

Schedule “C”
Barrier-Free Design

As amended by Article 3.1.1.5. of these regulations Section 3.8 Barrier-Free Design of the Code is replaced with the following:

Section 3.8 Barrier-Free Design

3.8.1. General (see Appendix Note 3.8.1.)

3.8.1.1. Application

- (1) The requirements of this section apply to all *buildings*, except
 - (a) houses, including semi-detached, duplexes, triplexes, townhouses, row houses, boarding houses, and rooming houses,
 - (b) houses on their own lot, except as required by Sentence 3.8.1.1.(5), houses licensed under the *Tourist Accommodations Act* as *roofed accommodation*, for not more than 10 persons including the owner and the owner’s family,
 - (c) buildings of Group F, Division 1 major occupancy,
 - (d) buildings which are not intended to be occupied on a daily or full time basis, including automatic telephone exchanges, pumphouses, and substations, and
 - (e) industrial occupancies with an operation which is not adaptable to barrier-free.

- (2) In *camping accommodation* where sleeping accommodations are provided, and in *roofed accommodation* one sleeping unit conforming to Article 3.8.3.17. shall be provided for every twenty (20) sleeping units or part thereof.

- (3) In *roofed accommodation*, when a fire alarm system is required by Subsection 3.2.4. (Part 3, Division B, Volume 1) or Subsection 9.10.18. (Part 9, Division B, Volume 1) NBC, at least one sleeping unit for every twenty (20) sleeping units or part thereof, other than those required in Sentence 3.8.1.1.(2), shall be provided with a warning system which shall conform to Article 3.2.4.19. Visual Signals (Part 3, Division B, Volume 1).

- (4) Every floor area to which a barrier-free path of travel is required to provide access, shall conform to Article 3.3.1.7. (Part 3, Division B, Volume 1). Protection on Floor Areas with a Barrier-Free Path of Travel.
- (5) Where an alteration on the entrance level is made to a house, exempt by Clause 3.8.1.1.(1)(b), to add sleeping accommodation,
 - (a) one sleeping unit conforming to Article 3.8.3.17.,
 - (b) an entrance conforming to Article 3.8.3.3.,
 - (c) barrier free path of travel conforming to Article 3.8.1.3., and
 - (d) one parking stall for each required sleeping unit under this Sentence conforming with Sentence 3.8.2.2.(5) shall be provided.
- (6) Except as exempt by 3.8.1.1.(1)(a), in residential occupancies of multiple suites, one unit conforming to Article 3.8.3.18. shall be provided for every twenty (20) units or part thereof. (See Appendix A-3.8.1.1.(6).)

3.8.1.2. Entrances (see Appendix A- 3.8.1.2.)

- (1) In addition to the barrier-free entrances required by Sentence (2), not less than 50% of the pedestrian entrances of 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) A suite of assembly occupancy, business and personal services occupancy or mercantile occupancy that is located in the first storey of a building, or in a storey to which a barrier-free path of travel is provided, and that is completely separated from the remainder of the building so that there is no access to the remainder of the building, shall have at least one barrier-free entrance.
- (3) A barrier-free entrance required by Sentences (1) or (2) shall be designed in accordance with Article 3.8.3.3.
- (4) At a barrier-free entrance that includes more than one doorway, only one of the doorways is required to be designed in accordance with the requirements of 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 a *walkway* or bridge shall be barrier free.
- (6) Where a principal entrance to a building of residential occupancy is equipped with a security door system,
 - (a) both visual and audible signals shall be used to indicate when the door lock is released, and
 - (b) [if] there are more than 20 suites a closed circuit visual monitoring system shall be provided capable of connection to individual suites.
- (7) Where a house is required to conform to the requirements of Sentence 3.8.1.1.(5) such house shall provide one barrier free entrance in conformance with Sentence (1).

3.8.1.3. Barrier-Free Path of Travel (see Appendix A - 3.8.1.3.)

- (1) Except as required elsewhere in this Part or as permitted by Article 3.8.3.3. for doorways, the unobstructed width of a *barrier-free* path of travel shall be not less than 920 mm.
- (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 diam,
 - (b) have any elongated openings oriented approximately perpendicular to the direction of travel,
 - (c) be stable, firm, 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.
- (3) A barrier-free path of travel is permitted to include ramps, passenger elevators or other platform elevating devices to overcome a difference in level.
- (4) The width of a barrier free path of travel that is more than 30 m long shall be increased to not less than 1500 mm for a length of 1500 mm at intervals not exceeding 30 m.
- (5) **A barrier-free path of travel from the street to the entrance of a building shall be straight, where there are turns, they shall be 90-degrees.**

3.8.1.4. Storeys Served by Escalators

- (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. (See Appendix A, Division B, Volume 2.)
- (2) The route from the escalator or inclined moving walk to the *barrier-free* path of travel 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 Sentence 3.8.1.5. (Part 3, Division B, Volume 1) for elevators, controls for the operation of *building* services or safety devices, including **colour contrasted** electrical switches, thermostats and intercom switches, intended to be operated by the occupant and located in or adjacent to a *barrier-free* path of travel shall be accessible to a person in a wheelchair, operable with one hand, and mounted between 400 mm and 1200 mm above the floor.

3.8.2. Occupancy Requirements

3.8.2.1. Areas Requiring a Barrier-Free Path of Travel (see Appendix A-3.8.2.1.)

- (1) Except as permitted by Sentence (2), a *barrier-free* path of travel from the entrances required by Sentences 3.8.1.2.(1) and (2) to be *barrier-free* shall be provided throughout and within all normally occupied *floor areas* of
 - (a) the entrance storey,
 - (b) each storey exceeding 600 m² in area, and
 - (c) each storey served by a passenger elevator, escalator, inclined moving walk, or other platform equipped passenger elevating device.

(c) the edge of the curb at the entrance shall be painted yellow – a strip of 50mm on the vertical surface of the edge and a strip of 50mm on the horizontal surface – with slip resistant paint.

(See Article 3.3.1.7. Protection on Floor Areas with a Barrier-Free Path of Travel (Part 3, Division B, Volume 1) for additional requirements for 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 for persons in wheelchairs is not required
- (a) to service rooms,
 - (b) to elevator machine rooms,
 - (c) to janitor's rooms,
 - (d) to service spaces,
 - (e) to crawl spaces,
 - (f) to attic or roof spaces,
 - (g) to floor levels not served by a passenger elevator, a platform equipped passenger elevating device, an escalator, or an inclined moving walk,
 - (h) to high hazard industrial occupancies,
 - (i) within 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 wheelchair use,
 - (j) within floor levels of a suite of residential occupancy that are not at the same level as the entry level to the suite,
 - (k) within a *suite of residential occupancy* not required by 3.8.1.1.(6) or
 - (l) within those parts of a floor area that are not at the same level as the entry level, provided amenities and uses provided on any raised or sunken level are accessible on the entry level by means of a barrier-free path of travel.
- (3) In an assembly occupancy, the number of spaces designated for wheelchair use 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.)

Table 3.8.2.1. Designated Wheelchair Spaces

Number of Fixed Seats in Seating Area	Number of Spaces Required for Wheelchairs
2 – 100	2
101 – 200	3
201 – 300	4
301 – 400	5
401 – 500	6
501 – 900	7
901 – 1300	8
1301 – 1700	9
each increment of up to 400 seats in excess of 1700	one additional space

- (4) A platform equipped passenger elevating device referred to in Sentence (1) shall conform to CSA B355, “Lifts for Persons with Physical Disabilities”.

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-3.8.1.2.)
- (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
- an access aisle not less than 1500 mm wide and 6000 mm long adjacent and parallel to the vehicle pull-up space,
 - a curb ramp conforming to 3.8.3.2(2), where there are curbs between the access aisle and the vehicle pull-up space, and
 - a clear height not less than 2750 mm at the pull-up space and along the vehicle access and egress routes.
- (4) Where on-site parking is provided, parking stalls for use by disabled persons shall be provided
- as designated by Table 3.8.2.2.,
 - one parking stall for disabled persons shall be provided for each viewing position required in assembly occupancies in Sentence 3.8.2.1.(3) or
 - one parking stall for each barrier free residential suite.

Table 3.8.2.2. Designated Parking Stalls

Number of Parking Stalls	Number of Designated Stalls Required for Wheelchairs
2 – 15	1
16 – 45	2
46 – 100	3
101 – 200	4
201 – 300	5
301 – 400	6
401 – 500	7
501 – 900	8

901 – 1300	9
1301 – 1700	10
each increment of up to 400 stalls in excess of 1700	one additional space

- (5) Parking stalls for use by persons with physical disabilities shall
- (a) be not less than **2600 mm** wide and provided on one side with an access aisle not less than **2000 mm** wide, (if more than one parking space is provided for persons with physical disabilities, a single access aisle can serve two adjacent parking stalls) and parallel parking stalls shall be not less than **7500 mm** long.
 - (b) have a firm, slip-resistant and level surface of asphalt, concrete or compacted gravel,
 - (c) be located close to an entrance required to conform to Article 3.8.1.3., but not exceeding 50 m,
 - (d) be clearly marked as being for the use of persons with physical disabilities, and
 - (e) be identified by a sign **that shall conform to CSA B651-04, “Accessible Design for the Built Environment”**.

3.8.2.3. Washrooms Required to be Barrier-Free

- (1) Except as permitted by Sentence (2), a washroom in a storey to which a barrier-free path of travel is required in accordance with Article 3.8.2.1., shall be barrier-free in accordance with the appropriate requirements in Articles 3.8.3.8. to 3.8.3.12.
- (2) A washroom need not conform to the requirements of Sentence (1) provided
 - (a) it is located within a suite of residential occupancy, except where required by 3.8.1.1.(6), or
 - (b) other barrier-free washrooms are provided on the same floor area within 45 m.
- (3) In a *building* in which water closets are required in accordance with Subsection 3.7.2., one or more *barrier-free* water closets shall be provided in the entrance *storey*, unless
 - (a) a *barrier-free* path of travel is provided to *barrier-free* water closets elsewhere in the building, or
 - (b) the water closets required by Subsection 3.7.2. are for *dwelling units* only.
- (4) In any space containing 4 or more water closets at least one of the water closets shall conform to Articles 3.8.3.8. and 3.8.3.9. (See Appendix A.)

- (5) Where *alterations* are made to existing buildings, a universal toilet room conforming to Article 3.8.3.12. is permitted to be provided in lieu of facilities for disabled persons in washrooms used by the general public.

3.8.3. Design Standards

3.8.3.1. Accessibility Signs

- (1) Signs incorporating the international symbol of accessibility for persons with physical disabilities shall be installed to indicate the location of a barrier-free entrance. **Tactile characters shall be accompanied by uncontracted Braille, below the corresponding text. If text is multi-lined, Braille shall be placed below entire text.** (See Appendix A.)
- (2) A teletypewriter (TTY/TDD) phone, washroom, shower, elevator or parking space designed to be barrier-free shall be identified by a sign consisting of the international symbol of accessibility for persons with physical disabilities and by appropriate graphic or written directions to indicate clearly the type of facility available. (See Appendix A.)
- (3) If a washroom is not designed to accommodate persons with physical disabilities in a storey to which a barrier-free path of travel is required, signs shall be provided to indicate the location of barrier-free facilities **and include Braille.** (See Appendix A.)
- (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.)
- (5) **Tactile sign and signs with Braille must be easy to reach and touch; Braille shall be located a minimum of 1015mm, and a maximum of 1525mm, above the finish floor.**
- (6) **The tactile sign shall be on the latch side of the door, the only exception is for washroom where signs should be place on the door itself. Where there are double doors, tactile signs shall be placed to the right of the right-hand door.**
- (7) **Characters shall be upper case, not be italic, oblique, script, highly decorative or unusual form.**

3.8.3.2. Exterior Walks

- (1) Exterior walks that form part of a *barrier-free* path of travel shall
 - (a) be not less than 1100 mm wide, and
 - (b) have a level area conforming to Clause 3.8.3.4.(1)(c) adjacent to each entrance doorway.
- (2) A curb ramp shall have
 - (a) a minimum width of 1200 mm,
 - (b) a maximum slope of 1 in 12,
 - (c) flared sides with a maximum slope of 1 in 10. (See Appendix Note A 3.8.3.2.)

3.8.3.3. Doorways and Doors

- (1) Every doorway that is located in a barrier-free path of travel shall have a clear width not less than 800 mm when the door is in the open position. (See Appendix A, Division B, Volume 2 NBC.)
- (2) Door operating devices shall be of a design which does not require tight grasping and twisting of the wrist as the only means of operation. (See Appendix A, Division B, Volume 2 NBC.).
- (3) A threshold for a doorway referred to in Sentences (1) or (2) shall not be more than 13 mm higher than the finished floor surface and shall be bevelled to facilitate the passage of wheelchairs.
- (4) Except as permitted by Sentences (5) and (11), every door that provides a *barrier-free* path of travel through an entrance referred to in Article 3.8.1.2. shall be equipped with a power door operator if the entrance serves
 - (a) a hotel,
 - (b) a *building* containing a Group B, Division 2 *major occupancy*, or
 - (c) a *building* more than 500 m² in *building area* containing an *assembly occupancy*, a *business and personal services occupancy* or a *mercantile occupancy*. (See Appendix A, Division B, Volume 2 NBC.)
- (5) The requirements of Sentence 3.8.3.3.(4) do not apply to an individual suite having an area less than 500 m² in a building having only suites of *assembly occupancy*, *business and personal services occupancy* or *mercantile occupancy* if the

suite is completely separated from the remainder of the *building* so that there is no access to the remainder of the *building*.

- (6) Except as permitted by Sentence 3.8.3.3.(7) and except for a door with a power door operator, a closer for a door in a barrier-free path of travel shall be designed to permit the door to open when the force applied to the handle, push plate or latch-releasing device is not more than
 - (a) 38 N in the case of an exterior door, or
 - (b) 22 N in the case of an interior door.
- (7) Sentence 3.8.3.3.(6) does not apply to a door at the entrance to a dwelling unit, or where greater forces are required in order to close and latch the door against the prevailing difference in air pressure on opposite sides of the door. (See Appendix A, Division B, Volume 2.)
- (8) Except for a door at the entrance to a *dwelling unit*, a closer for an interior door in a barrier-free path of travel shall have a closing period of not less than 3 s measured from when the door is in an open position of 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. (See Appendix A, Division B, Volume 2.)
- (9) Unless equipped for power door operation, 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. (See Appendix A, Division B, Volume 2 NBC.)
- (10) A vestibule located in a barrier-free path of travel shall be arranged to allow the movement of wheelchairs **or a service animal (ex. guide dog) user** between doors and shall provide a distance between 2 doors in series of not less than 1 200 mm plus the width of any door that swings into the space in the path of travel from one door to another.
- (11) Only the active leaf in a multiple leaf door in a barrier-free path of travel need conform to the requirements of this Article. (Appendix A, Division B, Volume 2 NBC.)

- (12) Except as provided in Clause 3.8.3.4.(1)(c), the floor surface on each side of a door in a *barrier-free* path of travel shall be level within a rectangular area
- (a) as wide as the door plus the clearance on the latch side required by Sentence 3.8.3.3.(9), and
 - (b) whose dimension perpendicular to the closed door not less than the width of the *barrier-free* path of travel but need not exceed 1500 mm.
- (13) The power door operator required by Sentence (4) shall function for passage in both directions through the door.
- (14) Where a power door operator is required at least one leaf in each set of doors in the barrier free path of travel through a vestibule shall meet the requirements. (See Appendix A-3.8.3.3.(14).)
- (15) Doorways in a path of travel to and into at least one bathroom within a suite of residential occupancy shall have a clear width of not less than 800 mm when the door is in the open position.

3.8.3.4. Ramps

- (1) A ramp located in a barrier-free path of travel shall
- (a) have a width of **920 mm** between handrails;
 - (b) have a slope not more than 1 in 12 (see Appendix A, Division B, Volume 2 NBC),
 - (c) have a level area not less than 1500 by 1500 mm at the top and bottom and at intermediate levels of a ramp leading to a door, so that on the latch side the level area extends not 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 (see Appendix A, Division B, Volume 2 NBC),
 - (d) have a level area not less than 1200 mm long and at least the same width as the ramp
 - (i) at intervals not more than 9 m along its length, and
 - (ii) where there is an abrupt change in the direction of the ramp, and
 - (e) except as permitted by Sentence (2), be equipped with handrails and guards conforming to Articles 3.4.6.4. and 3.4.6.5.

- (2) The requirement for handrails in Clause 3.8.3.4.(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. Spaces in Seating Area

- (1) Spaces designated for wheelchair use referred to 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 1525 mm long to permit a wheelchair to enter from a side approach and 1220 mm long where the wheelchair enters from the front or rear of the space,
 - (c) arranged so that at least 2 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.

3.8.3.6. Assistive Listening Devices

- (1) Except as permitted in Sentence (2), in *buildings of assembly occupancy*, all classrooms, auditoria, meeting rooms, churches or places of worship, and theatres with an area of more than 100 m², and all courtrooms shall be equipped with an assistive listening system encompassing the entire seating area.
- (2) Where the assistive listening system required in Sentence (1) is an induction loop system, only half the seating area in the room need be encompassed.

3.8.3.7. Water Closet Stalls

- (1) At least one water closet stall or enclosure in a room or space required by Article 3.8.2.3. to be *barrier-free* shall
 - (a) be not less than 1500 mm wide by 1500 mm deep,
 - (b) be equipped with a door which shall
 - (i) be capable of being latched from the inside,
 - (ii) provide a clear opening not less than 800 mm wide with the door in the open position,

- (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, Division B, Volume 2 NBC),
 - (iv) be provided on the inside with a door pull not less than 140 mm long located 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 1000 mm above the floor (see Appendix A, Division B, Volume 2 NBC), and
 - (v) be provided with a door pull on the outside, near the latch side of the door,
- (c) have a water closet located so that its centre line is 460 mm from the wall with the grab bar and 1030 mm from any obstruction on the other side wall.
- (d) be equipped with grab bars which shall
- (i) be mounted horizontally on the side wall closest to the water closet and shall extend not less than 450 mm in both directions from the most forward point of the water closet (see Appendix A, Division B, Volume 2 NBC),
 - (ii) be mounted horizontally on the wall behind the water closet, extending not less than 600 mm and centred on the toilet bowl, if the water closet does not have an attached water tank,
 - (iii) be mounted not less than 840 mm and not more than 920 mm above the floor,
 - (iv) be installed to resist a load of not less than 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 not less than 35 mm and not more than 45 mm from the wall,
- (e) be equipped with a coat hook mounted not more than 1200 mm above the floor on a side wall and projecting not more than 50 mm from the wall and
- (f) have a clearance of not less than 1700 mm between the outside of the stall face and the face of an in-swinging washroom door and 1400 mm between the outside of the stall face and any wall-mounted fixture.

3.8.3.8. Water Closets

- (1) A water closet for a person with physical disabilities shall

- (a) be equipped with a seat located at not less than 400 mm and not more than 460 mm above the floor,
- (b) be equipped with hand-operated flushing controls that are easily accessible to a wheelchair user or be automatically operable,
- (c) be equipped with a seat lid or other back support, and
- (d) not have a spring-actuated seat (see Appendix A, Division B, Volume 2 NBC)
- (e) be located so that its centre line is 460 mm from the wall with the grab bar and 1030 mm from any obstruction on the other side wall.

3.8.3.9. Urinals

- (1) If urinals are provided in a barrier-free washroom, at least one urinal shall be
 - (a) wall mounted, with the rim located between 488 mm and 512 mm above the floor, or
 - (b) floor mounted, with the rim level with the finished floor

- (2) The urinal described in Sentence (1) shall have
 - (a) a clear width of approach of 800 mm centred on the urinal,
 - (b) no step in front, and
 - (c) installed on each side a vertically mounted grab bar that is not less than 300 mm long, with its centerline 1000 mm above the floor, and located not more than 380 mm from the centerline of the urinal.

3.8.3.10. Lavatories

- (1) A barrier-free washroom shall be provided with a lavatory which shall
 - (a) be located so that the distance between the centerline of the lavatory and the side wall is not less than 460 mm,
 - (b) have a rim height not more than 865 mm above the 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 (see Appendix A, Division B, Volume 2 NBC),
 - (d) have insulated pipes where they would otherwise present a burn hazard (see Appendix A, Division B, Volume 2 NBC),

- (e) have soap dispensers located close to the lavatory, not more than 1200 mm above the floor, and accessible to persons in wheelchairs, and
- (f) have towel dispensers or other hand drying equipment located not more than 1200 mm above the floor in an area that is accessible to persons in wheelchairs.
- (g) Faucets and other controls shall be automatically activated; or have lever-type handles that are at least 75 mm long from the centre of rotation to the handle tip; and are not spring-loaded.**

- (2) If mirrors are provided in a barrier-free washroom, at least one mirror shall be
 - (a) mounted with its bottom edge not more than 1 000 mm above the floor, or
 - (b) be inclined to the vertical to be usable by a person in a wheelchair.

3.8.3.11. Universal Toilet Room (see NBC 3.7.2. (Part 3, Division B Volume 1) and (Appendix A, Division B, Volume 2))

- (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 which has
 - (i) a graspable latch operating mechanism located not less than 900mm and not more than 1000 mm above the floor,
 - (ii) on 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 1000 mm above the floor (see A-3.8.3.8.(1)(b)(iv) in Appendix A), and
 - (iii) on an outward swinging door, have 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. located so that its centre line is 460 mm from the wall with the grab bar and 1030 mm from any obstruction on the other side wall.
 - (e) have grab bars conforming to Clause 3.8.3.8.(1)(d),
 - (f) have no internal dimension between walls less than 1700 mm,

- (g) have a coat hook conforming to Clause 3.8.3.8.(1)(e) and a shelf **or counter at least 200 mm by 400 mm** located not more than 1200 mm above the floor,
- (h) be designed to permit a wheelchair to back in alongside the water closet in the space referred to in Clause (d), and
- (i) be designed to permit a wheelchair to turn in an open space that has a diameter not less than 1500 mm.

3.8.3.12. 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 1500 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 to the shower (see Appendix A, Division B, Volume 2 NBC),
 - (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), (v) and (vi) that shall be
 - (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, (see Appendix A, Division B, Volume 2 NBC),
 - (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 1500 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 fully recessed soap holders that can be reached from the seated position.

- (2) If individual shower stalls are provided for use by residents and patients in buildings of Group B, Division 2 institutional occupancy shall conform to the requirements of Clauses (1)(a) to (i) except where
 - (a) common showers are provided in conformance with Clauses (1)(a) to (i), or
 - (b) common bath tubs equipped with hoist mechanisms to accommodate residents and patients are available.

- (3) 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 of Sentence 3.8.3.12.(1),
 - (b) conform to Article 3.7.4.9.,
 - (c) be equipped with a hand-held shower head and controls conforming to Article 3.8.3.13. but with a hose 1800 mm long, and
 - (d) have grab bars, instead of those required by Article 3.7.4.9., that are at least
 - (i) 1200 mm long, located vertically at the end of the bathtub that is adjacent to the clear floor space, with the lower end between 180 mm and 280 mm above the bathtub rim, and
 - (ii) 1200 mm long located horizontally along the length of the bathtub located 180 mm to 280 mm above the bathtub rim.

3.8.3.13. Counters

- (1) Every counter more than 2 m long, at which the public is served, shall have at least one *barrier-free* section not less than 760 mm long centred over the knee space required by Sentence (3).

- (2) A barrier-free counter surface shall be not more than 865 mm above the floor.

- (3) Except as permitted by Sentence (4), knee space beneath each side of a *barrier-free* counter intended to be used as a work surface shall be not less than
 - (a) 760 mm wide,
 - (b) 685 mm high, and
 - (c) 485 mm deep.

- (4) A counter that is used in a cafeteria or one that performs a similar function in which movement takes place parallel to the counter need not have knee space underneath the counter.

3.8.3.14. Shelves or Counters for Telephones and TTY/TDD Telephone Services (see Appendix A, Division B, Volume 2 NBC)

- (1) If built-in shelves or counters are provided for public telephones, they shall be level and shall
 - (a) be not less than 305 mm deep, and
 - (b) have, for each telephone provided, a clear space not less than 250 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 865 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 1200 mm above the floor.
- (4) **Where public telephones are provided, at least one telephone shall be provided with a variable volume control capable of a minimum 12 dbA and a maximum 18 dbA above normal on the receiver and at least one built-in teletypewriter telephone (TTY).**
- (5) At least one built-in teletypewriter telephone (TTY/TDD) shall be provided and located in a publicly accessible location where
 - (a) four or more public access telephones are provided, including interior and exterior locations, or
 - (b) the building area exceeds 600 m² in a Group A, Group B, Group D, Group E occupancy, or in a hotel or motel, or
 - (c) where a hotel or motel, is required by Sentence 3.8.1.1.(2) to provide a barrier free suite, or
 - (d) where a Tourist Cabin is required by Sentence 3.8.1.1.(2) to provide barrier free suites, at least one built-in teletypewriter telephone (TTY/TDD) must be located in public location, or a portable unit available for use.
(See Appendix A-3.8.3.15.(5)(d).)
- (5) Where public telephones are provided, at least one electrical receptacle shall be provided within 500 mm of one of the public telephones.

3.8.3.15. Drinking Fountains

- (1) If 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 operable from a wheelchair using one hand with a force of not more than 22 N or be automatically operable.

3.8.3.16. Sleeping Units in Roofed Accommodation

- (1) Where sleeping units suites are required by Sentence 3.8.1.1.(2), they shall have
 - (a) sufficient space to provide a turning area of not less than 1500 mm diameter on one side of a bed,
 - (b) sufficient space to provide clearance of not less than 900 mm to allow for functional use of units by persons in wheelchairs,
 - (c) an accessible balcony where balconies are provided,
 - (d) at least one closet that provides
 - (i) a minimum clear opening of 900 mm,
 - (ii) clothes hanger rods located at a height of 1200 mm, and
 - (iii) at least one shelf located at a height of 1370 mm,
 - (e) light switches, thermostats and other controls that are specifically provided for use by the occupant shall be mounted not more than 1375 mm above the floor,
 - (f) electrical receptacles located between 455 mm and 550 mm above the finished floor,
 - (g) a GFI outlet located not more than 1200 mm above the floor, and
 - (h) an accessible bathroom which shall be designed to provide manoeuvring space up to each type of fixture required to be usable by persons in a wheelchair conforming to the following:
 - (i) a floor space of not less than 3.7 m² with no dimension less than 1700 mm when the door swings out and 4.0 m² with no dimension less than 1800 mm when the door swings in,
 - (ii) fixtures located to provide maximum manoeuvrability for persons in wheelchairs,
 - (iii) have grab bars conforming to Clause 3.8.3.8.(1)(d),
 - (iv) have a coat hook conforming to Clause 3.8.3.8.(1)(e),
 - (v) a water closet conforming to Article 3.8.3.9.,

- (vi) contain at least one lavatory conforming to Article 3.8.3.10,
 - (i) washroom accessories conforming to Clause 3.8.3.10.(1)(f), and
 - (j) a lock on the entrance door that is operable with one hand.
- (2) If a bathtub is installed in a *suite of residential occupancy* required to be *barrier-free*, at least one shall
- (a) be located in a room complying with the dimensions of Sentence 3.8.3.12.(1),
 - (b) be equipped with a hand-held shower head and controls conforming to Article 3.8.3.13. but with a hose 1800 mm long, and
 - (c) have grab bars, instead of those required by Article 3.7.4.9., that are at least
 - (i) 1200 mm long, located vertically at the end of the bathtub that is adjacent to the clear floor space, with the lower end between 180 mm and 280 mm above the bathtub rim, and
 - (ii) 1200 mm long located horizontally along the length of the bathtub located 180 mm to 280 mm above the bathtub rim.
- (3) If a shower is installed within a *suite of residential occupancy*, required to be barrier-free at least one shower stall shall be *barrier-free* and shall
- (a) be not less than 1500 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 to the shower (see Appendix A, Division B, Volume 2 NBC),
 - (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 springloaded 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), (v) and (vi) that shall be
 - (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 (see Appendix A, Division B, Volume 2 NBC),

- (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 1500 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 fully recessed soap holders that can be reached from the seated position.

3.8.3.17. Suites of Residential Occupancies Required to Be Barrier-Free

General

- (1) Where one or more suites of residential occupancy are required by Sentence 3.8.1.1.(6) every required suite shall be served by
 - (a) entrances in accordance with Article 3.8.1.2.,
 - (b) barrier-free path of travel to, into, and throughout each required suite in accordance with Article 3.8.1.3.,
 - (c) an accessible balcony if required in accordance with NBC 3.3.1.7. 1.(c) Part 3, Division B Volume 1,
 - (d) Where a suite of residential occupancy is required by Sentence 3.8.1.1.(6), barrier free controls for the operation of *building* services or safety devices, including electrical switches, thermostats and intercom switches, shall be accessible to a person in a wheelchair, operable with one hand, and mounted not more than 1200 mm above the floor and electrical receptacles shall be located between 400 mm and 550 mm above the finished floor, except as required by clause 3.8.3.17.(3)(f) (bathroom) and subclause 3.8.3.17.(4)(c)(v) (kitchen).

Sleeping Area

- (2) Where a suite of residential occupancy is required by Sentence 3.8.1.1.(6) to provide barrier free access it shall contain at least one sleeping area with
 - (a) a minimum floor area 12.25 m²,
 - (b) a least one horizontal room dimension not less than 3.35 m, and
 - (c) at least one closet that provides
 - (i) a minimum clear opening of 900 mm,
 - (ii) clothes hanger rods located at a height of 1200 mm, and
 - (iii) at least one shelf located at a height of 1370 mm.

Bathroom

- (3) Where a suite of residential occupancy is required by Sentence 3.8.1.1.(6) to provide barrier free access, a minimum of one accessible bathroom shall be provided with:
- (a) a floor space of not less than 3.7 m² with no dimension less than 1700 mm when the door swings out and 4.0 m² with no dimension less than 1800 mm when the door swings in,
 - (b) a water closet conforming to Article 3.8.3.9.,
 - (c) a lavatory conforming to Article 3.8.3.11.,
 - (d) where a shower is provided, it shall conform to Clauses 3.8.3.13.(1)(a) to (i),
 - (e) where a tub is provided, it shall conform to Clauses 3.8.3.13.(3)(a) to (d), and
 - (f) a GFI razor outlet located not more than 1200 mm above the floor.

Kitchen

- (4) Where a suite of residential occupancy is required by Sentence 3.8.1.1.(6) to provide barrier free access the kitchen shall have
- (a) a minimum 1200 mm clearance between counters and all opposing base cabinets, counter tops, appliances, or walls except in a U shape kitchen the minimum distance shall be 1500 mm and
 - (b) a minimum clear floor space 750 mm x 1200 mm shall be provided at each
 - (i) range,
 - (ii) cooktop,
 - (iii) oven,
 - (iv) refrigerator/freezer,
 - (v) dishwasher, and
 - (vi) other major appliances,
 - (c) a minimum of one work surface that is
 - (i) 750 mm wide x 600 mm deep,
 - (ii) 810 mm to 860 mm above the floor,
 - (iii) have a clear floor area 750 mm 1200 mm which may extend 480 mm under the work surface,
 - (iv) have a knee space a minimum of 750 mm wide, 480 mm deep, and 680 high, and
 - (v) have a minimum of one electrical receptacle shall be located at the front or side of the work surface,
 - (d) base cabinets shall have a minimum toe space 150 mm deep and 230 mm high,
 - (e) sinks

- (i) shall be mounted with the rim between 810 mm and 860 mm above the floor,
 - (ii) have a knee space a minimum of 750 mm wide, 250 mm deep, and a toe space 750 mm wide 230 mm deep and 230 mm high,
 - (iii) have a clear floor area 750 mm 1200 mm which may extend 480 mm under the work surface,
 - (iv) have faucets with lever handles, and
 - (v) have insulated hot water and drain pipes where they may abut required clear space,
- (f) upper cabinets shall have a minimum of one shelf not more than 1200 mm above the floor,
- (g) storage cabinets doors and drawers they shall
- (i) have a handles that is easily graspable, and
 - (ii) be mounted at the top of base cabinets and bottom of upper cabinets,
- (h) all controls shall comply with Clause 3.8.3.17.(1)(d) except as required by subclause 3.8.3.17.(4)(c)(v).