SANITARY PROVISION

ACCESSIBLE TOILET REQUIREMENTS

**Code 2007**
- Where toilets are provided at every level of a building
  - Accessible individual washroom or WC compartment can be provided

**Disadvantage**
- If WC compartment is provided, caregivers of opposite sex are unable to access such toilet

![Diagram of accessible toilet requirements](image)
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**ACCESSIBLE TOILET REQUIREMENTS**

**Code 2013**
- Min. 1 accessible individual washroom must be provided at every level (cl 5.1.1)
  - To cater to needs of persons with disabilities who are accompanied by caregivers of the opposite sex

![Individual washroom]

**ACCESSIBLE TOILET REQUIREMENTS** (cl 5.1.2)
- Individual washroom is preferred to be provided at every toilet clusters
- If not, min. 1 individual washroom shall be provided at each level & the rest may be replaced with WC compartments in gender-specific toilets

![Typical storey plan with two toilet clusters]
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ACCESSIBLE TOILET REQUIREMENTS

- A&A work to existing building involving upgrading of toilet clusters
  - Should not change from accessible individual washroom to WC compartment

Clauses 5.1.1 & 5.1.2 refer to non-residential building, what about common facilities in residential development?
  - cl 7.1.3 under Chapter 7 – Residential Developments
    - It specifies as “where toilets for common facilities are provided, they shall comply with clause 5.1”
ACCESSIBLE TOILET REQUIREMENTS

Table 1

For worker’s dormitory
- At least one accessible room with accessible toilet & shower facilities
- Acceptable if the accessible toilet & shower facilities are not within the accessible room

Backpacker hotel
- Acceptable if the accessible toilet & shower facilities are not within the accessible room

Hospitals, nursing homes, homes for the aged, etc
- Toilets within the wards or homes need to meet the hospital’s & homes’ requirements and are not necessary to comply with Code’s requirements

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cl 5.1.3

Multiple toilet clusters on same level at different locations
- Pre-schools, schools, colleges, universities, institution of learning, hostels, dormitories & halls of residence
- Provision of accessible toilet to every cluster of toilets is not necessary provided:
  - accessible toilet provided serves every function areas at that level;
  - accessible toilet is not be more than 50 m from each function areas; and
  - directional signs from each function area to the accessible toilet are provided
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**cl 5.1.3**

Example of school where accessible toilet not provided to every cluster of toilets

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**AMBULANT DISABLED TOILET**

**Current provision**
- Minimum 1 ambulant disabled toilet at selected building types

**Code 2013**
- Increase in ambulant disabled toilet ratio (cl 5.1.4)
  - 1 ambulant toilet in every 5 toilet compartments at selected building types, e.g.
    - 2 required for 6 to 10 w.c. compartments
    - 3 required for 11 to 15 w.c. compartments
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AMBULANT DISABLED TOILET (cl 5.4)

Improvement of diagrams & dimensions

- Outward opening door with horizontal pull bar
- Toilet roll dispenser
- Grab bars

Example of a large ambulant disabled toilet

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AMBULANT DISABLED TOILET (cl 5.4) – cont’d

- Inward opening door
- Flip-up grab bar
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AMBULANT DISABLED TOILET (cl 5.4) – cont’d

Improvement of diagrams & dimensions

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URINAL (cl 5.1.4 & 5.5)

- Where urinals are provided, at least one urinal shall be provided with grab bars (no change)

Improvement of diagrams
The requirements to provide ambulant disabled toilet & urinal grab bars do not apply to the following building types:

- Pre-schools, primary & secondary schools and its hostels, hall of residences or dormitories
- Common facilities in residential development
- Industrial buildings
- Worker’s dormitories

Signs to toilets shall

- Be mounted on the wall next to the latch-side of the door at a distance of 50mm to 100mm (cl 8.5.4.2)
- Not be mounted on the door as the sign might not be visible when the door is open (cl 8.5.4.2)
- Sign shall be located at a height of 1500mm above the floor level (cl 8.5.4.3)
  - Allow a person with visual impairment to touch & read the tactile information
  - Can be read equally by a standing person
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SIGNs AT WASHROOM ENTRANCES (cl 5.1.6)

- Toilet entrance with no door
- Sign mounted on the wall

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SIGNs AT PUBLIC TOILETS

cl 5.1.7

- Signs at public toilets to be provided with tactile & braille (cl 8.5.5)
- Apply to the following building types:
  - Shopping & multi-purpose complexes
  - Office buildings, sport complexes
  - Hotels, boarding houses, backpacker’s hotels, chalets, serviced apartments
  - Places of public resorts, public swimming pool
  - Markets, hawker or food centres
  - Transport stations, interchanges, passenger terminals
  - Colleges, universities or institutions of learning
  - Hostels, halls of residence or dormitories
  - Hospitals, clinics
cl 5.2.1 (k) & 5.3.1 (h)

- Jumbo toilet roll dispenser is allowed provided it is **reachable & does not interfere** with the use of grab bars.

- It shall be mounted:
  - $150 \text{ mm} \leq Ht \leq 200 \text{ mm}$ above the horizontal grab bar;
  - approximately $50 \text{ mm}$ from the front edge of the seat to the centerline of the toilet roll dispenser.

The location of toilet roll dispenser below grab bars is specified under Code 2007.

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**MOTION SENSOR LIGHTING**

Example of poor installation of motion sensor in toilets.

Close-up view.
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**MOTION SENSOR LIGHTING**

cl 5.6.7

Where motion sensor-type lighting switches are used within the accessible individual washroom or toilet compartment:

- Switch controllers are equipped for fail-safe operation;
- Illumination timers are set for a minimum of 30 minute duration; and
- The sensor shall be appropriately located & easily activated by any occupant movement in the toilet.

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**WASH BASIN (cl 5.6.5)**

- Size of basin is not specified
  - Distance of tap is in the range of between 300 mm to 400 mm from the edge of basin
- It shall not interfere with the manoeuvring space of wheelchair users while transferring to the WC
- Tap shall have either lever handle or sensor-operated (cl 6.2.3)
Operation of Taps in Accessible Toilet

cl 6.2.3

- Taps designated for use by persons with disabilities shall have levers or be sensor-operated.
  - Wash basin at individual washroom

- Where wheelchair accessible wash basin is placed together with other basins for general use:
  - the tap used shall be sensor-operated
  - In accordance with NEA's Code of Practice for Environment Health
Coat hooks - cl 5.2.1 & cl 5.3.1
- Accessible toilet is to be equipped with 2 coat hooks mounted on a side wall
  - at 2 different heights of about 1.5m & 1.1m from the floor

Paper towel dispenser or hand dryer – cl 5.6.3
- Either paper towel dispenser or hand dryer is acceptable instead of both as specified in Code 2007

Emergency Call Bells (refinement of the clause)

5.6.4.1 An emergency call bell shall be provided in:
(a) an accessible individual washroom compartment; or
(b) an accessible water closet compartment; or
(c) bath facilities within the accessible room.

5.6.4.4 Emergency call bells shall be provided to alert caregivers or responsible persons in a management office. The call announcement shall, where appropriate, be provided by:
(a) a call bell located outside the accessible toilet; or
(b) a buzzer in the caregiver’s office; or
(c) an emergency call bell located outside the accessible room or a buzzer to the management office.
cl 5.3.2 – Accessible WC compartment within a toilet cluster

Illustration of wall-hung WC with built-up wall (cl 5.6.6)
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EXAMPLE OF IMPROVEMENT OF DIAGRAMS

Illustration of wall-hung WC with exposed pipe & valve (cl 5.6.6)

- Flip-up grab bar
- WC seat
- Grab bar
- Back support
- Exposed valve and pipe
- Recessed toilet roll dispenser is preferred
- Water spray head with flexible hose

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EXAMPLE OF IMPROVEMENT OF DIAGRAMS

Illustration of pedestal type WC with cistern (cl 5.6.6)

- For existing buildings with space constraints
- Cover of cistern to be securely attached
- Horizontal grab bar
- Toilet roll dispenser
- Water spray head with flexible hose
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SHOWER FACILITIES REQUIREMENTS

cl 5.7.1.2

Sports complexes & public swimming pool
- Min. 1 accessible individual shower facility to be provided at each level where shower facilities are provided
- Where 2 or more clusters of shower facilities are provided at the same level but at different locations
  - Min. 1 accessible individual shower facility shall be provided & the rest may be replaced with an accessible shower in gender-specific toilets

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EXAMPLE OF IMPROVEMENT OF DIAGRAMS

cl 5.7.3 – Roll-in shower stall
- Installation of foldable seat must be able to withstand a force of 1.3kN applied at any position & in any direction
cl 5.7.3 – Accessible individual washroom with shower facility