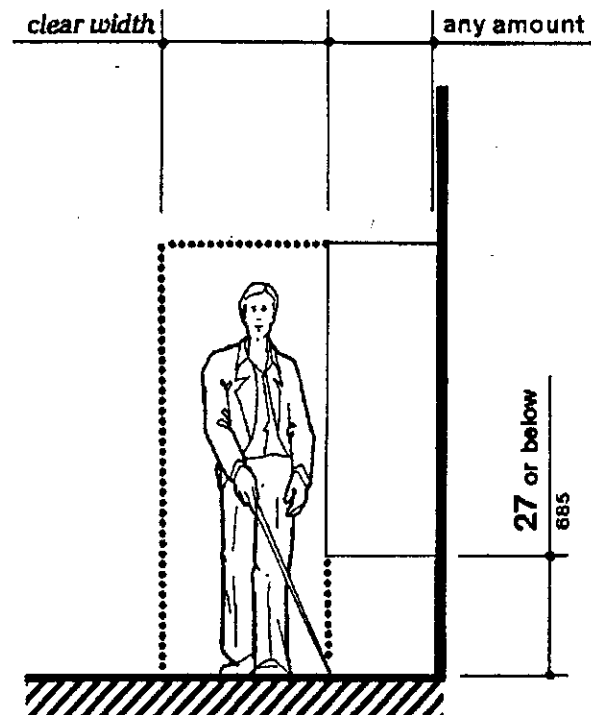
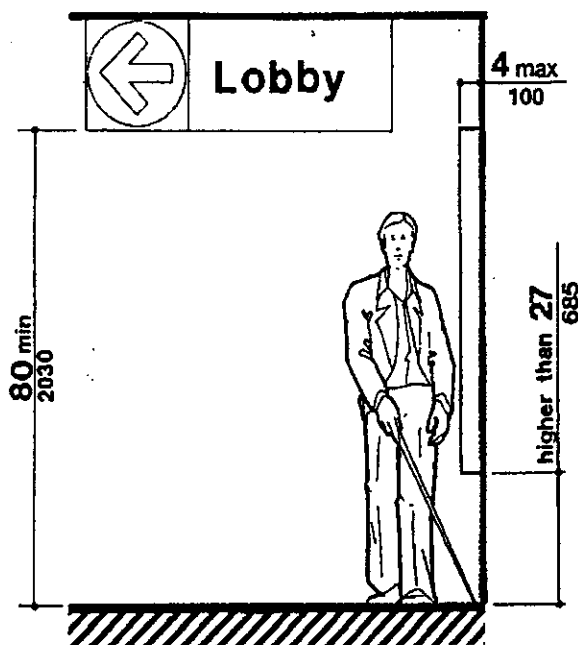


Fig. 8 (a)
Walking Parallel to a Wall

maximum from 27 inches to 80 inches (685 mm to 2030 mm) above the ground or finished floor (see Fig. 8(c) and (d)). Protruding objects shall not reduce the clear width of an accessible route

technique, where the cane is held in a stationary position diagonally across the body with the cane tip touching or just

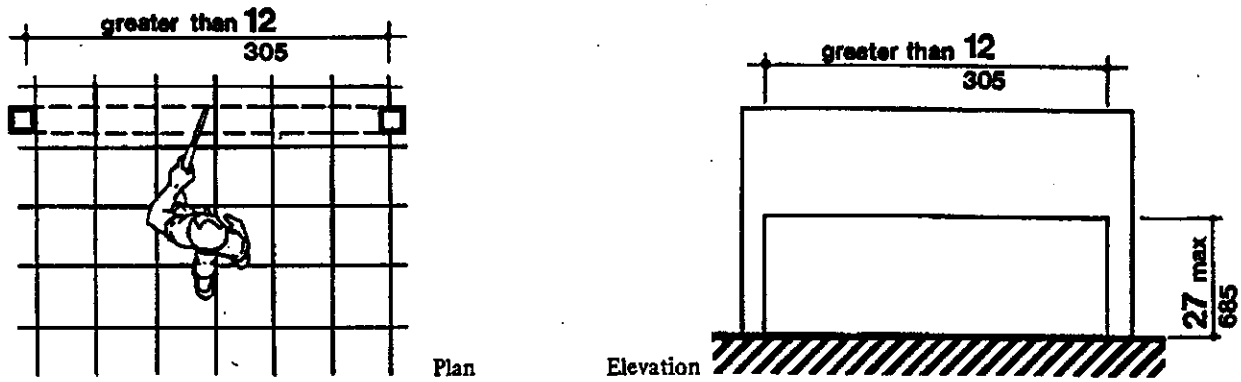


Fig. 8 (c) Free-Standing Overhanging Objects

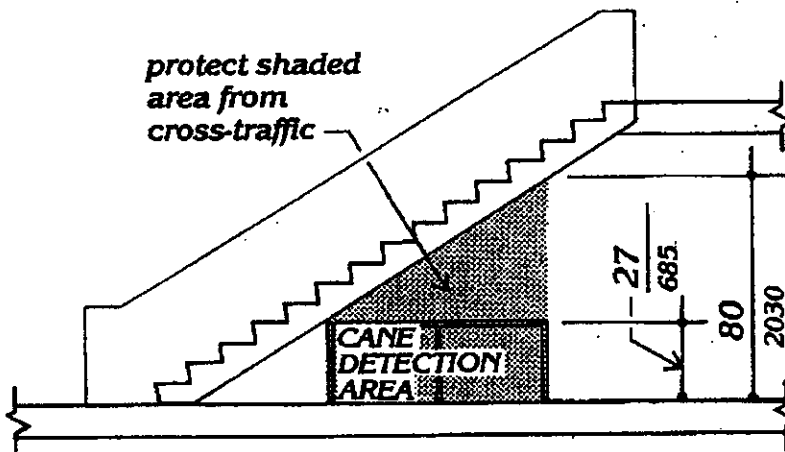


Fig. 8 (c-1) Overhead Hazards

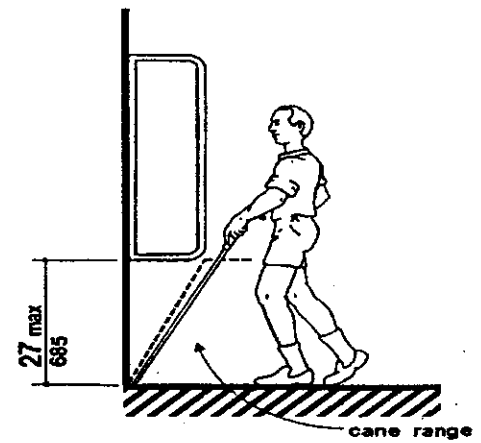


Fig. 8 (b) Walking Perpendicular to a Wall

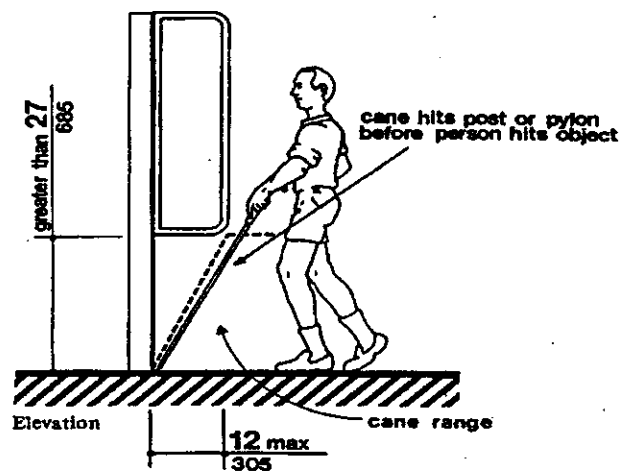
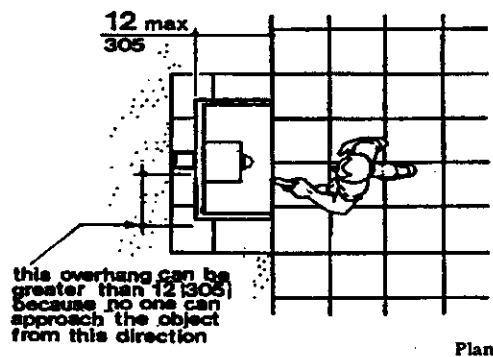


Fig. 8 (d) Objects Mounted on Posts or Pylons

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above the ground at a point outside one shoulder and the handle or grip extending to a point outside the other shoulder. The touch technique is used primarily in uncontrolled areas, while the diagonal technique is used primarily in certain limited, controlled, and familiar environments. Cane users are often trained to use both techniques.

Potential hazardous objects are noticed only if they fall within the detection range of canes.

(see Fig. A4).

Visually impaired people walking toward an object can detect an overhang if its lowest surface is not higher than 27 inches (685 mm). When walking alongside protruding objects, they cannot detect overhangs. Since proper cane and service animal techniques keep people away from the edge of a path or from walls, a slight overhang of no more than 4 inches (100 mm) is not hazardous.

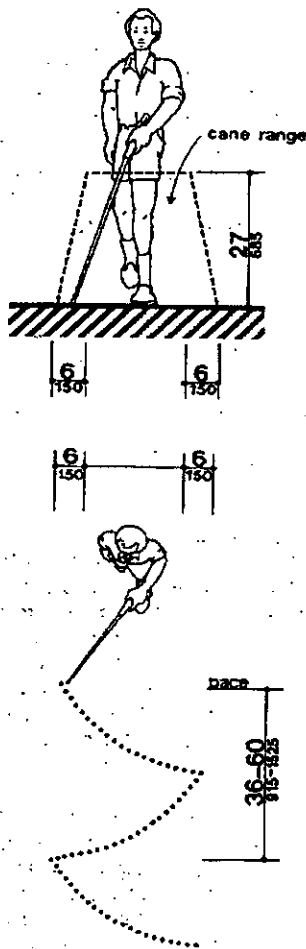


Fig. A4
Cane Technique

(2) **Head Room.** Walks, halls, corridors, passageways, aisles, or other circulation spaces shall have 80 inches (2030 mm) minimum clear head room (see Fig. 8(a)).

If vertical clearance of an area adjoining an accessible route is reduced to less than 80 inches (nominal dimension), a barrier to warn blind or visually-impaired persons shall be provided (see Fig. 8(c-1)).

120-3-20-.16

Ground and Floor Surfaces

(1) **General.** Ground and floor surfaces along accessible routes and in accessible rooms and spaces including floors, walks, ramps, stairs, and curb ramps, shall be stable, firm, slip-resistant, and shall comply with rule 120-3-20.19.

Note: People who have difficulty walking or maintaining balance or who use crutches, canes, or walkers, and those with restricted gaits are particularly sensitive to slipping and tripping hazards. For such people, a stable and regular surface is necessary for safe walking, particularly on stairs. Wheelchairs can be propelled most easily on surfaces that are hard, stable, and regular. Soft loose surfaces such as shag carpet, loose sand or gravel, wet clay, and irregular surfaces such as cobblestones can significantly impede wheelchair movement.

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Slip resistance is based on the frictional force necessary to keep a shoe heel or crutch tip from slipping on a walking surface under conditions likely to be found on the surface. While the dynamic coefficient of friction during walking varies in a complex and non-uniform way, the static coefficient of friction, which can be measured in several ways, provides a close approximation of the slip resistance of a surface. Contrary to popular belief, some slippage is necessary to walking, especially for persons with restricted gaits; a truly "non-slip" surface could not be negotiated.

The Occupational Safety and Health Administration recommends that walking surfaces have a static coefficient of friction of 0.5. A research project sponsored by the Architectural and Transportation Barriers Compliance Board (Access Board) conducted tests with persons with disabilities and concluded that a higher coefficient of friction was needed by such persons. A static coefficient of friction of 0.6 is recommended for accessible routes and 0.8 for ramps.

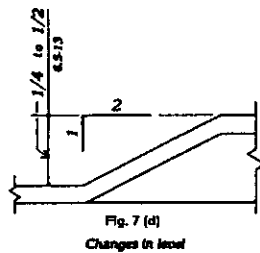
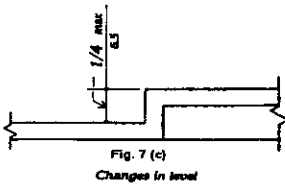
It is recognized that the coefficient of friction varies considerably due to the presence of contaminants, water, floor finishes, and other factors not under the control of the designer or builder and not subject to

design and construction guidelines and that compliance would be difficult to measure on the building site. Nevertheless, many common building materials suitable for flooring are now labeled with information on the static coefficient of friction. While it may not be possible to compare one product directly with another, or to guarantee a constant measure, builders and designers are encouraged to specify materials with appropriate values. As more products include information on slip resistance, improved uniformity in measurement and specification is likely. The Access Board's advisory guidelines on Slip Resistant Surfaces provides additional information on this subject.

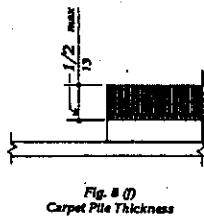
Cross slopes on walks and ground or floor surfaces can cause considerable difficulty in propelling a wheelchair in a straight line.

(2) Changes in Level. Changes in level up to 1/4 inches (6 mm) may be vertical and without edge treatment (see Fig. 7(c)). Changes in level between 1/4 inches and 1/2 inches (6 mm and 13 mm) shall be beveled with a slope no greater than 1:2 (see Fig. 7(d)). Changes in level greater than 1/2 inches (13 mm) shall be accomplished by means of a ramp that complies with 120-3-20-.18 or 120-3-20-.19

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(3) **Carpet.** If carpet or carpet tile is used on a ground or floor surface, then it shall be securely attached; have a firm cushion, pad, or backing, or no cushion or pad; and have a level loop, textured loop, level cut pile, or level cut/uncut pile texture. The maximum pile thickness shall be $\frac{1}{2}$ inches (13 mm) (see Fig. 8(f)). Exposed edges of carpet shall be fastened to floor surfaces and have trim along the entire length of the exposed edge. Carpet edge trim shall comply with rule 120-3-20-.16(2).

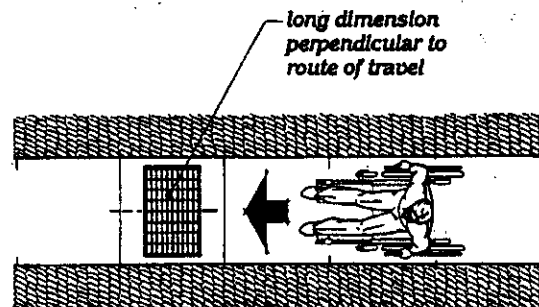
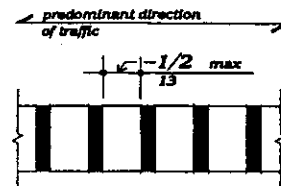


Note: Much more needs to be done in developing both quantitative and qualitative criteria for carpeting (i.e.,

problems associated with texture and weave need to be studied). However, certain functional characteristics are well established. When both carpet and padding are used, it is desirable to have minimum movement (preferably none) between the floor and the pad and the pad and the carpet which would allow the carpet to hump or warp. In heavily trafficked areas, a thick, soft (plush) pad or cushion, particularly in combination with long carpet

pile, makes it difficult for individuals in wheelchairs and those with other ambulatory disabilities to get about. Firm carpeting can be achieved through proper selection and combination of pad and carpet, sometimes with the elimination of the pad or cushion, and with proper installation. Carpeting designed with a weave that causes a zig-zag effect when wheeled across is strongly discouraged.

(4) **Gratings.** If gratings are located in walking surfaces, then they shall have spaces no greater than $\frac{1}{2}$ inches (13 mm) wide in one direction (see Fig. 8(g)). If gratings have elongated openings, then they shall be placed so that the long dimension is perpendicular to the dominant direction of travel (see Fig. 8(h)).



120-3-20-.17 Parking and Passenger Loading Zones.

(1) **Minimum Number.** Parking spaces required to be accessible by rule 120-3-20-.07 shall comply with rules 120-3-20-.17(2) through 120-3-20-.17(5). Passenger loading zones required to be accessible by rule 120-3-20-.07 shall comply with rules 120-3-20-.17(5) and 120-3-20-.17(6).

(2) **Location.** Accessible parking spaces serving a particular building shall be located on the shortest accessible route of travel from adjacent parking to an accessible entrance. In parking facilities that do not serve a particular building, accessible parking shall be located on the shortest accessible route of travel to an accessible pedestrian entrance of the parking facility. In buildings with multiple accessible entrances with adjacent parking, accessible parking spaces shall be dispersed and located closest to the accessible entrances.

(3) **Parking Spaces.** Accessible parking spaces shall be at least 96 inches (2440 mm) wide. Parking access aisles shall be part of an accessible route to the building or facility entrance and shall comply with rule 120-3-20-.14. Two accessible parking spaces may share a common access aisle (see Fig.9). Parked vehicle overhangs shall not reduce the clear width of an accessible route.

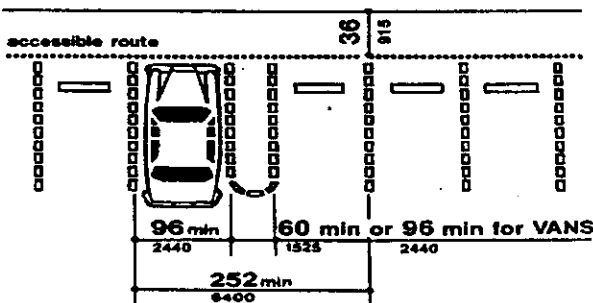
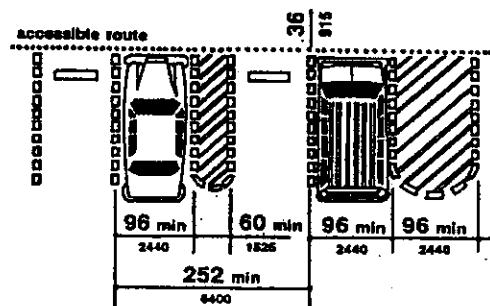


Fig. 9
Dimensions of Parking Spaces

Parking spaces and access aisles shall be level with surface slopes not exceeding 1:50 (2%) in all directions.

Note: The increasing use of vans with side-mounted lifts or ramps by persons with disabilities has necessitated some revisions in specifications for parking spaces and adjacent access aisles. The typical accessible parking space is 96 inches (2440 mm) wide with an adjacent 60 inches (1525 mm) access aisle. However, this aisle does not permit lifts or ramps to be deployed and still leave room for a person using a wheelchair or other mobility aid to exit the lift platform or ramp. In tests conducted with actual lift/van/wheelchair combinations, (under a Board-sponsored Accessible Parking and Loading Zones Project) researchers found that a space and aisle totaling almost 204 inches (5180 mm) wide was needed to deploy a lift and exit conveniently. The "van accessible" parking space required by these rules provides a 96 inches (2440 mm) wide space with a 96 inches (2440 mm) adjacent access aisle which is just wide enough to maneuver and exit from a side mounted lift. If a 96 inches (2440 mm) access aisle is placed between two spaces, two "van accessible" spaces are created. Alternatively, if the wide access aisle is provided at the end of a row (an area often unused), it may be possible to provide the wide access aisle without additional space (see Fig. A5(a)).

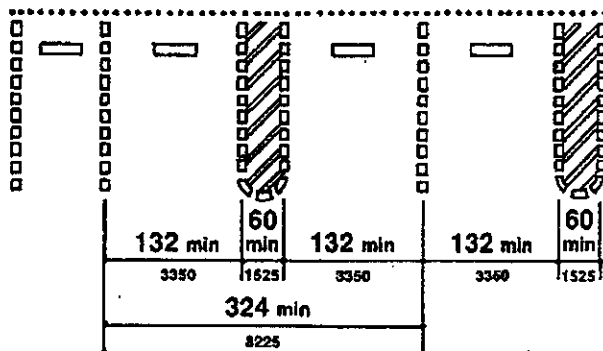


(a)
Van Accessible Space at End Row

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A sign is needed to alert van users to the presence of the wider aisle, but the space is not intended to be restricted only to vans.

"Universal" Parking Space Design. An alternative to the provision of a percentage of spaces with a wide aisle, and the associated need to include additional signage, is the use of what has been called the "universal" parking space design. Under this design, all accessible spaces are 132 inches (3350 mm) wide with a 60 inches (1525 mm) access aisle (see Fig. A5(b)). One advantage to this design is that no additional signage is needed because all spaces can accommodate a van with a side-mounted lift or ramp. Also, there is no competition between cars and vans for spaces since all spaces can accommodate either. Furthermore, the wider space permits vehicles to park to one side or the other within the 132 inches (3350 mm) space to



(b)
Universal Parking Space Design

Fig. A5
Parking Space Alternatives

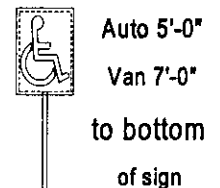
allow persons to exit and enter the vehicle on either the driver or passenger side, although, in some cases, this would require exiting or entering without a marked access aisle.

An essential consideration for any design is having the access aisle level with the parking space. Since a person with a disability, using a lift or ramp, must maneuver within the access aisle, the aisle cannot include a ramp or sloped area. The access aisle must be connected to an accessible route to the appropriate accessible entrance of a building or facility. The parking access aisle must either blend with the accessible route or have a curb ramp complying with rule 120-3-20-.18. Such a curb ramp opening must be located within the access aisle boundaries, not within the parking space boundaries. Unfortunately, many facilities are designed with a ramp that is blocked when any vehicle parks in the accessible space. Also, the required dimensions of the access aisle cannot be restricted by planters, curbs or wheel stops.

(4) Signage. Accessible parking spaces shall be designated as reserved by a sign complying with 120-3-20.41(7) and the following:

O.C.G.A. 40-6-221

Provide a blue metal reflective sign which is at least 12" inches width and 18" inches length and is erected at 60" from ground to bottom of the sign in such a manner that it will not be obscured by a vehicle parked in the space and bearing the international symbol for accessibility. The warning required in this subparagraph shall be centered on the sign, printed in white, and shall occupy not less than 75 % of the sign.



Spaces complying with rule 120-3-20-.07(e)(2) shall have an additional sign stating "Van-Accessible" mounted below the symbol of accessibility.

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Such signs shall be located so they cannot be obscured by a vehicle parked in the space. The bottom of signs for accessible autos parking spaces shall be at least 60 inches above grade and 72 inches for accessible van parking spaces.

Note: Signs designating parking places for disabled people can be seen from a driver's seat if the signs are mounted high enough above the ground and located at the front of a parking space.

(5) Vertical Clearance. Provide minimum vertical clearance of 114 inches (2895 mm) at accessible passenger loading zones and along at least one vehicle access route to such areas from site entrance(s) and exit(s). At parking spaces complying with rule 120-3-20-.07(e)(2), provide minimum vertical clearance of 98 inches (2490 mm) at the parking space and along at least one vehicle access route to such spaces from site entrance(s) and exit(s).

Note: High-top vans, which disabled people or transportation services often use, require higher clearances in parking garages than automobiles.

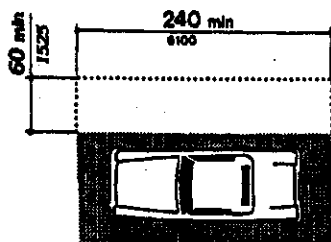


Fig. 10
Access Aisle at Passenger Loading Zones

(6) Passenger Loading Zones. Passenger loading zones shall provide an access aisle at least 60 inches (1525 mm) wide and 20 feet (240 inches)(6100 mm) long adjacent and parallel to the vehicle pull-up space (see Fig. 10). If there are curbs between the access aisle and the vehicle pull-up space, then a curb ramp complying with rule 120-3-20-.18 shall be provided. Vehicle standing spaces and access aisles shall be level with surface slopes not exceeding 1:50 (2%) in all directions.

120-3-20-.18 Curb Ramps.

(1) Location. Curb ramps complying with 120-3-20-.18 shall be provided wherever an accessible route crosses a curb.

(2) Slope. Slopes of curb ramps shall comply with rule 120-3-20-.19. The slope shall be measured as shown in Fig. 11.

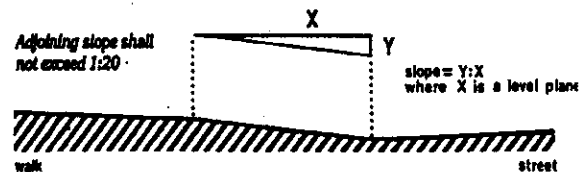
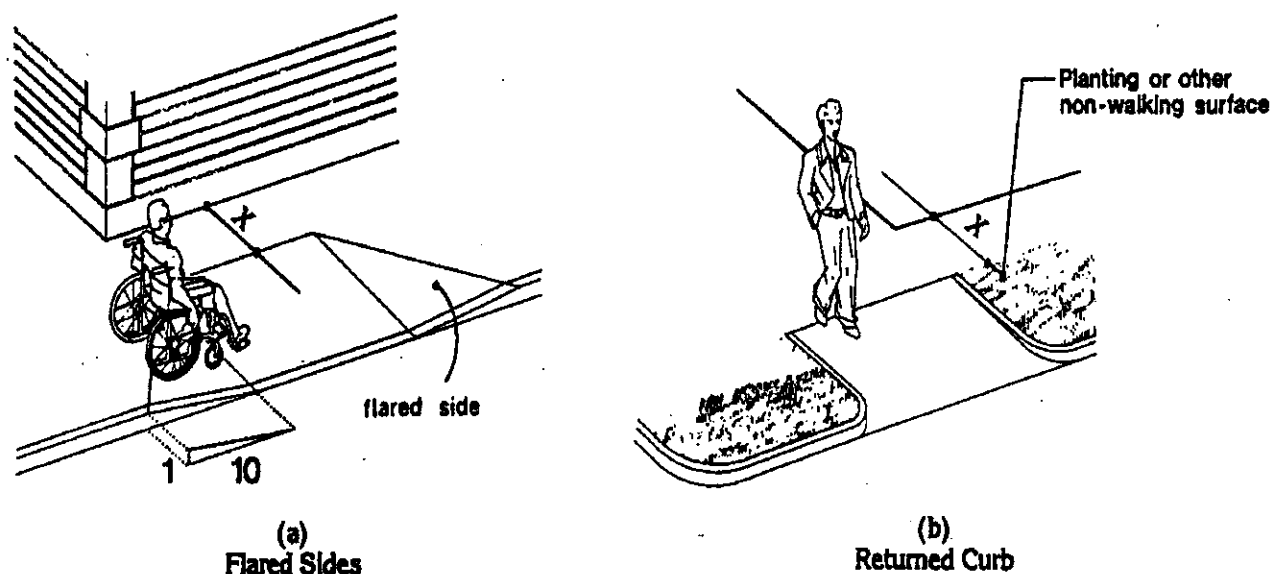


Fig. 11
Measurement of Curb Ramp Slopes

Transitions from ramps to walks, gutters, or streets shall be flush and free of abrupt changes. Maximum slopes of adjoining gutters, road surface immediately adjacent to the curb ramp, or accessible route shall not exceed 1:20.

(3) Width. The minimum width of a curb ramp shall be 36 inches (915 mm), exclusive of flared sides.

(4) Surface. Surfaces of curb ramps shall comply with rule 120-3-20-.16.



*If X is less than 48 in,
then the slope of the flared side
shall not exceed 1:12.*

Fig. 12
Sides of Curb Ramps

(5) **Sides of Curb Ramps.** If a curb ramp is located where pedestrians must walk across the ramp, or where it is not protected by handrails or guardrails, it shall have **flared sides**; the maximum slope of the flare shall be 1:10 (see Fig. 12(a)). Curb ramps with returned curbs may be used where pedestrians would not normally walk across the ramp (see Fig. 12(b)).

(6) **Built-up Curb Ramps.** Built-up curb ramps shall be located so that they do not project into vehicular traffic lanes (see Fig. 13).

(7) **Detectable Warnings.** A curb ramp shall have a detectable warning complying with rule 120-3-20-.40. The detectable warning shall extend the full width and depth of the curb ramp, including flares.

(8) **Obstructions.** Curb ramps shall be located or protected to prevent their obstruction by parked vehicles.

(9) **Location at Marked Crossings.** Curb ramps at marked crossings shall be wholly contained within the markings, excluding any flared sides (see Fig. 15). Such signs shall be located so they cannot be obscured by a vehicle parked in the space.

The bottom of signs for accessible autos parking

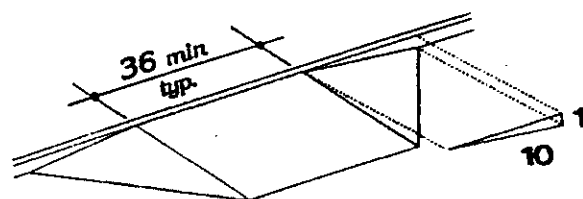


Fig. 13
Built-Up Curb Ramp

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spaces shall be at least **60 inches** above grade and **72 inches** for accessible van parking spaces.

Note: Signs designating parking places for disabled people can be seen from a driver's seat if the signs are mounted high enough above the ground and located at the front of a parking space.

(5) Vertical Clearance. Provide **minimum** vertical clearance of **114 inches** (2895 mm) at accessible passenger loading zones and along at least one vehicle access route to such areas from site entrance(s) and exit(s). At parking spaces complying with rule 120-3-20-.07(5)(b), provide minimum vertical clearance of **98 inches** (2490 mm) at the parking space and along at least one vehicle access route to such spaces from site entrance(s) and exit(s).

Note: High-top vans, which disabled people or transportation services often use, require higher clearances in parking garages than automobiles.

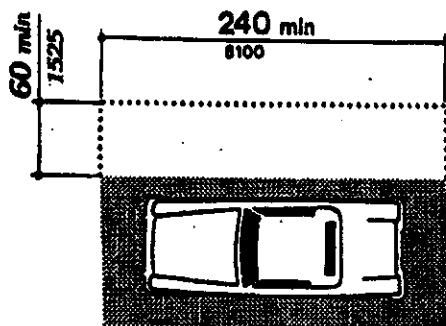


Fig. 10
Access Aisle at Passenger Loading Zones

(6) Passenger Loading Zones. Passenger loading zones shall provide an access aisle at least 60 inches (1525 mm) wide and 20 feet (240 inches)(6100 mm) long adjacent and parallel to the vehicle pull-up space (see Fig. 10). If there are curbs between the access aisle and the vehicle pull-up space, then a curb ramp complying with 120-3-20-.18 shall be provided. Vehicle standing spaces and access aisles shall be level with surface slopes not exceeding 1:50 (2%) in all directions.

120-3-20-.18 Curb Ramps.

(1) Location. Curb ramps complying with rule 120-3-20-.18 shall be provided wherever an accessible route crosses a curb.

(2) Slope. Slopes of curb ramps shall comply with rule 120-3-20-.19. The slope shall be measured as shown in Fig. 11.

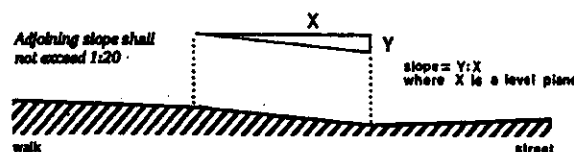


Fig. 11
Measurement of Curb Ramp Slopes

Transitions from ramps to walks, gutters, or streets shall be flush and free of abrupt changes. Maximum slopes of adjoining gutters, road surface immediately adjacent to the curb ramp, or accessible route shall **not exceed 1:20**.

(3) Width. The minimum width of a curb ramp shall be **36 inches** (915 mm), exclusive of flared sides.

(4) Surface. Surfaces of curb ramps shall comply with rule 120-3-20-.16.

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(10) Diagonal Curb Ramps. If diagonal (or corner type) curb ramps have returned curbs or other well-defined edges, such edges shall be parallel to the direction of pedestrian flow. The bottom of diagonal curb ramps shall have 48 inches (1220 mm) minimum clear space as shown in Fig. 15(c) and (d). If diagonal curb ramps are provided at marked crossings, the 48 inches (1220 mm) clear space shall be within the markings (see Fig. 15(c) and (d)). If diagonal curb ramps have flared sides, they shall also have at least a 24

inches (610 mm) long segment of straight curb located on each side of the curb ramp and within the marked crossing (see Fig. 15(c)).

(11) Islands. Any raised islands in crossings shall be cut through level with the street or have curb ramps at both sides and a level area at least 48 inches (1220 mm) long between the curb ramps in the part of the island intersected by the crossings (see Fig. 15(a) and (b)).

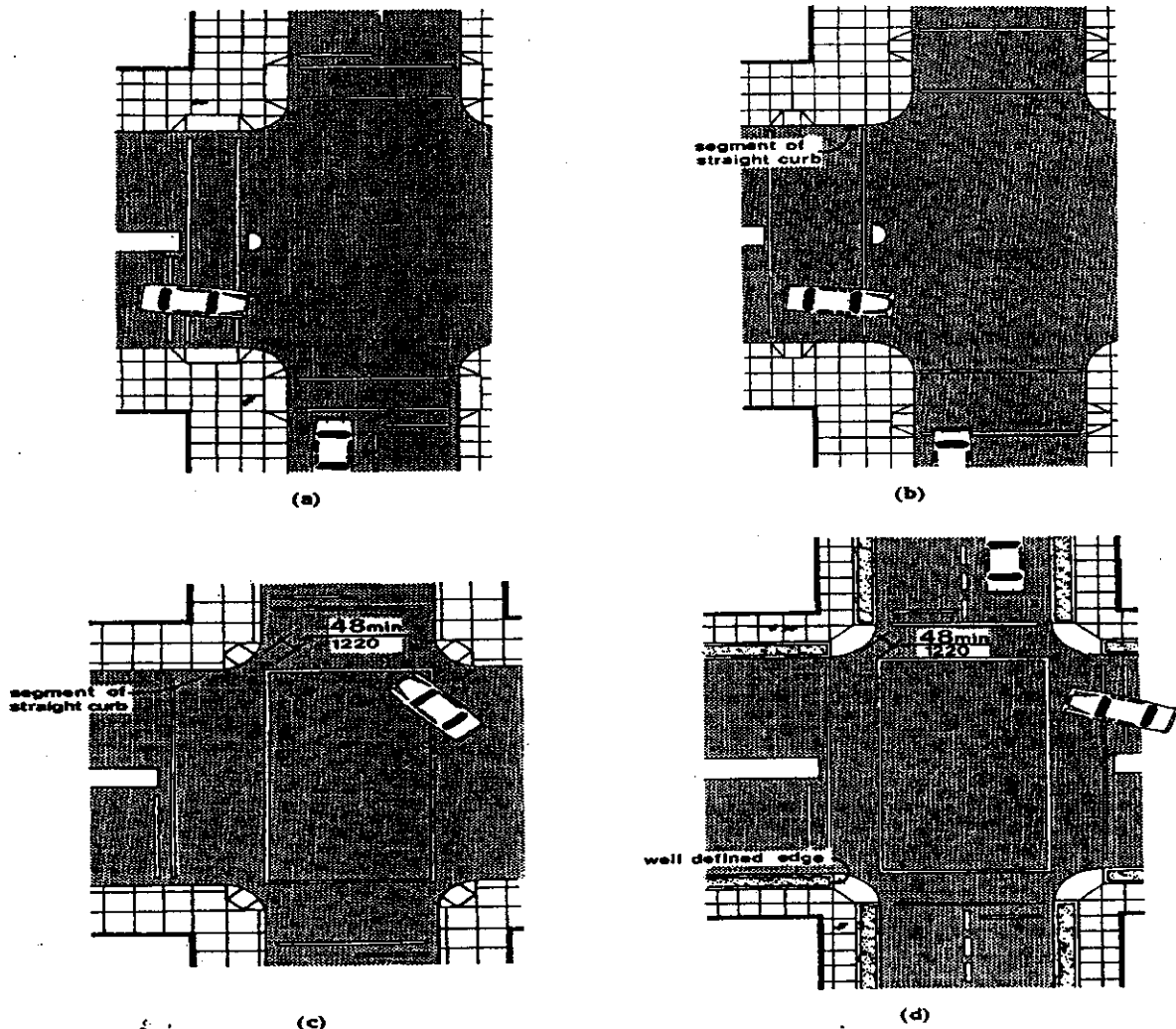


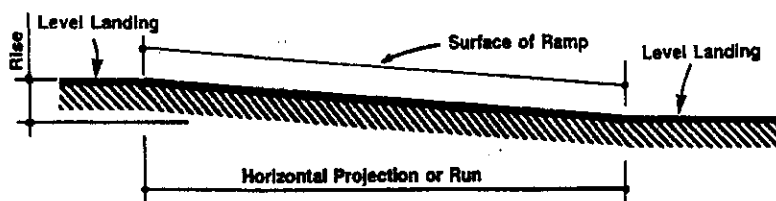
Fig. 15
Curb Ramps at Marked Crossings

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120-3-20-.19 Ramps.

(1) **General.** Any part of an accessible route with a slope greater than 1:20 shall be considered a **ramp** and shall comply with rule 120-3-20-.19.

Note: Ramps are essential for wheelchair users if elevators or lifts are not available to connect different levels. However, some people who use walking aids have difficulty with ramps and prefer stairs.



Slope	Maximum Rise		Maximum Horizontal Projection	
	in	mm	ft	m
1:12 to < 1:16	30	760	30	9
1:16 to < 1:20	30	760	40	12

Fig. 16

(2) **Slope and Rise.** The **least possible slope** shall be used for any ramp. The maximum slope of a ramp in new construction shall be 1:12. The **maximum rise** for any run shall be 30 inches (760 mm) (see Fig. 16).

Curb ramps and ramps to be constructed on existing sites or in existing buildings or facilities may have slopes and rises as allowed in rule 120-3-20-.11 (3) (a) if space limitations prohibit the use of a 1:12 slope or less.

Note: Ramp slopes between 1:16 and 1:20 are preferred. The ability to manage an incline is

related to both its slope and its length. Wheelchair users with disabilities affecting their arms or with low stamina have serious difficulty using inclines. Most ambulatory people and most people who use wheelchairs can manage a slope of 1:16. Many people cannot manage a slope of 1:12 for 30 feet (9 m).

(3) **Clear Width.** The **minimum** clear width of a ramp shall be 36 inches (915 mm).

(4) **Landings.** Ramps shall have **level** landings at bottom and top of each ramp and each ramp run. Landings shall have the following features:

(a) The landing shall be at least as wide as the ramp run leading to it.

(b) The **landing length** shall be a minimum of 60 inches (1525 mm) clear.

(c) If ramps change direction at landings, the minimum landing size shall be 60 inches by 60 inches (1525 mm by 1525 mm).

(d) If a doorway is located at a landing, then the area in front of the doorway shall comply with rule 120-2-20-.24(6).

Note: **Level** landings are essential toward maintaining an aggregate slope that complies with these rules. A ramp landing that is not level causes individuals using wheelchairs to tip backward or bottom out when the ramp is approached.

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(5) **Handrails.** If a ramp run has a rise greater than 6 inches (150 mm) or a horizontal projection greater than 72 inches (1830 mm), then it shall have handrails on both sides. Handrails are not required on curb ramps or adjacent to seating in assembly areas. Handrails shall comply with rule 120-3-20-.37 and shall have the following features:

(a) **Handrails** shall be provided along **both sides of ramp segments**. The inside handrail on switchback or dogleg ramps shall always be continuous.

(b) If handrails are not continuous, they shall **extend at least 12 inches (305 mm)** beyond the **top and bottom** of the ramp segment and shall be parallel with the floor or ground surface (see Fig. 17).

(c) The clear space between the handrail and the wall shall be **1 ½ inches (38 mm)**.

(d) **Gripping surfaces shall be continuous**, without interruption by newel posts, other construction elements, or obstructions.

(e) Handrails shall have a circular cross section with an outside diameter of **1 ¼ inches (32 mm)** minimum and **1 ½ inches (51 mm)** maximum.

(f) Handrails, and any wall or other surfaces adjacent to them, shall be free of any sharp or abrasive elements. Edges shall have **1/8 inches (3.2 mm)** minimum radius.

(g) **Top of handrail gripping surfaces** shall be mounted between **34 inches and 38 inches (865 mm and 965 mm)** above ramp surfaces.

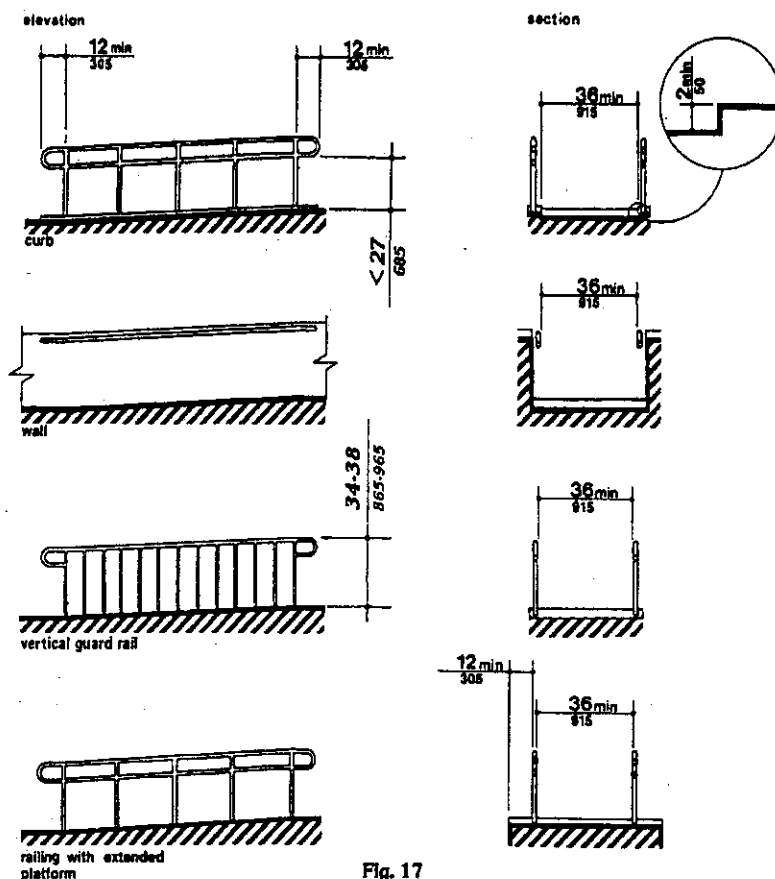


Fig. 17
Examples of Edge Protection and Handrail Extensions

(h) Ends of handrails shall be either rounded or returned smoothly to floor, wall, or post.

(i) Handrails shall not rotate within their fittings.

Note: The requirements for stair and ramp handrails in these rules are for **adults**. When **children** are principal users in a building or facility, **a second set of handrails** at an appropriate height is **required** to assist them and aid in preventing accidents.

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(6) **Cross Slope and Surfaces.** The cross slope of ramp surfaces shall be **no greater than 1:50**. Ramp surfaces shall comply with rule 120-3-20-.16.

(7) **Edge Protection.** Ramps and landings with drop-offs shall have *curbs, walls, railings, or projecting surfaces* that prevent people from slipping off the ramp. Curbs shall be a minimum of 2 inches (50 mm) high (see Fig. 17).

(8) **Outdoor Conditions.** Outdoor ramps and their approaches shall be designed so that water will not accumulate on walking surfaces.

120-3-20-.20 Stairs.

(1) **Minimum Number.** Stairs required to be accessible by rule 120-3-20-.03 shall comply with rule 120-3-20-.20.

Note: Only interior and exterior stairs connecting levels that are not connected by an elevator, ramp, or other accessible means of vertical access have to comply with rule 120-3-20-.20.

(2) **Treads and Risers.** On any given flight of stairs, all steps shall have uniform riser heights and uniform tread widths. Stair treads shall be no less than 11 inches (280 mm) wide, measured from riser to riser (see Fig. 18(a)).

Open risers are not permitted.

(3) **Nosing.** The underside of nosing shall not be abrupt. The radius of curvature at the leading edge of the tread shall be no greater than $\frac{1}{2}$ inch (13 mm). Risers shall be sloped or

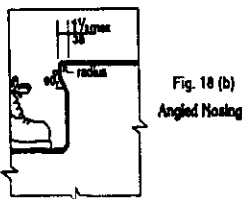


Fig. 18 (b)
Angled Nosing

the underside of the nosing shall have an angle not less than 60 degrees from the horizontal. Nosing shall project no more than 1-1/2 inches (38 mm) (see Fig. 18(a)).

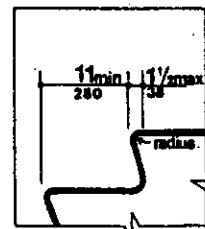


Fig. 18 (a)

(4) **Handrails.** Stairways shall have handrails at both sides of all stairs. Handrails shall comply with 4.26 and shall have the following features:

(a) Handrails shall be continuous along both sides of stairs. The inside handrail on switchback or dogleg stairs shall always be continuous (see Fig. 19(a) and (b)).

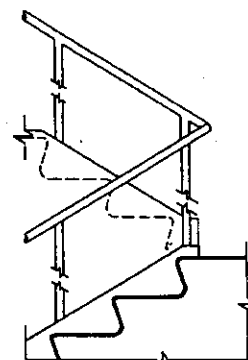
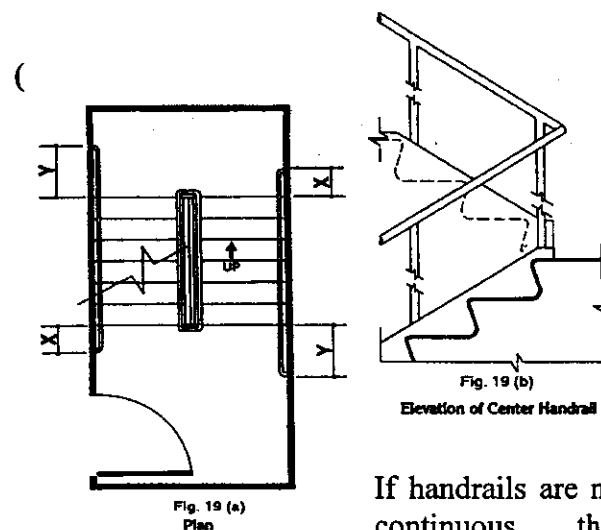


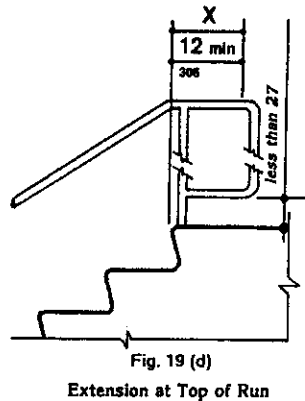
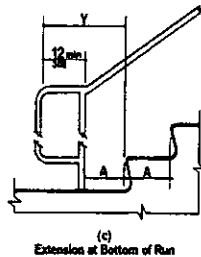
Fig. 19 (b)

Elevation of Center Handrail

If handrails are not continuous, they shall extend at 12 inches (305 mm) minimum beyond the top riser and at least 12 inches (305 mm) plus the width of one tread beyond the bottom riser. At the top, the extension shall be parallel with the floor or ground surface. At the bottom, the handrail shall continue to slope for a distance of the width of one tread from the bottom riser; the remainder of the extension shall be horizontal (see Fig. 19 (c)).

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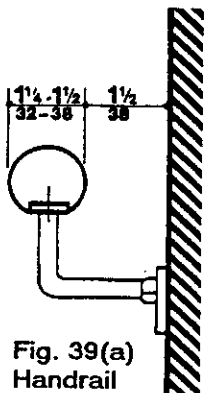
Handrail extensions shall comply with rule 120-3-20-.15.



NOTE:
X is the 12 in. minimum handrail extension required at each top riser.
Y is the minimum handrail extension of 12 in. plus the width of one tread that is required at each bottom riser.

(c) The clear space between the handrail and the wall shall be 1 ½ inches (38 mm).

(d) Gripping surfaces shall be continuous, without interruption by newel posts, other construction elements, or obstructions.



(e) Handrails shall have a circular cross section with an outside diameter of 1 ¼ inches (32 mm) minimum and 1 ½ inches (51 mm) maximum.

(f) Handrails, and any wall or other surfaces adjacent to them, shall be free of any sharp or abrasive elements. Edges shall have 1/8 inches (3.2 mm) minimum radius.

(g) Top of handrail gripping surfaces shall be mounted between 34 inches and 38 inches (865 mm and 965 mm) above stair nosing.

(h) Ends of handrails shall be either rounded or returned smoothly to floor, wall, or post.

(i) Handrails shall not rotate within their fittings.

(j) The design of guards and handrails and the hardware for attaching handrails to guards, balusters, or walls shall be such that there are no projections that **may engage loose clothing**. Openings in guards shall be designed to prevent loose clothing from becoming wedged in such openings.

(5) Detectable Warnings at Stairs.

(1) **General.** Detectable warning shall comply with rule 120-3-20-.40(4).

(2) **Detectable Warning at Stairs.** All stairs, except those in dwelling units, in enclosed stair towers, or set to side of the path of travel shall have a detectable warning at the top of the each stair run. (See Fig.41)

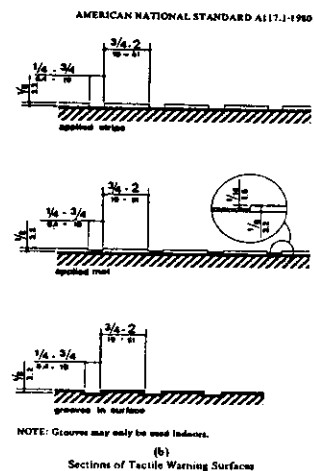
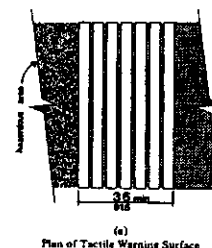
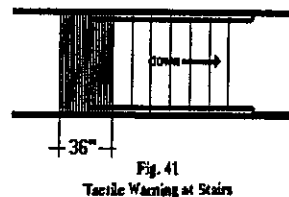


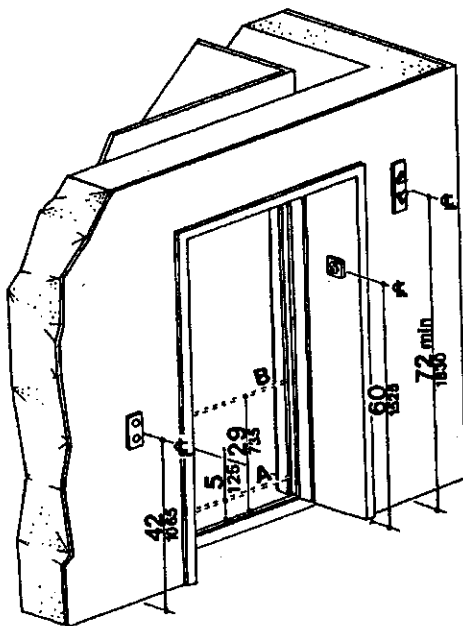
Fig. 40
Strips and Grooves used as Tactile Warnings on Walking Surfaces

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120-3-20-.21 Elevators.

(1) **General.** Accessible elevators shall be on an accessible route and shall comply with rule 120-3-20-.21 and with the ASME A17.1-1990, Safety Code for Elevators and Escalators. Freight elevators shall not be considered as meeting the requirements of this section unless the only elevators provided are used as combination passenger and freight elevators for the public and employees.

(2) **Automatic Operation.** Elevator operation shall be automatic. Each car shall be equipped with a self-leveling feature that will automatically bring the car to floor landings within a tolerance of $\frac{1}{2}$ inches (13 mm) under rated loading to zero loading conditions. This self-leveling feature shall be automatic and independent of the operating device and shall correct the over travel or under travel.



NOTE: The automatic door reopening device is activated if an object passes through either line A or line B. Line A and line B represent the vertical locations of the door reopening device not requiring contact.

Fig. 20
Hoistway and Elevator Entrances

(3) **Hall Call Buttons.** Call buttons in elevator lobbies and halls shall be centered at 42 inches (1065 mm) above the floor. Such call buttons shall have visual signals to indicate when each call is registered and when each call is answered. Call buttons shall be a minimum of $\frac{3}{4}$ inch (19 mm) in the smallest dimension. The button designating the up direction shall be on top. (See Fig. 20.) Buttons shall be raised or flush. Objects mounted beneath or placed in front of the hall call buttons shall not project into the elevator lobby more than 4 inches (100 mm).

(4) **Hall Lanterns.** A visible and audible signal shall be provided at each hoist way entrance to indicate which car is answering a call. Audible signals shall sound once for the up direction and twice for the down direction or shall have verbal annunciators that say "up" or "down."

Visible signals shall have the following features:

(a) Hall lantern fixtures shall be mounted so that their centerline is at least 72 inches (1830 mm) above the lobby floor. (See Fig. 20.)

(b) Visual elements shall be at least 2-1/2 inches (64 mm) in the smallest dimension.

(c) Signals shall be visible from the vicinity of the hall call button (see Fig. 20). In-car lanterns located in cars, visible from the vicinity of hall call buttons, and conforming to the above requirements, shall be acceptable.

(5) **Raised and Braille Characters on Hoist way Entrances.** All elevator hoist way entrances shall have raised and Braille floor designations provided on both jambs. The centerline of the characters shall be 60 inches (1525 mm) above finish floor. Such characters shall be 2 inches

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(50 mm) high and shall comply with rule 120-3-20-.41(4). Permanently applied plates are acceptable if they are permanently fixed to the jambs. (See Fig. 20).

(6) Door Protective and Reopening Device. Elevator doors shall open and close automatically. They shall be provided with a reopening device that will stop and reopen a car door and hoist way door automatically if the door becomes obstructed by an object or person. The device shall be capable of completing these operations without requiring contact for an obstruction passing through the opening at heights of 5 inches and 29 inches (125 mm and 735 mm) above finish floor (see Fig. 20). Door reopening devices shall remain effective at least 20 seconds.

Note: The required door reopening device would hold the door open for 20 seconds if the doorway remains obstructed. After 20 seconds, the door may begin to close. However, if designed in accordance with ASME A17.1-1990, the door closing movement could still be stopped if a person or object exerts sufficient force at any point on the door edge.

(7) Door and Signal Timing for Hall Calls. The minimum acceptable time from notification that a car is answering a call until the doors of that car start to close shall be calculated from the following equation:

$$T = D/(1.5 \text{ ft/s}) \text{ or } T = D/(445 \text{ mm/s})$$

where **T** total time in seconds and **D** distance (in feet or millimeters) from a point in the lobby or corridor 60 inches (1525 mm) directly in front of the farthest call button controlling that car to the

centerline of its hoist way door (see Fig. 21). For cars with in-car lanterns, **T** begins when the lantern is visible from the vicinity of hall call buttons and an audible signal is sounded. The minimum acceptable notification time shall be 5 seconds.

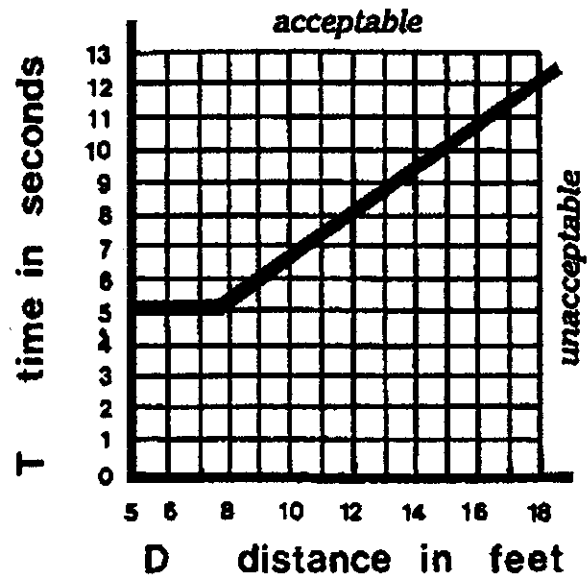


Fig. 21
Graph of Timing Equation

Note: This paragraph allows variation in the location of call buttons, advance time for warning signals, and the door-holding period used to meet the time requirement.

(8) Door Delay for Car Calls. The minimum time for elevator doors to remain fully open in response to a car call shall be 3 seconds.

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(9) **Floor Plan of Elevator Cars.** The floor area of elevator cars shall provide space for wheelchair users to enter the car, maneuver within reach of controls, and exit from the car. Acceptable door opening and inside dimensions shall be as shown in Fig. 22. The clearance between the car platform sill and the edge of any hoist way landing shall be no greater than 1-1/4 inches (32 mm).

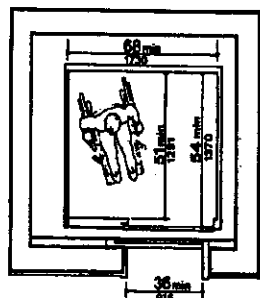
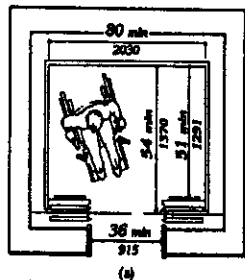


Fig. 22
Minimum Dimensions of Elevator Cars

(10) **Floor Surfaces.** Floor surfaces shall comply with 120-3-20-.16.

(11) **Illumination Levels.** The level of illumination at the car controls, platform, and car threshold and landing sills shall be at least 5 foot candles (53.8 lux).

(12) **Car Controls.**

Elevator control panels shall have the following features:

(a) **Buttons.** All control buttons shall be at least **3/4 inch** (19 mm) in their smallest dimension. They shall be raised or flush.

(b) **Tactile, Braille, and Visual Control Indicators.** All control buttons shall be designated by Braille and by raised standard alphabet characters for letters, Arabic characters for numerals, or standard symbols as shown in Fig. 23(a), and as required in

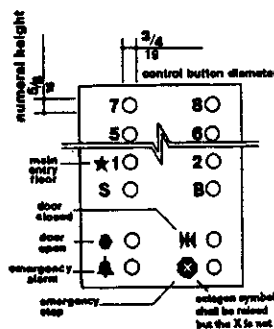
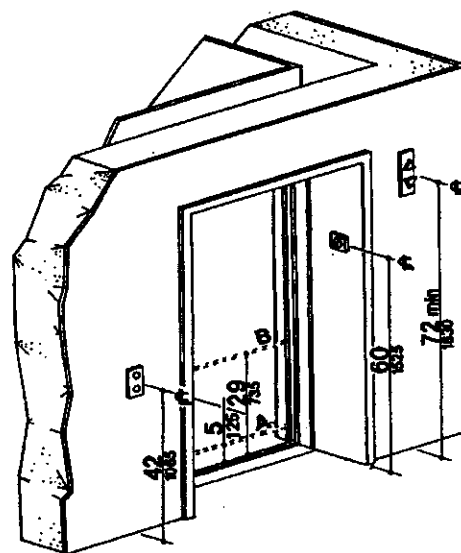


Fig. 23 (a)
Panel Detail



NOTE: The automatic door reopening device is activated if an object passes through either line A or line B. Line A and line B represent the vertical locations of the door reopening device not requiring contact.

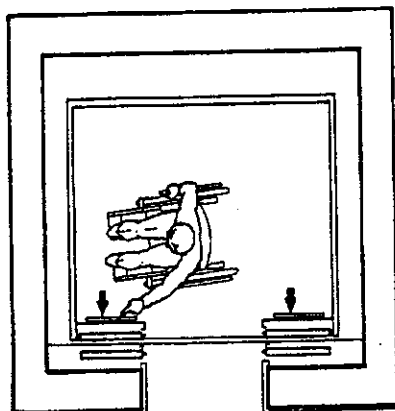
Fig. 20
Hoistway and Elevator Entrances

ASME A17.1-1990. Raised and Braille characters and symbols shall comply with 120-3-20-.41. The call button for the main entry floor shall be designated by a raised star at the left of the floor designation (see Fig. 23(a)). All raised designations for control buttons shall be placed immediately to the left of the button to which they apply. Applied plates, permanently attached, are an acceptable means to provide raised control designations. Floor buttons shall be provided with visual indicators to show when each call is registered. The visual indicators shall be extinguished when each call is answered.

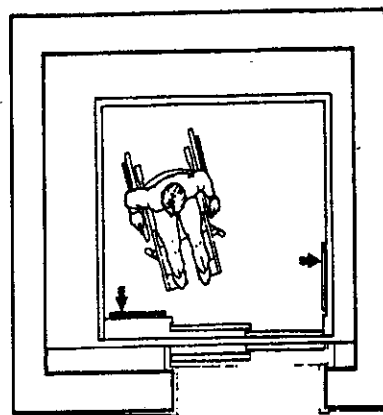
(c) **Height.** All floor buttons shall be no higher than **54 inches** (1370 mm) above the finish floor for side approach and **48 inches** (1220 mm) for front approach. Emergency controls, including the emergency alarm and emergency stop, shall be grouped at the bottom of the panel and shall have their center lines no less than 35 inches (890 mm) above the finish floor (see Fig. 23(a) and (b)).

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(d) Location. Controls shall be located on a front wall if the cars have center opening doors, and at the side wall or at the front wall next to the door if cars have side opening doors (see Fig. 23(c) and (d)).



(c)
Alternate Locations of Panel
with Center Opening Door



(d)
Alternate Locations of Panel
with Side Opening Door

Fig. 23

Note: Industry-wide standardization of elevator control panel design would make all elevators significantly more convenient for use by people with severe visual impairments. In many cases, it will be possible to locate the highest control on elevator panels within 48 inches (1220 mm) from the floor.

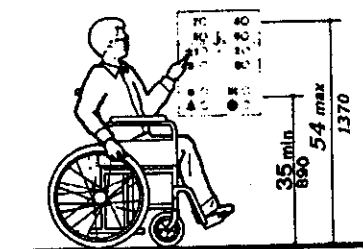


Fig. 23 (b)
Car Control Height

(13) **Car Position Indicators.** In elevator cars, a visual car position indicator shall be provided above the car control panel or over the door to

show the position of the elevator in the hoist way. As the car passes or stops at a floor served by the elevators, the corresponding numerals shall illuminate, and an audible signal shall sound. Numerals shall be a minimum of ½ inch (13 mm)

high. The audible signal shall be no less than 20 decibels with a frequency no higher than 1500 Hz. An automatic verbal announcement of the floor number at which a car stops or which a car passes may be substituted for the audible signal.

Note: A special button may be provided that would activate the audible signal within the given elevator only

for the desired trip, rather than maintaining the audible signal in constant operation.

(14) **Emergency Communications.** If provided, emergency two-way communication systems between the elevator and a point outside the hoist way shall comply with ASME A17.1 - 1990. The highest operable part of a two-way communication system shall be a maximum of 48 inches (1220 mm) from the floor of the car. It shall be identified by a raised symbol and lettering complying with 120-3-20-.41 and located adjacent to the device. If the system uses a handset then the length of the cord from the panel to the handset shall be at least 29 inches (735 mm). If the system is located in a closed compartment, the compartment door hardware shall conform to rule 120-3-20-.38, Controls and Operating Mechanisms. The emergency intercommunication system shall not require voice communication.

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Note: A device that requires no handset is easier to use by people who have difficulty reaching. Also, small handles on handset compartment doors are not usable by people who have difficulty grasping.

Ideally, emergency two-way communication systems should provide both voice and visual display intercommunication so that persons with hearing impairments and persons with vision impairments can receive information regarding the status of a rescue. A voice intercommunication system cannot be the only means of communication because it is not accessible to people with speech and hearing impairments. While a voice intercommunication system is not required, at a minimum, the system should provide both an audio and visual indication that a rescue is on the way.

120-3-20-.22 Platform Lifts (Wheelchair Lifts).

(1) **Location.** Platform lifts (wheelchair lifts) permitted by rule 120-3-20-.03 shall comply with the requirements of rule 120-3-20-.22.

(2) **Other Requirements.** If platform lifts (wheelchair lifts) are used, they shall comply with rules 120-3-20-13(4), 120-3-20-.16(5), 120-3-20-.38(7), and ASME A17.1 Safety Code for Elevators and Escalators, Section XX, 1990.

Note: Inclined stairway chair lifts, and inclined and vertical

platform lifts (wheelchair lifts) are available for short-distance, vertical transportation of people with disabilities. Care should be taken in selecting lifts as some lifts are not equally suitable for use by both wheelchair users and semi-ambulatory individuals.

(3) **Entrance.** If platform lifts are used then they shall facilitate unassisted entry, operation, and exit from the lift in compliance with rule 120-3-20-.22(2).

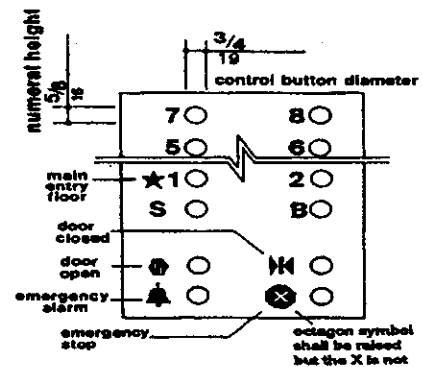
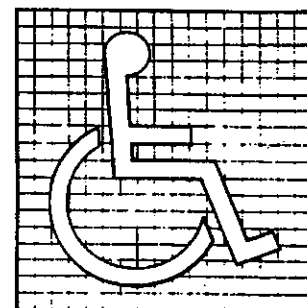


Fig. 23 (a)
Panel Detail



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120-3-20-.23 Windows.

(1) **General.** Windows intended to be operated by occupants in accessible spaces shall comply with rule 120-3-20-.23.

(2) **Window Hardware.** Windows requiring pushing, pulling, or lifting to open (for example, double-hung, sliding, or casement and awning units without cranks) shall **require no more than 5 lbf (22.2 N)** to open or close. Locks, cranks, and other window hardware should comply with rule 120-3-20-.38.

120-3-20-.24 Doors.

(1) **General.** Doors required to be accessible by rule 120-3-20-.03 shall comply with the requirements of rule 120-3-20-.24.

(2) **Revolving Doors and Turnstiles.** Revolving doors or turnstiles shall not be the only means of passage at an accessible entrance or along an accessible route. An accessible gate or door shall be provided adjacent to the turnstile or revolving door and shall be so designed as to facilitate the same use pattern.

(3) **Gates.** Gates, including ticket gates, shall meet all applicable specifications of rule 120-3-20-.23.

(4) **Double-Leaf Doorways.** If doorways have two independently operated door leaves, then at least one leaf shall meet the specifications in rule 120-3-20-.24(5) and rule 120-3-20-.24(6). That leaf shall be an active leaf.

(5) **Clear Width.** Doorways shall have a minimum clear opening of 32

inches (815 mm) with the door open 90 degrees, measured between the face of the door and the opposite stop (see Fig. 24(a), (b), (c), and (d)). Openings more than 24 inches (610 mm) in depth shall comply with rule 120-3-20-.13(1) and rule 120-3-20-.14(3) (see Fig. 24(e)).

EXCEPTION: Doors **not requiring** full user passage, such as shallow closets, may have the clear opening reduced to 20 inches (510 mm) minimum.

(6) **Maneuvering Clearances at Doors.** Minimum maneuvering clearances at doors that **are not automatic or power-assisted** shall be as shown in Fig. 25. The floor or ground area within the required clearances shall be level and clear.

NOTE: The exception for entry doors to acute care hospital bedroom doors has been deleted because increasing the size of the door does not change its dynamics and the State of Georgia requires all rooms to be accessible.

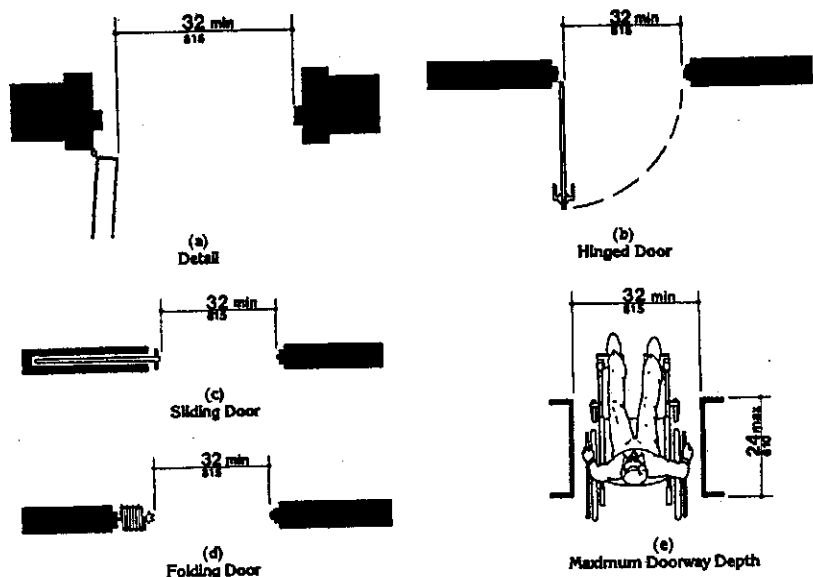


Fig. 24
Clear Doorway Width and Depth

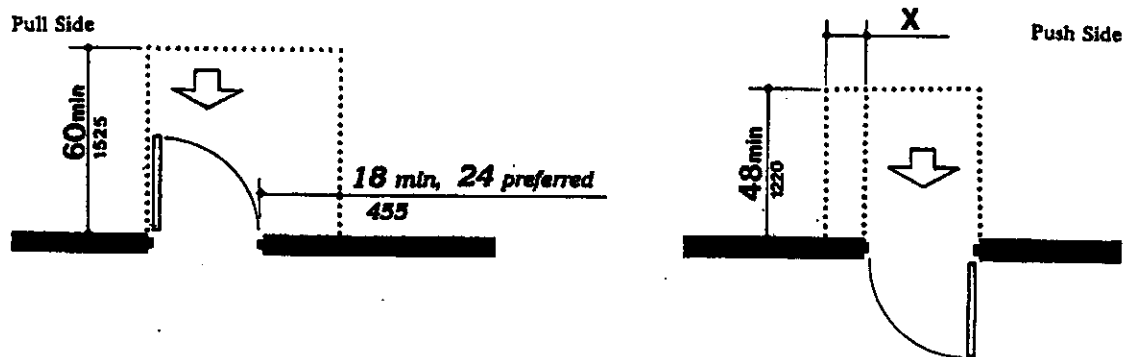


Fig. 25 (a)

Front Approaches — Swinging Doors

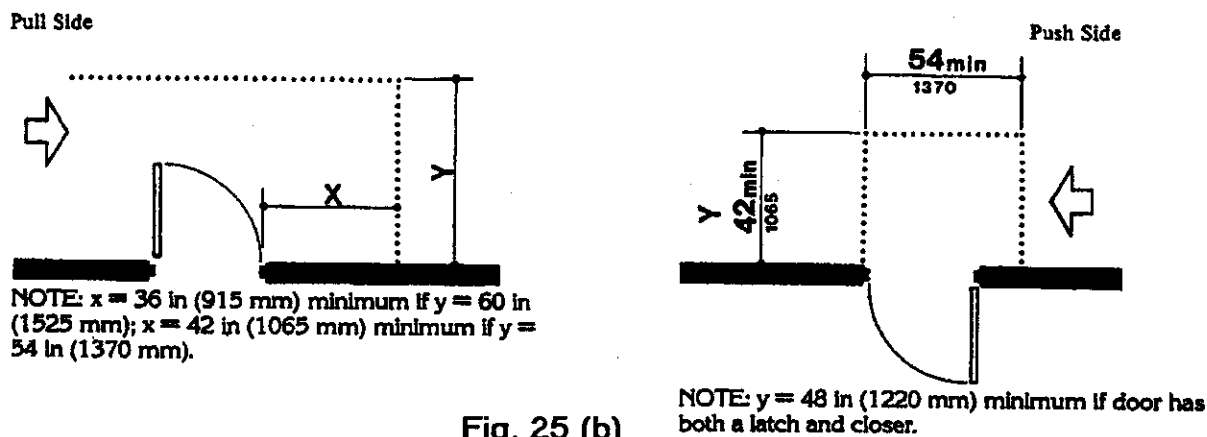


Fig. 25 (b)

Hinge Side Approaches — Swinging Doors

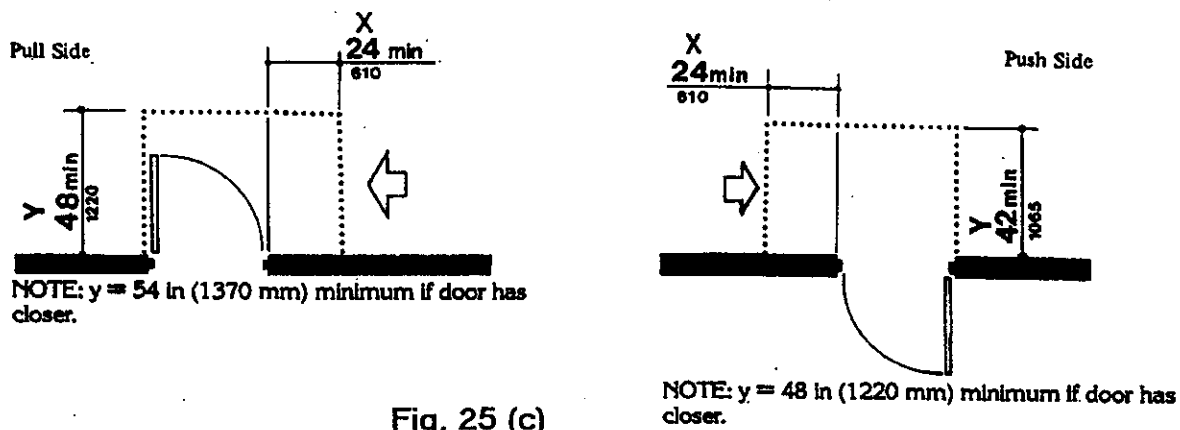
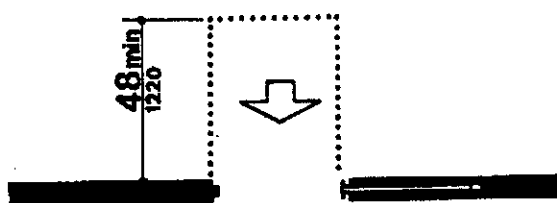


Fig. 25 (c)

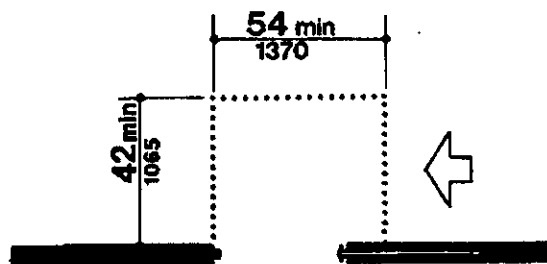
Latch Side Approaches — Swinging Doors

NOTE: All doors in alcoves shall comply with the clearances for front approaches.

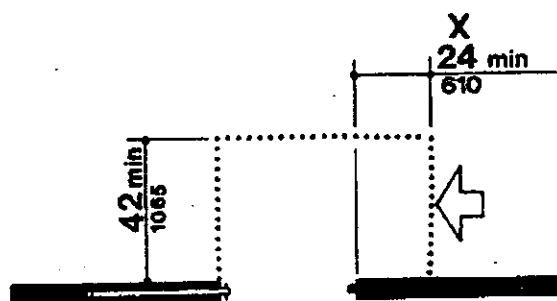
Fig. 25



(d)
Front Approach — Sliding Doors
and Folding Doors



(e)
Side Side Approach — Sliding Doors
and Folding Doors



(f)
Latch Side Approach — Sliding Doors and Folding Doors

NOTE: All doors in alcoves shall comply with the clearances for front approaches.

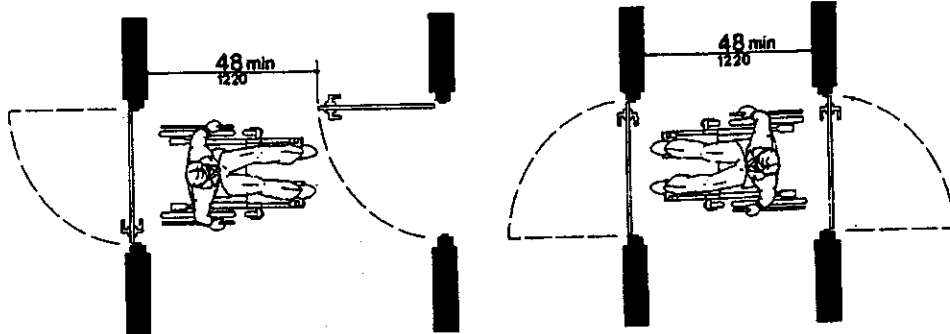


Fig. 26
Two Hinged Doors in Series

(7) Two Doors in Series. The minimum space between two hinged or pivoted doors in series shall be **48 inches (1220 mm)** plus the width of any door swinging into the space. Doors in series shall swing either in the same direction or away from the space between the doors (see Fig. 26).

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(8) Thresholds at Doorways. Thresholds at doorways shall not exceed **3/4 inches** (19 mm) in height for exterior sliding doors or **1/2 inches** (13 mm) for other types of doors. Raised thresholds and floor level changes at accessible doorways shall be beveled with a slope no greater than 1:2 (see rule 120-3-20-.16(2)).

Note: Thresholds and surface height changes in doorways are particularly inconvenient for wheelchair users who also have low stamina or restrictions in arm movement because complex maneuvering is required to get over the level change while operating the door.

(9) Door Hardware. Handles, pulls, latches, locks, and other operating devices on accessible doors shall have a shape that is easy to grasp with one hand and does not require tight grasping, tight pinching, or twisting of the wrist to operate. Lever-operated mechanisms, push-type mechanisms, and U-shaped handles are acceptable designs. When sliding doors are fully open, operating hardware shall be exposed and usable from both sides. Hardware required for accessible door passage shall be mounted no higher than **48 inches** (1220 mm) above finished floor.

Note: Some disabled persons must push against a door with their chair or walker to open it. Applied kick plates on doors with closer can reduce required maintenance by withstanding abuse from wheelchairs and canes. To be effective, they should cover the door width, less approximately 2 inches (51 mm),

up to a height of 16 inches (405 mm) from its bottom edge and be centered across the width of the door.

(10) Door Closer. If a door has a closer, then the sweep period of the closer shall be adjusted so that from an open position of 70 degrees, the door will take at least 3 seconds to move to a point 3 inches (75 mm) from the latch, measured to the leading edge of the door.

Note: Closer with delayed action features give a individual more time to maneuver through doorways. They are particularly useful on frequently used interior doors such as entrances to toilet rooms.

(11) Door Opening Force. The maximum force for pushing or pulling open a door shall be as follows:

(a) Fire doors shall have the minimum opening force allowable by the National Fire Protection Association, NFPA 80 Fire Doors and Windows.

(b) Other doors:

- (1) Exterior hinged doors: 8.5 lbs. (37.9N)**
- (2) Interior hinged doors: 5 lbfs (22.2N)**
- (3) Sliding / folding doors: 5 lbfs (22.2N)**

These forces do not apply to the force required to retract latch bolts or disengage other devices that may hold the door a closed position.

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Note: Although most people with disabilities can exert at least 5 lbf (22.2N), both pushing and pulling from a stationary position, a few people with severe disabilities cannot exert 3 lbf (13.13N). Although some people cannot manage the allowable forces in this guideline and many others have difficulty, door closer must have certain minimum closing forces to close doors satisfactorily. Forces for pushing or pulling doors open are measured with a push-pull scale under the following conditions:

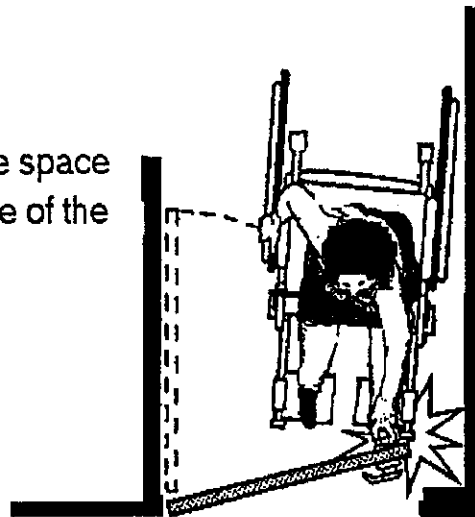
(1) Hinged doors: Force applied perpendicular to the door at the door opener or 30 inches (760 mm) from the hinged side, whichever is farther from the hinge.

(2) Sliding or folding doors: Force applied parallel to the door at the door pull or latch.

(3) Application of force: Apply force gradually so that the applied force does not exceed the resistance of the door. In high-rise buildings, air-pressure differentials may require a modification of this specification in order to meet the functional intent.

(12) **Automatic Doors and Power-Assisted Doors.** If an automatic door is used, then it shall

Inadequate space
to the side of the
door.



Maneuvering Clearances at Doors

comply with ANSI/BHMA A156.10-1985. Slowly opening, low-powered, automatic doors shall comply with ANSI A156.19-1984. Such doors shall not open to back check faster than 3 seconds and shall require no more than 15 lbf (66.6N) to stop door movement. If a power-assisted door is used, its door-opening force shall comply with rule 120-3-20-.24(11) and its closing shall conform to the requirements in ANSI A156.19-1984.

Note: Sliding automatic doors do not need guard rails and are more convenient for wheelchair users and visually impaired people to use. If slowly opening automatic doors can be reactivated before their closing cycle is completed, they will be more convenient in busy doorways.

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120-3-20-.25 Entrances.

(1) **Minimum Number.** Entrances required to be accessible by rule 120-3-20-.03 shall be part of an accessible route complying with rule 120-3-20-.14. Such entrances shall be connected by an accessible route to public transportation stops, to accessible parking and passenger loading zones, and to public streets or sidewalks if available (see rule 120-3-20-.14.(2)(1)). They shall also be connected by an accessible route to all accessible spaces or elements within the building or facility.

(2) **Service Entrances.** A service entrance shall not be the sole accessible entrance unless it is the only entrance to a building or facility (for example, in a factory or garage).

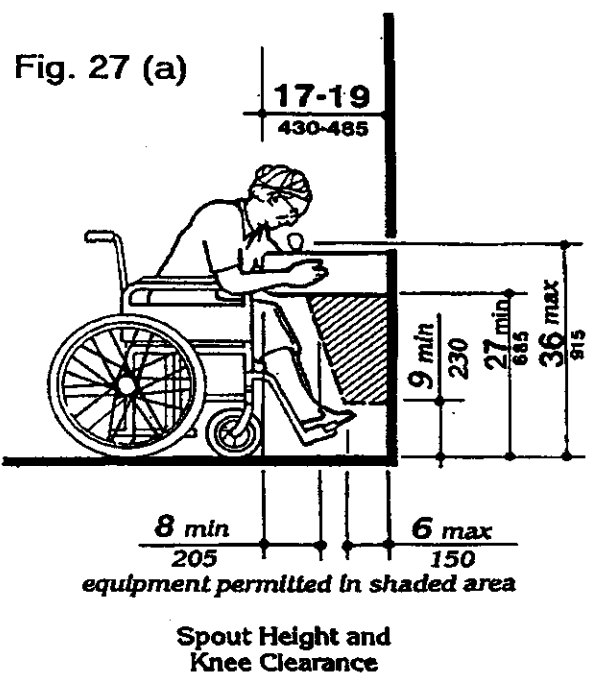
120-3-20-.26 Drinking Fountains and Water Coolers.

(1) **Minimum Number.** Drinking fountains or water coolers required to be accessible by rule 120-3-20-.03 shall comply with rule 120-3-20-.26.

(2) **Spout Height.** Spouts shall be no higher than 36 inches (915 mm), measured from the floor or ground surfaces to the spout outlet (see Fig. 27(a)).

Note: Two drinking fountains, mounted side by side or on a single post, are usable by people with disabilities and people who find it difficult to bend over.

(3) **Spout Location.** The spouts of drinking fountains and water coolers shall be at the front of the unit and shall direct the water flow in a trajectory that is parallel or nearly parallel to the



front of the unit. The spout shall provide a flow of water at least 4 inches (100 mm) high so as to allow the insertion of a cup or glass under the flow of water. On an accessible drinking fountain with a round or oval bowl, the spout must be positioned so the flow of water is within 3 inches (75 mm) of the front edge of the fountain.

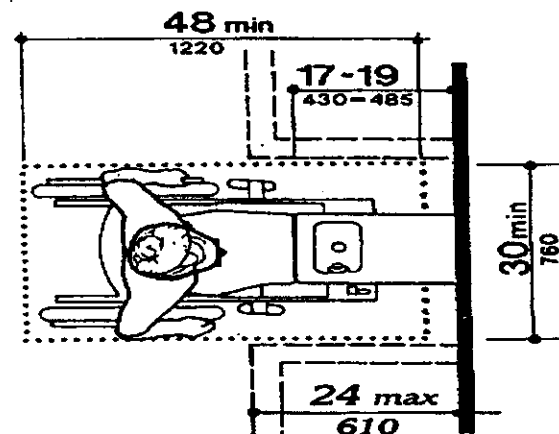


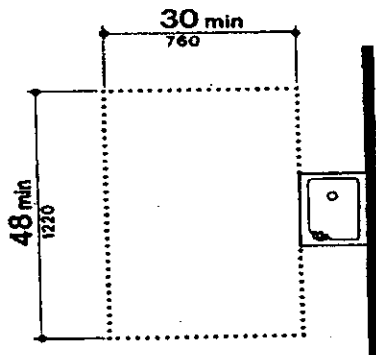
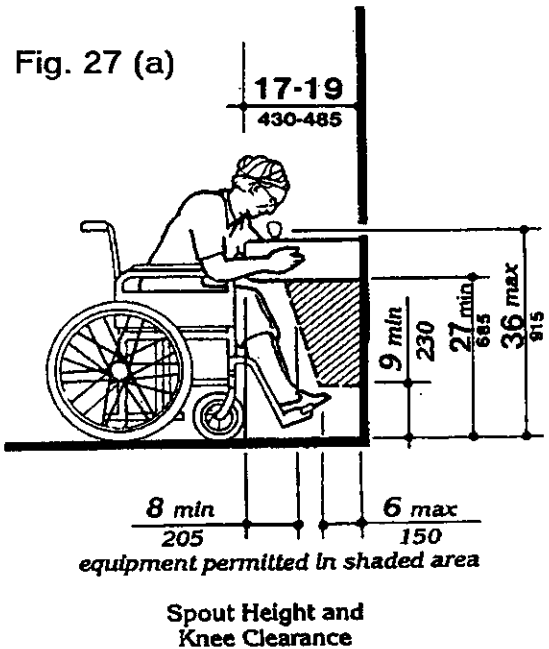
Fig. 27 (b)
Clear Floor Space

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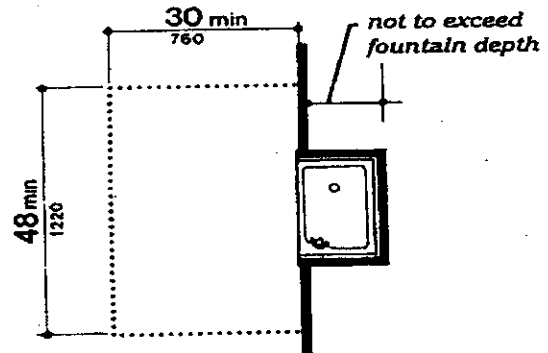
(4) **Controls.** Controls shall comply with rule 120-3-20-.38(4). Unit controls shall be front mounted or side mounted near the front edge.

(5) **Clearances.**(a) Wall mounted and post mounted cantilevered units shall have a clear knee space between the bottom of the apron and the floor or ground at least 27 inches (685 mm) high, 30 inches (760 mm) wide, and 17 inches to 19 inches (430 mm to 485 mm) deep (see Fig. 27(a) and (b)). Such units shall also have a minimum clear floor space 30 inches by 48 inches (760 mm by 1220 mm) to allow a person in a wheelchair to approach the unit facing forward.

(b) Free standing or built-in units not having a clear space under them shall have a clear floor space at least 30 inches by 48 inches (760 mm by 1220 mm) that allows a person in a wheelchair to make a parallel approach to the unit (see Fig. 27(c) and (d)). This clear floor space shall comply with 120-3-20-.13(4).



Free-Standing Fountain or Cooler



(d) Built-In Fountain or Cooler

Fig. 27
Drinking Fountains and Water Coolers

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120-3-20-.27 Water Closets.

(1) **General.** Accessible water closets shall comply with rule 120-3-20-.27.

(2) **Clear Floor Space.** Clear floor space for water closets *not in stalls* shall comply with Fig. 28. Clear floor space may be arranged to allow either a left-handed or right-handed approach.

Seats shall not be sprung to return to a lifted position.

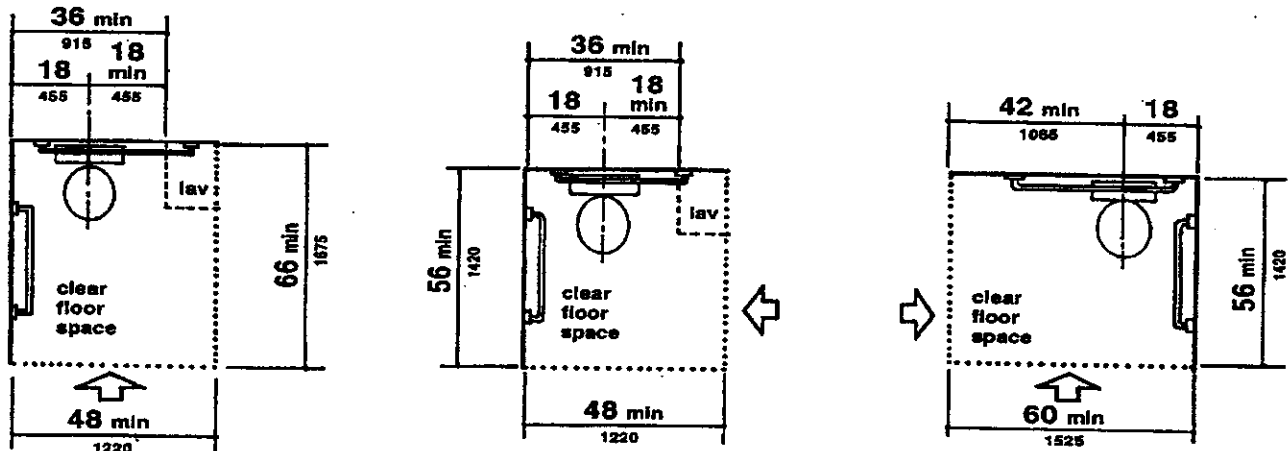


Fig. 28
Clear Floor Space at Water Closets

(3) **Height.** The height of water closets shall be 17 inches to 19 inches (430 mm to 485 mm), measured to the top of the toilet seat (see Fig. 29(b)).

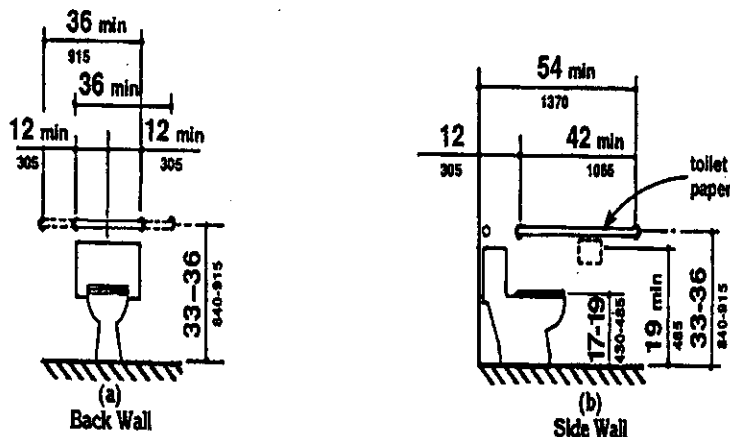
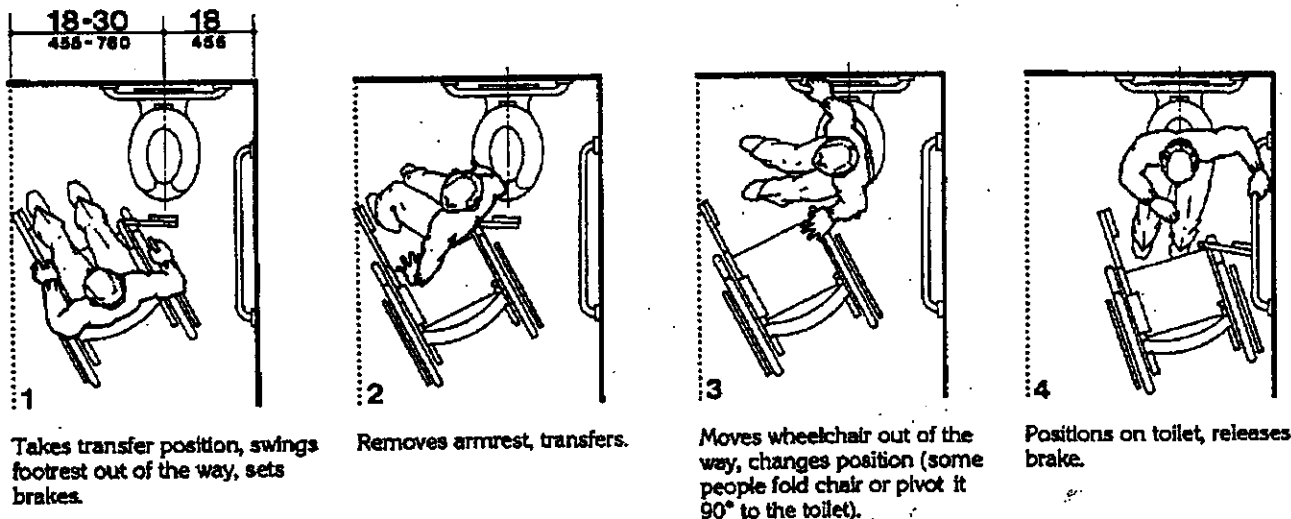


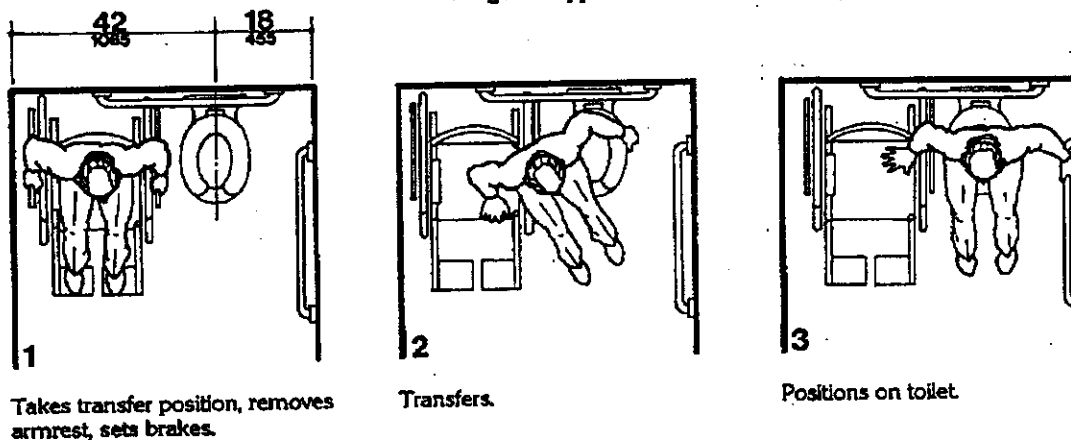
Fig. 29
Grab Bars at Water Closets

Note: Height preferences for toilet seats vary considerably among disabled people. Higher seat heights may be an advantage to some ambulatory disabled people, but are often a disadvantage for wheelchair users and others. Toilet seats 18 inches (455 mm) high seem to be a reasonable compromise. Thick seats and filler rings are available to adapt standard fixtures to these requirements.

(4) **Grab Bars.** Grab bars for water closets not located in stalls shall comply with rule 120-3-20-.37 and Fig. 29. *The grab bar behind the water closet shall be 36 inches (915 mm) minimum.*



(a)
Diagonal Approach



(b)
Side Approach

Fig. A6
Wheelchair Transfers

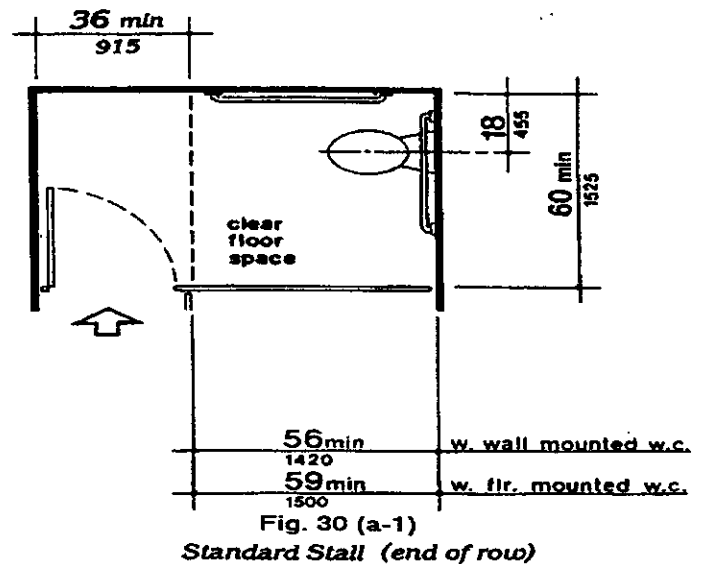
Note: Fig. A6(a) and (b) show the diagonal and side approaches most commonly used to transfer from a wheelchair to a water closet. Some wheelchair users can transfer from the front of the toilet while others use a 90-degree approach. Most people who use the two additional approaches can also use

either the diagonal approach or the side approach.

(5) Flush Controls. Flush controls shall be hand operated or *automatic* and shall comply with 120-3-20-.38(4). Controls for flush valves shall be mounted on the *wide side of toilet areas* no more than 44 inches (1120 mm) above the floor.

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Note: Flush valves and related plumbing can be located behind walls or to the side of the toilet, or a toilet seat lid can be provided if plumbing fittings are directly behind the toilet seat. Such designs reduce the chance of injury and imbalance caused by leaning back against the fittings. Flush controls for tank-type toilets have a standardized mounting location on the left side of the tank (facing the tank). Tanks can be obtained by special order with controls mounted on the right side. If administrative authorities require flush controls for flush valves to be located in a position that conflicts with the location of the rear grab bar, then that bar may be split or shifted toward the wide side of the toilet area.



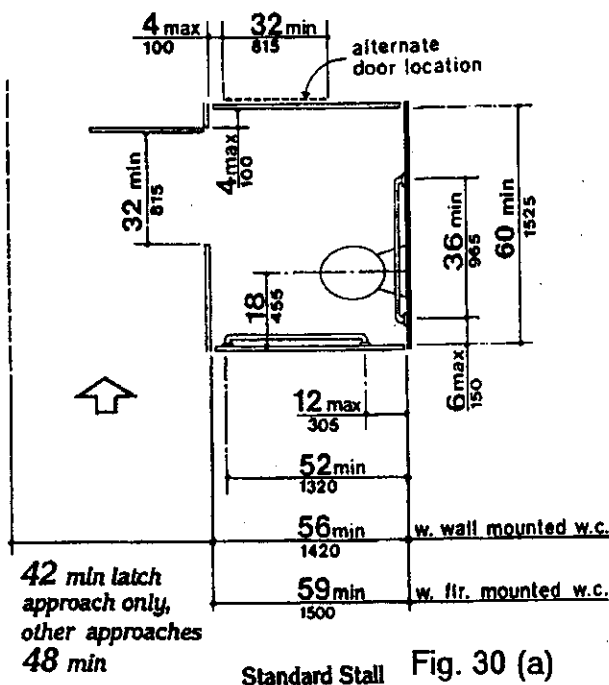
(6) **Dispensers.** Toilet paper dispensers shall be installed within reach, as shown in Fig. 29(b). *Dispensers that control delivery, or that do not permit continuous paper flow, shall not be used.*

120-3-20-.28 Toilet Stalls.

(1) **Location.** Accessible toilet stalls shall be on an accessible route and shall meet the requirements of rule 120-3-20-.28.

(2) **Water Closets.** Water closets in accessible stalls shall comply with rule 120-3-20-.27.

(3) **Size and Arrangement.** The size and arrangement of the **standard toilet stall shall comply with Fig. 30(a), Standard Stall.** Standard toilet stalls with a minimum depth of 56 inches (1420 mm) (see Fig. 30(a)) shall have wall-mounted water closets. If the depth of a standard toilet stall is increased at least 3 inches (75 mm), then a floor-mounted water closet may be used. Arrangements shown for standard toilet stalls may be reversed to allow either a left- or right-hand approach. Additional stalls shall be provided in conformance with rule 102-3-20-.33(4).



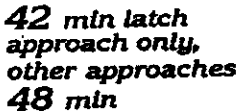


Fig. 30 (b)
Alternate Stalls

EXCEPTION: In instances of alteration work where provision of a standard stall (Fig. 30(a)) is technically infeasible or where plumbing code requirements prevent combining existing stalls to provide space, either alternate stall (Fig. 30(b)) may be provided in lieu of the standard stall.

Note: This section requires use of the 60 inches (1525 mm) standard stall (Figure 30(a)) and permits the 36 inches (915 mm) or 48 inches (1220 mm) wide alternate stall (Figure 30(b)) only in alterations where provision of the standard stall is technically infeasible or where local plumbing codes prohibit

reduction in the number of fixtures. A standard stall provides a clear space on one side of the water closet to enable persons who use wheelchairs to perform a side or diagonal transfer from the wheelchair to the water closet. However, some persons with disabilities who use mobility aids such as walkers, canes or crutches are better able to use the two parallel grab bars in the 36 inches (915 mm) wide alternate stall to achieve a standing position.

In large toilet rooms, where six or more toilet stalls are provided, it is therefore required that a 36 inches (915 mm) wide stall with parallel grab bars be provided in addition to the standard stall required in new construction. The 36 inches (915 mm) width is necessary to achieve proper use of the grab bars; wider stalls would position the grab bars too far apart to be easily used and narrower stalls would position the grab bars too close to the water closet. Since the stall is primarily intended for use by persons using canes, crutches and walkers, rather than wheelchairs, the length of the stall could be conventional. The door, however, must swing outward to ensure a usable space for people who use crutches or walkers.

(4) Toe Clearances. In standard stalls, the front partition and at least one side partition shall provide a toe clearance of at least 9 inches (230 mm) above the floor. If the depth of the stall is greater than 60 inches (1525 mm), then the toe clearance is not required.

Fig. 30 (c)
Rear Wall of Standard Stall

Technical drawing of a toilet stall showing dimensions for a standard and an alternate configuration.

Standard Configuration (Left):

- Top clearance: 12 max (305)
- Side clearance: 36 max (915)
- Bottom clearance: 33-36 (840-915)
- Door swing clearance: 17-19 (430-485)
- Minimum height: 19 min (485)

Alternate Configuration (Right):

- Top clearance: 40 [42] min (1015 [1065])
- Side clearance: 36 max (915)
- Door swing clearance: 17-19 (430-485)
- Minimum height: 19 min (485)

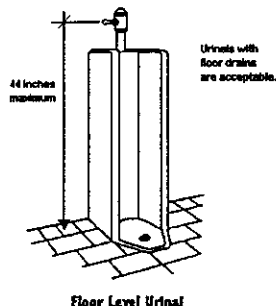
Labels include "alternate" pointing to the right side and "toilet paper" pointing to a dashed box indicating the location of a toilet paper roll.

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120-3-20-.29 Urinals.

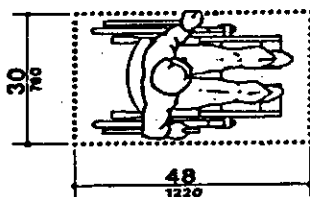
(1) **General.** Any toilet or bathing room provided with urinals must have **at least one** that complies with rule 120-3-20-.29.



(2) **Height.** Urinals shall be stall-type or wall-hung with an elongated rim at a maximum of **17 inches** (430 mm) above the finish floor and extend at least **14 inches** from the back wall to the rim's front edge.

(3) Clear Floor Space.

A clear floor space 30 inches by 48 inches (760 mm by 1220 mm) shall be provided in front of urinals to allow forward approach. This clear space shall adjoin or overlap an accessible route and shall comply with rule 120-3-20-.13. Urinal shields that do not extend beyond the front edge of the urinal rim may be provided with 29 inch (735 mm) clearance between them.



(4) **Flush Controls.** Flush controls shall be hand operated or automatic, and shall comply with rule 120-3-20-.38(4), and shall be mounted no more than 44 inch (1120 mm) above the finish floor.

Elongated urinals must project at least 14 inches to be usable.

If wall-mounted urinals are used, an elongated one is required.

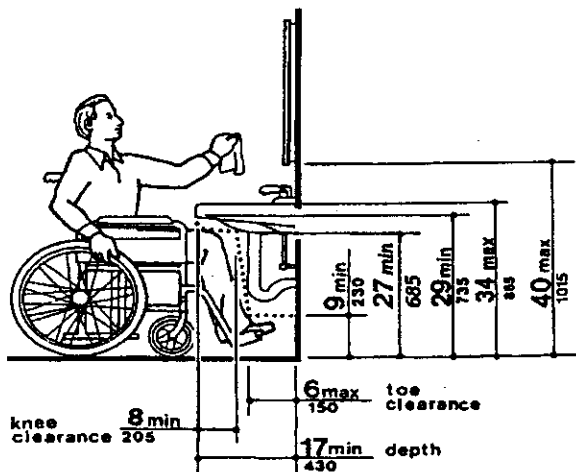
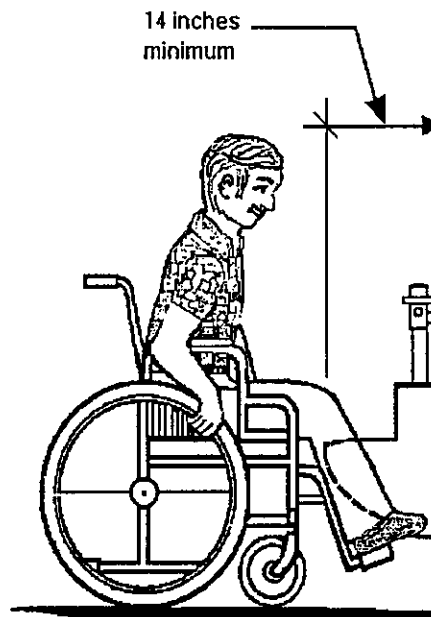


Fig. 31
Lavatory Clearances

120-3-20-.30

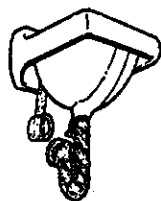
Lavatories and Mirrors.

(1) **General.** The requirements of rule 120-3-20-.30 shall apply to lavatory fixtures, vanities, and built-in lavatories.

(2) **Height and Clearances.** Lavatories shall be mounted with the rim or counter surface no higher than 34 inches (865 mm) above the finish floor. Provide a clearance of at least 29 inches (735 mm) above the finish floor to the bottom of the apron. Knee and toe clearance shall comply with Fig. 31.

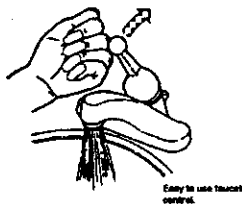
GA ACCESSIBILITY CODE

(3) Clear Floor Space. A clear floor space 30 inches by 48 inches (760 mm by 1220 mm) complying with rule 120-3-20-13 shall be provided in front of a lavatory to allow forward approach. Such clear floor space shall adjoin or overlap an accessible route and shall extend a maximum of 19 inches (485 mm) underneath the lavatory (see Fig. 32).



Insulation wrap on the hot water supply and drain pipes.

(4) Exposed Pipes and Surfaces. Hot water and drain pipes under lavatories shall be insulated or otherwise configured to protect against contact. There shall be no sharp or abrasive surfaces under lavatories.



(5) Faucets. Faucets shall comply with rule 120-3-20-38(4). Lever-operated, push-type, and electronically controlled mechanisms are examples of acceptable designs. If self-closing valves are used the faucet shall remain open for at least 10 seconds.

(6) Mirrors. Mirrors shall be mounted with the bottom edge of the reflecting surface no higher than 40 inches (1015 mm) above the finish floor (see Fig. 31).

Note: If mirrors are to be used by both ambulatory people and wheelchair users, then they must be at least 74 inches (1880 mm) high at their topmost edge. A single full length mirror can accommodate all people, including children.

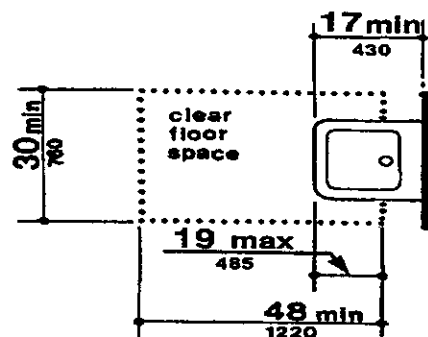
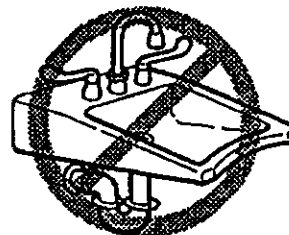


Fig. 32
Clear Floor Space at Lavatories



Installation of "Handicapped" Lavatory is discouraged.

Standard fixtures installed at the required dimensions work best.

Standard sink and lavatories are recommended.

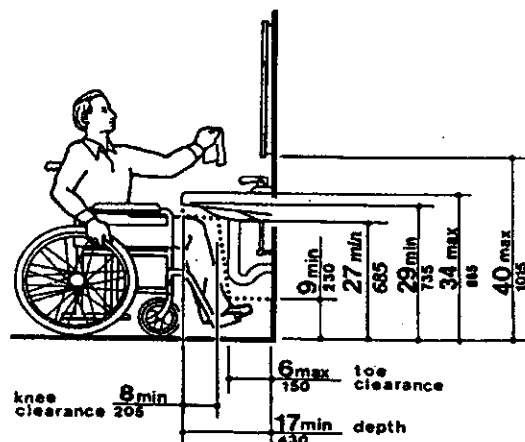


Fig. 31
Lavatory Clearances

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120-3-20-.31 Bathtubs.

(1) **General.** Accessible bathtubs shall comply with rule 120-3-20-.31.

(2) **Floor Space.** Clear floor space in front of bathtubs shall be as shown in Fig. 33.

(3) **Seat.** An in-tub seat or a seat at the head end of the tub shall be provided as shown in Fig. 33 and 34. The structural strength of seats and their attachments shall comply with rule 120-3-20-.37(3). Seats shall be mounted securely and shall not slip during use.

(4) **Grab Bars.** Grab bars complying with rule 120-3-20-.37 shall be provided as shown in Fig. 33 and 34.

(5) **Controls.** Faucets and other controls complying with rule 120-3-20-.38(4) shall be located as shown in Fig. 34.

(6) **Shower Unit.** A shower spray unit with a hose at least **60 inches** (1525 mm) long that can be used both as a fixed shower head and as a hand-held shower shall be provided.

(7) **Bathtub Enclosures.** If provided, enclosures for bathtubs shall not obstruct controls or transfer from wheelchairs onto bathtub seats or into tubs. Enclosures on bathtubs shall not have tracks mounted on their rims.

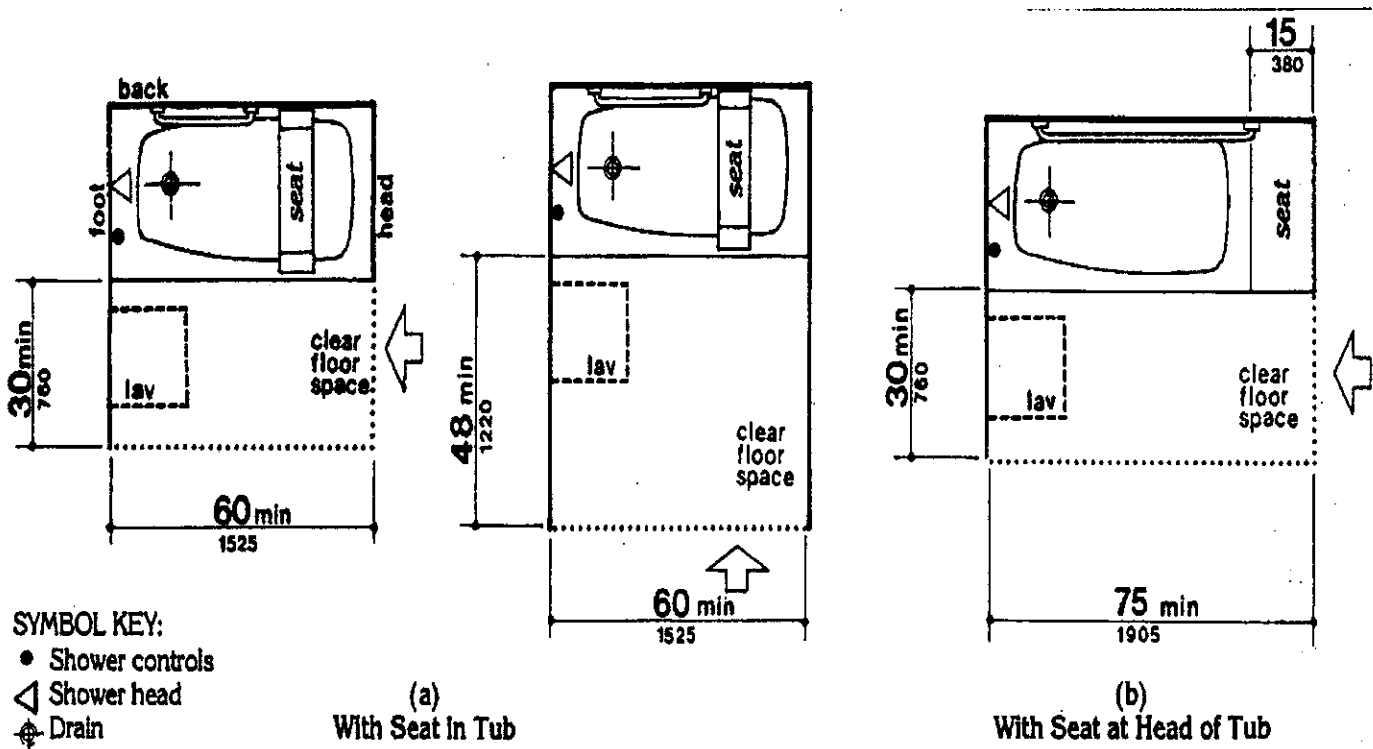
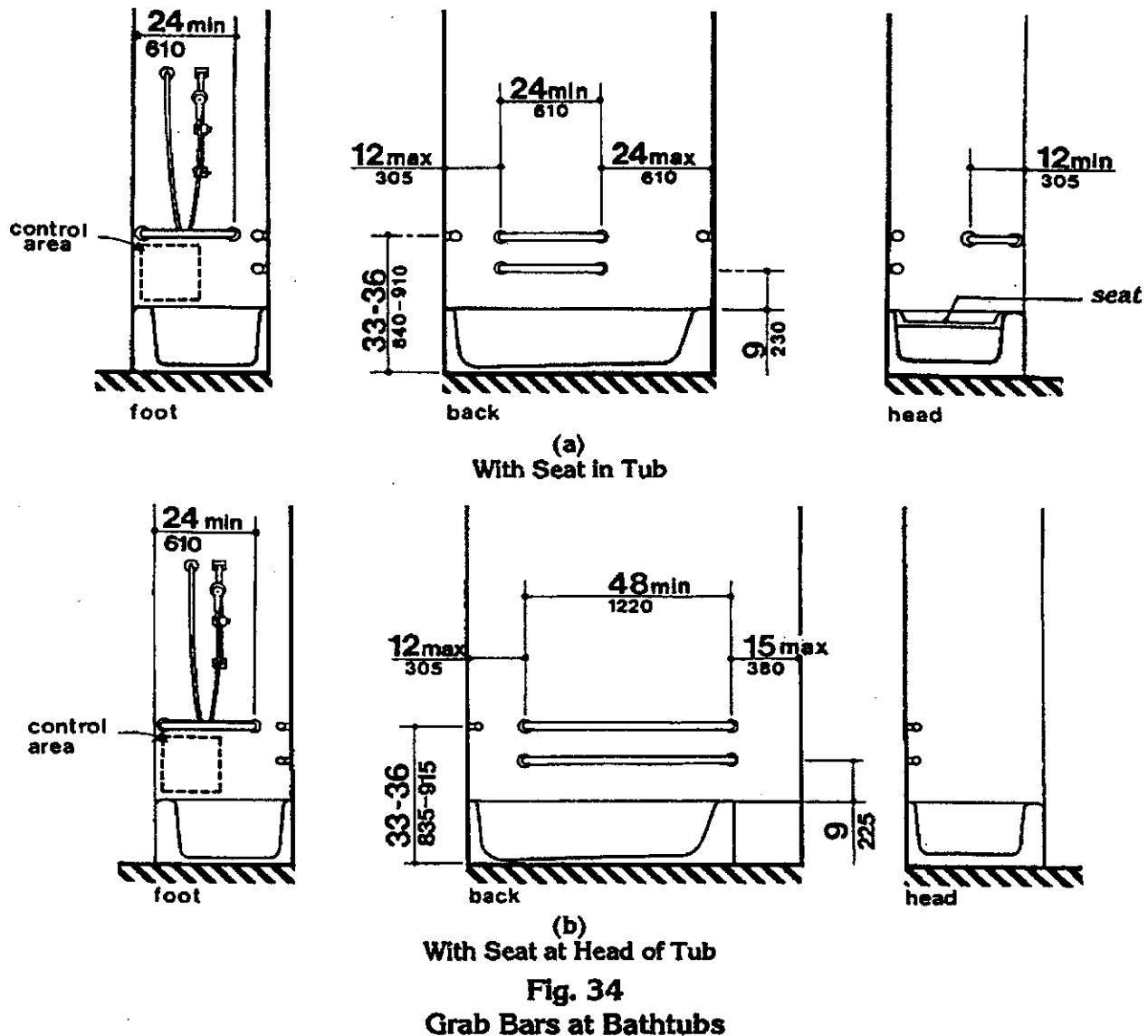


Fig. 33
Clear Floor Space at Bathtubs



120-3-20-.32 Shower Stalls.

(1) **General.** Accessible shower stalls shall comply with rule 120-3-20-.32.

Note: Shower stalls that are 36 inches by 36 inches (915 mm by 915 mm) wide provide additional safety to people who have difficulty maintaining balance because all grab bars and walls are

within easy reach. Seated people use the walls of 36 inches by 36 inches (915 mm by 915 mm) showers for back support. Shower stalls that are 60 inches (1525 mm) wide and have no curb may increase usability of a bathroom by wheelchair users because the shower area provides additional maneuvering space.

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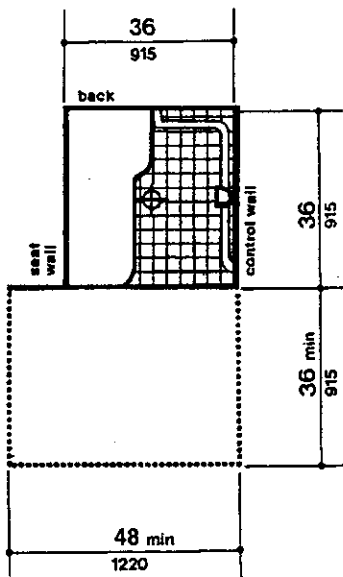


Fig. 35 (a)

36-In by 36-In
(915-mm by 915-mm) Stall

(2) **Size and Clearances.** Except as specified in rule 120-3-20-.51(2), shower stall size and clear floor space shall comply with Fig. 35(a) or (b). The shower stall in Fig. 35(a) shall be 36 inches by 36 inches (915 mm by 915 mm). Shower stalls required by rule 120-3-20-.51(2) shall comply with Fig. 57(a) or (b). The shower stall in Fig. 35(b) will fit into the space required for a bathtub.

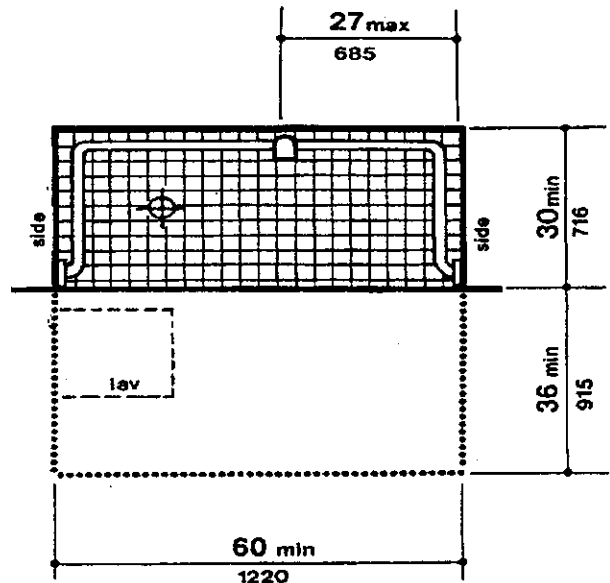


Fig. 35 (b)

30-In by 60-In
(760-mm by 1525-mm) Stall

Fig. 57(b)

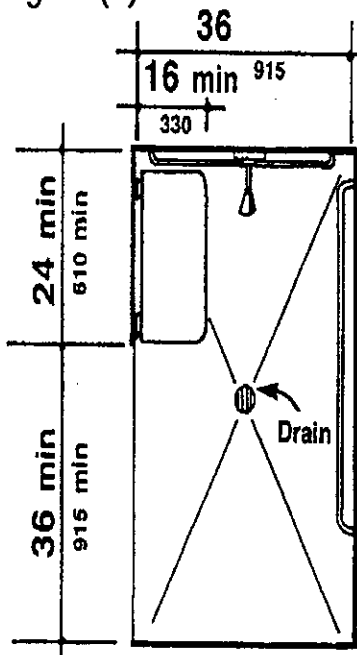
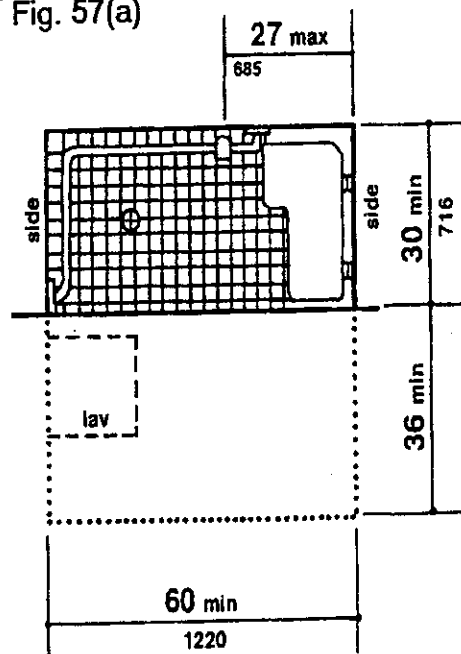


Fig. 57(a)



(3) **Seat.** A seat shall be provided in shower stalls 36 inches by 36 inches (915 mm by 915 mm) and shall be as shown in Fig. 36. The seat shall be mounted 17 inches to 19 inches (430 mm to 485 mm) from the bathroom floor and shall extend the full depth of the stall. In a 36 inches by 36 inches (915 mm by 915 mm) shower stall, the seat shall be on the wall opposite the controls. Where a fixed seat is provided in a 30 inches by 60 inches minimum (760 mm by 1525 mm) shower stall, it shall be a folding type and shall be mounted on the wall adjacent to the controls as shown in Fig. 57. The structural strength of seats and their attachments shall comply with rule 120-3-20-.37(3).

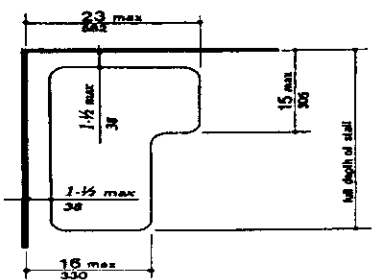
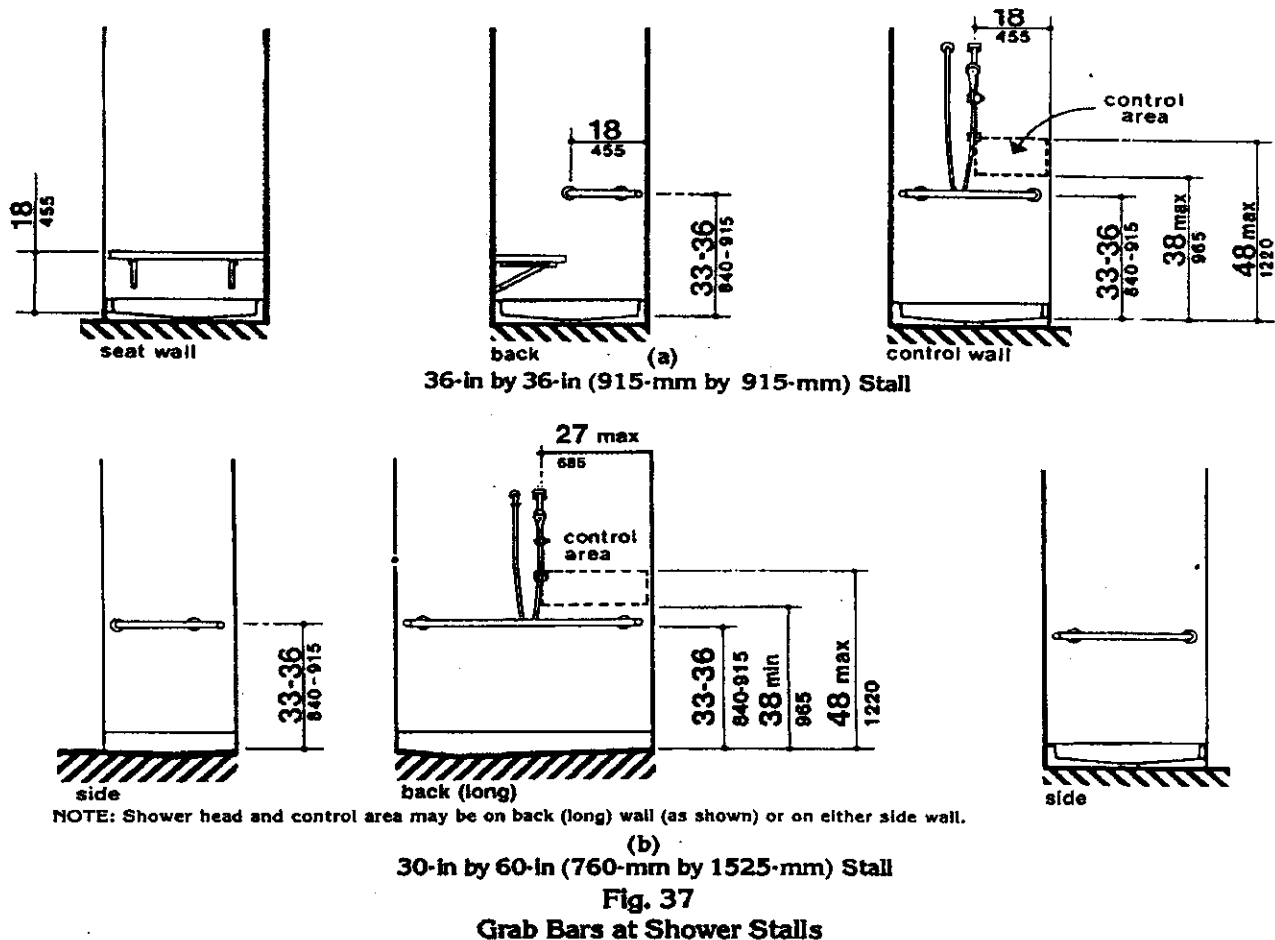


Fig. 36
Shower Seat Design



(4) **Grab Bars.** Grab bars complying with rule 120-3-20-.37 shall be provided as shown in Fig. 37.

(5) **Controls.** Faucets and other controls complying with rule 120-3-20-.38(4) shall be located as shown in Fig. 37. In shower stalls 36 inches by 36 inches (915 mm by 915 mm), all controls, faucets, and the shower unit shall be mounted on the side wall opposite the seat.

(6) **Shower Unit.** A shower spray unit with a hose at least 60 inches (1525 mm) long that can be used both as a fixed shower head and as a hand-held shower shall be provided.

EXCEPTION: In unmonitored facilities where vandalism is a consideration, a fixed shower head mounted at 48 inches (1220 mm) above the shower floor may be used in lieu of a hand-held showerhead.

(7) **Curbs.** If provided, curbs in shower stalls 36 inches by 36 inches (915 mm by 915 mm) shall be no higher than ½ inch (13 mm). Shower stalls that are 30 inches by 60 inches (760 mm by 1525 mm) minimum shall not have curbs.

(8) **Shower Enclosures.** If provided, enclosures for shower stalls shall not obstruct controls or obstruct transfer from wheelchairs onto shower seats.

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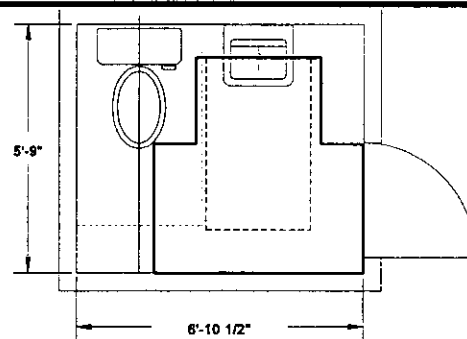
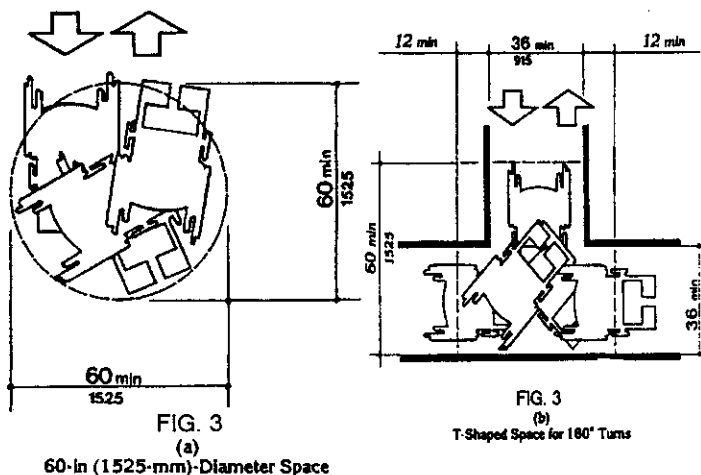
120-3-20-.33 Toilet Rooms.

(1) **Minimum Number.** Toilet facilities required to be accessible by rule 120-3-20-.03 shall comply with rule 120-3-20-.33. Accessible toilet rooms shall be on an accessible route.

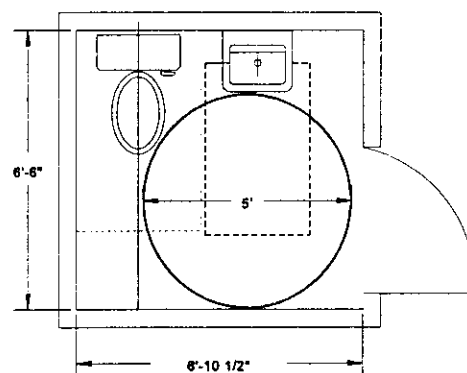
(2) **Doors.** All doors to accessible toilet rooms shall comply with rule 120-3-20-.24. *Doors shall not swing into the clear floor space required for any fixture.*

(3) **Clear Floor Space.** The accessible fixtures and controls required in rules 120-3-20-.33(4), 120-3-20-.33(5), 120-3-20-.33(6), and 120-3-20-.33(7) shall be on an accessible route. An *unobstructed turning space* complying with rule 120-3-20-.13(3) shall be provided *within* an accessible toilet room. The clear floor space at fixtures and controls, the accessible route, and the turning space may overlap.

Note: In many small facilities, single-user rest rooms may be the only facilities provided for all building users. In addition, the rules allow the use of "unisex" or "family" accessible toilet rooms in alterations when technical infeasibility can be demonstrated.



Minimum Accessible
Toilet Room using
the T-Turn.



Minimum Accessible
Toilet Room using
5' turning radius

Experience has shown that the provision of accessible "unisex" or single-user rest rooms is a reasonable way to provide access for wheelchair users and any attendants, especially when attendants are of the opposite sex. Since these facilities have proven so useful, it is often considered advantageous to install a "unisex" toilet room in new facilities in addition to making the multi-stall rest rooms accessible, especially in shopping malls, large auditoriums, and convention centers.

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Figure 28 (section rule 120-3-20-.27) provides minimum clear floor space dimensions for toilets in accessible "unisex" toilet rooms. The dotted lines designate the minimum clear floor space, depending on the direction of approach, required for wheelchair users to transfer onto the water closet. The dimensions of 48 inches (1220 mm) and 60 inches (1525 mm), respectively, correspond to the space required for the two common transfer approaches utilized by wheelchair users (see Fig. A6). It is important to keep in mind that the placement of the lavatory to the immediate side of the water closet will preclude the side approach transfer illustrated in Figure A6(b). To accommodate the side transfer, the space adjacent to the water closet must remain clear of obstruction for 42 inches (1065 mm) from the centerline of the toilet (Figure 28) and the lavatory must not be located within this clear space. A turning circle or T-turn, the clear floor space at the lavatory, and maneuvering space at the door must be considered when determining the possible wall locations. A privacy latch or other accessible means of ensuring privacy during use should be provided at the door.

RECOMMENDATIONS:

1. In new construction, accessible single-user rest rooms may be desirable in some situations because they can accommodate a wide variety of building users. However, they cannot be used in lieu of making the multi-stall toilet rooms accessible as required.

2. Where strict compliance to the rules

for accessible toilet facilities is technically infeasible in the alteration of existing facilities, accessible "unisex" toilets are a reasonable alternative.

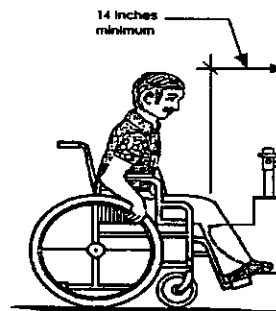
3. In designing accessible single-user rest rooms, the provisions of adequate space to allow a side transfer will provide accommodation to the largest number of wheelchair users.

(4) **Water Closets.** If toilet stalls are provided, then at least one shall be a standard toilet stall complying with rule 120-3-20-.28; where 6 or more stalls are provided, in addition to the stall complying with rule 120-3-20-.28(3), at least one stall 36 inches (915 mm) wide with an outward swinging, self-closing door and parallel grab bars complying with Fig. 30(d) and rule 120-3-20-.37 shall be provided. Water closets in such stalls shall comply with rule 120-3-20-.27. If water closets are not in stalls, then at least one shall comply with rule 120-3-20-.27.

(5) **Urinals.** If urinals are provided, then at least one shall comply with rule 120-3-20-.29.

Elongated urinals must project at least 14 inches to be usable.

If wall-mounted urinals are used, an elongated one is required.



(6) **Lavatories and Mirrors.** If lavatories and mirrors are

provided, then at least one of each shall comply with rule 120-3-20-.30.

(7) **Controls and Dispensers.** If controls, dispensers, receptacles, or other equipment are provided, then at least one of each shall be on an accessible route and shall comply with rule 120-3-20-.38.

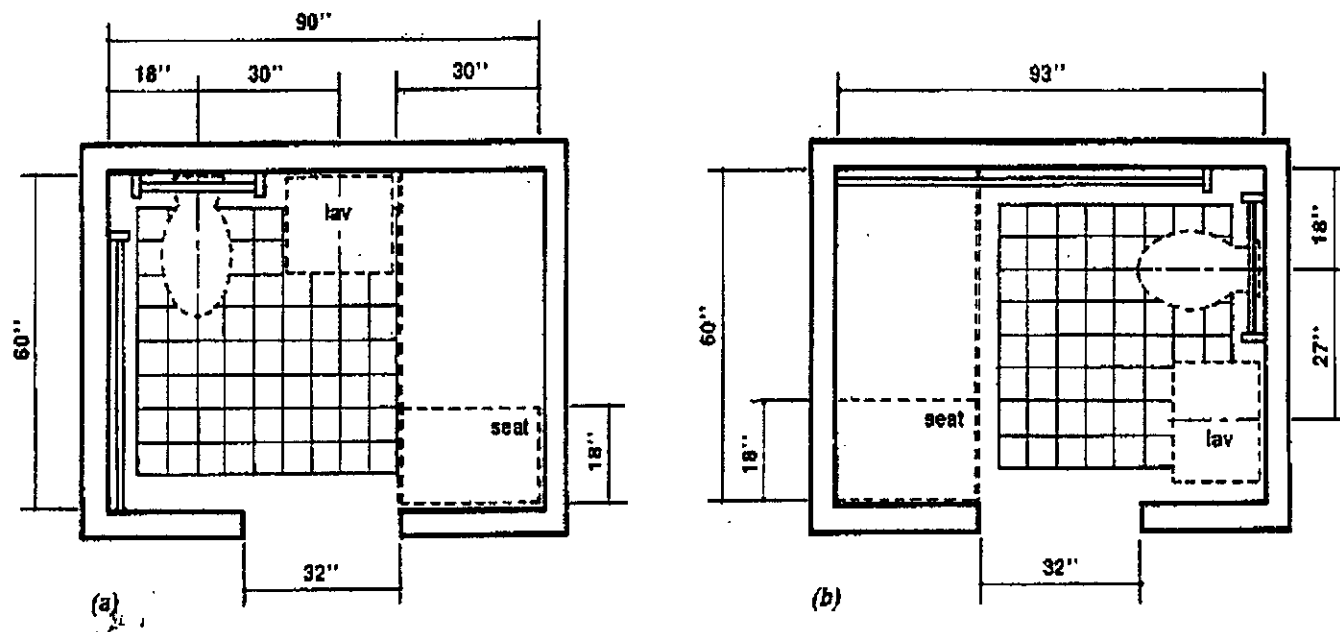


Fig. A7

120-3-20-.34 Bathrooms, Bathing Facilities, and Shower Rooms.

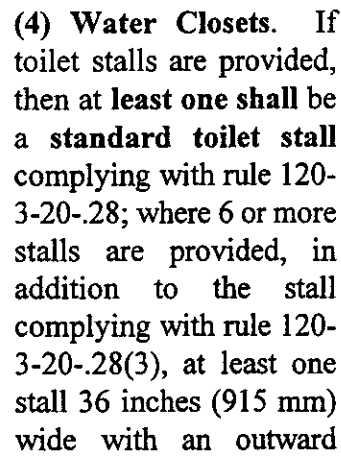
(1) **Minimum Number.** Bathrooms, bathing facilities, or shower rooms required to be accessible by rule 120-3-20-.4.1 shall comply with rule 120-3-20-.4.23 and shall be on an accessible route.

(2) **Doors.** Doors to accessible bathrooms shall comply with rule 120-3-20-.24. *Doors shall not swing into the floor space required for any fixture.*

(3) **Clear Floor Space.** The accessible fixtures and controls required in rules 120-3-20-.34(4), 120-3-20-.34(5), 120-3-20-.34(6), 120-3-20-.34(7), 120-3-20-.34(8), and 120-3-20-.34(9) shall be on an accessible route. An *unobstructed* turning space complying with rule 120-3-20-.13(3) shall be provided within an accessible bathroom. The clear floor spaces at fixtures and controls, the accessible route, and the turning space may overlap.

Note: Figure A7 shows two possible configurations of a toilet room with a roll-in shower. The specific shower shown is designed to fit exactly within the dimensions of a standard bathtub. Since the shower does not have a lip, the floor space can be used for required maneuvering space. This would permit a toilet room to be smaller than would be permitted with a bathtub and still provide enough floor space to be considered accessible. This design can provide accessibility in facilities where space is at a premium (i.e., hotels and medical care facilities). The alternate roll-in shower (Fig. 57b) also provides sufficient room for the "T-turn" and does not require plumbing to be on more than one wall.

Fig. 57(b)



(5) Urinals. If urinals are provided, then at least one shall comply with rule 120-3-20-.29.

(6) Lavatories and Mirrors. If lavatories and mirrors are provided, then **at least one of each** shall comply with rule 120-2-20-.30.

(7) Controls and Dispensers. If controls, dispensers, receptacles, or other equipment are provided, then at least one of each shall be on an accessible route and shall comply with rule 120-2-20-38.

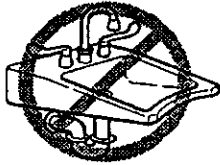
(8) Bathing and Shower Facilities. If tubs or showers are provided, then at **least one** accessible tub that complies with rule 120-2-20-.31 or at least one accessible shower that complies with rule 120-2-20-.32 shall be provided.

(9) Medicine Cabinets. If medicine cabinets are provided, at least one shall be located with a usable shelf no higher than **44 inches** (1120 mm) above the floor space. The floor space shall comply with rule 120-2-20-.13(4).

Note: Other alternatives for storing medical and personal care items are very useful to disabled people. Shelves, drawers, and floor-mounted cabinets can be provided within the reach ranges of disabled people. Maximum reach height shall comply with rule 120-2-20-.13, with a height of 48 inches (1220 mm) preferred irrespective of approach allowed.



120-3-20-.35 Sinks.



Installation of "Handicapped" Lavatory is discouraged.

Standard fixtures installed at the required dimensions work best.

(1) **General.** Sinks required to be accessible by rule 120-3-20-.03 shall comply with rule 120-3-20-.35.

(2) **Height.** Sinks shall be mounted with the *counter or rim* no higher than **34 inches** (865 mm) above the finish floor.

Standard sink designs are recommended to be used instead of the handicapped sink designs where possible. All required clearance shall be complied with.

(3) **Knee Clearance.** Knee clearance that is at least 27 inches (685 mm) high, 30 inches (760 mm) wide, and 19 inches (485 mm) deep shall be provided underneath sinks.

(4) **Depth.** Each sink shall be a maximum of **6-1/2 inches** (165 mm) deep.

(5) **Clear Floor Space.** A clear floor space at least 30 inches by 48 inches (760 mm by 1220 mm) complying with rule 120-3-20-.13(4) shall be provided in front of a sink to allow forward approach. The clear floor space shall be on an

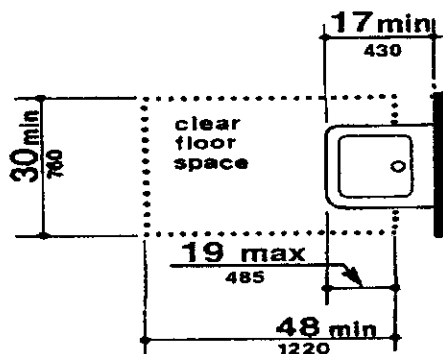


Fig. 32
Clear Floor Space at Lavatories

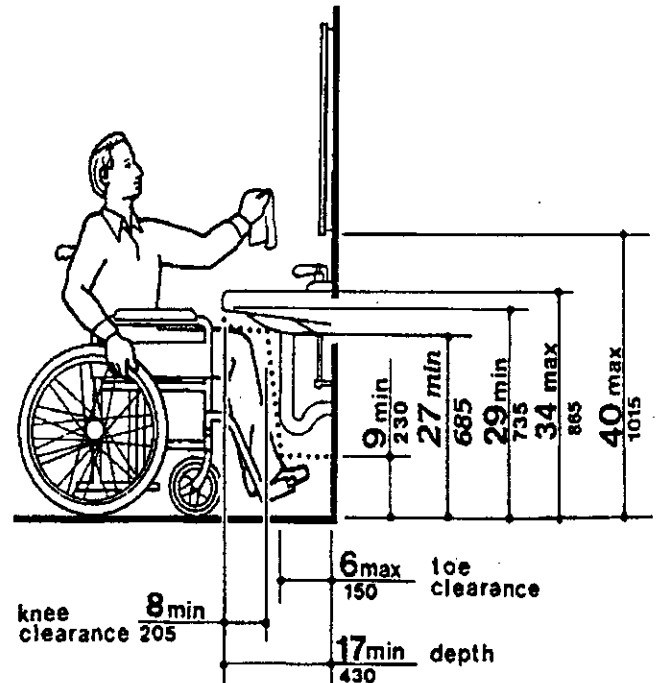
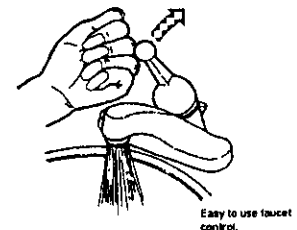


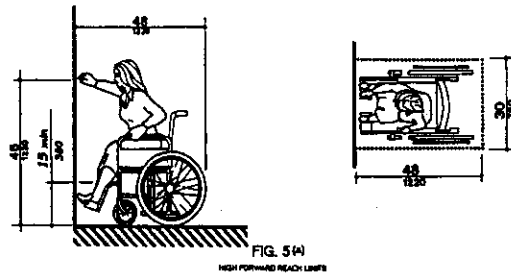
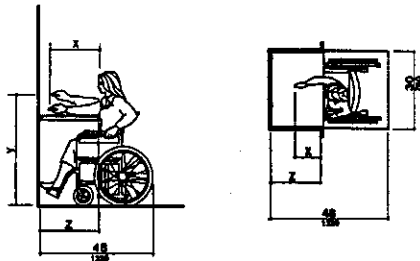
Fig. 31
Lavatory Clearances

accessible route and shall extend a maximum of 19 inches (485 mm) underneath the sink (see Fig. 32).

(6) **Exposed Pipes and Surfaces.** Hot water and drain pipes exposed under sinks shall be insulated or otherwise configured so as to protect against contact. There shall be no sharp or abrasive surfaces under sinks.

(7) **Faucets.** Faucets shall comply with rule 120-3-20-.38(4). Lever - operated, push-type, touch-type, or electronically controlled mechanisms are acceptable designs.




FIG. 5 (a)
HIGH FORWARD REACH LIMITS


NOTE: x shall be 0 to 25 in (635 mm) or shall be 26 to 48 in (660 mm), then y shall be 48 in (1215 mm) maximum. When x is 25 to 29 in (635 mm), then y shall be 44 in (1118 mm) maximum.

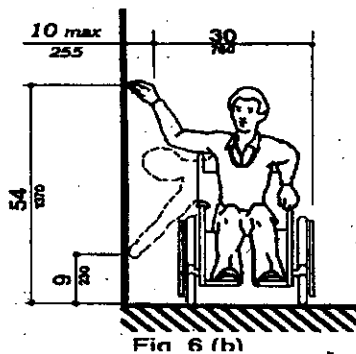
FIG. 5 (b)
Maximum Forward Reach over an Obstruction


FIG. 6 (b)

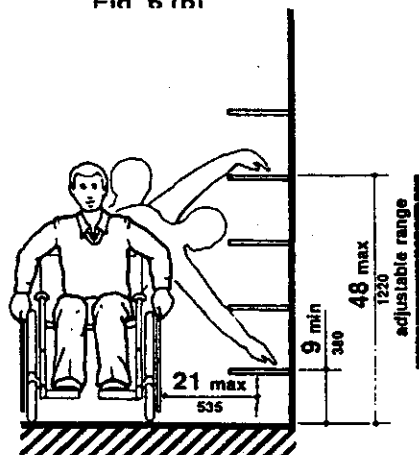


FIG. 38 (a) Shelves

120-3-20-.36 Storage.

(1) **General.** Fixed storage facilities such as cabinets, shelves, closets, and drawers required to be accessible by rule 120-3-20-.03 shall comply with rule 120-3-20-.36.

(2) **Clear Floor Space.** A clear floor space at least 30 inches by 48 inches (760 mm by 1220 mm) complying with rule 120-3-20-.12(4) that allows either a forward or parallel approach by a person using a wheelchair shall be provided at accessible storage facilities.

(3) **Height.** Accessible storage spaces shall be within at least one of the reach ranges specified in rule 120-3-20-.13(5) and rule 120-3-20-.13(6) (see Fig. 5 and Fig. 6). Clothes rod or shelves shall be a maximum of 54 inches (1370 mm) above the finish floor for a side approach. Where the distance from the wheelchair to the clothes rods or shelf exceeds 10 inches (255 mm) (as in closets without accessible doors) the height and depth to the rod or shelf shall comply with Fig. 38(a) and Fig. 38(b).

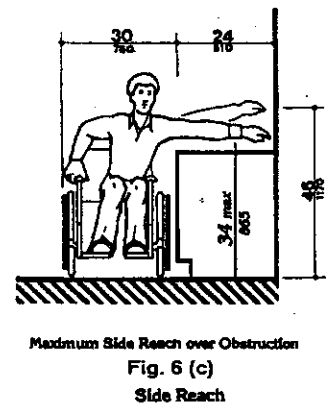
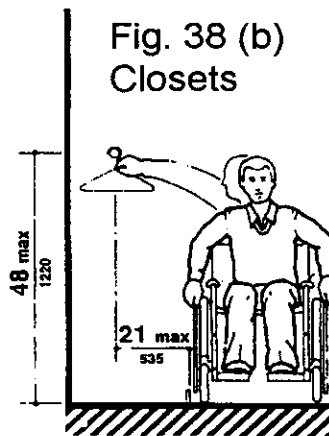

Maximum Side Reach over Obstruction
FIG. 6 (c)
Side Reach

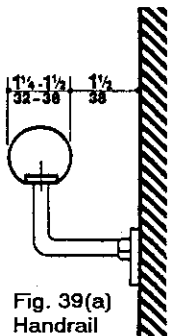
Fig. 38 (b) Closets



(4) **Hardware.** Hardware for accessible storage facilities shall comply with rule 120-3-20-.38(4). Touch latches and U-shaped pulls are acceptable.

120-3-20-.37 Handrails, Grab Bars, and Tub and Shower Seats.

(1) **General.** *All* handrails, grab bars, and tub and shower seats required to be accessible by rules 120-3-20-.03, 120-3-20-.19, 120-3-20-.20, 120-3-20-.27, 120-3-20-.28, 120-3-20-.31 or 120-3-20-.32 shall comply with rule 120-3-20-.37.



Note: Many disabled people rely heavily upon grab bars and handrails to maintain balance and prevent serious falls. Many people brace their forearms between supports and walls to

give them more leverage and stability in maintaining balance or for lifting. The grab bar clearance of **1-1/2 inches** (38 mm) required in these rules is a safety clearance to prevent injuries resulting from arms slipping through the openings. It also provides adequate gripping room.

(2) **Size and Spacing of Grab Bars and Handrails.** The diameter or width of the gripping surfaces of a handrail or grab bar shall be **1-1/4 inches to 1-1/2 inches** (32 mm to 38 mm), or the shape shall provide an equivalent gripping surface. If handrails or grab bars are mounted adjacent to a wall, the space between the wall and the grab bar shall be **1-1/2 inches** (38 mm) (see Fig. 39(a), (b), and (c)).

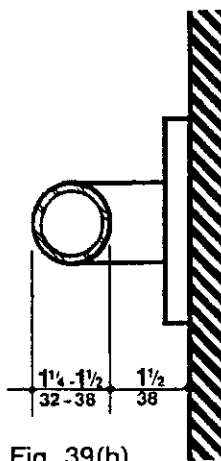


Fig. 39(b)

Handrails may be located in a recess if the recess is a maximum of 3 inches (75 mm) deep and extends at least 18 inches (455 mm) above the top of the rail (see Fig. 39(c)).

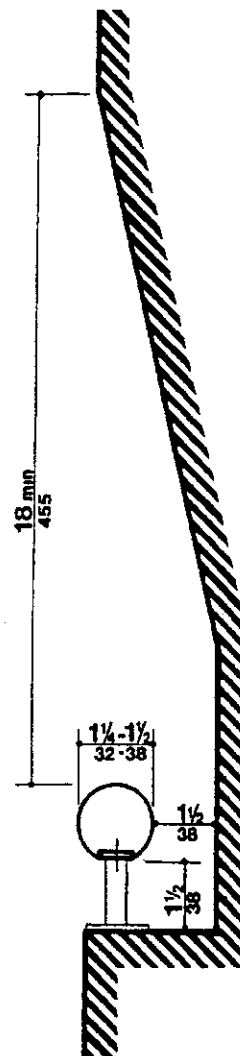


Fig. 39(c)

Note: This specification allows for alternate shapes of handrails as long as they allow an opposing grip similar to that provided by a circular section of 1-1/4 inches to 1-1/2 inches (32 mm to 38 mm).

(3) **Structural Strength.** The structural strength of grab bars, tub and shower seats, fasteners, and mounting devices shall meet the following specification:

(a) Bending stress in a grab bar or seat induced by the maximum bending moment from the application of **250 lbf** (1112 N) shall be less than the allowable stress for the material of the grab bar or seat.

(b) Shear stress induced in a grab bar or seat by the application of **250 lbf** (1112 N) shall be less than the allowable shear stress for the material of the grab bar or seat. If the connection between the grab bar or seat and its mounting bracket or other support is considered to be fully restrained,

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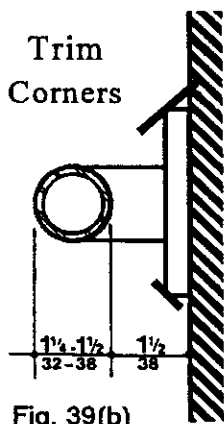
then direct and torsional shear stresses shall be totaled for the combined shear stress, which shall not exceed the allowable shear stress.

(c) Shear force induced in a fastener or mounting device from the application of **250 lbf** (1112 N) shall be less than the allowable lateral load of either the fastener or mounting device or the supporting structure, whichever is the smaller allowable load.

(d) Tensile force induced in a fastener by a direct tension force of **250 lbf** (1112 N) plus the maximum moment from the application of 250 lbf (1112 N) shall be less than the allowable withdrawal load between the fastener and the supporting structure.

(e) Grab bars shall not rotate within their fittings.

(4) **Eliminating Hazards.** A handrail or grab bar and any wall or other surface adjacent to it shall be free of any sharp or abrasive elements. Edges shall have a minimum radius of **1/8 inch** (3.2 mm).



120-3-20-.38 Controls and Operating Mechanisms.

(1) **General.** Controls and operating mechanisms required to be accessible by rule 120-3-20-.03 shall comply with rule 120-3-20-.38.

(2) **Clear Floor Space.** Clear floor space complying with rule 120-3-20-.13(4) that allows a forward or a parallel approach by a person using a wheelchair shall be provided at controls, dispensers, receptacles, and other operable equipment.

(3) **Height.** The highest operable part of controls, dispensers, receptacles, and other operable equipment shall be placed within at least one of the reach ranges specified in rule 120-3-20-.13(5) and rule 120-3-20-.13(6). Electrical and communications system receptacles on walls shall be mounted no less than **15 inches** (380 mm) above the floor.

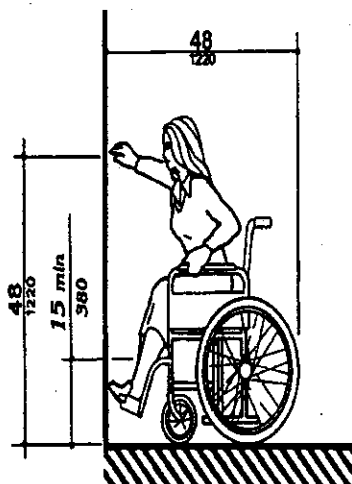
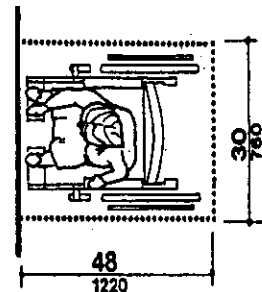


FIG. 5(a)
HIGH FORWARD REACH LIMITS



EXCEPTION: These requirements do 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 occupants.

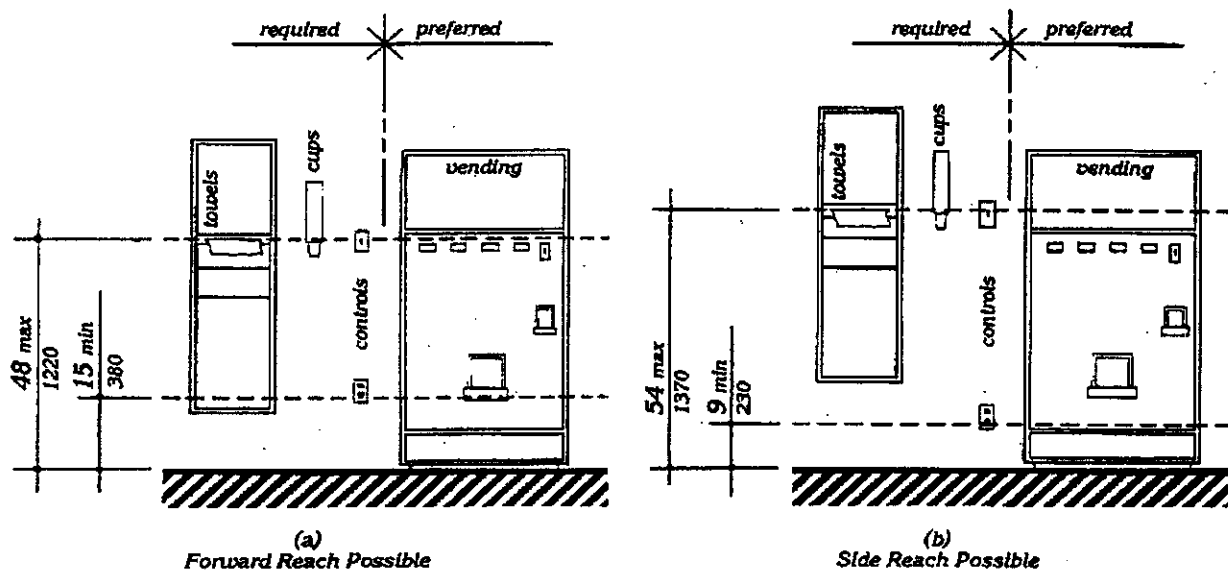


Fig. A8
Control Reach Limitations

Note: Fig. A8 further illustrates mandatory and advisory control mounting height provisions for typical equipment. Electrical receptacles installed to serve individual appliances and not intended for regular or frequent use by building occupants are not required to be mounted within the specified reach ranges. Examples would be receptacles installed specifically for wall-mounted clocks, refrigerators, and microwave ovens.

(4) Operation. Controls and operating mechanisms shall be operable with one hand and shall not require tight grasping, pinching, or twisting of the wrist. The force required to activate controls shall be no greater than 5 lbf (22.2 N).

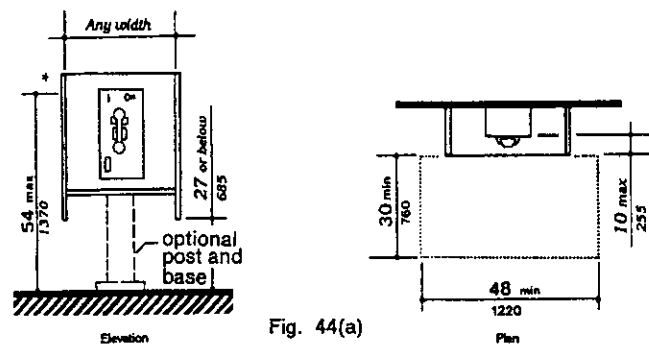
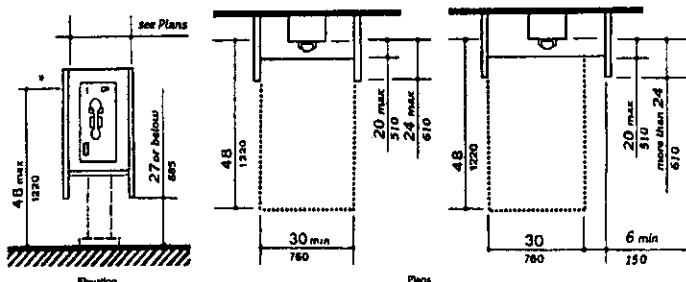


Fig. 44(a)
Side Reach Possible



*Height to highest operable parts which are essential to basic operation of telephone.

Forward Reach Required
Fig. 44(b)

GA ACCESSIBILITY CODE

120-3-20-.39 Alarms.

(1) **General.** Alarm systems required to be accessible by rule 120-3-.20-.03 shall comply with rule 120-3-20-.39. At a minimum, **visual signal appliances** shall be provided in buildings and facilities in each of the following areas: *restrooms and any other general usage areas (e.g., class rooms, meeting rooms), hallways, lobbies, and any other area for common use.*

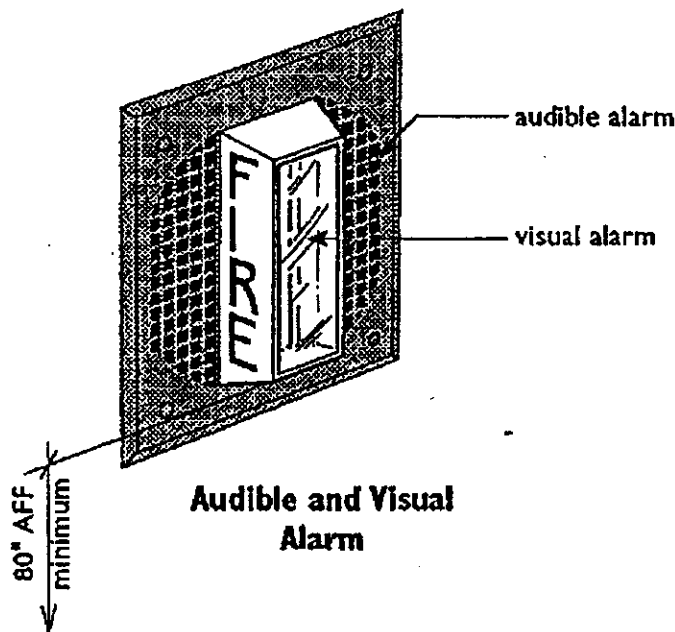
(2) **Audible Alarms.** If provided, audible emergency alarms shall produce a sound that exceeds the prevailing equivalent sound level in the room or space by at least 15 dbA or exceeds any maximum sound level with a duration of 60 seconds by 5 dbA, whichever is louder. Sound levels for alarm signals shall not exceed 120 dbA.

Note: Audible emergency signals must have an intensity and frequency that can attract the attention of individuals who have

partial hearing loss. People more than 60 years of age generally have difficulty perceiving frequencies higher than 10,000 Hz. An alarm signal which has a periodic element to its signal, such as single stroke bells (clang-pause-clang-pause), hi-low (up-down-up-down) and fast whoop (on-off-on-off) are best. Avoid continuous or reverberating tones. Select a signal which has a sound characterized by three or four clear tones without a great deal of "noise" in between.

(3) **Visual Alarms.** Visual alarm signal appliances shall be integrated into the building or facility alarm system. If single station audible alarms are provided then single station, visual alarm signals shall be provided. Visual alarm signals shall have the following minimum photometric and location features:

- (a) The lamp shall be a xenon strobe type or equivalent.
- (b) The color shall be clear or nominal white (i.e., unfiltered or clear filtered white light).
- (c) The maximum pulse duration shall be two-tenths of one second (0.2 sec) with a maximum duty cycle of 40 percent. The pulse duration is defined as the time interval between initial and final points of 10 percent of maximum signal.
- (d) The intensity shall be a minimum of 75 candela.
- (e) The flash rate shall be a minimum of 1 Hz and a maximum of 3 Hz.



GA ACCESSIBILITY CODE

(f) The appliance shall be placed **80 inches (2030 mm) above the highest floor level** within the space or 6 inches (152 mm) below the ceiling, whichever is lower.

(g) In general, no place in any room or space required to have a visual signal appliance shall be more than **50 feet (15 m)** from the signal (in the horizontal plane). In large rooms and spaces exceeding 100 feet (30 m) across, without obstructions 6 feet (2 m) above the finish floor, such as auditoriums, devices may be placed around the perimeter, spaced a maximum 100 ft (30 m) apart, in lieu of suspending appliances from the ceiling.

(h) No place in common corridors or hallways in which visual alarm signaling appliances are required shall be more than 50 feet (15 m) from the signal.

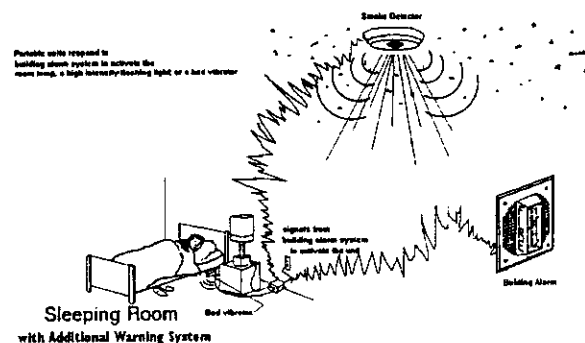
Note: The specifications in this section do not preclude the use of zoned or coded alarm systems.

(4) **Auxiliary Alarms.** Units and sleeping accommodations shall have a visual alarm connected to the building emergency alarm system or shall have a standard 110-volt electrical receptacle into which such an alarm can be connected and a means by which a signal from the building emergency alarm system can trigger such an auxiliary alarm. When visual alarms are in place the signal shall be visible in all areas of the unit or room. Instructions for use of the auxiliary alarm or receptacle shall be provided.

Note: Locating visual emergency alarms in rooms where persons who are deaf may work or reside alone can ensure that they will always be warned when an emergency alarm is activated. To be effective, such devices must be located and

oriented so that they will spread signals and reflections throughout a space or raise the overall light level sharply. However, visual alarms alone are not necessarily the best means to alert sleepers. A study conducted by Underwriters Laboratory (UL) concluded that a flashing light more than seven times brighter was required (110 candela v. 15 candela, at the same distance) to awaken sleepers as was needed to alert awake subjects in a normal daytime illuminated room.

For hotel and other rooms where people are likely to be asleep, a signal activated vibrators placed between mattresses and box springs or under pillows were found by UL to be much more effective in alerting sleepers. Many readily available devices are sound - activated so that they could respond to an alarm clock, clock radio, wake-up telephone call or room smoke detector. Activation by a building alarm system can be accomplished either by a separate circuit activating an auditory alarm which would, in turn, trigger the vibrator or by a signal transmitted through the ordinary 110-volt outlet. Transmission of signals through the power line is relatively simple and is the basis of common, inexpensive remote light control systems sold in many department and electronic stores for home use. So-called "wireless" intercoms operate on the same principal.



GA ACCESSIBILITY CODE

120-3-20-.40 Detectable Warnings.

(1) **General.** Detectable warnings required by rule 120-3-20-.03 and rule 120-3-20-.18 shall comply with rule 120-3-20-.40.

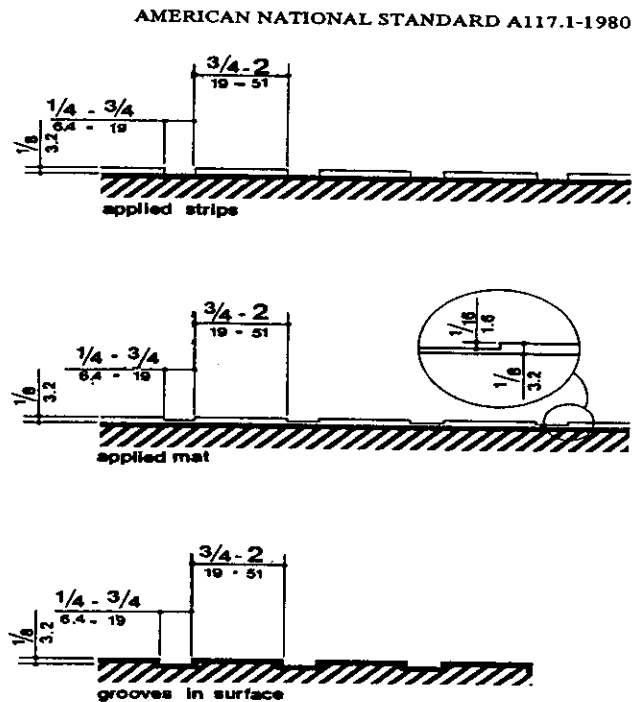
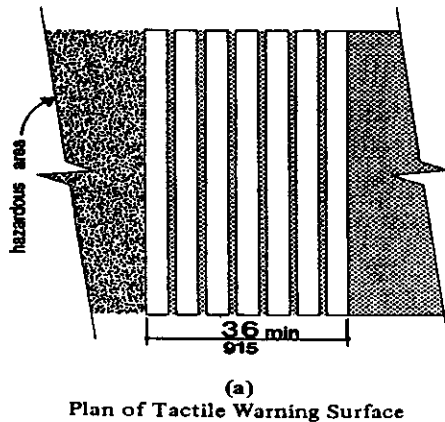
(2) **Detectable Warnings on Walking Surfaces.** Detectable warning textures on walking surfaces shall consist of exposed aggregate concrete, cushioned surfaces made of rubber or plastic, raised strips, or grooves. Texture shall contrast with that of the surrounding surface. Raised strips or grooves shall comply with Fig.40. *Grooves may be used indoors only.*

Grooves may be used indoors only.

Note: The material used to provide contrast should contrast by at least 70%. Contrast in percent is determined by:

$$\text{Contrast} = [(B_1 - B_2) / B_1] \times 100$$
 where B_1 = light reflectance value (LRV) of the lighter area and B_2 = light reflectance value (LRV) of the darker area.

Note that in any application both white and black are never absolute; thus, B_1 never equals 100 and B_2 is always greater than 0.



NOTE: Grooves may only be used indoors.

Fig. 40
Strips and Grooves used as Tactile
Warnings on Walking Surfaces

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(3) **Tactile Warning on Doors to Hazardous Areas.** Doors that lead to areas that might prove dangerous to a person with a vision disability. (For example, doors to loading docks, platforms, boiler rooms, stages, and the like) shall be made **identifiable to the touch** by a textured surface on the door handle, knob, pull, or other operating hardware. The texture surface made be made by knurling or roughening or by a material applied to the contact surface.

Such texture surfaces shall not be provided for emergency doors or any door other than those to hazardous areas.

(4) **Detactable Warning at Stairs.** All stairs, except those in dwelling units, in enclosed stair towers, or set to side of the path of travel shall have a detectable warning at the top of the each stair run, at least 36 inches deep and as wide as the stairs. (See Fig. 41 and rule 120-3-20-.20(5))

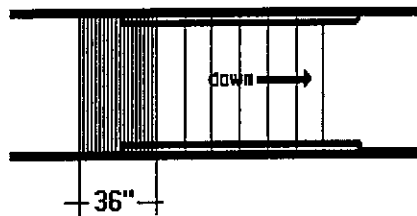


Fig. 41
Tactile Warning at Stairs

(5) **Detactable Warning at Hazardous Vehicular Areas.** If a walk crosses or adjoins a frequently used vehicular way, and if there are no curbs, railing, or other elements detectable by a person who has a visual disability separating the pedestrian and vehicular areas, the boundary between the areas shall be defined by a continuous, detectable warning texture, which is 36 inches wide, complying with rule 120-3-20-.20(5). (See Fig. 42)

(6) **Detactable Warning at Reflecting Pools.** The edges of reflecting pools shall be protected by railing, walls, curbs, or detectable warning complying with rule 120-3-20-.20(5).

(7) **Standardization.** Textured surfaces for detectable warnings shall be standard within a building, facility, site, or complex of buildings.

(8) **Outdoor Conditions.** Outdoor stairs and their approaches shall be designed so that water will not accumulate on walking surfaces.

(9) **Detactable Warnings at Rail and Train Stations.** Detectable warnings shall consist of raised truncated domes with a diameter of nominal 0.9 inches (23 mm), a height of nominal 0.2 inches (5 mm) and a center-to-center spacing of nominal 2.35 inches (60 mm) and shall contrast visually with adjoining surfaces, either light-on-dark, or dark-on-light. The material used to provide contrast shall be an integral part of the walking surface. Detectable warnings used on interior surfaces shall differ from adjoining walking surfaces in resiliency or sound-on-cane contact.

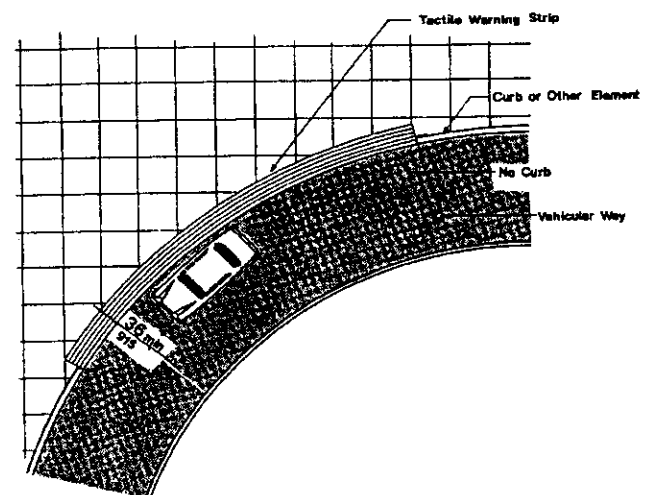


Fig. 42
Tactile Warning at Hazardous Vehicular Areas

GA ACCESSIBILITY CODE

120-3-20-.41 Signage.

(1) **General.** Signage required to be accessible by rule 120-3-20-.03 shall comply with the applicable provisions of rule 120-3-20-.41.

Note: In building complexes where finding locations independently on a routine basis may be a necessity (for example, college campuses), tactile maps or prerecorded instructions can be very helpful to visually impaired people. Several maps and auditory instructions have been developed and tested for specific applications. The type of map or instruction used must be based on the information to be communicated, which depends highly on the type of buildings or user.

Landmarks that can easily be distinguished by visually impaired individuals are useful as orientation cues. Such cues include changes in illumination level, bright colors, unique patterns, wall murals, location of special equipment or other architectural features.

Many people with disabilities have limitations in movement of their heads and reduced peripheral vision. Thus, signage positioned perpendicular to the path of travel is easiest for them to notice. People can generally

distinguish signage within an angle of 30 degrees to either side of the centerline of their faces without moving their heads.

(2) **Character Proportion.** Letters and numbers on signs shall have a width-to-height ratio between 3:5 and 1:1 and a stroke-width-to-height ratio between 1:5 and 1:10.

Note: The legibility of printed characters is a function of the viewing distance, character height, the ratio of the stroke width to the height of the character, the contrast of color between character and background and print fonts. The size of characters must be based upon the intended viewing distance. A severely nearsighted person may have to be much closer to recognize a character of a given size than a person with normal visual acuity.

(3) **Character Height.** Characters and numbers on signs shall be sized according to the viewing distance from which they are to be read. The minimum height is measured using an uppercase X. Lowercase characters are permitted.

Height above Finish Floor	Minimum Character Height
Suspended or Projected Overhead in compliance with rule 120-3-20-.15(2)	3 inches (75 mm) minimum

GA ACCESSIBILITY CODE

(4) Raised and Braille Characters and Pictorial Symbol Signs (Pictograms). Letters and numerals shall be raised 1/32 inch, uppercase, sans serif or simple serif type and shall be accompanied with Grade 2 Braille. Raised characters shall be at least 5/8 inch (16 mm) high, but no higher than 2 inches (50 mm). Pictograms shall be accompanied by the equivalent verbal description placed directly below the pictogram. The border dimension of the pictogram shall be 6 inches (152 mm) minimum in height.

Note: The standard dimensions for literary Braille are as follows:

Dot diameter	.059 inch.
Inter-dot spacing	.090 inch.
Horizontal separation between cells	.241 inch.
Vertical separation between cells	.395 inch.

Raised borders around signs containing raised characters may make them confusing to read unless the border is set far away from the characters. Accessible signage with descriptive materials about public buildings, monuments, and objects of cultural interest may not provide sufficiently detailed and meaningful information.

Interpretive guides, audio tape devices, or other methods may be more effective in presenting such information.

(5) Finish and Contrast. The characters and background of signs shall be eggshell, matte, or other non glare finish. Characters and symbols shall contrast with their background -- either light characters on a dark background or dark characters on a light background.

Note: An eggshell finish (11 to 19 degree gloss on 60 degree glossimeter) is recommended. Research indicates that signs are more legible for persons with low vision when characters contrast with their background by at least 70 percent. Contrast in percent shall be determined by:

$$\text{Contrast} = [(B_1 - B_2) / B_1] \times 100$$

where B_1 = light reflectance value (LRV) of the lighter area and B_2 = light reflectance value (LRV) of the darker area.

Note: in any application both white and black are never absolute; thus, B_1 never equals 100 and B_2 is greater than 0.

The greatest readability is usually achieved through the use of light-colored characters or symbols on a dark background.

GA ACCESSIBILITY CODE

(6) Mounting Location and Height. Where permanent identification is provided for rooms and spaces, signs shall be installed on the wall adjacent to the latch side of the door. Where there is no wall space to the latch side of the door, including at double leaf doors, signs shall be placed on the nearest adjacent wall. **Mounting height shall be 60 inches (1525 mm) above the finish floor to the centerline of the sign.** Mounting location for such signage shall be so that a person may approach within 3 inches (76 mm) of signage without encountering protruding objects or standing within the swing of a door.

(7) Symbols of Accessibility.

(a) Facilities and elements required to be identified as accessible by rule 120-3-20-.03 shall use the international symbol of accessibility. The symbol shall be displayed as shown in Fig. 43(a) and (b).

(b) Volume Control Telephones. Telephones required to have a volume control by rule 120-3-20-.08(17)(b) shall be identified by a sign containing a depiction of a telephone handset with radiating sound waves.

(c) Text Telephones. Text telephones required by rule 120-3-20-.08 (17)(c) shall be identified by the international TDD symbol (Fig 43(c)). In addition, if a facility has a public text telephone, directional signage indicating the location of the nearest text telephone shall be placed adjacent to all banks of telephones which do not contain a text telephone. Such directional signage shall include the international TDD symbol. If a facility has no banks of telephones, the directional signage shall be provided at the entrance (e.g., in a building directory).

(d) Assistive Listening Systems. In assembly areas where permanently installed assistive listening systems are required by rule 120-3-20-.08(19)(b) the availability of such systems shall be identified with signage that includes the international symbol of access for hearing loss (Fig 43(d)).

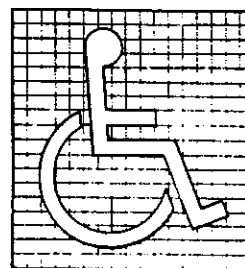


Fig. 43(a)
Proportions
International Symbol of Accessibility



Fig. 43(b)
Display Conditions
International Symbol of Accessibility

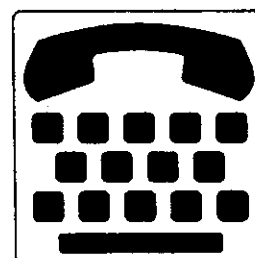


Fig. 43(c)
International TDD Symbol



Fig. 43(d)
International Symbol of Access for Hearing Loss

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Note: Paragraph 4 of this section requires signage indicating the availability of an **Assistive Listening System**. An appropriate message should be displayed with the international symbol of access for hearing loss since this symbol conveys general accessibility for people with hearing loss. Some suggestions are:

INFRARED
ASSISTIVE LISTENING SYSTEM
AVAILABLE

----PLEASE ASK----

AUDIO LOOP IN USE
TURN T-SWITCH FOR
BETTER HEARING
----OR ASK FOR HELP----

FM
ASSISTIVE LISTENING
SYSTEM AVAILABLE
----PLEASE ASK----

The symbol may be used to notify persons of the availability of other auxiliary aids and services such as: real time captioning, captioned note taking, sign language interpreters, and oral interpreters.

(8) Illumination Levels. (Reserved).

Note: Illumination levels on the sign surface shall be in the 100 to 300 lux range (10

to 30 foot candles) and shall be uniform over the sign surface. Signs shall be located such that the illumination level on the surface of the sign is not significantly exceeded by the ambient light or visible bright lighting source behind or in front of the sign.

120-3-20-.42 Telephones.

(1) **General.** Public telephones required to be accessible by rule 120-3-20-.03 shall comply with rule 120-3-20-.42.

(2) **Clear Floor or Ground Space.** A clear floor or ground space at least 30 inches by 48 inches (760 mm by 1220 mm) that allows either a forward or parallel approach by a person using a wheelchair shall be provided at telephones (see Fig.44). The clear floor or ground space shall comply with rule 120-3-20-.13(4). Bases, enclosures, and fixed seats shall not impede approaches to telephones by people who use wheelchairs.

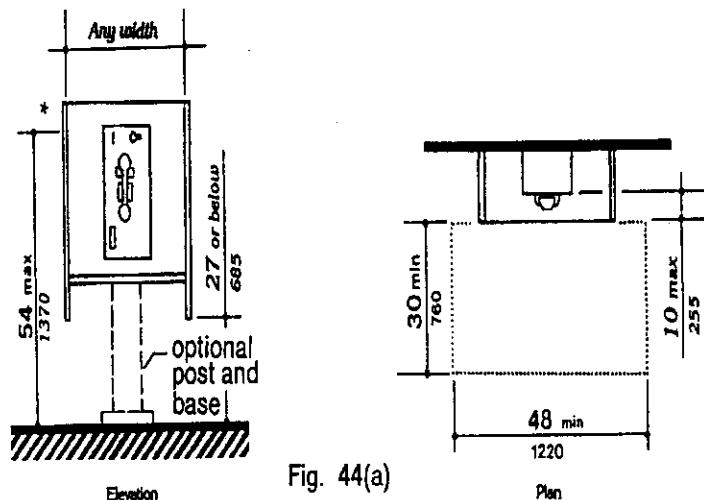


Fig. 44(a)

Side Reach Possible

GA ACCESSIBILITY CODE

(3) **Mounting Height.** The highest operable part of the telephone shall be within the reach ranges specified in rule 120-3-20-.12(5) or rule 120-3-20-.13(6).

Note: In localities where the dial-tone first system is in operation, calls can be placed at a coin telephone through the operator without inserting coins. The operator button is located at a height of 46 inches (1170 mm) if the coin slot of the telephone is at 54 inches (1370 mm). A generally available public telephone with a coin slot mounted lower on the equipment would allow universal installation of telephones at a height of **48 inches** (1220 mm) or less to all operable parts.

(4) **Protruding Objects.** Telephones shall comply with rule 120-3-20-.15.

(5) **Hearing Aid Compatible and Volume Control Telephones** Required by rule 120-3-20-.03.

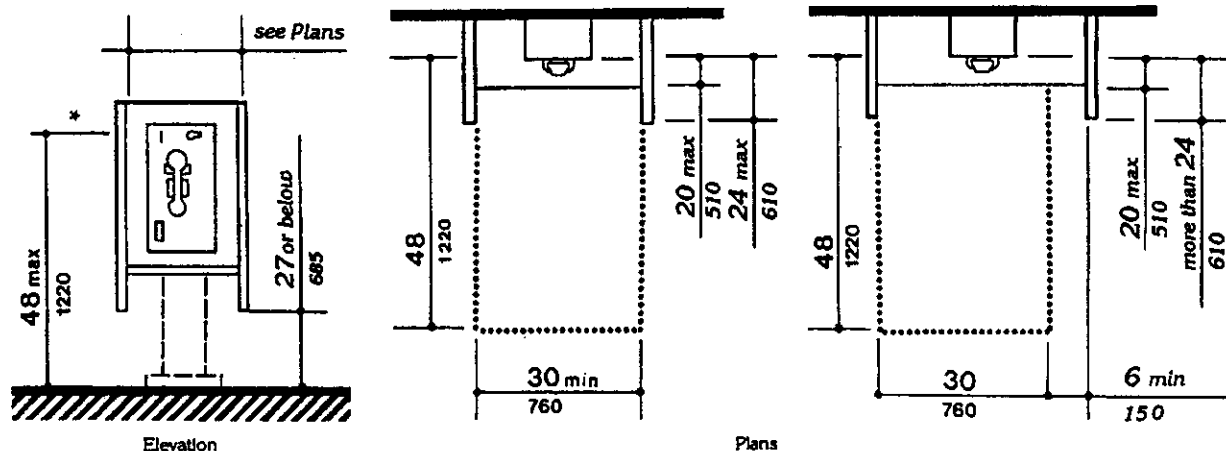
(a) Telephones shall be hearing aid compatible.

(b) Volume controls, capable of a minimum of 12 dbA and a maximum of 18 dbA above normal, shall be provided in accordance with 4.1.3. If an automatic reset is provided then 18 dbA may be exceeded.

(6) **Controls.** Telephones shall have push-button controls where service for such equipment is available.

(7) **Telephone Books.** Telephone books, if provided, shall be located in a position that complies with the reach ranges specified in rule 120-3-20-.13(5) and rule 120-3-20-.13(6).

(8) **Cord Length.** The cord from the telephone to the handset shall be at *least 29 inches (735 mm) long.*



*Height to highest operable parts which are essential to basic operation of telephone.

Forward Reach Required

Fig. 44(b)

GA ACCESSIBILITY CODE

(9) Text Telephones Required by 120-3-20-.03.

(a) Text telephones used with a pay telephone shall be permanently affixed within, or adjacent to, the telephone enclosure. If an acoustic coupler is used, the telephone cord shall be sufficiently long to allow connection of the text telephone and the telephone receiver.

(b) Pay telephones designed to accommodate a portable text telephone shall be equipped with a shelf and an electrical outlet within or adjacent to the telephone enclosure. The telephone handset shall be capable of being placed flush on the surface of the shelf. The shelf shall be capable of accommodating a text telephone and shall have 6 inches (152 mm) minimum vertical clearance in the area where the text telephone is to be placed.

(c) Equivalent facilitation may be provided. For example, a portable text telephone may be made available in a hotel at the registration desk if it is available on a 24-hour basis for use with nearby public pay telephones. In this instance, at least one pay telephone shall comply with paragraph 2 of this section. In addition, if an acoustic coupler is used, the telephone handset cord shall be sufficiently long so as to allow connection of the text telephone and the telephone receiver. Directional signage shall be provided and shall comply with 120-3-20-.41(7).

Note: A public text telephone may be an integrated text telephone pay phone unit or a conventional portable text telephone that is permanently affixed within, or adjacent to, the telephone enclosure. In order to be usable with a pay phone, a text telephone which is not a single integrated text telephone pay phone unit will require a shelf

large enough (10 inches (255 mm) wide by 10 inches (255 mm) deep with a 6 inches (150 mm) vertical clearance minimum) to accommodate the device, an electrical outlet, and a power cord. Movable or portable text telephones may be used to provide equivalent facilitation. A text telephone should be readily available so that a person using it may access the text telephone easily and conveniently. As currently designed, pocket-type text telephones for personal use do not accommodate a wide range of users. Such devices would not be considered substantially equivalent to conventional text telephones. However, in the future as technology develops this could change.



Fig. 43(c)

International TDD Symbol

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120-3-20-.43 Fixed or Built-in Seating and Tables.

(1) **Minimum Number.** Fixed or built-in seating or tables required to be accessible by rule 120-3-20-.03 shall comply with rule 120-3-20-.43.

(2) **Seating.** If seating spaces for people in wheelchairs are provided at fixed tables or counters, clear floor space complying with rule 120-3-20-.13(4) shall be provided. Such clear floor space shall not overlap knee space by more than 19 inches (485 mm) (see Fig. 45).

(3) **Knee Clearances.** If seating for people in wheelchairs is provided at tables or counters, knee spaces at least 27 inches (685 mm) high, 30 inches (760 mm) wide, and 19 inches (485 mm) deep shall be provided (see Fig. 45).

(4) **Height of Tables or Counters.** The tops of accessible tables and counters shall be from 28 inches to 34 inches (710 mm to 865 mm) above the finish floor or ground.

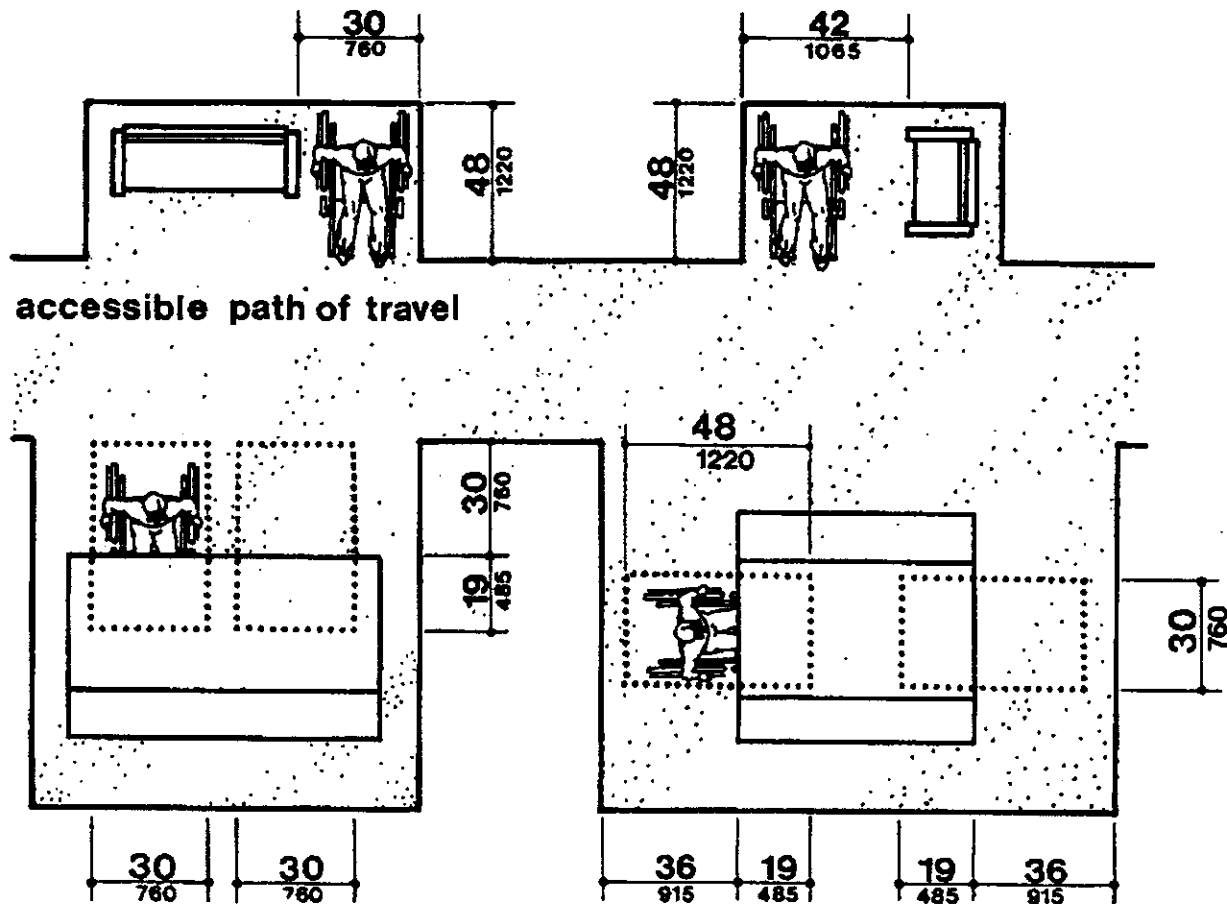


Fig. 45
Minimum Clearances for Seating and Tables

GA ACCESSIBILITY CODE

TABLE A1 -CONVENIENT HEIGHTS OF TABLES AND COUNTERS FOR SEATED PEOPLE¹

CONDITIONS OF USE	SHORT PEOPLE		TALL PEOPLE	
	inches	mm	inches	mm
Seated in a wheelchair: Manual work- Desk or removable armrests Fixed, full-size armrests ²	26	660	30	760
	32 ³	815	32 ³	815
Light, detailed work: Desk or removable armrests Fixed, full-size armrests ²	29	735	34	865
	32 ³	815	34	865
Seated in a 16 inches (405 mm) high chair: Manual work Light, detailed work	26	660	27	685
	28	710	31	785

¹ All dimensions are based on a work-surface thickness of 1 1/2 inches (38 mm) and a clearance of 1 1/2 inches (38 mm) between legs and the underside of a work surface. People who sit will be using the same counter area.

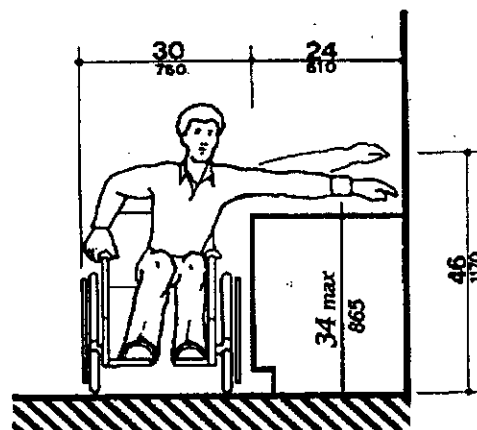
² This type of wheelchair arm does not interfere with the positioning of a wheelchair under a work surface.

³ This dimension is limited by the height of the armrests: a lower height would be preferable. Some people in this group prefer lower work surfaces, which require positioning the wheelchair back from the edge of the counter.

Note: Different types of work require different table or counter heights for comfort and

optimal performance. Light detailed work such as writing requires a table or counter close to elbow height for a standing person. Heavy manual work such as rolling dough requires a counter or table height about 10 inches (255 mm) below elbow height for a standing person. This principle of high/low table or counter heights also applies for seated persons; however, the limiting condition for seated manual work is clearance under the table or counter.

Table A1 shows convenient counter heights for seated persons. The great variety of heights for comfort and optimal performance indicates a need for alternatives or a compromise in height if people who stand and people who sit will be using the same counter area.



Maximum Side Reach over Obstruction

Fig. 6 (c)

Side Reach

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120-3-20-.44 Assembly Areas.

(1) **Minimum Number.** Assembly and associated areas required to be accessible by rule 120-3-20-.03 shall comply with rule 120-3-20-.44.

(2) **Size of Wheelchair Locations.** Each wheelchair location shall provide minimum clear ground or floor spaces as shown in Fig. 46 (a) or (b).

Note: Spaces large enough for two wheelchairs allow people who are coming to a performance together to sit together.

(3) **Placement of Wheelchair Locations.** Wheelchair areas shall be an integral part of any fixed seating plan and shall be provided so as to provide people with physical disabilities a choice of admission prices and lines of sight comparable to those for members of the general public. They shall adjoin an accessible route that also serves as a means of egress in case of emergency. At least one companion fixed seat shall be provided next to each wheelchair seating area. When the seating capacity exceeds 300, wheelchair spaces shall be provided in more than one location. Readily removable seats may be installed in wheelchair spaces when the spaces are not required to accommodate wheelchair users.

EXCEPTION: Accessible viewing positions may be clustered for bleachers, balconies, and other areas having sight lines that require slopes of greater than 5 percent. Equivalent accessible viewing positions may be located on levels having accessible egress.

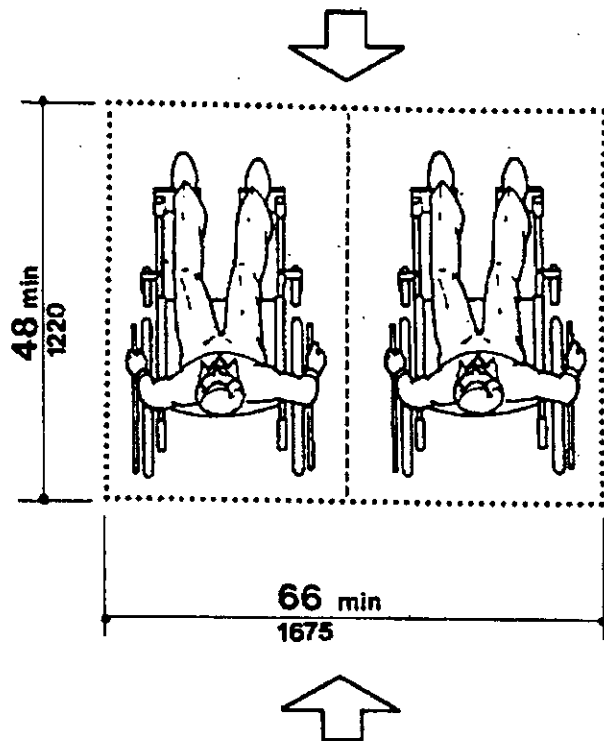


Fig. 46(a) Forward or Rear Access

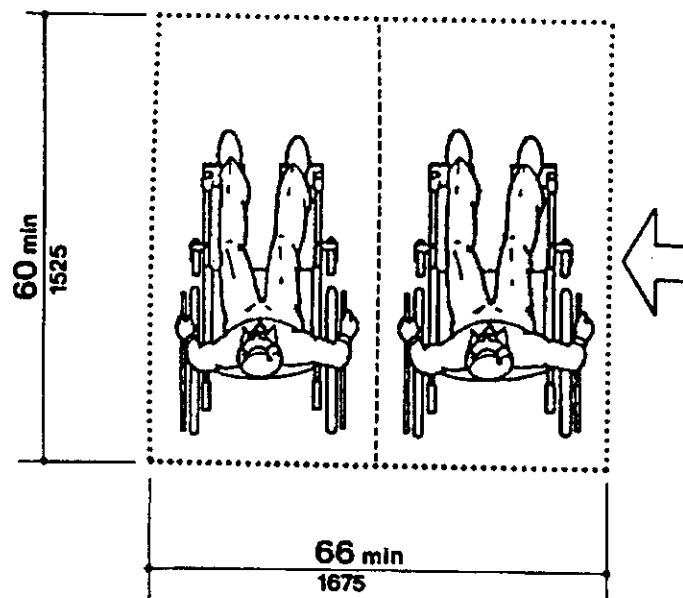


Fig. 46(b) Side Access

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Note: The location of wheelchair areas can be planned so that a variety of positions within the seating area are provided. This will allow choice in viewing and price categories. Building/life safety codes set minimum distances between rows of fixed seats with consideration of the number of seats in a row, the exit aisle width and arrangement, and the location of exit doors. "Continental" seating, with a greater number of seats per row and a commensurate increase in row spacing and exit doors, facilitates emergency egress for all people and increases ease of access to mid-row seats especially for people who walk with difficulty. Consideration of this positive attribute of "continental" seating should be included along with all other factors in the design of fixed seating areas.

(4) Surfaces. The ground or floor at wheelchair locations shall be level and shall comply with rule 120-3-20-.16.

(5) Access to Performing Areas. An accessible route shall connect wheelchair seating locations with performing areas, including stages, arena floors, dressing rooms, locker rooms, and other spaces used by performers.

(6) Placement of Listening Systems. If the listening system provided serves individual fixed seats, then such seats shall be located within a 50 feet (15 m) viewing distance of the stage or playing area and shall have a complete view of the stage or playing area.

Note: A distance of 50 feet (15 m) allows a person to distinguish performers' facial expressions.

(7) Types of Listening Systems. Assistive listening systems (ALS) are intended to augment standard public address and audio systems by providing signals which can be received directly by persons with special receivers or their own hearing aids and which eliminate or filter background noise. The type of Assistive listening system appropriate for a particular application depends on the characteristics of the setting, the nature of the program, and the intended audience. Magnetic induction loops, infra red and radio frequency systems are types of listening systems which are appropriate for various applications.

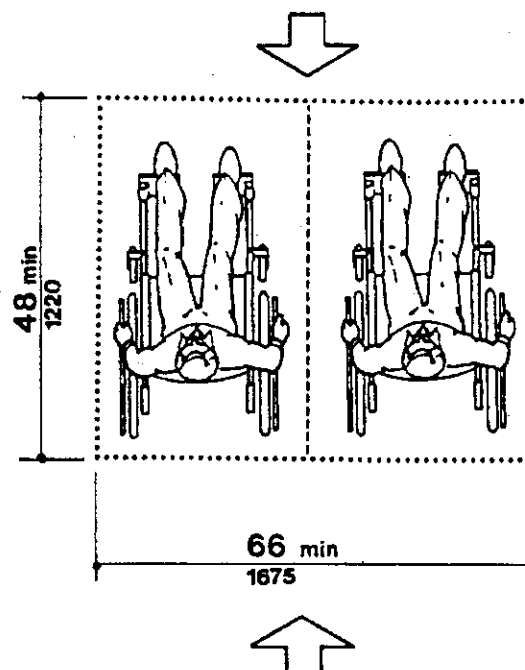


Fig. 46(a) Forward or Rear Access

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Note: An Assistive listening system appropriate for an assembly area for a group of persons or where the specific individuals are not known in advance, such as a playhouse, lecture hall or movie theater, may be different from the system appropriate for a particular individual provided as an auxiliary aid or as part of a reasonable accommodation. The appropriate device for an individual is the type that individual can use, whereas the appropriate system for an assembly area will necessarily be geared toward the "average" or aggregate needs of various individuals. A listening system that can be used from any seat in a seating area is the most flexible way to meet this specification. Earphone jacks with variable volume controls can benefit only people who have slight hearing loss and do not help people who use hearing aids. At the present time, magnetic induction loops are the most feasible type of listening system for people who use hearing aids equipped with "T-coils," but people without hearing aids or those with hearing aids not equipped with inductive pick-ups cannot use them without special receivers. Radio frequency systems can be extremely effective and inexpensive. People without

hearing aids can use them, but people with hearing aids need a special receiver to use them as they are presently designed. If hearing aids had a jack to allow a by-pass of microphones, then radio frequency systems would be suitable for people with and without hearing aids. Some listening systems may be subject to interference from other equipment and feedback from hearing aids of people who are using the systems. Such interference can be controlled by careful engineering design that anticipates feedback sources in the surrounding area.

Table A2, reprinted from a National Institute of Disability and Rehabilitation Research "Rehab Brief," shows some of the advantages and disadvantages of different types of Assistive listening systems. In addition, the Architectural and Transportation Barriers Compliance Board (Access Board) has published a pamphlet on Assistive Listening Systems which lists demonstration centers across the country where technical assistance can be obtained in selecting and installing appropriate systems. The state of New York has also adopted a detailed technical specification which may be useful.

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Table A2 Summary of Assistive Listening Devices

SYSTEM	ADVANTAGES	DISADVANTAGES	TYPICAL APPLICATIONS
<p>Induction Loop</p> <p>Transmitter: Transducer wired to induction loop around listening area.</p> <p>Receiver: Self-contained induction receiver or personal hearing aid with telecoil.</p>	<p>Cost-Effective</p> <p>Low Maintenance</p> <p>Easy to use</p> <p>Unobtrusive</p> <p>May be possible to integrate into existing public address system.</p> <p>Some hearing aids can function as receivers.</p>	<p>Signal spills over to adjacent rooms.</p> <p>Susceptible to electrical interference.</p> <p>Limited portability</p> <p>Inconsistent signal strength</p> <p>Head position affects signal strength.</p> <p>Lack of standards for induction coil performance.</p>	<p>Meeting areas</p> <p>Theaters</p> <p>Churches and Temples</p> <p>Conference rooms</p> <p>Classrooms</p> <p>TV viewing</p>
<p>FM</p> <p>Transmitter: Flashlight-sized worn by speaker.</p> <p>Receiver: With personal hearing aid via DAI or induction neck-loop and telecoil; or self-contained with earphone(s).</p>	<p>Highly portable</p> <p>Different channels allow use by different groups within the same room.</p> <p>High user mobility</p> <p>Variable for large range of hearing losses.</p>	<p>High cost of receivers</p> <p>Equipment fragile</p> <p>Equipment obtrusive</p> <p>High maintenance</p> <p>Expensive to maintain</p> <p>Custom fitting to individual user may be required.</p>	<p>Classrooms</p> <p>Tour groups</p> <p>Meeting areas</p> <p>Outdoor events</p> <p>One-on-one</p>
<p>Infrared</p> <p>Transmitter: Emitter in line-of-sight with receiver.</p> <p>Receiver: Self-contained. Or with personal hearing aid via DAI or induction neckloop and telecoil.</p>	<p>Easy to use</p> <p>Insures privacy or confidentiality</p> <p>Moderate cost</p> <p>Can often be integrated into exiting public address system.</p>	<p>Line-of-sight required between emitter and receiver.</p> <p>Ineffective outdoors</p> <p>Limited portability</p> <p>Requires installation</p>	<p>Theaters</p> <p>Churches and Temples</p> <p>Auditoriums</p> <p>Meetings requiring confidentiality</p> <p>TV viewing</p>

Source: Rehab Brief, National Institute on Disability and Rehabilitation Research, Washington, DC, Vol. XII, No. 10, (1990).

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120-3-20-.45 Automated Teller Machines.

(1) **General.** Each machine required to be accessible by rule 120-3-20-.03 shall be on an accessible route and shall comply with rule 120-3-20-.45.

(2) **Clear Floor Space.** The automatic teller machine shall be located so that clear floor space complying with rule 120-3-20-.13(2) is provided to allow a person using a wheelchair to make a forward approach, parallel approach, or both, to the machine.

(3) **Reach Ranges.**

(a) **Forward Approach Only.** If only a forward approach is possible, operable parts of all controls shall be placed within the forward reach range specified in rule 120-3-20-.13(5).

(b) **Parallel Approach Only.** If only a parallel approach is possible, operable parts of controls shall be placed as follows:

1. Reach Depth Not More than 10 inches (255 mm). Where the reach depth to the operable parts of all controls as measured from the vertical plane perpendicular to the edge of the unobstructed clear floor space at the farthest protrusion of the automated teller machine or surround is not more than 10 in (255 mm), the maximum height above the finished floor or grade shall be 54 in (1370 mm).

2. Reach Depth More than 10 inches (255 mm). Where the reach depth to the operable parts of any control as measured from the vertical plane

perpendicular to the edge of the unobstructed clear floor space at the farthest protrusion of the automatic teller machine or surround is more than 10 inches (255 mm), the maximum height above the finished floor or grade shall be as follows:

Reach Depth		Maximum Height	
Inches	mm	Inches	mm
10	255	54	1370
11	280	53 ½	1360
12	305	53	1345
13	330	52 ½	1335
14	355	51 ½	1310
15	380	51	1295
16	405	50 ½	1285
17	430	50	1270
18	455	49 ½	1255
19	485	49	1245
20	510	48 ½	1230
21	535	47 ½	1205
22	560	47	1195
23	585	46 ½	1180
24	610	46	1170

3. **Forward and Parallel Approach.** If both a forward and parallel approach are possible, operable parts of controls shall be placed within at least one of the reach ranges in paragraphs (a) or (b) of this section.

4. **Bins.** Where bins are provided for envelopes, waste paper, or other purposes, at least one of each type provided shall comply with the applicable reach ranges in paragraphs (a), (b), or (c) of this section.

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EXCEPTION: Where a function can be performed in a substantially equivalent manner by using an alternate control, only one of the controls needed to perform that function is required to comply with this section. If the controls are identified by tactile markings, such marking shall be provided on both controls.

(4) Controls. Controls for user activation shall comply with rule 120-3-20-.38(4).

(5) Equipment for Persons with Vision Impairments. Instructions and all information for use shall be made accessible to and independently usable by persons with vision impairments.

120-3-20-.46

Dressing and Fitting Rooms.

(1) General. Dressing and fitting rooms required to be accessible by rule 120-3-20-.03 shall comply with rule 120-3-20-.46 and shall be on an accessible route.

(2) Clear Floor Space. A clear floor space allowing a person using a wheelchair to make a 180-degree turn shall be provided in every accessible dressing room entered through a swinging or sliding door. No door shall swing into any part of the turning space. Turning space shall not be required in a private dressing room entered through a curtained opening at least 32 inches (815 mm) wide if clear floor space complying with rule 120-3-20-.13 renders the dressing room usable by a person using a wheelchair.

(3) Doors. All doors to accessible dressing rooms shall be in compliance with rule 120-3-20-.24.

(4) Bench. Every accessible dressing room shall have a 24 inches by 48 inches bench fixed to the wall along the longer dimension. The bench shall be mounted 17 inches to 19 inches (430 mm to 485 mm) above the finish floor. Clear floor space shall be provided alongside the bench to allow a person using a wheelchair to make a parallel transfer onto the bench. The structural strength of the bench and attachments shall comply with rule 120-3-20.37(3). Where installed in conjunction with showers, swimming pools, or other wet locations, water shall not accumulate upon the surface of the bench and the bench shall have a slip-resistant surface.

(5) Mirrors. Where mirrors are provided in dressing rooms of the same use, then in an accessible dressing room, a full-length mirror, measuring at least 18 inches wide by 54 inches high (460 mm by 1370 mm), shall be mounted in a position affording a view to a person on the bench as well as to a person in a standing position.

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120-3-20.47

RESTAURANTS AND CAFETERIAS

(1) **General.** Except as specified or modified in this section, restaurants and cafeterias shall comply with the requirements of rule 120-3-20-.03 to rule 120-3-20-.52.

Where fixed tables (or dining counters where food is consumed but there is no service) are provided, at least **5 percent**, but not less than one, of the fixed tables (or a portion of the dining counter) shall be accessible and shall comply with rule 120-3-20-.43 as required in rule 120-3-20-.08(18). In establishments where separate areas are designated for smoking and nonsmoking patrons, the required number of accessible fixed tables (or counters) shall be proportionally distributed between the smoking and nonsmoking areas. In new construction, and where practicable in alterations, accessible fixed tables (or counters) shall be distributed throughout the space or facility.

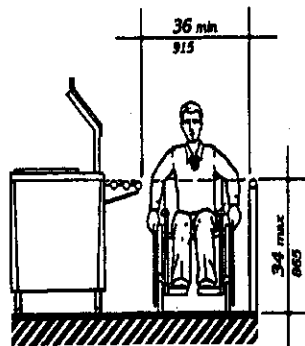


Fig. 53
Food Service Lines

typically found in small carry-out restaurants, bakeries, or coffee shops and may be only a narrow eating surface attached to a wall. This section requires that where such a dining counter is provided, a portion of the counter shall be at the required accessible height.

(2) **Counters and Bars.** Where food or drink is served at counters exceeding 34 inches (865 mm) in height for consumption by customers seated on stools or standing at the counter, a portion of the main counter which is 60 inches (1525 mm) in length minimum shall be provided in compliance with rule 120-3-20-.43 or service shall be available at accessible tables within the same area.

(3) **Access Aisles.** All accessible fixed tables shall be accessible by means of an access aisle at least 36 inches (915 mm) clear between parallel edges of tables or between a wall and the table edges.

(4) **Dining Areas.** In new construction, all dining areas, including raised or sunken dining areas, loggias, and outdoor seating areas, shall be accessible. In buildings without elevators, an accessible means of vertical access to the mezzanine is not required under the following conditions:

Note: Dining counters (where there is no service) are

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(a) the area of mezzanine seating measures no more than 33 percent of the area of the total accessible seating area;

(b) the same services and decor are provided in an accessible space usable by the general public; and,

(c) the accessible areas are not restricted to use by people with disabilities. In alterations, accessibility to raised or sunken dining areas, or to all parts of outdoor seating areas is not required provided that the same services and decor are provided in an accessible space usable by the general public and are not restricted to use by people with disabilities.

(5) Food Service Lines. Food service lines shall have a minimum clear width of 36 inches, with a preferred clear width of 42 inches to allow passage around a person using a wheelchair. Tray slides shall be mounted no higher than

34 inches above the floor (see Fig. 53).

If self-service shelves are provided, at least **50 percent** of each type must be within reach ranges specified in

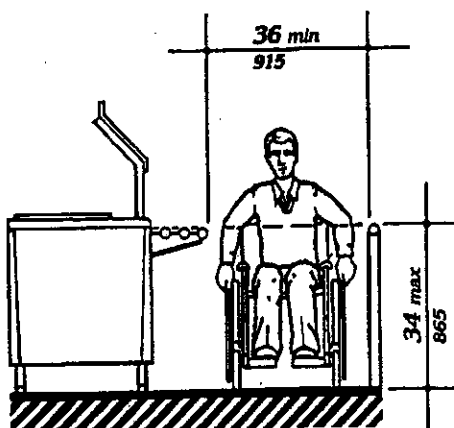


Fig. 53
Food Service Lines

rule 120-3-20.13(5) and rule 120-3-20.13(6).

(6) Tableware and Condiment Areas. Self-service shelves and dispensing devices for tableware, dish ware, condiments, food and beverages shall be installed to comply with rule 120-3-20.13 (see Fig. 54).

(7) Raised Platforms. In banquet rooms or spaces where a head table or speaker's lectern is located on a raised platform, the platform shall be accessible in compliance with rule 120-3-20.19 or rule 120-3-20.22. Open edges of a raised platform shall be protected by placement of tables or by a curb.

(8) Vending Machines and Other Equipment. Spaces for vending machines and other equipment shall comply with rule 120-3-20.13 and shall be located on an accessible route.

(9) Quiet Areas. (Reserved).

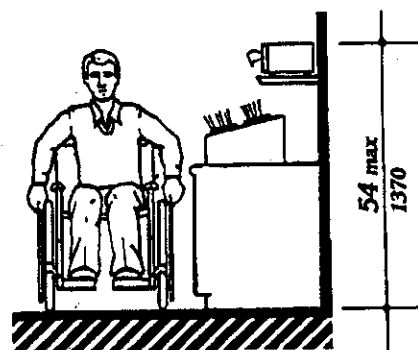


Fig. 54
Tableware Areas

120-3-20-.48

MEDICAL CARE FACILITIES

(1) **General.** Medical care facilities included in this section are those in which people receive physical or medical treatment or care and where persons may need assistance in responding to an emergency and where the period of stay may exceed **twenty-four hours**. In addition to the requirements of rules 120-3-20-.03 through 120-3-20-.52, medical care facilities shall comply with rule 120-3-20-.48.

(a) Hospitals - general purpose hospitals, psychiatric facilities, detoxification facilities - at **least 10 percent** of patient bedrooms and toilets, and **all public use and common use areas are required** to be designed and constructed to be accessible.

(b) Hospitals and rehabilitation facilities that specialize in treating conditions that affect mobility, or units within either that specialize in treating conditions that affect mobility - **All patient bedrooms and toilets,** **and** all public use and common use areas are required to be designed and constructed to be accessible.

(c) Long term care facilities, nursing homes - **at least 50 percent** of patient bedrooms and toilets, and **all** public use and common use areas are required to be designed and constructed to be accessible.

(d) Alterations to patient bedrooms:

(1) When patient bedrooms are being added or altered as part of a planned renovation of an entire wing, a department, or other discrete area of an existing medical facility, **a percentage of the patient bedrooms that are being added or altered shall comply with rule 120-3-20-.48 (3)**. The percentage of accessible rooms provided shall be consistent with the percentage of rooms required to be accessible by the applicable requirements of rules 120-3-20-.48(1)(a), 120-3-20-.48(1)(b), or 120-3-20-.48(1)(c), until the number of accessible patient bedrooms in the facility equals the overall number that would be required if the facility were newly constructed. (For example, if 20 patient bedrooms are being altered in the obstetrics department of a hospital, 2 of the altered rooms must be made accessible. If, within the same hospital, 20 patient bedrooms are being altered in a unit that specializes in treating mobility impairments, all of the altered rooms must be made accessible.) Where toilet/bathrooms are part of patient bedrooms which are added or altered and required to be accessible, each such patient toilet/bathroom shall comply with rule 120-3-20-.48(4).

(b) When patient bedrooms are being added or altered individually, and not as part of an alteration of the entire area,

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the altered patient bedrooms shall comply with rule 120-3-20-.48(3), unless either:

a) the number of accessible rooms provided in the department or area containing the altered patient bedroom equals the number of accessible patient bedrooms that would be required if the percentage requirements of rules 120-3-20-.48(1)(a), 120-3-20-.48(1)(b), or 120-3-20-.48(1)(c) were applied to that department or area; or

b) the number of accessible patient bedrooms in the facility equals the overall number that would be required if the facility were newly constructed. Where toilet/bathrooms are part of patient bedrooms which are added or altered and required to be accessible, each such toilet/bathroom shall comply with rule 120-3-20-.48(4).

(2) Entrances. At least one accessible entrance that complies with rule 120-3-20-.25 shall be protected from the weather by canopy or roof overhang. Such entrances shall incorporate a passenger loading zone that complies with rule 120-3-20-.17(6).

(3) Patient Bedrooms. Provide accessible patient bedrooms in compliance with rules 120-3-20-.03 through 120-3-20-.46. Accessible patient bedrooms shall comply with the following:

(a) Each bedroom shall have a door that complies with rule 120-3-20-.24.

(b) Each bedroom shall have adequate space to provide a maneuvering space that complies with rule 120-3-20-.13(3). In rooms with 2 beds, it is preferable that this space be located between beds.

(c) Each bedroom shall have adequate space to provide a minimum clear floor space of **36 inches** (915 mm) along each side of the bed and to provide an accessible route complying with rule 120-3-20-.14(3) to each side of each bed.

(4) Patient Toilet Rooms. Where toilet/bath rooms are provided as a part of a patient bedroom, each patient bedroom that is required to be accessible shall have an accessible toilet/bath room that complies with rule 120-3-20-.33 or rule 120-3-20-.34 and shall be on an accessible route.

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120-3-20-.49

BUSINESS AND MERCANTILE

(1) **General.** In addition to the requirements of rules 120-3-20-.03 through 120-3-20-.46, the design of all areas used for business transactions with the public shall comply with rule 120-3-20-.49.

(2) Sales and Service Counters, Teller Windows, Information Counters.

(a) In department stores and miscellaneous retail stores where counters have cash registers and are provided for sales or distribution of goods or services to the public, at least one of each type shall have a portion of the counter which is at least **36 inches (915mm)** in length with a maximum height of **36 inches (915 mm)** above the finish floor. It shall be on an accessible route complying with rule 120-3-20-.14. The accessible counters must be dispersed throughout the building or facility. In **alterations** where it is technically infeasible to provide an accessible counter, an auxiliary counter meeting these requirements may be provided.

(b) At ticketing counters, teller stations in a bank, registration counters in hotels and motels, box office ticket counters, and other counters that may not have a cash register but at which goods or services are sold or distributed, either:

1. a portion of the main counter which is a minimum of **36 inches (915 mm)** in length shall be provided with a maximum height of **36 inches (915 mm)**; or

2. an auxiliary counter with a maximum height of **36 inches (915 mm)** in close proximity to the

main counter shall be provided; or

3. equivalent facilitation shall be provided (e.g., at a hotel registration counter, equivalent facilitation might consist of:

(i) provision of a folding shelf attached to the main counter on which an individual with disabilities can write, and

(ii) use of the space on the side of the counter or at the concierge desk, for handing materials back and forth). All accessible sales and service counters shall be on an accessible route complying with rule 120-3-20-.14

(c) Assistive Listening Devices. (Reserved)

Note: At all sales and service counters, teller windows, box offices, and information kiosks where a physical barrier separates service personnel and customers, it is recommended that at least one permanently installed Assistive listening device complying with rule 120-3-20-.44 be provided at each location or series. Where Assistive listening devices are installed, signage should be provided identifying those stations which are so equipped.

(3) Check out Aisles.

(a) In new construction, accessible check out aisles shall be provided in conformance with the table below:

Total Check out Aisles of Each Design	Minimum Number of Accessible Check out Aisles of Each Design
1 - 4	1
5 - 8	2
8 - 15 over 15	3 plus 20% of additional aisles

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EXCEPTION: In new construction, where the selling space is less than **5000 square feet**, only one check out aisle is required to be accessible.

EXCEPTION: In alterations, at least one check out aisle shall be accessible in facilities less than 5000 square feet of selling space. In facilities of 5000 or more square feet of selling space, at least one of each design of check out aisle shall be made accessible when altered until the number of accessible check out aisles of each design equals the number required in new construction.

Examples of check out aisles of different "design" include those which are specifically designed to serve different functions. Different "design" includes but is not limited to the following features: length of belt or no belt; or permanent signage designating the aisle as an express lane.

(b) Clear aisle width for accessible check out aisles shall comply with rule 120-3-3-20-.13(1) and maximum **adjoining counter height shall not exceed 38 inches** (965 mm) above the finish floor. The top of the lip shall not exceed 40 inches (1015 mm) above the finish floor.

(c) Signage identifying accessible check out aisles shall comply with rule 120-3-20.41(7) and shall be mounted above the check out aisle in the same location where the check out number or type of check out is displayed.

Note: Rule 120-3-20-.49(2) refers to counters without aisles; rule 120-3-20-.49(3) concerns check out aisles. A counter without an aisle (rule 120-3-20-.49(2)) can be approached from more than one direction such as in a convenience store. In order to use a check out aisle (rule 120-3-20-.49(3)), customers must enter a defined area (an aisle) at a

particular point, pay for goods, and exit at a particular point.

(4) Security Bollards. Any device used to prevent the removal of shopping carts from store premises shall not prevent access or egress to people in wheelchairs. An alternate entry that is equally convenient to that provided for the ambulatory population is acceptable.

(1) General. In addition to the requirements of

120-3-20-.50 LIBRARIES.

rules 120-3-20-.03 to 120-3-20-.46, the design of all public areas of a library shall comply with rule 120-3-20-.50, including reading and study areas, stacks, reference rooms, reserve areas, and special facilities or collections.

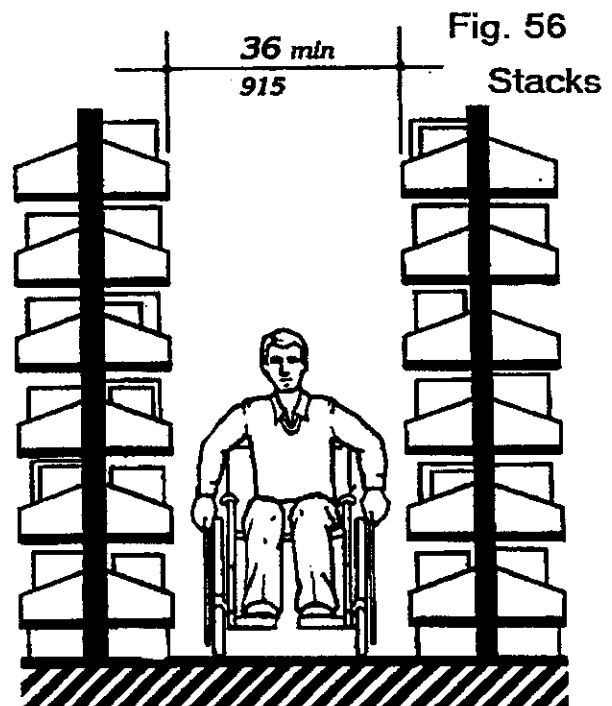
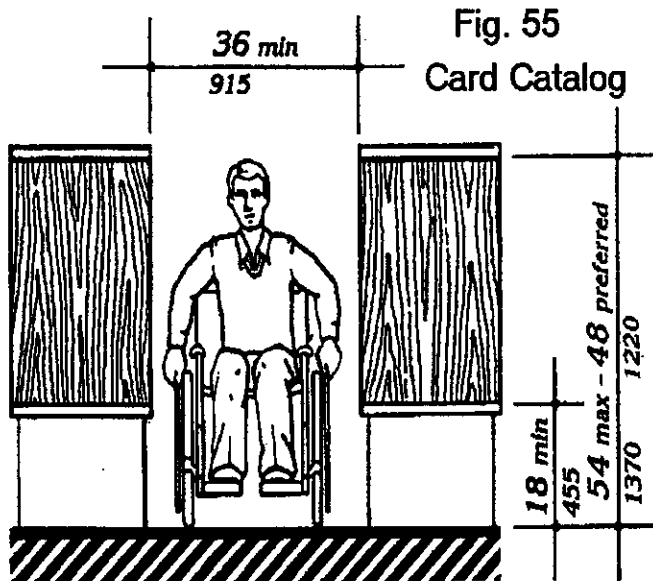
(2) Reading and Study Areas. At least **5 percent** or a minimum of one of each element of fixed seating, tables, or study carrels shall comply with rule 120-3-20-.13 and rule 120-3-20-.43. Clearances between fixed accessible tables and between study carrels shall comply with rule 120-3-20-.14.

(3) Check-Out Areas. At least one lane at each check out area shall comply with rule 120-3-20-.49(2)(a). Any traffic control or book security gates or turnstiles shall comply with rule 120-3-20-.24.

(4) Card Catalogs and Magazine Displays. Minimum clear aisle space at card catalogs and magazine displays shall comply with Fig. 55. Maximum reach height shall comply with rule 120-3-20-.13, with a height of 48 inches (1220 mm) preferred irrespective of approach allowed.

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(5) **Stacks.** Minimum clear aisle width between stacks shall comply with rule 120-3-20-.14, with a minimum clear aisle width of 42 inches (1065 mm) preferred where possible. Shelf height in stack areas is unrestricted (see Fig. 56).



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120-3-20-.51 ACCESSIBLE TRANSIENT LODGING

Except as specified in the special technical provisions of this section, accessible transient lodging shall comply with the applicable requirements of rules 120-3-20-.03 through 120-3-20-.46. Transient lodging includes facilities or portions thereof used for sleeping accommodations, when not classed as a medical care facility.

(1) Hotels, Motels, Inns, Boarding Houses, Dormitories, Resorts and Other Similar Places of Transient Lodging.

(a) General. All public use and common use areas are required to be designed and constructed to comply with rule 120-3-20-.03 (Accessible Elements and Spaces: Scope and Technical Requirements).

EXCEPTION: Rules 120-3-20-.51(1) through 120-3-20-.51(4) do not apply to an establishment located within a building that contains not more than five rooms for rent or hire and that is actually occupied by the proprietor of such establishment as the residence of such proprietor.

(b) Accessible Units, Sleeping Rooms, and Suites. Accessible sleeping rooms or suites that comply with the requirements of rule 120-3-20-.51(2). (Requirements for Accessible Units, Sleeping Rooms, and Suites) shall be provided in conformance with the table below. In addition, in hotels, of 50 or more sleeping rooms or suites,

additional accessible sleeping rooms or suites that include a roll-in shower shall also be provided in conformance with the table below. Such accommodations shall comply with the requirements of rule 120-3-20-.51(2), rule 120-3-20-.32, and Figure 57(a) or (b).

Number of Rooms	Accessible Rooms	Rooms with Roll-in Showers
1 to 25	1	
26 to 50	2	1
51 to 75	3	1
76 to 100	4	1
101 to 150	5	2
151 to 200	6	2
201 to 300	7	3
301 to 400	8	4
401 to 500	9	4 plus one for each additional 100 over 400
501 to 1000	2% of total	
1001 and over	20 plus 1 for each 100 over 1000	

(c) Sleeping Accommodations for Persons with Hearing Impairments. In addition to those accessible sleeping rooms and suites required by rule 120-3-20-.51(2), sleeping rooms and suites that comply with rule 120-3-20-.51(3) (Visual Alarms, Notification Devices, and Telephones) shall be provided in conformance with the following table:

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Number of Elements	Accessible Elements
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% of total
1001 and over	20 plus 1 for each 100 over 1000

(d) Classes of Sleeping Accommodations.

1. In order to provide persons with disabilities a range of options equivalent to those available to other persons served by the facility, sleeping rooms and suites required to be accessible by rule 120-3-20-.51(b) shall be dispersed among the various classes of sleeping accommodations available to patrons of the place of transient lodging. Factors to be considered including room size, cost, amenities provided, and the number of beds provided.

2. Equivalent Facilitation. For purposes of this section, it shall be deemed equivalent facilitation if the operator of a facility elects to limit construction of accessible rooms to those intended for multiple occupancy, provided that such rooms are made available at the cost of a single occupancy room to an individual with disabilities who requests a single-occupancy room.

(e) Alterations to Accessible Units, Sleeping Rooms, and Suites. When sleeping rooms are being altered in an existing facility, or portion

thereof, subject to the requirements of this section, at least one sleeping room or suite that complies with the requirements of rule 120-3-20-.51(2) (Requirements for Accessible Units, Sleeping Rooms, and Suites) shall be provided for each 25 sleeping rooms, or fraction thereof, of rooms being altered until the number of such rooms provided equals the number required to be accessible with rule 120-3-20-.51(b). In addition, at least one sleeping room or suite that complies with the requirements of rule 120-3-20-.51(3) (Visual Alarms, Notification Devices, and Telephones) shall be provided for each 25 sleeping rooms, or fraction thereof, of rooms being altered until the number of such rooms equals the number required to be accessible by rule 120-3-20-.51(c).

(2) Requirements for Accessible Units, Sleeping Rooms and Suites.

(a) General. Units, sleeping rooms, and suites required to be accessible by rule 120-3-20-.51(1) shall comply with rule 120-3-20-.51(2).

(b) Minimum Requirements. An accessible unit, sleeping room or suite shall be on an accessible route complying with rule 120-3-20-.14 and have the following accessible elements and spaces.

1. Accessible sleeping rooms shall have a 36 inches (915 mm) clear width maneuvering space located along both sides of a bed, except that where two beds are provided, this requirement can be met by providing a 36 inches (915 mm) wide maneuvering space located between the two beds.

2. An accessible route complying with rule 120-3-20-.14 shall connect all accessible spaces and elements, including telephones, within the unit,

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sleeping room, or suite. This is not intended to require an elevator in multistory units as long as the spaces identified in rule 120-3-20-.51(2)(b)(6) and rule 120-3-20-.51(2)(b)(7) are on accessible levels and the accessible sleeping area is suitable for dual occupancy.

3. Doors and doorways designed to allow passage into and within all sleeping rooms, suites or other covered units shall comply with rule 120-3-20-.24.

4. If fixed or built-in storage facilities such as cabinets, shelves, closets, and drawers are provided in accessible spaces, at least one of each type provided shall contain storage space complying with rule 120-3-20-.36. Additional storage may be provided outside of the dimensions required by rule 120-3-20-.36.

5. All controls in accessible units, sleeping rooms, and suites shall comply with rule 120-3-20-.38.

6. Where provided as part of an accessible unit, sleeping room, or suite, the following spaces shall be accessible and shall be on an accessible route:

- (a) the living area.
- (b) the dining area.
- (c) at least one sleeping area.
- (d) patios, terraces, or balconies.

EXCEPTION: The requirements of rule 120-3-20-.24(8) and rule 120-3-20-.14(8) do not apply where it is necessary to utilize a higher door threshold or a change in level to protect the integrity of the unit from wind/water damage. Where this exception results in patios, terraces or balconies that are not at an accessible level, equivalent facilitation shall be provided. (e.g., Equivalent facilitation at a hotel patio or balcony might consist of providing raised decking or a ramp to provide accessibility).

(e) at least one full bathroom (i.e., one with a water closet, a lavatory, and a bathtub or shower).

(f) if only half baths are provided, at least one half bath.

(g) carports, garages or parking spaces.

7. Kitchens, Kitchenettes, or Wet Bars. When provided as accessory to a sleeping room or suite, kitchens, kitchenettes, wet bars, or similar amenities shall be accessible. Clear floor space for a front or parallel approach to cabinets, counters, sinks, and appliances shall be provided to comply with rule 120-3-20-.13(4). Counter tops and sinks shall be mounted at a maximum height of 34 inches (865 mm) above the floor. At least fifty percent of shelf space in cabinets or refrigerator /freezers shall be within the reach ranges of rule 120-3-20-.13(5) or rule 120-3-20-.13(6) and space shall be designed to allow for the operation of cabinet and/or appliance doors so that all cabinets and appliances are accessible and usable. Controls and operating mechanisms shall comply with rule 120-3-20-.38.

8. Sleeping room accommodations for persons with hearing impairments required by rule 120-3-20-.51 and complying with rule 120-3-20-.51(3) shall be provided in the accessible sleeping room or suite.

(3) Visual Alarms, Notification Devices and Telephones.

(a) General. In sleeping rooms required to comply with this section, auxiliary visual alarms shall be provided and shall comply with rule 120-3-20-.39(4). Visual notification devices shall also be provided in units, sleeping rooms and suites to alert room occupants of **incoming telephone calls and a door knock or bell**. Notification devices

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shall not be connected to auxiliary visual alarm signal appliances. Permanently installed telephones shall have volume controls complying with rule 120-3-20-.42(5); an accessible electrical outlet within 4 feet (1220 mm) of a telephone connection shall be provided to facilitate the use of a text telephone.

(b) Equivalent Facilitation. For purposes of this section, equivalent facilitation shall include the installation of electrical outlets (including outlets connected to a facility's central alarm system) and telephone wiring in sleeping rooms and suites to enable persons with hearing impairments to utilize portable visual alarms and communication devices provided by the operator of the facility.

(4) Other Sleeping Rooms and Suites. Doors and doorways designed to allow passage into and within all sleeping units or other covered units shall comply with rule 120-3-20-.24(5).

(5) Transient Lodging in Homeless Shelters, Halfway Houses, Transient Group Homes, and Other Social Service Establishments.

(a) New Construction. In new construction all public use and common use areas are required to be designed and constructed to comply with rule 120-3-20.08. At least one of each type of amenity (such as washers, dryers and similar equipment installed for the use of occupants) in each common area shall be accessible and shall be located on an accessible route to any accessible unit or sleeping accommodation.

EXCEPTION: *Where elevators are not provided as allowed in rule 120-3-20-.08(5), accessible amenities are not required on inaccessible floors as long as one of each type is provided in common areas on accessible floors.*

(b) Alterations.

1. Social service establishments which are not homeless shelters:

(i) The provisions of rule 120-3-20-.51(5)(c) and rule 120-3-20-.51(1)(e) shall apply to sleeping rooms and beds.

(ii) Alteration of other areas shall be consistent with the new construction provisions of rule 120-3-20-.51(5)(a).

(2) Homeless shelters. If the following elements are altered, the following requirements apply:

(a) at least one public entrance shall allow a person with mobility impairments to approach, enter and exit including a minimum clear door width of 32 inches (815 mm).

(b) sleeping space for homeless persons as provided in the scoping provisions of rule 120-3-20-.51(1)(b) shall include doors to the sleeping area with a minimum clear width of 32 inches (815 mm) and maneuvering space around the beds for persons with mobility impairments complying with rule 120-3-20-.51(2)(a).

(c) at least one toilet room for each sex or one unisex toilet room shall have a minimum clear door width of 32 inches (815 mm), minimum turning space complying with rule 120-3-20-.13(3), one water closet complying with rule 120-3-20-.27, one lavatory complying with rule 120-3-20-.30 and the door shall have a privacy latch; and, if provided, at least one tub or shower shall comply with rule 120-3-20-.31 or rule 120-3-20-.32, respectively.

(d) at least one common area which a person with mobility impairments can approach, enter and exit including a minimum clear door width of 32 inches.

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(e) at least one route connecting elements (a), (b), (c) and (d) which a person with mobility impairments can use including minimum clear width of 36 inches (915 mm), passing space complying with rule 120-3-20-.14(4), turning space complying with rule 120-3-20-.14(3) and changes in levels complying with rule 120-3-20-.14(8).

(f) homeless shelters can comply with the provisions of (a)-(e) by providing the above elements on one accessible floor.

(3) Accessible Sleeping Accommodations in New Construction. Accessible sleeping rooms shall be provided in conformance with the table in rule 120-3-20-.51(1)(b) and shall comply with rule 120-3-20-.51(2) Accessible Units, Sleeping Rooms and Suites (where the items are provided). Additional sleeping rooms that comply with rule 120-3-20-.51(3) Sleeping Accommodations for Persons with Hearing Impairments shall be provided in conformance with the table provided in rule 120-3-20-.51(1)(c). In facilities with multi-bed rooms or spaces, a percentage of the beds equal to the table provided in rule 120-3-20-.51(1)(b) shall comply with rule 120-3-20-.51(2)(b)(1).

120-3-20-.52 TRANSPORTATION FACILITIES

(1) General. Every station, bus stops, bus stop pad, terminal, building or other transportation facility, shall comply with the applicable provisions of rules 120-3-20-.03 through 120-3-

20-.46, rules 120-3-20-.47 through 120-3-20-.51, and the applicable provisions of this section. The exceptions for elevators in rule 120-3-20-.08(5), exception 1 and rule 120-3-20-.11(1)(k) do not apply to a terminal, depot, or other station used for specified public transportation, or an airport passenger terminal, or facilities subject to Title II.

(2) Bus Stops and Terminals.

(a) New Construction.

1. Where new bus stop pads are constructed at bus stops, bays or other areas where a lift or ramp is to be deployed, they shall have a firm, stable surface; a minimum clear length of 96 inches (measured from the curb or vehicle roadway edge) and a minimum clear width of 60 inches (measured parallel to the vehicle roadway) to the maximum extent allowed by legal or site constraints; and shall be connected to streets, sidewalks or pedestrian paths by an accessible route complying with rule 120-3-20-.14 and rule 120-3-20-.15. The slope of the pad parallel to the roadway shall, to the extent practicable, be the same as the roadway. For water drainage, a maximum slope of 1:50 (2%) perpendicular to the roadway is allowed.

2. Where provided, new or replaced bus shelters shall be installed or positioned so as to permit a wheelchair or mobility aid user to enter from the public way and to reach a location, having a minimum clear floor area of 30 inches by 48 inches, entirely within the perimeter of the shelter. Such shelters shall be connected by an accessible route to the boarding area provided under paragraph (1) of this section.

3. Where provided, all new bus route identification signs shall comply with rule 120-3-20-.41(5). In addition, to the maximum extent practicable, all new bus route identification signs shall comply with rule 120-3-20-.41(2) and rule

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120-3-20-.41(3). Signs that are sized to the maximum dimensions permitted under legitimate local, state or federal regulations or ordinances shall be considered in compliance with rule 120-3-20-.41(2) and rule 120-3-20-.41(3) for purposes of this section.

EXCEPTION: *Bus schedules, timetables, or maps that are posted at the bus stop or bus bay are not required to comply with this provision.*

(b) Bus Stop Siting and Alterations.

1. Bus stop sites shall be chosen such that, to the maximum extent practicable, the areas where lifts or ramps are to be deployed comply with rule 120-3-20-.52(a)1 and 2.

2. When new bus route identification signs are installed or old signs are replaced, they shall comply with the requirements of rule 120-3-20-.52(a)3.

(3) Fixed Facilities and Stations.

(a) New Construction.

New stations in rapid rail, light rail, commuter rail, intercity bus, intercity rail, high speed rail, and other fixed guide way systems (e.g., automated guide way transit, monorails, etc.) shall comply with the following provisions, as applicable:

1. Elements such as ramps, elevators or other circulation devices, fare vending or other ticketing areas, and fare collection areas shall be placed to minimize the distance which wheelchair users and other persons who cannot negotiate steps may have to travel compared to the general public. The circulation path, including an accessible entrance and an accessible route, for persons with disabilities shall, to the maximum extent practicable, coincide with the circulation path for

the general public. Where the circulation path is different, signage complying with rules 120-3-20-.41(1), 120-3-20-.41(2), 120-3-20-.41(3), 120-3-20-.41(5), and 120-3-20-.41(7)(1) shall be provided to indicate direction to and identify the accessible entrance and accessible route.

2. In lieu of compliance with rule 120-3-20-.08(8), at least one entrance to each station shall comply with rule 120-3-20-.25, Entrances. If different entrances to a station serve different transportation fixed routes or groups of fixed routes, at least one entrance serving each group or route shall comply with rule 120-3-20-.25, Entrances. All accessible entrances shall, to the maximum extent practicable, coincide with those used by the majority of the general public.

3. Direct connections to commercial, retail, or residential facilities shall have an accessible route complying with rule 120-3-20-.14 from the point of connection to boarding platforms and all transportation system elements used by the public. Any elements provided to facilitate future direct connections shall be on an accessible route connecting boarding platforms and all transportation system elements used by the public.

4. Where signs are provided at entrances to stations identifying the station or the entrance, or both, at least one sign at each entrance shall comply with rule 120-3-20-.41(1) 4.30.4 and rule 120-3-20-.41(6). Such signs shall be placed in uniform locations at entrances within the transit system to the maximum extent practicable.

EXCEPTION: *Where the station has no defined entrance, but signage is provided, then the accessible signage shall be placed in a central location.*

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5. Stations covered by this section shall have identification signs complying with rules 120-3-20-.41(1), 120-3-20-.41(2), 120-3-20-.41(3), 120-3-20-.41(5). Signs shall be placed at frequent intervals and shall be clearly visible from within the vehicle on both sides when not obstructed by another train. When station identification signs are placed close to vehicle windows (i.e., on the side opposite from boarding) each shall have the top of the highest letter or symbol below the top of the vehicle window and the bottom of the lowest letter or symbol above the horizontal mid-line of the vehicle window.

6. Lists of stations, routes, or destinations served by the station and located on boarding areas, platforms, or mezzanines shall comply with rules 120-3-20-.41(1), 120-3-20-.41(2), 120-3-20-.41(3), 120-3-20-.41(5). A minimum of one sign identifying the specific station and complying with rule 120-3-20-.41(4) and rule 120-3-20-.41(6) shall be provided on each platform or boarding area. All signs referenced in this paragraph shall, to the maximum extent practicable, be placed in uniform locations within the transit system.

7. Automatic fare vending, collection and adjustment (e.g., add-fare) systems shall comply with rules 120-3-20-.45(2), 120-3-20-.45(3), and 120-3-20-.45(4). At each accessible entrance such devices shall be located on an accessible route. If self-service fare collection devices are provided for the use of the general public, at least one accessible device for entering, and at least one for exiting, unless one device serves both functions, shall be provided at each accessible point of entry or exit. Accessible fare collection devices shall have a minimum clear opening width of 32 inches; shall permit passage of a wheelchair; and, where provided, coin or card slots and controls

necessary for operation shall comply with rule 120-3-20-.38. Gates which must be pushed open by wheelchair or mobility aid users shall have a smooth continuous surface extending from 2 inches above the floor to 27 inches above the floor and shall comply with rule 120-3-20-.24. Where the circulation path does not coincide with that used by the general public, accessible fare collection systems shall be located at or adjacent to the accessible point of entry or exit.

Note: One means of making control buttons on fare vending machines usable by persons with vision impairments is to raise them above the surrounding surface. Those activated by a mechanical motion are likely to be more detectable. If fare card vending, collection, and adjustment devices are designed to accommodate fare cards having one tactually distinctive corner, then a person who has a vision impairment will insert the card with greater ease. Token collection devices that are designed to accommodate tokens which are perforated can allow a person to distinguish more readily between tokens and common coins. Thoughtful placement of accessible gates and fare vending machines in relation to inaccessible devices will make their use and detection easier for all persons with disabilities.

8. Platform edges bordering a drop-off and not protected by platform screens or guard rails shall have a detectable warning. Such detectable warnings shall comply with rule 120-3-20-.40(2) and shall be 24 inches wide running the full length of the platform drop-off.

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9. In stations covered by this section, rail-to-platform height in new stations shall be coordinated with the floor height of new vehicles so that the vertical difference, measured when the vehicle is at rest, is within plus or minus 5/8 inch under normal passenger load conditions. For rapid rail, light rail, commuter rail, high speed rail, and intercity rail systems in new stations, the horizontal gap, measured when the new vehicle is at rest, shall be no greater than 3 inches. For slow moving automated guideway "people mover" transit systems, the horizontal gap in new stations shall be no greater than 1 inch.

EXCEPTION 1: *Existing vehicles operating in new stations may have a vertical difference with respect to the new platform within plus or minus 1 1/2 inches.*

EXCEPTION 2: *In light rail, commuter rail and intercity rail systems where it is not operationally or structurally feasible to meet the horizontal gap or vertical difference requirements, mini-high platforms, car-borne or platform-mounted lifts, ramps or bridge plates, or similar manually deployed devices, meeting the applicable requirements of 36 CFR part 1192, or 49 CFR part 38 shall suffice.*

10. Stations shall not be designed or constructed so as to require persons with disabilities to board or alight from a vehicle at a location other than one used by the general public.

11. Illumination levels in the areas where signage is located shall be uniform and shall minimize glare on signs. Lighting along circulation routes shall be of a type and configuration to provide uniform illumination.

12. Text Telephones: The following shall be

provided in accordance with rule 120-3-20-.42(9):
(i) If an interior public pay telephone is provided in a transit facility (as defined by the Department of Transportation) at least, one interior public text telephone shall be provided in the station.

(ii) Where four or more public pay telephones serve a particular entrance to a rail station and at least one is in an interior location, at least one interior public text telephone shall be provided to serve that entrance. Compliance with this section constitutes compliance with rule 120-3-20-.08 (17)(c).

13. Where it is necessary to cross tracks to reach boarding platforms, the route surface shall be level and flush with the rail top at the outer edge and between the rails, except for a maximum 2-1/2 inches gap on the inner edge of each rail to permit passage of wheel flanges. Such crossings shall comply with rule 120-3-20-.40(5). Where gap reduction is not practicable, an above-grade or below-grade accessible route shall be provided.

14. Where public address systems are provided to convey information to the public in terminals, stations, or other fixed facilities, a means of conveying the same or equivalent information to persons with hearing loss or who are deaf shall be provided.

15. Where clocks are provided for use by the general public, the clock face shall be uncluttered so that its elements are clearly visible. Hands, numerals, and/or digits shall contrast with the background either light-on-dark or dark-on-light. Where clocks are mounted overhead, numerals and/or digits shall comply with rule 120-3-20-.41(3). Clocks shall be placed in uniform locations throughout the facility and system to the maximum extent practicable.

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16. Where provided in below grade stations, escalators shall have a minimum clear width of 32 inches. At the top and bottom of each escalator run, at least two contiguous treads shall be level beyond the comb plate before the risers begin to form. All escalator treads shall be marked by a strip of clearly contrasting color, 2 inches in width, placed parallel to and on the nose of each step. The strip shall be of a material that is at least as slip resistant as the remainder of the tread. The edge of the tread shall be apparent from both ascending and descending directions.

17. Where provided, elevators shall be glazed or have transparent panels to allow an unobstructed view both in to and out of the car. Elevators shall comply with rule 120-3-20-.21.

EXCEPTION: *Elevator cars with a clear floor area in which a 60 inches in diameter circle can be inscribed may be substituted for the minimum car dimensions of rule 120-3-20-.21, Fig. 22.*

18. Where provided, ticketing areas shall permit persons with disabilities to obtain a ticket and check baggage and shall comply with rule 120-3-20-.49(2).

19. Where provided, baggage check-in and retrieval systems shall be on an accessible route complying with rule 120-3-20-.14, and shall have space immediately adjacent complying with rule 120-3-20-.13. If unattended security barriers are provided, at least one gate shall comply with rule 120-3-20-.24. Gates which must be pushed open by wheelchair or mobility aid users shall have a smooth continuous surface extending from 2 inches above the floor to 27 inches above the floor.

(b) Existing Facilities: Key Stations.

1. Rapid, light and commuter rail key stations, as defined under criteria established by the Department of Transportation in subpart C of 49 CFR part 37 and existing intercity rail stations shall provide at least one accessible route from an accessible entrance to those areas necessary for use of the transportation system.

2. The accessible route required by rule 120-3-20-.52(b)1 shall include the features specified in rules 120-3-20-.52(a)(1), (4)-(9), (11)-(15), and (17)-(19).

3. Where technical infeasibility in existing stations requires the accessible route to lead from the public way to a paid area of the transit system, an accessible fare collection system, complying with rule 120-3-20-.52(a)(7), shall be provided along such accessible routes.

4. In light rail, rapid rail and commuter rail key stations, the platform or a portion thereof and the vehicle floor shall be coordinated so that the vertical difference, measured when the vehicle is at rest, within plus or minus 1-1/2 inches under all normal passenger load conditions, and the horizontal gap, measured when the vehicle is at rest, is no greater than 3 inches for at least one door of each vehicle or car required to be accessible by 49 CFR part 37.

EXCEPTION 1: *Existing vehicles retrofitted to meet the requirements of 49 CFR 37.93 (one-car-per-train rule) shall be coordinated with the platform such that, for at least one door, the vertical difference between the vehicle floor and the platform, measured when the vehicle is at rest with 50% normal passenger capacity, is within plus or minus 2 inches and the horizontal gap is no greater than 4 inches.*

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EXCEPTION 2: *Where it is not structurally or operationally feasible to meet the horizontal gap or vertical difference requirements, mini-high platforms, car-borne or platform mounted lifts, ramps or bridge plates, or similar manually deployed devices, meeting the applicable requirements of 36 CFR Part 1192 shall suffice.*

5. New direct connections to commercial, retail, or residential facilities shall, to the maximum extent feasible, have an accessible route complying with rule 120-3-20-.14 from the point of connection to boarding platforms and all transportation system elements used by the public. Any elements provided to facilitate future direct connections shall be on an accessible route connecting boarding platforms and all transportation system elements used by the public.

(c) Existing Facilities: Alterations.

1. For the purpose of complying with rule 120-3-20-.11(2) Alterations to an Area Containing a Primary Function, an area of primary function shall be as defined by applicable provisions of 49 CFR 37.43(c) (Department of Transportation's ADA Rule) or 28 CFR 36.403 (Department of Justice's ADA Rule).

(4) Airports.

(a) New Construction.

1. Elements such as ramps, elevators or other vertical circulation devices, ticketing areas, security checkpoints, or passenger waiting areas shall be placed to minimize the distance which wheelchair users and other persons who cannot negotiate steps may have to travel compared to the general public.

2. The circulation path, including an accessible entrance and an accessible route, for persons with disabilities shall, to the maximum extent

practicable, coincide with the circulation path for the general public. Where the circulation path is different, directional signage complying with rules 120-3-20-.41(1), 120-3-20-.41(2), 120-3-20-.41(3) and 120-3-20-.41(5) shall be provided which indicates the location of the nearest accessible entrance and its accessible route.

3. Ticketing areas shall permit persons with disabilities to obtain a ticket and check baggage and shall comply with rule 120-3-20-.49(2).

4. Where public pay telephones are provided, and at least one is at an interior location, a public text telephone shall be provided in compliance with rule 120-3-20-.42(9). Additionally, if four or more public pay telephones are located in any of the following locations, at least one public text telephone shall also be provided in that location:

- (i) a main terminal outside the security areas;
- (ii) a concourse within the security areas; or
- (iii) a baggage claim area in a terminal.

Compliance with this section constitutes compliance with rule 120-3-20-.08(17)(c).

5. Baggage check-in and retrieval systems shall be on an accessible route complying with rule 120-3-20-.14, and shall have space immediately adjacent complying with rule 120-3-20-.13(4). If unattended security barriers are provided, at least one gate shall comply with rule 120-3-20-.24. Gates which must be pushed open by wheelchair or mobility aid users shall have a smooth continuous surface extending from 2 inches above the floor to 27 inches above the floor.

6. Terminal information systems which broadcast information to the general public through a public address system shall provide a means to provide the same or equivalent information to persons

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with a hearing loss or who are deaf. Such methods may include, but are not limited to, visual paging systems using video monitors and computer technology. For persons with certain types of hearing loss such methods may include, but are not limited to, an Assistive listening system complying with rule 120-3-20-.44(7).

7. Where clocks are provided for use by the general public the clock face shall be uncluttered so that its elements are clearly visible. Hands, numerals, and/or digits shall contrast with their background either light-on-dark or dark-on-light. Where clocks are mounted, numerals and/or digits shall comply with rule 120-3-20-.41(3). Clocks shall be placed in uniform locations throughout the facility to the maximum extent practicable.

8. Security Systems. [Reserved]

(5) Boat and Ferry Docks. [Reserved]

120-3-20-.53

Children's Facilities

(1) **Application** This section applies to facilities, or portions of facilities, constructed according to children's dimensions and anthropometric for ages 2 through 12. Facilities covered by this section shall comply with the applicable requirements of rule 120-3-20-.03 through rule 120-3-20-.46 and the special application sections, except as modified or otherwise provided in this section. All public and common use areas covered by this section are required to be designed and constructed to comply with rule 120-3-20-.03 through rule 120-3-20-.46, except as modified or otherwise provided in this section. Accessible elements and spaces covered by this section shall be on an accessible route complying with rules 120-3-20-.14, 120-3-20-.53(3), and 120-3-20-.53(4). The specifications in this section are based on children's dimensions and anthropometrics. The phrase "**constructed according to children's dimensions and anthropometric**" means where the construction of a facility reflects the size and dimensions, reach ranges, level of strength and stamina, or other characteristics of children. Facilities constructed that do not reflect children's characteristics are not covered by this section.

Note: Rule 120-3-20-.53 modifies the technical requirements in section rule 120-3-20-.03. This section applies to facilities, or portions thereof, constructed according to children's dimensions and anthropometric for ages 2 through 12. State and local codes and rules, as well as best practices, often specify that facilities be designed to accommodate children rather than adults, particularly where children are the primary population served by

a facility. These codes, rules, and best practices may specify lower mounting heights for certain elements used primarily by children, such as water fountains, lavatories, and toilets. This section provides accessibility requirements for these elements and is intended to apply where state or local codes, rules, or best practices specify design for children.

The phrase "**constructed according to children's dimensions and anthropometric**" means where the construction of a facility reflects the size and dimensions, reach ranges, level of strength and stamina, or other characteristics of children, thus rendering such a facility more usable by children. Facilities constructed that do not reflect children's characteristics are not covered by rule 120-3-20-.53.

Rule 120-3-20-.53 also specifies that accessible elements and spaces constructed according to children's dimensions and anthropometric shall be on an accessible route complying with rules 120-3-20-.14, 120-3-20-.53(3), and 120-3-20-.53(4). Additional routes serving the children's area are not subject to the requirements in this section. Accessible routes subject to this section must comply with the requirements for protruding objects (rule 120-3-20-.53(3)) and handrails at ramps and stairs (rule 120-3-20-.53(4)). For example, a children's area may be located in a portion of a community center and may have elements and features constructed according to children's dimensions and anthropometric, such as storage units, toilets, or lavatories. Where the accessible route serving the children's area includes a ramp, additional handrails for children must be provided.

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Additionally, objects along this accessible route that project from walls must comply with the requirements for protruding objects in rule 120-3-20-.53(3). An accessible route complying with this section shall also be provided where individual elements are positioned at heights or locations based on children's sizes and dimensions, such as a drinking fountain in a shopping mall.

(2) Reach Ranges.

(a) **General.** The requirements in rule 120-3-20-.13(5) and rule 120-3-20-.13(6) are modified by the following provisions.

(b) **Forward and Side Reach.** The high forward or high side reach, and the low forward or low side reach shall comply with A, B, or C in the table below. Selection of A, B, or C should correspond to the age range of the primary user group.

Forward Reach and Side Reach		
	High reach (Not more than)	Low Reach (Not less than)
A- Ages 2 through 4	36 inches (915 mm)	20 inches (510 mm)
B- Ages 5 through 8	40 inches (1015 mm)	18 inches (455 mm)
C- Ages 9 through 12	44 inches (1120 mm)	16 inches (405 mm)

(3) Protruding Objects.

The requirements in rule 120-3-20-.15(1) are modified by rule 120-3-20-.53(3). Objects projecting from walls with their leading edges between 12 inches and 80 inches (305 mm and 2030 mm) above the finish floor shall protrude no more than 4 inches (100 mm) into walks, halls, corridors, passageways, or aisles. Objects mounted with their leading edges at or below 12 inches (305 mm) above the finish floor may protrude any amount. Free-standing objects mounted on posts or pylons may overhang 12 inches (305 mm) maximum from 12 inches to 80 inches (305 mm to 2030 mm) above the ground or finish floor. Protruding objects shall not reduce the clear width of an accessible route or maneuvering space.

(4) Handrails at Ramps and Stairs.

(a) **General.** In addition to the handrails required by rule 120-3-20-.19 and rule 120-3-20-.20, a second set of handrails shall be provided complying with rule 120-3-20-.19(5) or rule 120-3-20-.20(4) and rule 120-3-20-.37, except as modified by the following provisions.

(b) **Height.** The top of handrail gripping surfaces shall be mounted between 20 inches and 28 inches (510 mm and 710 mm) above ramp surfaces or stair nosing.

(b) **Size.** The gripping surfaces of handrails shall have a diameter or width of 1 inch to 1-1/4 inches (25 mm to 30 mm), or the shape shall provide an equivalent gripping surface.

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Specifications for Water Closets, Toilet Seats, Urinals, Grab Bars, and Toilet Paper Dispensers

	Water Closet Centerline	Toilet Seat Height	Urinal Rim Height	Urinal Elongated Rim	Grab Bar Height	Dispenser Height
A- Ages 2 through 4	12 inches (305 mm)	11 in to 12 in (280 mm to 305 mm)	11 in to 12 in (280 mm to 305 mm)	11 inches minimum (280 mm)	18 in to 20 in (455 mm to 510 mm)	14 inches (355 mm)
B- Ages 5 through 8	12 in to 15 in (305 mm to 380 mm)	12 in to 15 in (305 mm to 380 mm)	12 in to 15 in (305 mm to 380 mm)	12 inches minimum (305 mm)	20 in to 25 in (510 mm to 635 mm)	14 in to 17 in (355 mm to 430 mm)
C- Ages 9 through 12	15 in to 18 in (380 mm to 455 mm)	15 in to 17 in (380 mm to 430 mm)	15 in to 17 in (380 mm to 430 mm)	14 inches minimum (380 mm)	25 in to 27 in (635 mm to 685 mm)	17 in to 19 in (430 mm to 485 mm)

(5) Drinking Fountains and Water Coolers.

(a) **General.** Drinking fountains or water coolers required to be wheelchair accessible by rule 120-3-20-.03 shall comply with rule 120-3-20-.26, except as modified by rule 120-3-20-.53(5). The requirements in rule 120-3-20-.26(2) and rule 120-3-20-.26(5) are modified by the following provisions.

(b) **Spout Height.** Spouts shall be no higher than 30 inches (760 mm), measured from the floor or ground surface to the spout outlet.

(c) **Clearances.** Wall-mounted and post-mounted cantilevered units shall have a clear knee space between the bottom of the apron and the floor or ground at least 24 inches (610 mm) high and 8 inches (205 mm) deep, measured from the leading edge of the fountain. Clear toe space shall be 12 inches (305 mm) high minimum, measured from the finish floor. Such units shall also have a minimum clear floor space 30 inches by 48 inches (760 mm by 1220 mm) to allow a forward approach to the unit. The clear floor space may extend a maximum of 14 inches (305 mm) underneath the fountain.

(6) Water Closets, Toilet Seats, Grab Bars, and Toilet Paper Dispensers.

(a) **General.** Water closets required to be accessible by rule 120-3-20-.33(4) shall comply with rule 120-3-20-.27, except as modified by rule 120-3-20-.53(6). The requirements in rule 120-3-20-.27 and rule 120-3-20-.37(2) are modified by the following provisions.

(b) **Placement.** The centerline and seat height of the water closet and the centerline height of the grab bars and toilet paper dispenser shall comply with A, B, or C in the table below. Selection of A, B, or C should correspond to the age range of the primary user group. The centerline requirements in the table do not apply to the 36 inches (915 mm) wide alternate stall permitted in alterations by rule 120-3-20-.11(3)(e)(ii). The centerline of water closets shall be measured from one side wall or stall partition.

Note: The requirements for water closets, toilet seats, grab bars, and toilet paper dispensers in rule 120-3-20-.53(6) reflect the differences in the size, stature, and reach ranges of children ages 2 through 12. Section rule 120-3-20-.53(6)(b) requires such elements to comply with the specifications in A, B, or C in the table provided. A, B, and C correspond to three age groups of children: 2 through 4, 5 through 8, and 9 through 12.

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respectively. To permit design discretion where toilet rooms may serve more than one age group, or where the age group of users does not correspond to the specific age groups listed in the table, this section specifies that selection of A, B, or C "shall" correspond to the age of the primary user group. (See rule 120-3-20-.05(d) General Terminology, regarding use of the term "shall.")

The application of the specifications in A, B, or C in the table may allow flexibility when designing for more than one age group. For example, a water closet with centerline at 12 inches (305 mm), toilet seat at 12 inches (305 mm), grab bars at 20 inches (510 mm), and dispenser at 14 inches (355 mm) above the finish floor may be appropriate for A (ages 2 through 4) and B (ages 5 through 8). Similarly, a water closet with centerline at 15 inches (380 mm), toilet seat at 15 inches (380 mm), grab bars at 25 inches (635 mm), and dispenser at 17 inches (430 mm) above the finish floor may be appropriate for B (ages 5 through 8) and C (ages 9 through 12). Multiple accessible fixtures are not required in toilet rooms serving more than one age group.

(c) Grab Bar Size. The diameter or width of the gripping surface of a grab bar shall be 1 inch to 1-1/4 inches (25 mm to 30 mm), or the shape shall have an equivalent gripping surface

(d) Flush Controls. Flush controls shall be located within the reach ranges specified by rule 120-3-20-.53(2).

(7) Toilet Stalls.

(a) General. Toilet stalls required to be accessible by rule 120-3-20-.33(4) shall comply with rule 120-3-20-.28, except as modified by rule 120-3-20-.53(7). The requirements in rule 120-3-20-.28(2), 120-3-20-.28(3), 120-3-20-.28(4), 120-3-20-.28(6), and 120-3-20-.37(2) are modified by the following provisions.

(b) Water Closets. Water closets in accessible stalls shall comply with rule 120-3-20-.53(6).

(c) Depth. Standard stalls with floor- or wall-mounted water closets shall have a depth of 59 inches (1500 mm) minimum. Standard stalls at the end of a row with floor- or wall-mounted water closets shall have a depth

of 59 inches (1500 mm) in addition to the minimum 36 inches (915 mm) required for the stall door. Where provided in alterations, alternate stalls with floor- or wall-mounted water closets shall have a depth of 69 inches (1745 mm) minimum.

(d) Toe Clearance. In standard stalls of minimum dimension, the front partition and at least one side partition shall provide a toe clearance of 12 inches (305 mm) minimum above the finish floor. If the depth of the stall is greater than 60 inches (1525 mm), then the toe space is not required.

(e) Grab Bars. Grab bar mounting heights shall comply with the heights specified in rule 120-3-20-.53(6). The diameter or width of the gripping surfaces of a grab bar shall be 1 inch to 1-1/4 inches (25 mm to 30 mm), or the shape shall provide an equivalent gripping surface.

(8) Urinals.

(a) General. Any toilet or bathing room provided with urinals must have at least one that complies with rule 120-3-20-.53.

(b) Height. Urinals shall be stall-type or wall-hung with an elongated rim at a minimum 11 inches (280 mm) to a maximum of 17 inches (430 mm) above the finish floor and extend at least 11 inches (280 mm) to 14 inches (355 mm) from the back wall to the rim's front edge.

(c) Clear Floor Space. A clear floor space 30 inches by 48 inches (760 mm by 1220 mm) shall be provided in front of urinals to allow forward approach. This clear space shall adjoin or overlap an accessible route and shall comply with rule 120-3-20-.13. Urinal shields that do not extend beyond the front edge of the urinal rim may be provided with 29 inch (735 mm) clearance between them.

(d) Flush Controls. Flush controls shall be hand operated or automatic, and shall comply with rule 120-3-20-.38(4), and shall be located within the reach ranges specified by rule 120-3-20-.53(2).

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(9) Lavatories and Mirrors.

(a) **General.** Lavatories and mirrors required to be accessible by rule 120-3-20-.33(6) and rule 120-3-20-.34(6) shall comply with rule 120-3-20-.30, except as modified by rule 120-3-20-.53(9). The requirements in rule 120-3-20-.30(2), 120-3-20-.30(3), and 120-3-20-.30(6) are modified by the following provisions.

(b) **Height and Clearances.** Lavatories shall be mounted with the rim or counter surface no higher than 30 inches (760 mm) above the finish floor. A clearance of 27 inches (685 mm) minimum measured from the finish floor to the bottom of the apron shall be provided. Minimum clear knee space 24 inches (610 mm) high, measured from the finish floor, and 8 inches (205 mm) deep, measured from the leading edge of the lavatory, shall be provided. Clear toe space shall be 12 inches (305 mm) high minimum, measured from the finish floor.

(c) **Clear Floor Space.** Clear floor space shall extend a maximum of 14 inches (355 mm) underneath the lavatory.

(d) **Mirrors.** Mirrors shall be mounted with the bottom edge of the reflecting surface no higher than 34 inches (865 mm) above the finish floor.

(10) Storage.

(a) **General.** Fixed storage facilities such as lockers, cabinets, shelves, closets, and drawers required to be accessible by rule 120-3-20-.03 shall comply with rule 120-3-20-.36, except as modified by rule 120-3-20-.53(10). The requirements in rule 120-3-20-.36(3) are modified by the following provision.

(b) **Height.** Accessible storage spaces shall be within at least one of the reach ranges specified in rule 120-3-20-.53(2). Clothes rods, hooks, or shelves shall be a maximum of 36 inches (915 mm) above the finish floor for a side approach.

(11) Fixed or Built-in Seating and Tables.

(a) **General.** Fixed or built-in seating or tables

required to be accessible by rule 120-3-20-.03 shall comply with rule 120-3-20-.43, except as modified by rule 120-3-20-.53(11). The requirements in rule 120-3-20-.43(2), rule 120-3-20-.43(3), and rule 120-3-20-.43(4) are modified by the following provisions.

(b) **Seating.** Clear floor space shall not overlap knee space by more than 14 inches (355 mm).

(c) **Knee Clearances.** Knee clearance at least 24 inches (610 mm) high, 30 inches (760 mm) wide, and 14 inches (355 mm) deep shall be provided.

(d) **Height of Tables or Counters.** The tops of accessible tables and counters shall be from 26 inches to 30 inches (660 mm to 760 mm) above the finish floor or ground.

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120-3-20-.54

Covered Multifamily Dwellings Units

(1) General. Accessible dwelling units shall comply with 120-3-20-.54.

Note: A person with a disability who lives in an accessible dwelling unit of a multifamily building or a housing project wants to participate in all on-site social activities, including visiting neighbors in their dwelling units. Hence, any circulation paths among all dwelling units and among all on-site facilities should be as accessible as possible. An accessible second exit in dwelling units provides an extra margin of safety in a fire. The Fair Housing Amendments Act of 1988 requires a substantial number of minimally adaptable dwelling units (see regulations at 24 CFR 100.205 and accessibility guidelines at 24 CFR Ch. I, Subch. A, App. II).

In establishing administrative provisions as described in 2.0, administrative authorities specify the number of dwelling units to be fully adaptable or accessible, or procedures for determining the number to be fully adaptable or accessible, for different types of construction (i.e., new construction or remodeling or alterations). In addition, administrative authorities specify whether those fixtures for which height ranges are provided in 120-3-20-.54.3 and 120-3-20-.54.4 are to be permanently installed at a specific height or whether they are to be designed for adaptability.

(2) Adaptability. Both adaptable dwelling units and units in which fixtures are permanently installed within the heights specified in 120-3-20-.54.4 bathrooms and 120-3-20-.54.5 kitchens shall be considered accessible dwelling units.

Note: Adaptable dwelling units are particularly beneficial in rental housing where the demand for accessible units varies over time.

Dwelling units designed for adaptability accommodate either able-bodied residents or residents having any of the disabilities described in 1.1, and have the further advantage of allowing the user to select the degree of accessibility that is desired. For example, an occupant chooses to have grab bars installed in the bathroom but prefers the standard-height counter and sink.

Where parking is provided for facilities with all dwelling units designed for adaptability, accessible parking spaces are provided according to the number and particular needs of the disabled residents occupying the adaptable units.

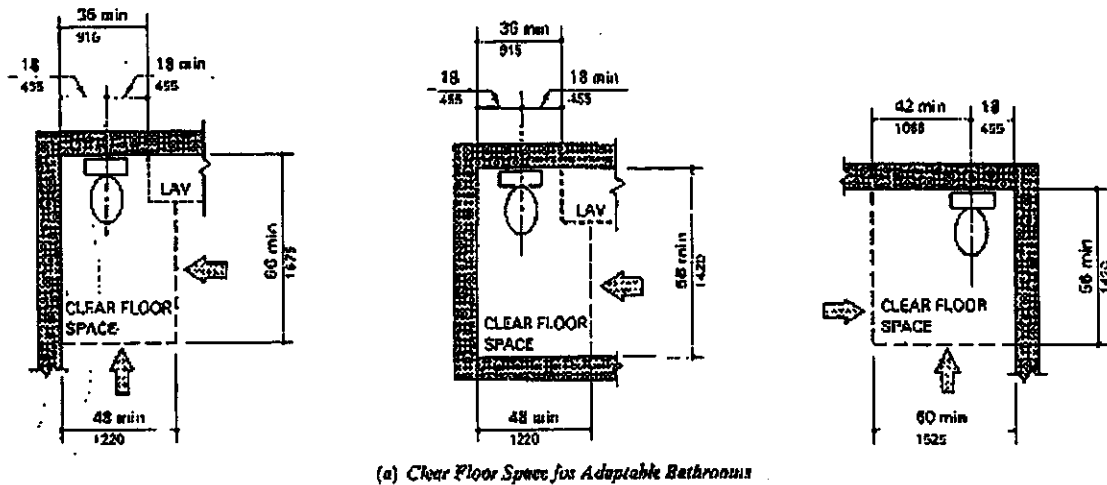
The subsections on bathrooms and kitchens specify a range of heights and clearances within which certain fixtures are installed (for example, grab bars at bathtubs and toilets, and work surfaces and sink heights in kitchens). In the case of grab bars, provision is made for later installation within the specified height range, as requested by the occupant of the dwelling unit. Other fixtures are permanently installed at a height within these ranges, or the fixtures are adjustable within the ranges.

(3) Basic Components. Accessible dwelling units shall provide accessible elements and spaces as identified in Table 4 (found at the end of this section).

(4) Bathrooms. Accessible bathrooms shall be on an accessible route and shall comply with the requirements of 120-3-20-.54.4.

Note: Although not required by these specifications, it is important to

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install grab bars at toilets, bathtubs, and showers if it is known that a dwelling unit is to be occupied by elderly people or people with severe disabilities.

space required for any fixture unless the toilet or bathroom is for individual use only, or a clear floor space complying with rule 120-3-20-.4.1 is provided beyond the arc of the door swing within the room.

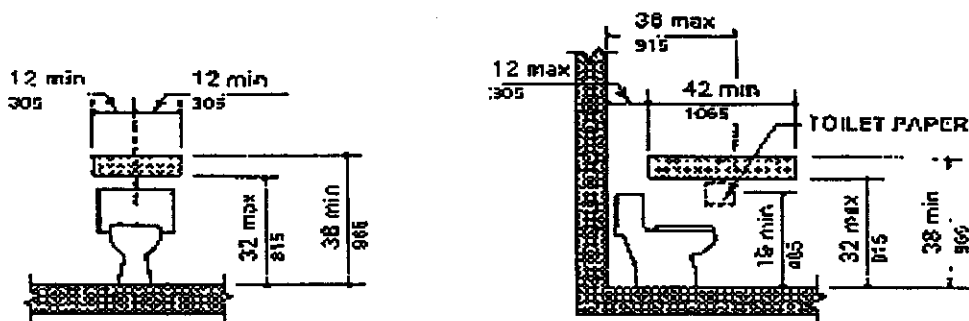


Fig. 47 Water Closets in Adaptable Bathrooms

(a) Doors. Doors shall not swing into the clear floor

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(2) Water Closets

(a) Clear floor space at the water closet shall be as shown in Fig. 47(a). The water closet may be located with the clear area at either side of the water closet.

(b) Water closet height shall be from 15 inches (380 mm) minimum to 19 inches (485 mm) maximum, measured from the floor to the top of the toilet seat.

(c) Grab bars shall be installed as shown in Fig. 29 and comply with rule 120-3-20-.37, or structural reinforcement or other provisions shall be made that will allow installation of grab bars in the locations shown in Fig 47(b).

(d) The toilet paper dispenser shall be installed within reach in Fig. 47(b).

(3) Lavatory, Mirrors, and Medicine Cabinets

(a) The lavatory and mirrors shall comply with rule 120-3-20-.30.

(b) If Medicine cabinet is provided under the lavatory, it shall provide, or shall be removable to provide, the clearances specified in rule 120-3-20-.30(2).

(c) If a Medicine cabinets are provided above the lavatory, then the bottom of the medicine cabinet shall

be located with a usable shelf no higher than 44 inches (1120 mm) above the floor.

(4) Bathtubs. If a bathtub is provided, it shall have the following features:

(a) Floor Space. Clear floor space at bathtubs shall comply with Fig 33.

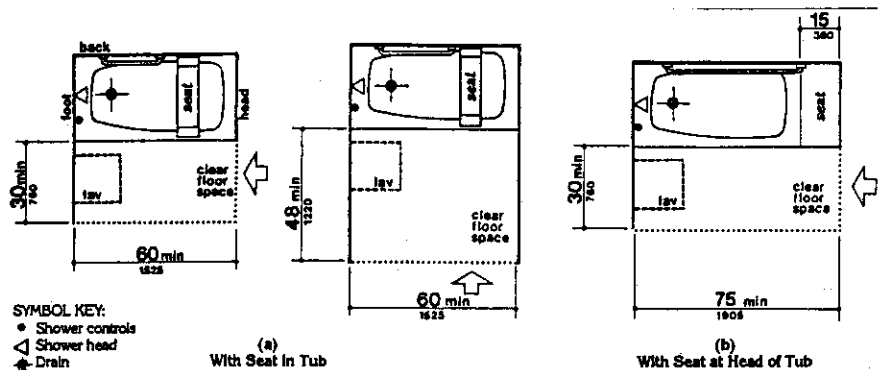
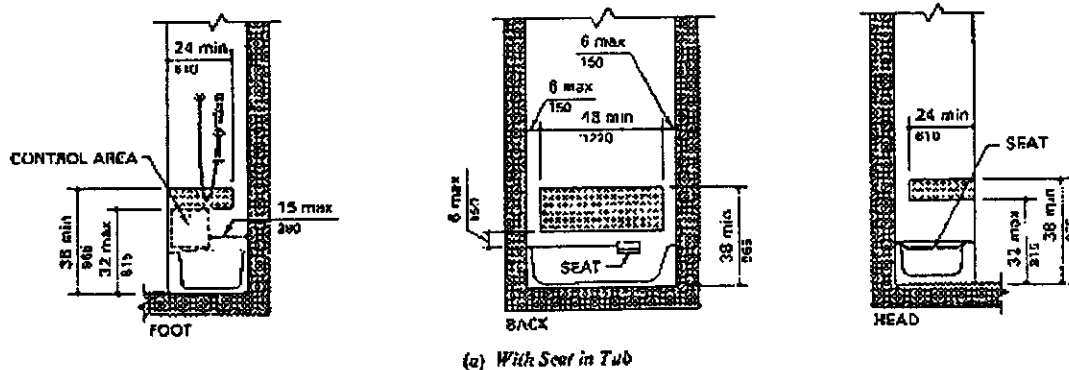
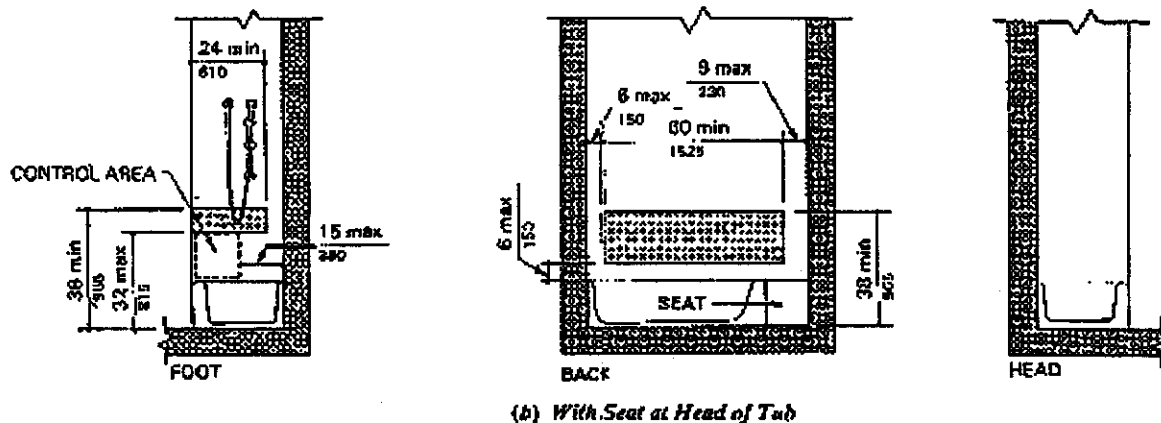


Fig. 33
Clear Floor Space at Bathtubs

(b) Seat. A removable in-tub seat or permanent seat at the head end of the tub shall be provided as shown in Fig. 33 and 34. The structural strength of seats and their attachments shall comply with rule 120-3-20-.34(3). Seats shall be mounted securely and shall not slip during use.



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NOTE: The lightly shaded areas are reinforced to receive grab bars.

Fig. 48 Location of Grab-Bar Reinforcements and Controls of Adaptable Bathtubs

(c) **Grab Bars.** Grab bars shall be installed within the range heights shown in Fig. 34 and shall comply with rule 120-3-20-37, or structural reinforcement or other provisions, as shown in Fig. 48, shall be made that will allow installation of grab bars meeting these requirements.

(d) **Controls.** Faucets and other controls shall be located as shown in Fig. 34 and shall comply with rule 120-3-20-38.

(e) **Shower head.** A shower spray head shall be provided with a hose at least 60 inches (1525 mm) long that can be used as a fixed shower head or as a hand-held shower. If an adjustable height shower head mounted on a vertical bar is used, the bar shall be installed so as not to obstruct the use of the grab bars.

(5) **Showers.** If a shower is provided, it shall have the following features:

(a) **Size and Clearances.** Shower stall size and clear floor space shall comply with either Fig. 35(a) or (b). The shower stall in Fig. 35(a) shall be 36 inches by 36 inches (915 mm by 915 mm). The shower stall in Fig. 35(b) will fit into the same space as a standard bathtub, 60 inches long.

(b) **Seat** A seat shall be provided in the shower stall in Fig. 35(a) as shown in Fig. 36. The seat shall be 17 inches to 19 inches (430 mm to 485 mm) high measured from the bathroom floor and shall be on the wall opposite the controls. The structural strength of seats and their attachments shall comply with rule 120-3-20-34(3). Seats shall be mounted securely and shall not slip during use.

(c) **Grab Bars.** Grab bars shall be installed within the range heights shown in Fig. 37 and shall comply with rule 120-3-20-37, or structural reinforcement or other provisions, as shown in Fig. 49, shall be made that will allow installation of grab bars meeting these requirements.

(d) **Controls.** Faucets and other controls shall be located as shown in Fig. 37 and shall comply with rule 120-3-20-38. In the shower stall in Fig. 35(a), all controls, faucets, and the shower head shall be mounted on the side wall opposite the seat.

(e) **Shower Head.** A shower spray head shall be provided with a hose at least 60 inches (1525 mm) long that can be used as a fixed shower head or as a hand-held shower. If an adjustable height shower head mounted on a vertical bar is used, the bar shall be installed so as not to obstruct the use of the grab bars.

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(f) Bathtub and Shower Enclosures.

Enclosures for bathtubs or shower stalls shall not obstruct controls or transfer from wheelchairs onto shower or bathtub seats. Enclosures on bathtubs shall not have tracks mounted on their rims.

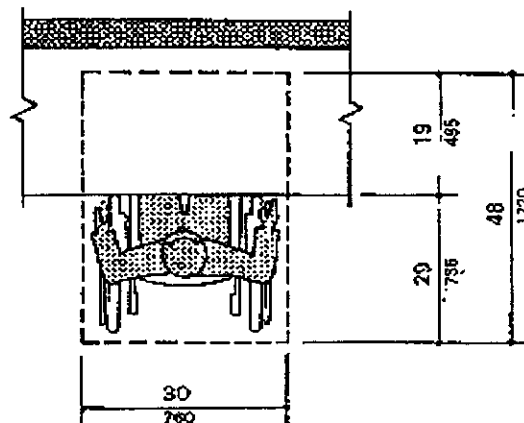
(g) Clear Floor Space. Clear floor space at fixtures shall be permitted to overlap.

(5) Kitchens. Accessible kitchens and their components shall be on an accessible route and shall comply with the requirements of 120-3-20-.54.5.

(a) Clearance. Where counters provide the knee clearances specified in rule 120-3-20-.43(3), clearances between those counters and all opposing base cabinets, counter tops, appliances, or walls in kitchens shall be 40 inches (1015 mm) minimum, except in U-shaped kitchens, where such clearances shall be 60 inches (1525 mm) minimum.

(b) Clear Floor Space. A clear floor space 30 inches by 48 inches (760 mm by 1220 mm) minimum complying with 4.2.4 that allows either a forward or a parallel approach by a person in a wheelchair shall be provided at all appliances in the kitchen, including the range or

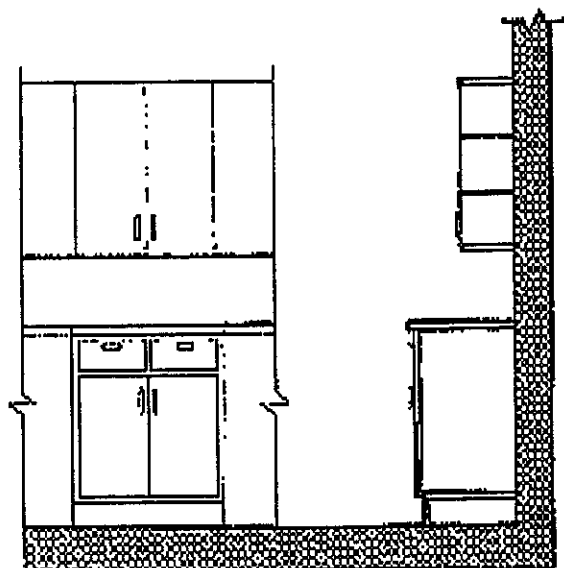
cook top, oven, refrigerator/freezer, dishwasher, and trash compactor. Laundry equipment located in the kitchen shall comply with rule 120-3-20-.54.6.



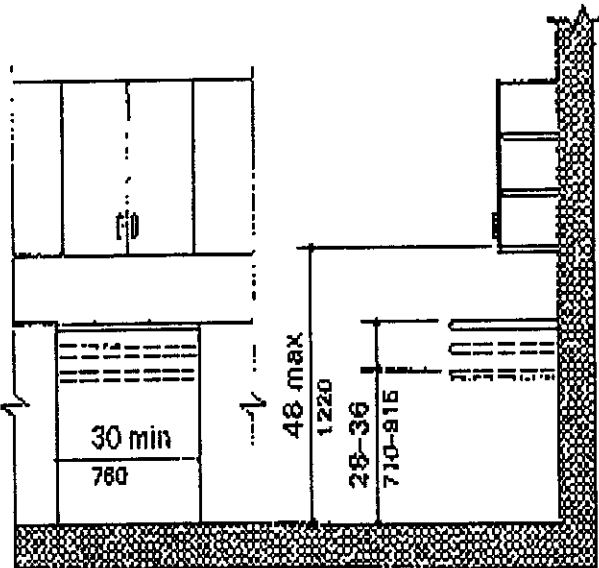
(c) Clear Floor Space under Work Surface

Fig. 50
Counter Work Surface

(c) Controls. All controls in kitchens shall comply with rule 120-3-20-.38.



(a) Before Removal of Cabinets and Base



(b) Cabinets and Base Removed and Height Alternatives

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(d) **Work Surfaces.** At least one 30 inches (760 mm) wide minimum section of counter shall provide a work surface that complies with the following requirements (See Fig. 50):

(i) The counter shall be adjustable or replaceable as a unit at variable heights between 28 inches and 36 inches (710 mm and 915 mm), measured from the floor to the top of the counter surface, or shall be mounted at a fixed height of 34 inches (865 mm) maximum, measured from the floor to the top of the counter surface.

(ii) Base cabinets, if provided, shall be removable under the full 30 inches (760 mm) minimum frontage of the counter. The finished floor shall extend under the counter to the wall.

(iii) Counter thickness and supporting structure shall be 2 inches (51 mm) maximum over the required clear area.

(iiii) A clear floor space of 30 inches by 48 inches (760 mm by 1220 mm) minimum shall allow a forward approach to the counter. The 19 inches maximum of clear floor space shall be permitted to extend (485 mm) underneath the counter. The knee space shall have a clear width of 30 inches (760 mm) minimum.

(v) There shall be no sharp or abrasive surfaces under such counters.

(5) **Sink.** The sink and surrounding counter shall comply with the following requirements (See Fig. 51):

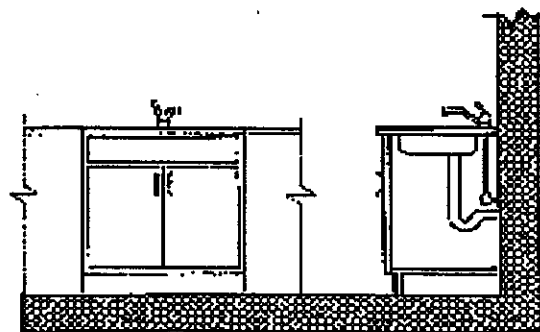
(a) The sink and surrounding counter shall be adjustable or replaceable as a unit at variable heights between 28 inches and 36 inches (710 mm and 915 mm), measured from the finished floor to the top of the counter surface or sink rim, or shall be mounted at a fixed height of 34 inches (865 mm) minimum, measured from the finished floor to the top of the counter surface or sink rim.

(b) Where sinks are installed to be adjustable in height, rough-in plumbing shall be located to accept connections of supply and drain

pipes for sinks mounted at the height of 28 inches (710 mm).

(c) The depth of a sink bowl shall be 6 1/2 inches (165 mm) maximum. Only one bowl of double-bowl or triple-bowl sinks needs to meet this requirement.

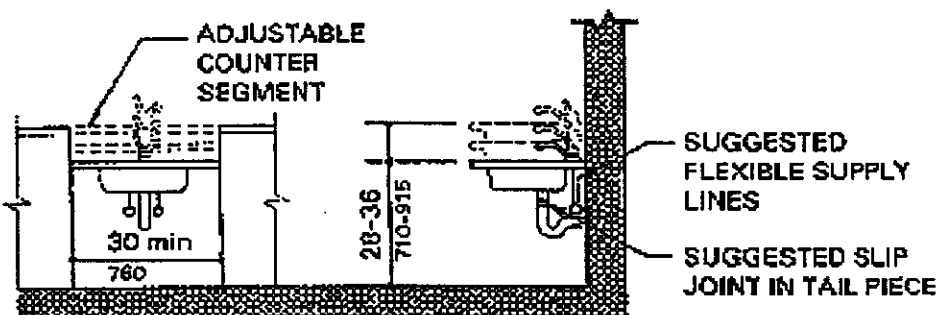
(d) Faucets shall comply with rule 120-3-20-.38(4).



(a) *Before Removal of Cabinets and Base*

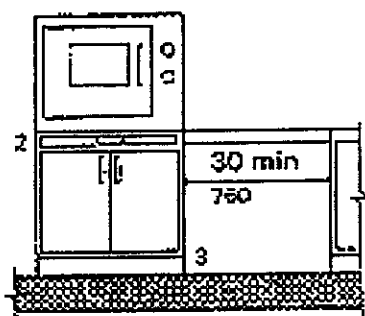
(e) Base cabinets, if provided, shall be removable under the full 30 inches (760 mm) minimum frontages of the sink and surrounding counter. The finished flooring shall extend under the counter to the wall.

(f) Counter thickness and supporting structure shall be 2 inches (50 mm) maximum over the required clear space.

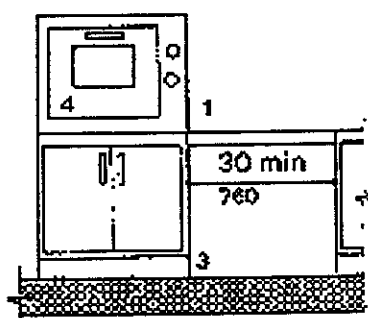


(b) *Cabinets and Base Removed and Height Alternatives*

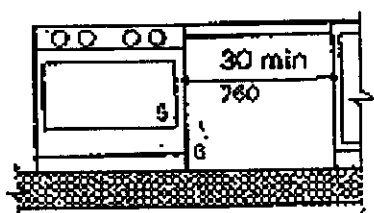
Fig. 51
Kitchen Sink



(a) Side-Hinged Door



(b) Bottom-Hinged Door



(c) Range Oven

SYMBOL KEY

- 1. Countertop or wall-mounted oven
- 2. Pull-out board preferred with side-opening door
- 3. Clear open space
- 4. Bottom-hinged door
- 5. Range oven
- 6. Preferred clear open space

Fig. 52

Ovens without Self-Cleaning Feature

(g) A clear floor space of 30 inches by 48 inches (760 mm by 1220 mm) minimum shall allow forward approach to the sink. The clear floor space shall be permitted to extend 19 inches (485 mm) maximum underneath the sink. The knee space shall have a clear width of 30 inches (760 mm) minimum.

(h) There shall be no sharp or abrasive surfaces under sinks. Hot Water supply pipes and drain pipes under sinks shall be insulated or otherwise covered.

(6) Ranges and Cook tops. Ranges and Cook tops shall comply with 120-3-20-.54.4.2 and 120-3-20-.54.4.3. If ovens or Cook tops have knee spaces underneath, they shall be insulated or otherwise protected on the exposed contact surfaces for protection against burns, abrasions, or electrical shock. The clear floor space shall be permitted to overlap the knee space, if provided, by 19 inches (485 mm) maximum. The location of controls for ranges and Cook tops shall not require reaching across burners.

Note: Although not required for minimum accessibility, counter top range units in a counter with adjustable heights are an added convenience for wheelchair users.

(7) Ovens. Ovens shall comply with 120-3-20-.54.5.2 and 120-3-20-.54.5.3. Ovens shall be of the self-cleaning type or be located adjacent to an adjustable height counter with a 30 inches (760 mm) wide minimum knee space below (See Fig. 52). For side-opening ovens, the door latch side shall be next to the open counter space, and there shall be a pull-out shelf under the oven extending the full width of the oven and pulling out 10 inches (255 mm) minimum when fully extended. Ovens shall have controls on front panels. Controls shall be permitted to be located on either side of the door.

Note: Counter top or wall-mounted ovens with side-opening doors are easier for people in wheelchairs to use. Clear spaces 30 inches (760 mm) wide minimum under counters at the side of ovens are an added convenience. The pull-out board or fixed shelf under side-opening oven doors provides a resting place for heavy items being moved from the oven to a counter.

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(8) Refrigerator/Freezers. Refrigerators and freezers shall comply with 120-3-20-.54.5.3. Provisions shall be made for refrigerator / freezers that are:

(a) Of the Vertical Side-by-side combination freezer and refrigerator type; or

(b) Of the over-and-under type and meet the following requirements:

(i) appliances shall have at least 50 percent of the freezer space and at least 50 percent of the refrigerator space located 54 inches (1370 mm) maximum above the floor.

(ii) Other combination refrigerators and freezers shall have at least 50 percent of the freezer space and 100 percent of the refrigerator space and controls 54 inches (1370 mm) maximum above the floor. Freezers with less than 100 percent of the storage volume within the limits specified in rule 120-3-20-.13(5) or rule 120-3-20-.13(6) shall be the self-defrosting type.

Note: Side-by-side refrigerator/freezers provide the most usable freezer compartments. Locating refrigerators so that their doors swing back 180 degrees is more convenient for wheelchair users.

(9) Dishwashers. Dishwashers shall comply with 120-3-20-.54.5.2 and 120-3-20-.54.5.3. Dishwashers shall have all rack space accessible from the front of the machine for loading and unloading dishes.

(10) Kitchen Storage. Cabinets, drawers, and self storage areas shall comply with rule 120-3-20-.36 and shall have the following features:

(a) Maximum height shall be 48 inches (1220 mm) for at least one shelf of all cabinets and storage shelves mounted above work counters (See Fig. 50).

(b) Door pulls or handles for wall cabinets shall be mounted as close to the bottom of cabinet doors as possible. Door pulls or handles for base cabinets shall be mounted as close to the top of cabinet doors as possible.

Note: Full-height cabinets

or tall cabinets are recommended to be provided rather than cabinets mounted over work counters. Additional storage space located conveniently adjacent to kitchens makes up for space lost when cabinets under counters are removed.

(6) Laundry Facilities. If laundry equipment is provided within individual accessible dwelling units, or if separate laundry facilities serve one or more accessible dwelling units, they shall meet the requirements of 120-3-20-.54.6.1 and 120-3-20-.54.6.2.

(a) **Location.** Laundry Facilities and laundry equipment shall be on an accessible route..

(b) **Washing Machines and Clothes Dryers.** Accessible washing machines and clothes dryers in common-use laundry rooms shall be front loading and shall comply with 120-3-20-.13(4).

(c) **Controls.** Laundry equipment shall comply with 120-3-20-.38.

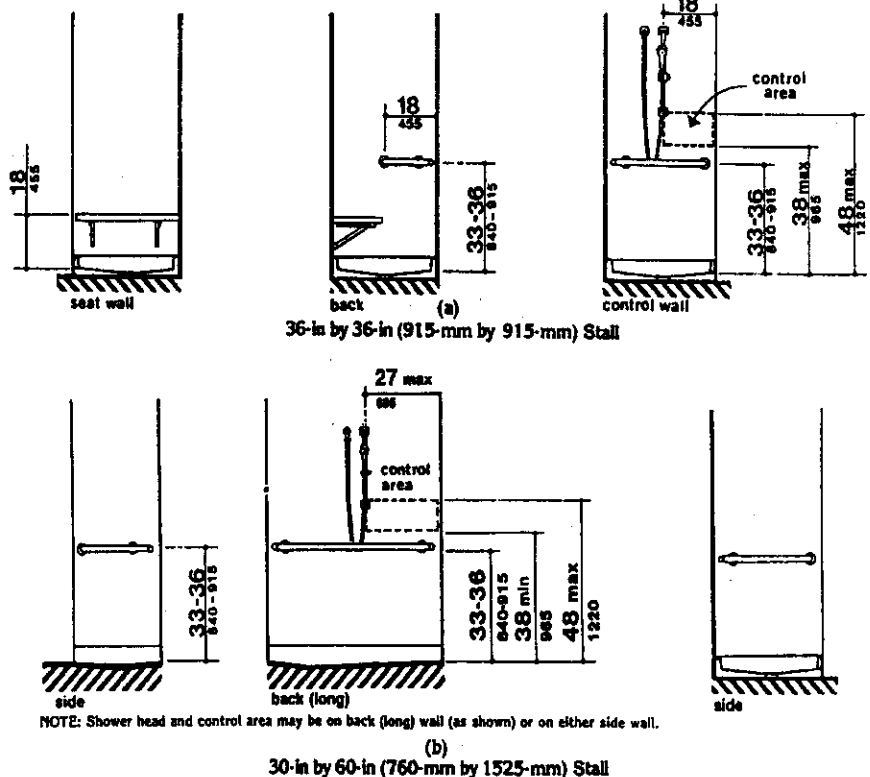


Fig. 37
Grab Bars at Shower Stalls

GA ACCESSIBILITY CODE

TABLE 4

Accessible spaces	Section	Application
1. Space allowances	4.2	All rooms and spaces
2. Accessible routes	4.3	(a) Within dwelling units to all rooms and spaces (b) Connecting accessible dwelling unit(s) to accessible entrance(s) and to common-use spaces and facilities. (c) From public transportation stops, accessible parking spaces, accessible passenger loading zones and public streets, or sidewalks to accessible entrance(s) (d) Connecting accessible buildings, facilities, elements, and spaces that are on the same site. (e) Connecting accessible buildings or facility entrances with accessible spaces and elements within the building or facility.
3. Floor surfaces	4.5	Accessible routes, rooms and spaces.
4. Parking and passenger loading zones	4.6	If provided at facility.
5. Windows	4.12	If operable windows are provided within dwelling units
6. Doors	4.13	At entrance; to and in accessible spaces.
7. Entrances	4.14	To dwelling unit
8. Storage	4.23	If provided within in accessible spaces.
9. Controls	4.25	Within dwelling units, including heating, ventilating, and air conditioning equipment (other than air distribution registers) requiring regular, periodic maintenance and adjustment by the occupant of the dwelling unit.
10. Emergency alarms	4.26	If provided within the dwelling unit.
11. Bathrooms	120-3-20-.54.4	Design for fixed installation of grab bars within specified range of heights, or with provision for subsequent addition of grab bars within the range.
12. Kitchens	120-3-20-.54.5	Work surfaces and sinks may be designed for fixed installation within specified range of heights, or for adjustable heights within the range.
13. Laundry facilities	120-3-20-.54.6	If provided in dwelling unit or if common-use facilities serving accessible dwelling unit.
14. Common-use spaces and facilities	4.2 through 120-3-20-.54	If provided at facility and serving accessible dwelling unit.
15. Patios, terraces, balconies, carports, and garages.	4.2 through 120-3-20-.54	If provided with accessible dwelling unit.

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ADA Coordinator
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