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# Consolidation of the National Building Code - Section 3.8., Barrier-Free Design to include Manitoba Building Code amendments pertaining to Section 3.8

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## Section 3.8. Barrier-Free Design

### 3.8.1. General

#### 3.8.1.1. Application

- 1) The requirements of this Section apply to all *buildings* except,
  - a) detached houses, semi-detached houses, houses with a *secondary suit*, duplexes, triplexes, town houses, row houses and boarding or rooming houses (see A-1.4.1.2.(1), secondary suit, in appendix A of Division A
  - b) *buildings* of Group F, Division 1 *major occupancy*, and
  - c) *buildings* that are not intended to be occupied on a daily or full time basis, including automatic telephone exchanges, pumphouses and substations.

#### 3.8.1.2. Entrances

- 1) Except as provided by Sentence (2), all pedestrian entrances to a building referred to in Sentence 3.8.1.1(1) shall be barrier-free and shall lead from
  - a) the outdoors at sidewalk level, or
  - b) a ramp that conforms to Article 3.8.3.4 and leads from a sidewalk.
- 2) If an alteration to an existing building is undertaken and it is not practical to comply with Sentence (1) in respect of every applicable entrance, then at least one pedestrian entrance shall be barrier free.
- 3) A barrier free entrance required by Sentences (1) or (2) shall be designed in accordance with Article 3.8.3.3.
- 4) Doors at each end of a bank of doors at every entrance shall be designed in accordance with Article 3.8.3.3.
- 5) If a *walkway* or pedestrian bridge connects two *barrier-free storeys* in different *buildings*, the path of travel from one *storey* to the other *storey* by means of the *walkway* or bridge shall be *barrier-free*.

### 3.8.1.3. Barrier-Free Path of Travel

- 1) Except as required elsewhere in this Part and except as permitted in Subsection 3.8.3.3, pertaining to doorways, unobstructed width of a *barrier-free* path of travel shall be not less than 1 100 mm and shall be barrier free in accordance with the requirements of Sentences 3.3.1.9.(3) and (4)"; and
- 2) Interior and exterior walking surfaces that are within a *barrier-free* path of travel shall,
  - a) have no opening that will permit the passage of a sphere more than 13 mm in diam,
  - b) have any elongated openings oriented approximately perpendicular to the direction of travel,
  - c) be stable, firm and slip-resistant,
  - d) be bevelled at a maximum slope of 1 in 2 at changes in level not more than 13 mm, and
  - e) be provided with sloped floors or ramps at changes in level more than 13 mm.
  - f) have detectable warning surfaces where a change in elevation is greater than 225 mm, that must
    - i) include changes in colour, texture, resiliency and sound from the surrounding surfaces,
    - ii) be the full width of stairs or a ramp, and
    - iii) where the surface is a stair, be a minimum of 900 mm deep, starting one tread depth back from the edge of the stair.
- 3) A *barrier-free* path of travel is permitted to include ramps, passenger elevators or other platform equipped passenger elevating devices to overcome a difference in level.
- 4) The width of a *barrier-free* path of travel that is more than 30m long shall be increased to not less than 1500mm for a length of 1500mm at intervals not exceeding 30m.

### 3.8.1.4. Access to Storeys Served by Escalators and Moving Walks

- 1) In a *building* in which an escalator or inclined moving walk provides access to any floor level above or below the entrance floor level, an interior *barrier-free* path of travel shall be provided to that floor level.
- 2) The route from the escalator or inclined moving walk to the *barrier-free* path of travel that leads from floor to floor required by Sentence (1) shall be clearly indicated by appropriate signs.

### 3.8.1.5. Controls

- 1) Except as required by Sentences 3.5.2.1.(3) for elevators, controls for the operation of *building* services or safety devices, including electrical switches, thermostats and intercom switches, that are intended to be operated by the occupant and located in a *barrier-free* path of travel shall be accessible to a

person in a wheelchair, operable with one hand and mounted between 400mm and not more than 1 200 mm above the floor.

## **3.8.2. Occupancy Requirements**

### **3.8.2.1. Areas Requiring Barrier-Free Path of Travel**

- 1)** Except as permitted by Sentences (2) and (3), a barrier free path of travel from entrances required by Sentence 3.8.1.2.(1) and (2) to be barrier free shall be provided throughout the building and to all of the buildings exits. (See Article 3.3.1.7. for additional requirements regarding floor areas above or below the first storey to which a barrier free path of travel is required.)
  
- 2)** A barrier free path of travel is not required to
  - a) service rooms,
  - b) elevator machine rooms,
  - c) service spaces,
  - d) crawl spaces,
  - e) attic or roof spaces,
  - f) high-hazard industrial occupancies,
  - g) portions of a floor area with fixed seats in an assembly occupancy where those portions are not part of the barrier free path of travel to spaces designated for mobility device use,
  - h) within floor levels of a suite of residential occupancy that are not at the same level as the entry level to the suite,
  - i) within a suite of residential occupancy that has not been designated by an authority having jurisdiction to be accessible for use by persons with physical disabilities, or
  - j) interior paths of travel that are not a means of egress.
  
- 3)** A barrier free path of travel through the exits is not required from a floor area where that floor area conforms to 3.3.1.7(1) (a) to (c).
  
- 4)** In an assembly occupancy, the number of accessible spaces within rooms or areas with fixed seats shall conform to Table 3.8.2.1. (See also Article 3.8.3.6. for additional requirements.)

**Designated Spaces for People Using Mobility Devices  
Forming Part of Sentence 3.8.2.1.(4)**

Number of Fixed Seats in Seating Area	Number of Spaces Required for People Using Mobility Devices
Up to 50	2
51 – 100	4
101 – 300	6
301 – 500	8
501 – 1 000	10
1 001 – 1 700	12
each increment of up to 700 seats in excess of 1 700	two additional spaces

**3.8.2.2. Access to Parking Areas**

- 1) If exterior parking is provided, A *barrier-free* path of travel shall be provided between the exterior parking area and a *barrier-free* entrance conforming to Article 3.8.1.2 (See Appendix A)
  
- 2) If a passenger elevator serves one or more indoor parking levels, a *barrier-free* path of travel shall be provided between at least one parking level and all other parts of the building required to be provided with *barrier-free* access in accordance with Article 3.8.2.1.
  
- 3) If an exterior passenger loading zone is provided, it shall have
  - a) an access aisle not less than 2 440 mm wide and 7 400 mm long adjacent and parallel to the vehicle pull-up space,
  - b) a curb ramp, where there are curbs between the access aisle and the vehicle pull-up space, and
  - c) a clear height of not less than 3 600 mm at the pull-up space and along the vehicle access and egress routes.

**3.8.2.3. Washrooms Required to be Barrier-Free**

- 1) Except as permitted by Sentence (2), a barrier free washroom is required on each level of a multi-level building where public washrooms are provided.
  
- 2) A washroom need not conform to the requirements of Sentence provided
  - a) it is located within a suite of residential occupancy, or
  - b) other barrier free washrooms are provided on the same floor area within 45 m.

- 3) If one or more washrooms are required to be provided on a storey of an assembly, care, treatment, mercantile or business and personal services occupancies, one of them shall have a universal toilet room.
- 4) A public washroom that is located on a floor in a residential occupancy shall have a universal toilet room.
- 5) A minimum of one universal toilet room conforming to Article 3.8.3.12. shall be provided on each floor of a newly constructed building where public washrooms are provided.
- 6) A universal toilet room
  - a) may be substituted for one non-accessible stall in a gender-based washroom, if alterations are made to an existing building, and
  - b) can be provided in lieu of one gender-based washroom in small public buildings requiring two washrooms, one per gender.
- 7) If a single toilet room is required in Article 3.7.2.2., it shall conform to Article 3.8.3.12.

### **3.8.3. Design Standards**

#### **3.8.3.1. Accessibility Signs**

- 1) Signs incorporating the international symbol of accessibility shall be installed to indicate the location of barrier free facilities.
- 2) Room identification signage shall
  - a) have at least one sign located with centerline at 1 350 mm from the finished floor and 150 mm from the door jamb on the latch side of the door,
  - b) have a clear space free of obstacles or protrusions immediately in front of the sign at least 1 500 mm long by 900 mm wide, and
  - c) include appropriate raised text, graphics and braille.
- 3) All directional signage shall
  - a) provide the necessary information at inaccessible entrances, washrooms, and facilities to reach accessible locations,
  - b) at a minimum, have one sign be located with centerline at 1 350 mm from the finished floor,
  - c) have a clear space free of obstacles or protrusions immediately in front of the sign at least 1 500 mm long by 900 mm wide, and
  - d) include appropriate raised text, graphics and braille.
- 4) Signs incorporating the symbol of accessibility for persons with hearing disabilities shall be installed to indicate the location of facilities for persons with hearing disabilities. (See Appendix A.)

### **3.8.3.2. Exterior Walks**

- 1) Exterior walks that form part of a barrier free path of travel shall:
  - a) have a slip-resistant, continuous and even surface,
  - b) have not less than 1 200 mm in clear width, except in the case where the pedestrian walkway is immediately adjacent to and at the same level as moving vehicles, in which case a minimum of 1 500 mm clear width shall be provided,
  - c) have no obstacles protruding into an exterior path of travel from the pedestrian walkway surface to 2 100 mm above grade,
  - d) shall have a turning space or passing lane of 1 500 mm by 1 500 mm every 9 m, and
  - e) have the path of travel well defined with a contrasting colour and texture from the surrounding surface.

### **3.8.3.3. Doorways and Doors**

- 1) Every public pedestrian doorway shall have a clear width of not less than 825 mm when the door is in the 90° open position, measured from the face of the door at the hinge to the face of the door stop at the door jam.
- 2) The doorway to at least one full bathroom within a suite of a residential occupancy shall have a clear width of not less than 825 mm when the doors are in the 90° open position, measured from the face of the door at the hinge to the face of the door stop at the door jam. (See Appendix A.)
- 3) Door operating devices shall be mounted no higher than 1 100 mm from the finished floor and be of a design which is useable by a single fist with limited strength and does not require tight grasping or twisting of the wrist. (See Appendix A.)
- 4) A threshold for a doorway referred to in Sentences (1) or (2) shall be not more than 13 mm higher than the finished floor surface and shall be bevelled to facilitate the use of mobility devices.
- 5) The following doors shall be equipped with a power door operator that allows persons to activate the opening of the door from either side:
  - a) at least one door in every exterior pedestrian entrance to an assembly, care, mercantile or business or personal services occupancy;
  - b) at least one door in every pedestrian entrance to a residential occupancy, and c) at least one door into a washroom facility with multiple stalls,

**5.1)** Where multiple sets of doorways are provided at an entrance, at least one of the outermost sets of doors must be equipped with power door operators.

**5.2)** The following requirements apply in respect of a door that is required to be equipped with a power door operator under Sentences (5) or (5.1):

- a) if the power door operator is activated by a push button, the push button shall
  - i) be located at least 235 mm, but no more than 900 mm, from the finished walking surface, and
  - ii) be installed such that the pedestrian using the door will remain outside of the swing of the door,
- b) for a swing-type door at an exterior entrance, the door shall have a guard on the hinge side that is colour contrasted and have horizontal guards at 150 mm, 600 mm and 1 050 mm from the finished walking surface.

**6)** Sentence repealed.

**7)** Except as permitted in Sentence (8), and except for doors with power operators, closers for doors in a *barrier-free* path of travel shall be designed to permit doors to open when a force of not more than 38 N is applied to the handles, push plates or latch-releasing devices in the case of exterior doors and 22 N in the case of interior doors

**8)** Sentence (7) does not apply to doors at the entrances to *dwelling units*, or where greater forces are required in order to close and latch the doors against prevailing differences in air pressures on opposite sides of the doors.

**9)** Except for doors at the entrances to *dwelling units*, closers for interior doors in a *barrier-free* path of travel shall have a closing period of not less than 3 seconds measured from when the door is in an open position of 70° to the doorway, to when the door reaches a point 75 mm from the closed position, measured from the leading edge of the latch side of the door.

**10)** Unless equipped with a power door operator, a door in a *barrier-free* path of travel shall have a clear space on the latch side extending the height of the doorway and not less than,

- a) 600 mm beyond the edge of the door opening if the door swings toward the approach side, and
- b) 300 mm beyond the edge of the door opening if the door swings away from the approach side.

**11)** A vestibule in a barrier-free path of travel shall be arranged to allow the movement of mobility devices between doors and shall provide a distance between two doors in series of not less than 1 500 mm plus the

width of any door that swings into the space in the path of travel from one door to another.

**12)** Vestibules referred to in Sentence (11) that are used to enter a stairwell that is not an area of refuge shall provide a distance between two doors in series of not less than 1200 mm plus the width of any door that swings into the space in the path of travel from one door to another.

**13)** At least one door measuring at a minimum of 900 mm in a multiple-leaf door shall have a clear opening of 825 mm.

#### **3.8.3.4. Ramps**

**1)** A ramp shall

- a) have a clear width not less than 900 mm between handrails or between the inside of the guard (See A-3.4.3.4 in Appendix A),
- b) have a slope not more than 1 in 12 (see Appendix A),
- c) have a level area not less than 1 500 mm by 1 500 mm at the top and bottom at an intermediate level of a ramp leading to a door, so that on the latch side, the level area extends no less than
  - i) 600 mm beyond the edge of the door opening where the door opens towards the ramp, or
  - ii) 300 mm beyond the edge of the door opening where the door opens away from the ramp,
- d) have the following level areas:
  - i) in the case of a ramp that is more than 9 m in length, a level landing not less than 1 500 mm by 1 500 mm at intervals not more than 9 m along its length,
  - ii) in the case of a ramp with a change in direction greater than 90°, a level landing at the directional change that has a width of not less than 1 500 mm and a length of not less than 1 800 mm,
  - iii) in the case of a ramp with a change in direction less than or equal to 90°, a level landing at the directional change that is not less than 1 500 mm by 1 500 mm,
- e) except as permitted in sentence (2), be equipped with handrails and guards conforming to Articles 3.4.6.4. and 3.4.6.5., and
- f) shall be designed according to 3.8.1.3.(2)(f) – Detectable Warning Surfaces.

**2)** The requirement for handrails in Clause (1)(e) need not apply to a ramp serving as an aisle for fixed seating.

**3)** Floors or walks in a *barrier-free* path of travel having a slope steeper than 1 in 20 shall be designed as ramps.



### **3.8.3.5. Passenger Elevating Devices**

1) A passenger elevating device referred to in Article 3.8.2.1. shall conform to CAN/CSA-B355, "Lifts for Persons with Physical Disabilities".

### **3.8.3.6. Spaces in Seating Area**

1) Spaces designated for wheelchair use in Sentence 3.8.2.1.(3) shall be,

- a) clear and level or level with removable seats,
- b) not less than 900 mm wide and 1 525 mm long to permit a wheelchair to enter from a side approach, and 1 220 mm long where the wheelchair enters from the front or rear of the space,
- c) arranged so that at least two designated spaces are side by side,
- d) located adjoining a *barrier-free* path of travel without infringing on egress from any row of seating or any aisle requirements, and
- e) situated, as part of the designated seating plan, to provide a choice of viewing location and a clear view of the event taking place.

### **3.8.3.7. Assistive Listening Devices**

1) In a building of assembly occupancy, all classrooms, auditoriums, meeting rooms and theatres with an area of more than 100 m<sup>2</sup> shall be equipped with an assistive listening system encompassing the entire seating area.

2) Except as provided by Sentence (3), Assistive Listening Devices (ALDs) must be provided for assistive listening systems in each assembly area in accordance with Table 3.8.3.7.

3) Where a building contains more than one assembly area and two or more of the assembly areas in which assistive listening systems are required to be provided are under the control of one person, the total number of required ALDs shall be calculated with reference to the total number of seats in those assembly areas, provided all the receivers are usable in all the areas.

Forming part of Sentence 3.8.3.7.(2)

Capacity of Seating in Assembly Area	Minimum Number of Required ALDs	Minimum Number of ALDs Required to be Hearing Aid and Cochlear Implant Compatible
50 or less	2	2
51 to 200	2, plus 1 additional for each 25 seats, or portion of 25 seats, over 50 seats	2
201 to 500	2, plus 1 additional for each 25 seats, or portion of 25 seats, over 50 seats	1 of every 4, or any portion of 4
501 to 1000	2, plus 1 additional for each 33 seats, or portion of 33 seats, over 500 seats	1 of every 4, or any portion of 4
1001 to 2000	35, plus 1 additional for each 50 seats, or portion of 50 seats, over 1 000 seats	1 of every 4, or any portion of 4
2001 and over	55, plus 1 additional for each 100 seats, or portion of 100 seats, over 2 000 seats	1 of every 4, or any portion of 4

### 3.8.3.8. Water Closet Stalls

- 1) Where a washroom is required by Article 3.8.2.3. to be *barrier-free*, at least 1 water closet stall or enclosure shall,
  - a) be at least 1 500 mm in width by 1 600 mm in depth,
  - b) be equipped with a door that shall,
    - (i) be capable of being latched from the inside with a mechanism that is operable by one hand,
    - (ii) provide, when the door is in an open position, a clear opening of at least 850 mm,
    - (iii) swing outward, unless sufficient room is provided within the stall or enclosure to permit the door to be closed without interfering with the wheelchair, (see Appendix A)
    - (iv) be provided on the inside with a door pull not less than 140mm long located so it's midpoint is not less than 200mm and not more than 300mm from the hinged side of the door and not less than 900mm and not more than 1000mm above the floor (see Appendix A)
    - (v) be provided with a door pull on the outside, near the latch side of the door, and

- c) have a water closet located so that the clearance between the fixture and the wall on one side is not less than 285 mm and not more than 305 mm,
- d) be equipped with grab bars that shall,
  - (i) are mounted horizontally on the side wall closest to the water closet and shall extend not less than 450mm in both directions from the most forward point of the water closet (see Appendix A)
  - (ii) if the water closet does not have an attached water tank, are at least 600mm in length, mounted horizontally on the wall behind the water closet and centered on the toilet bowl,
  - (iii) are mounted not less than 840mm and not more than 920mm above the floor,
  - (iv) are installed to resist a load of at least 1.3 kN applied vertically or horizontally,
  - (v) be not less than 30 mm and not more than 40 mm in diameter, and
  - (vi) have a clearance of 35 mm to 45 mm from the wall,
- e) be equipped with a coat hook mounted not more than 1 200 mm above the floor on a side wall and projecting not more than 50 mm from the wall,
- f) have a clearance of at least 1 700 mm between the outside of the stall face and the face of an in-swinging washroom door and 1 400 mm between the outside of the stall face and any wall-mounted fixture or other obstruction, and
- g) when a toilet paper dispenser is provided, provide a dispenser that is,
  - (i) wall mounted,
  - (ii) located below the grab bar,
  - (iii) in line with or not more than 300 mm in front of the toilet seat, and
  - (iv) not less than 600 mm above the floor.

#### **3.8.3.9. Water Closets**

- 1) Where a barrier-free washroom is required by Article 3.8.2.3, at least one water closet in the washroom shall be equipped with
  - a) a seat that is not less than 400 mm and not more than 460 mm above the floor,
  - b) hand-operated flushing controls that are easily operable or automatically operable, and
  - c) a seat lid or other back support.

#### **3.8.3.10. Urinals**

- 1) If urinals are provided in a barrier free washroom, at least one urinal shall be wall mounted, with the rim located between 488 mm and 512 mm above the floor.
- 2) A urinal described in Sentence (1) shall have

- a) a clear width of approach of 850 mm, centred on the urinal, b) no step in front, and
- c) grab bars that are
  - i) vertically mounted to the back wall,
  - ii) located on both sides of the urinal and not more than 380 mm from the centerline of the urinal,
  - iii) not less than 600 mm long, with the vertical centerline 950 mm above the floor, and
  - iv) colour contrasted with the colour of the back wall.

### 3.8.3.11. Lavatories

- 1) A barrier-free washroom shall be provided with a lavatory that shall,
  - a) be located so that the distance between the centreline of the lavatory and the side wall is not less than 460 mm,
  - b) be mounted so that the top of the lavatory or, where the lavatory is in a vanity, the top of the vanity is not more than 840 mm above the finished floor,
  - c) have a clearance beneath the lavatory not less than,
    - (i) 760 mm wide,
    - (ii) 735 mm high at the front edge,
    - (iii) 685 mm high at a point 205 mm back from the front edge, and
    - (iv) 230 mm high over the distance from a point 280 mm to a point 430 mm back from the front edge,
  - (d) have insulated pipes where they would otherwise present a burn hazard or have water supply temperature limited to a maximum of 43°C,
  - e) has a soap dispenser that is operable with one hand that is
    - i) surface mounted, or
    - ii) wall mounted, in which case the soap dispenser shall be located close to the lavatory and have the operable part be not more than 150 mm above the counter or lavatory rim, and
  - f) has a towel dispenser or other hand-drying equipment that is located not more than 1 200 mm above the floor and close to the lavatory, in an area that has a clear floor space of no less than 900 mm wide and 1 200 mm deep.
- 2) A barrier-free washroom must be equipped with at least one mirror, which shall be mounted with its bottom edge not more than 1 000 mm above the floor.

### 3.8.3.12. Universal Toilet Rooms

- 1) A universal toilet room shall,
  - a) be served by a *barrier-free* path of travel,
  - b) have a door capable of being locked from the inside and released from the outside in case of emergency and that has,
    - (i) a graspable latch-operating mechanism located not less than 900 mm and not more than 1 000 mm above the floor,
    - (ii) if it is an outward swinging door, a door pull not less than 140 mm long located on the inside so that its midpoint is not less than 200 mm and not more than 300 mm from the hinged side of the door and not less than 900 mm and not more than 1 000 mm above the floor, and
    - (iii) if it is an outward swinging door, a door closer, spring hinges or gravity hinges, so that the door closes automatically,
  - c) have one lavatory conforming to Article 3.8.3.11.,
  - d) have one water closet conforming to the requirements of Article 3.8.3.9. and located,
    - (i) so that its centreline is not less than 460 mm and not more than 480 mm from an adjacent side wall on one side, and
    - (ii) not less than 1 020 mm to the wall on the other side,
  - e) have grab bars conforming to Clause 3.8.3.8.(1)(d),
  - g) have a coat hook conforming to Clause 3.8.3.8.(1)(e) and a shelf located not more than 1 200 mm above the floor,
  - h) be designed to permit a wheelchair to back in alongside the water closet in the space referred to in Subclause (d)(ii),
  - i) be designed to permit a wheelchair to turn in an open space not less than 1 700 mm in diameter, and
- 2) If a storey of a building is not serviced by an elevator or inclined moving walk, it shall be equipped with a universal toilet room that conforms with Article 3.8.3.12. or a washroom that conforms with Article 3.8.2.3. (washrooms required to be barrier free).

### 3.8.3.13. Showers and Bathtubs

- 1) Except within a *suite of residential occupancy*, if showers are provided in a *building*, at least one shower stall in each group of showers shall be *barrier-free* and shall,
  - a) be not less than 1 500 mm wide and 900 mm deep,
  - b) have a clear floor space at the entrance to the shower not less than 900 mm deep and the same width as the shower, except that fixtures are permitted to project into that space provided they do not restrict access or use to the shower,
  - c) have a slip-resistant floor surface,
  - d) have a bevelled threshold not more than 13 mm higher than the finished floor,
  - e) have a hinged seat that is not spring-loaded or a fixed seat that shall be,
    - (i) not less than 450 mm wide and 400 mm deep,

- (ii) mounted approximately 450 mm above the floor, and
- (iii) designed to carry a minimum load of 1.3 kN,
- f) have a horizontal grab bar conforming to Subclauses 3.8.3.8.(1)(d)(iv) to (vi) that is,
  - (i) not less than 900 mm long,
  - (ii) mounted approximately 850 mm above the floor, and
  - (iii) located on the wall opposite the entrance to the shower so that not less than 300 mm of its length is at one side of the seat,
- f.1) have a vertical grab bar on each of the side walls of the shower that
  - i) conforms to Subclauses 3.8.3.8.(1)(d)(iv), (d)(v) and (d)(vi) (see Appendix A),
  - ii) are not less than 900 mm long, and
  - iii) are mounted with the bottom of the grab bar no less than 700 mm to 800 mm from the floor;
- (g) have a pressure-equalizing or thermostatic mixing valve controlled by a lever or other device operable with a closed fist from the seated position,
- (h) have a hand-held shower head with not less than 1 500 mm of flexible hose located so that it can be reached from the seated position and equipped with a support so that it can operate as a fixed shower head, and
- i) have a shelf that is reachable from the seated or standing position, located between 800 mm and 1 200 mm from the floor, provided that it does not restrict access to and use of the shower.

#### **3.8.3.14. Counters**

- 1)** Every counter at which the public is served, shall have at least one barrier free section not less than 800 mm long centred over a knee space conforming to Sentence (3). (See Appendix A.) (See also A-3.8.2.1. in Appendix A.)
- 2)** A barrier free counter surface shall be not more than 800 mm above the floor.
- 3)** Except as permitted in Sentence (4), the knee space beneath a barrier free counter intended to be used as a work surface shall be not less than
  - a) 800 mm wide,
  - b) 700 mm high, and
  - c) 500 mm deep.
- 4)** A counter that is used in a cafeteria, or one that performs a similar function whereat movement takes place parallel to the counter, need not provide a knee space underneath it.

### 3.8.3.15. Shelves or Counters for Telephones

- 1) Where built-in shelves or counters are provided for public telephones, they shall be level and shall
  - a) be not less than 350 mm deep, and
  - b) have, for each telephone provided, a clear space not less than 500 mm wide having no obstruction within 250 mm above the surface.
- 2) The top surface of a section of the shelf or counter described in Sentence (1) serving at least one telephone shall be not more than 800 mm above the floor.
- 3) If a wall-hung telephone is provided above the shelf or counter section described in Sentence (2), it shall be located so that the receiver and coin slot are not more than 1 200 mm above the floor.

### 3.8.3.16. Drinking Fountains

- 1) Where drinking fountains are provided, at least one shall be *barrier-free* and shall,
  - a) have a spout located near the front of the unit not more than 915 mm above the floor, and
  - b) be equipped with controls that are easily operated from a wheelchair using one hand with a force of not more than 22 N or be automatically operable.

### 3.8.3.17. Bathtubs

- 1) If a bathtub is installed in a suite of residential occupancy required to be *barrier-free*, it shall
  - a) Be located in a room complying with the dimensions stated in Sentence 3.8.3.12.(1)
  - b) Conform to Article 3.7.2.9., and
  - c) Be equipped with a hand-held shower head conforming to Clause 3.8.3.13.(1)(h) but with not less than 1800mm of flexible hose.

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