



# DUBAI GUIDE

For built environment  
Universal design











People with  
disabilities shall  
be called "*people  
of determination*"



*Disability is in fact the inability to make progress and achievements, the achievements that people of determination have made in various fields over the past years are proof that determination and strength can do the impossible and encourage people to counter challenges and difficult circumstances while firmly achieve their goals.*

**H.H. Sheikh  
Mohammad Bin Rashid  
Al Maktoum**



## About the *guide*

This illustrated guide has dual purposes, firstly to be used as audit hand book integrally with the classified universal design checklist in order to ensure the compliance with Dubai Universal Design Code requirements. Secondly, to be used as an inclusive design guide which helps in demonstrating the design characteristics of accessible built environment that enables everyone to approach, enter, use, and egress from the buildings safely and independently. Taking into consideration broad types of human abilities and circumstances including persons with physical, visual, hearing, and intellectual impairments, elderly, childhood, gender, mobility device users, and tourist equitably and dignifiedly.

Dubai Universal Design Audit Guide promotes better practice in early stage of built environments design and its commissioning, operation and management at a later stage, as well as retrofitting the existing built environments, and putting all necessary relevant information in a direct and

user-friendly format.

Designers and architects can refer to any of accessible design standards, codes, practice guides, and specifications documents of buildings components, equipment and services, but should exceed the minimum requirements of Dubai Universal Design code illustrated in this Guide.

Dubai Universal Design Audit Guide does not prevent by any means the use of technology and products as alternative accessible solutions if they at least provide equivalent accessibility of the prescribed requirements.

All dimensions and measurements in all figures are in metric units, mainly in mm and meters, in a range of flexibility that allows the designers to change according to the primary use of the building, like those especially designed for serving children.

In addition to the above, all scope requirements of Dubai Universal Design code should be followed.







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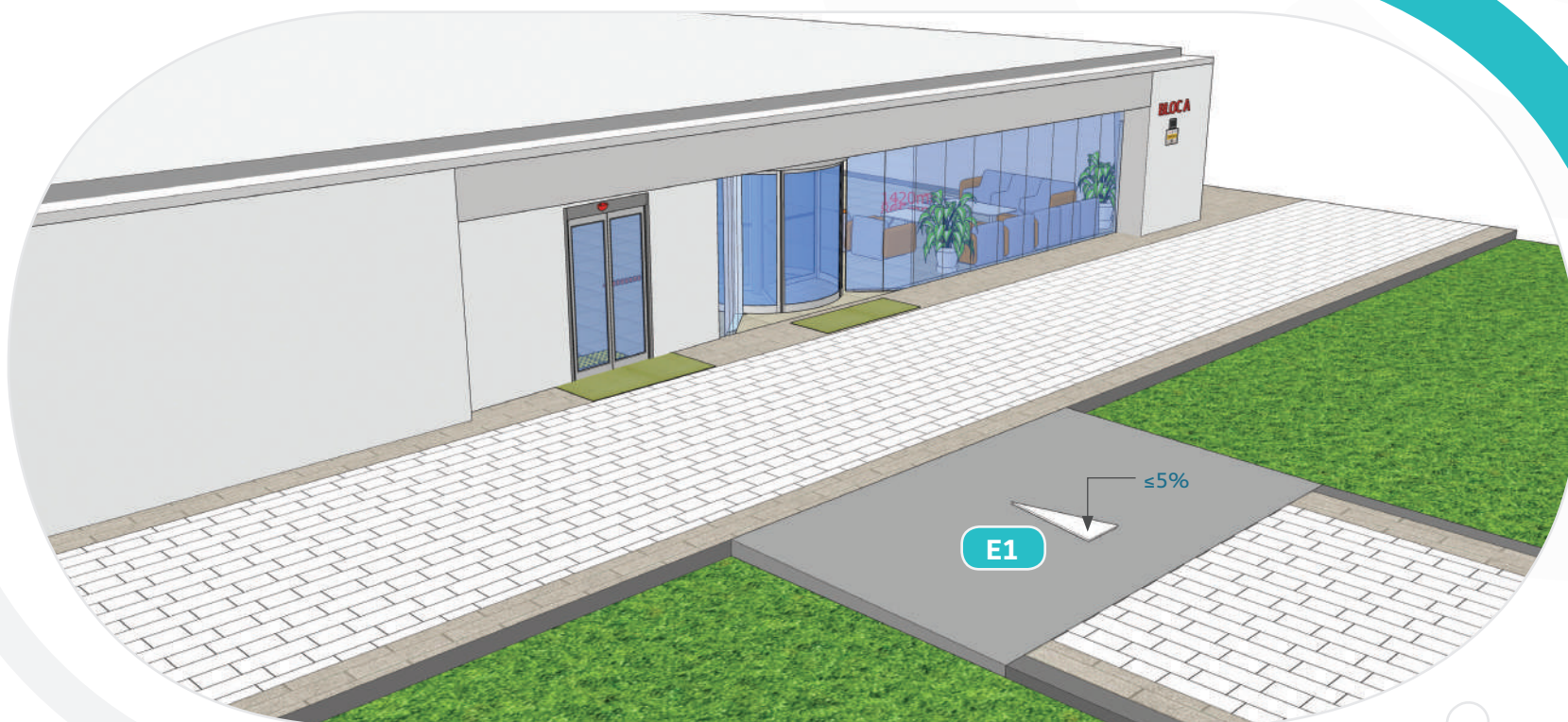
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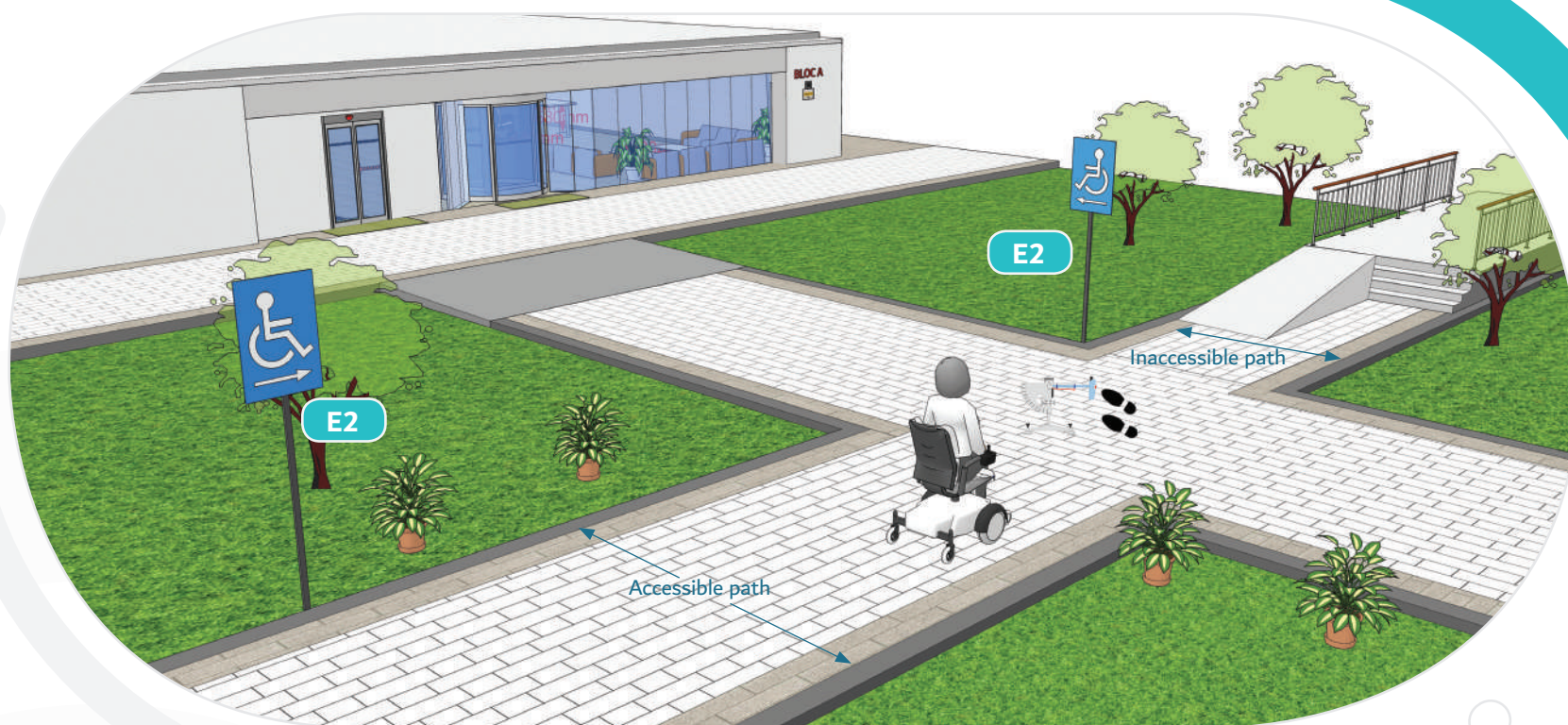
# Entrance





E1 Gradients of entrances  $\leq 5\%$





E2 When several paths, both accessible and inaccessible marked with directional sign





E3



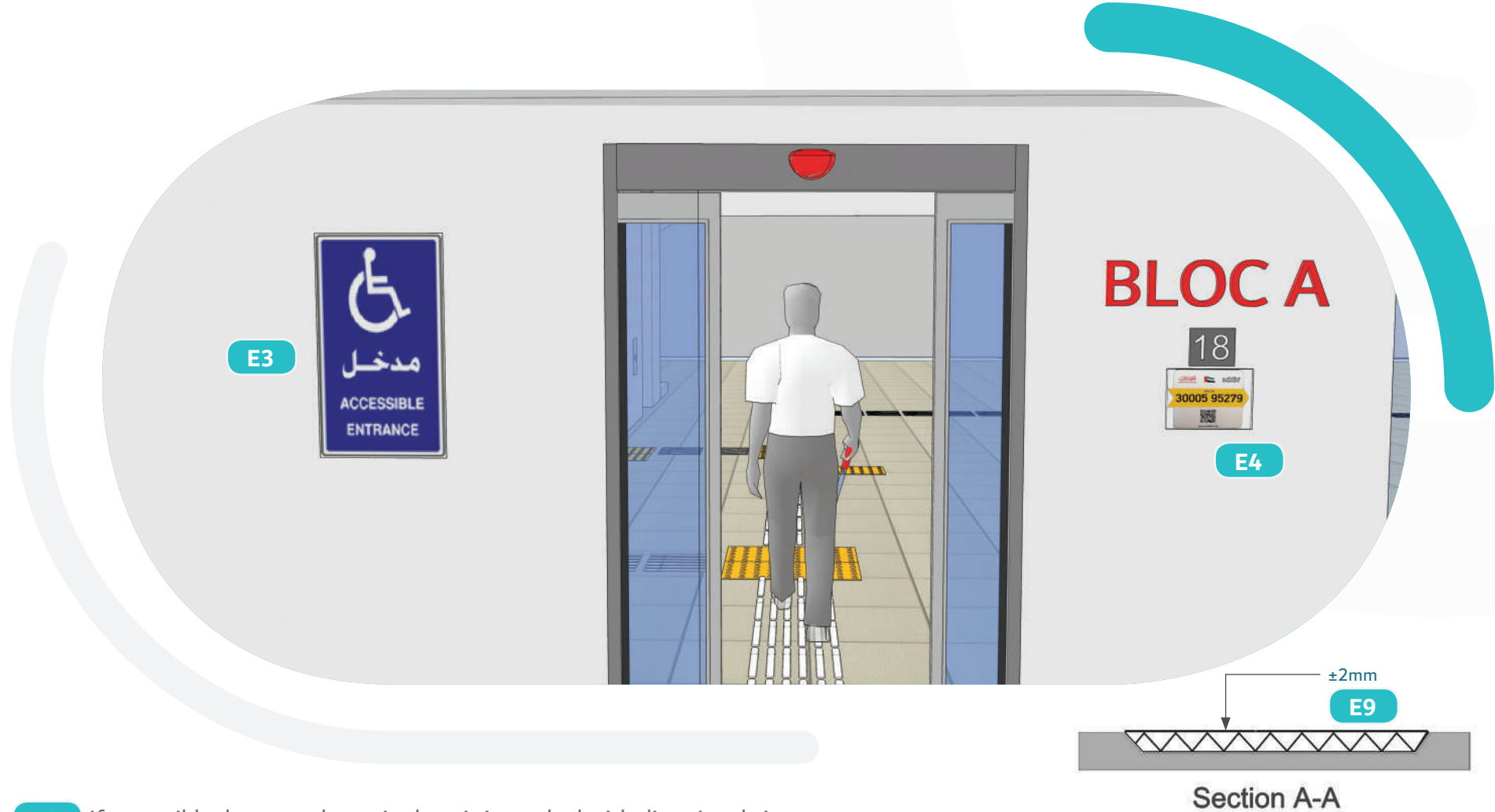
E3 If accessible door not the main door, it is marked with directional sign



**E3** If accessible door not the main door, it is marked with directional sign

**E4** Identification number and exact address for each entrance

**E9** Doormats levelled with  $\pm 2\text{mm}$



**E3** If accessible door not the main door, it is marked with directional sign

**E4** Identification number and exact address for each entrance

**E9** Doormats levelled with  $\pm 2\text{mm}$



E6

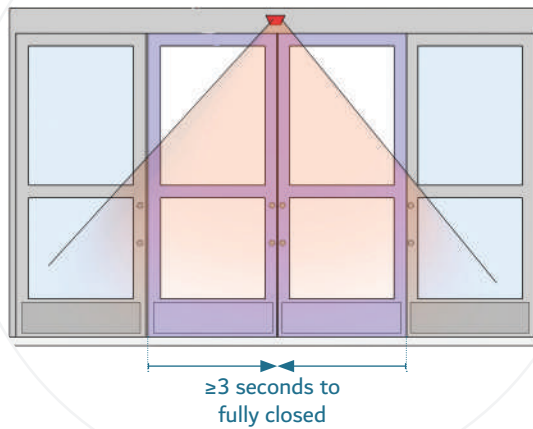


E7

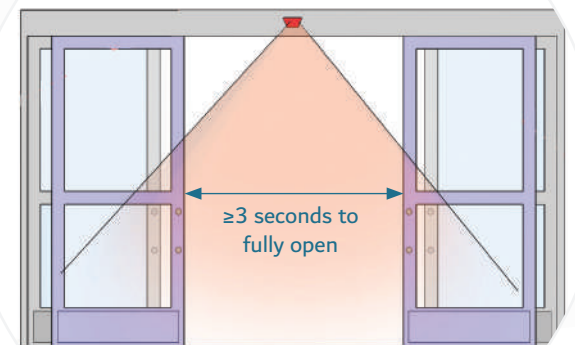
**E6** Dimensions of the doors  $\geq 900\text{mm}$  width x  $2100\text{mm}$  height

**E7** Automatic door

E8

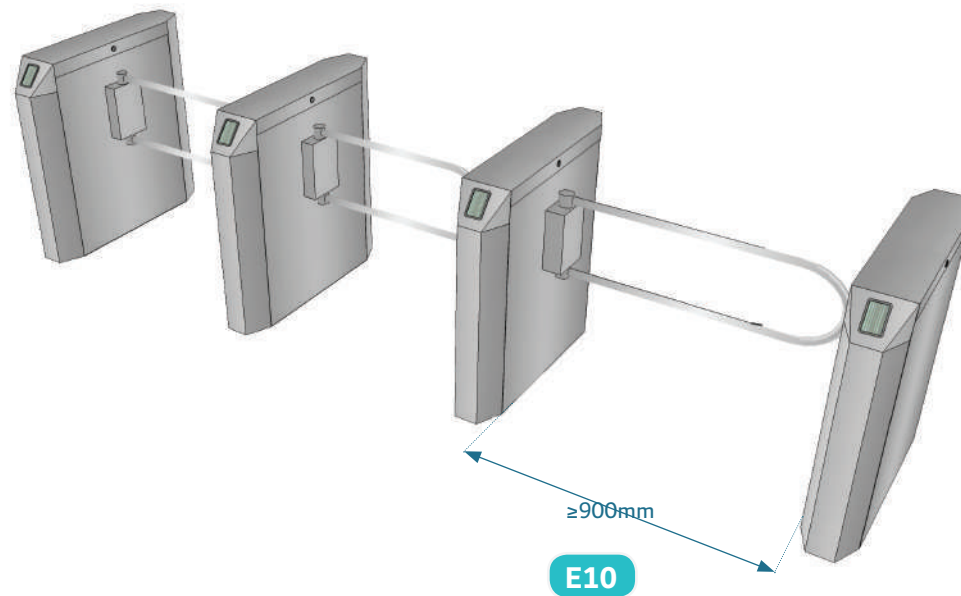


$\geq 5$  seconds  
remaining open



E8

3 seconds or more to move from closed to fully open position - Remain fully open for a minimum 5 seconds - Force not more than 66N

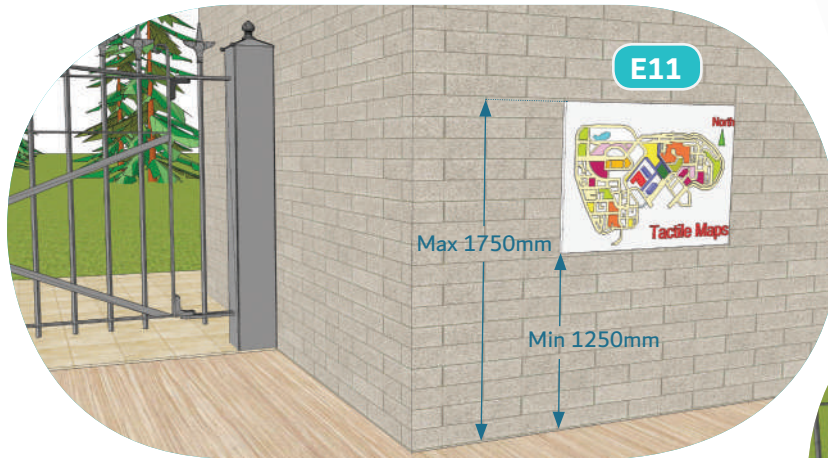


**E10** Access controls barriers with at least one barrier with width  $\geq 900\text{mm}$  if provided



## E

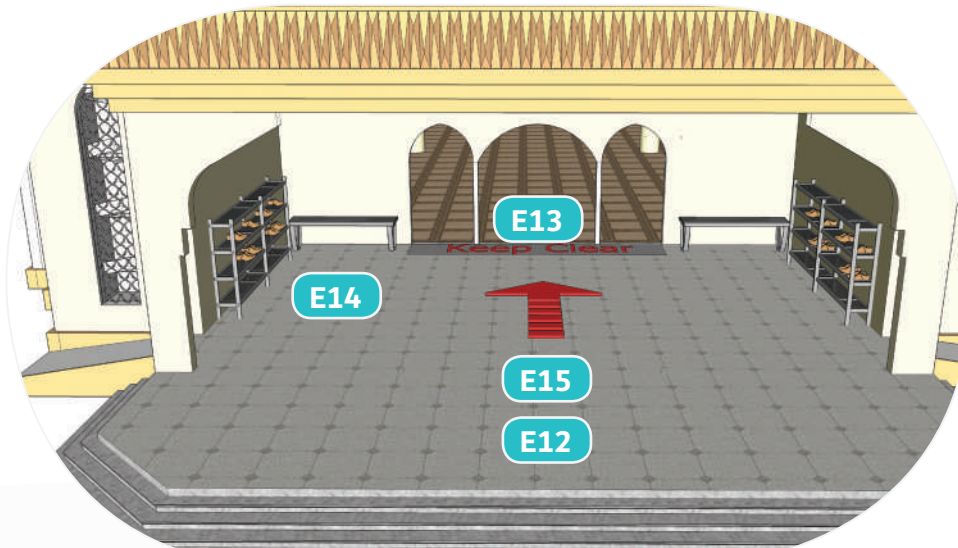
## Entrance: In Parks &amp; Where Required



**E11** Tactile map located at the main entrance near the door on the right side within 1000mm

# E

## Entrance: In Mosques



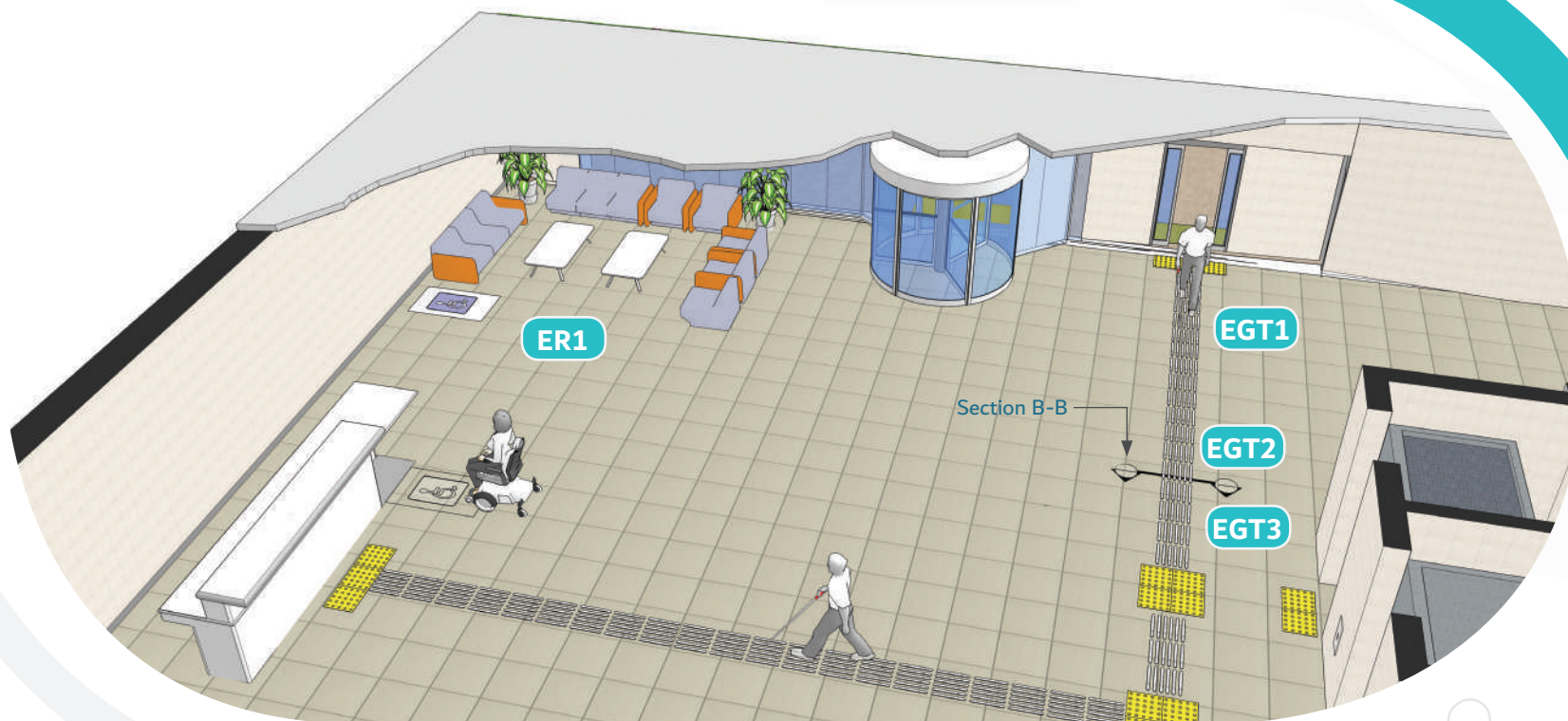
**E12** A clear Area provided at the entrance to prevent shoes from blocking the accessible path

**E13** keep clear mat in front the entrance

**E14** Seats provided at the entrance toilets ablution areas and at other locations where people are required to remove their shoes

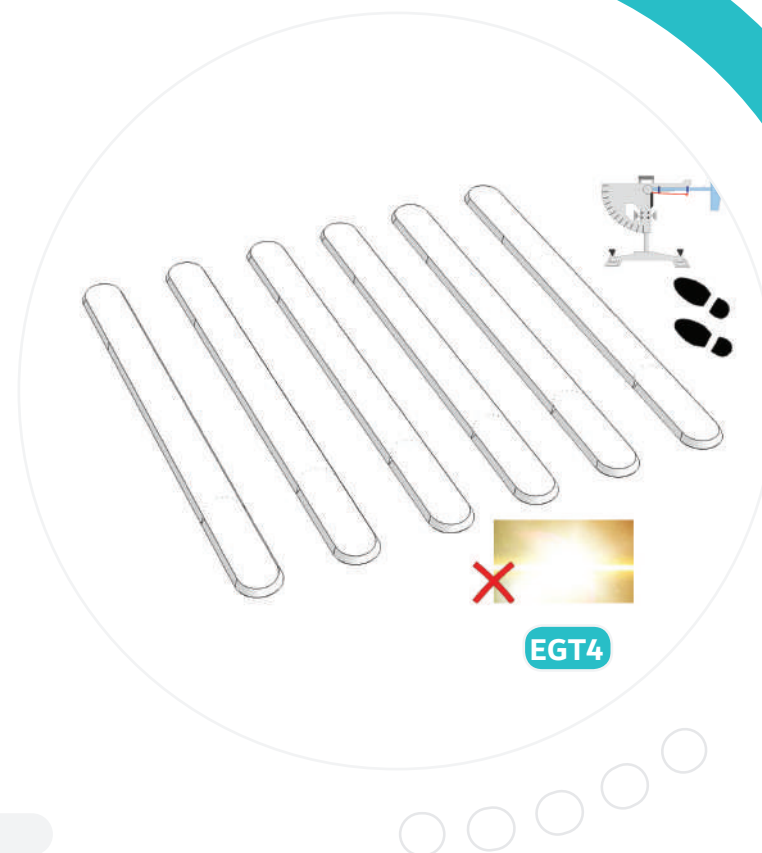
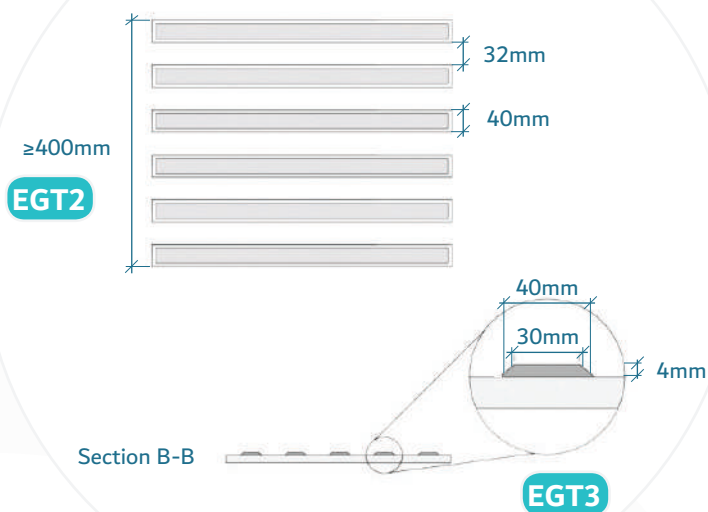
**E15** An accessible entrance is provided





**E5** In public use buildings, reception desk near the entrance

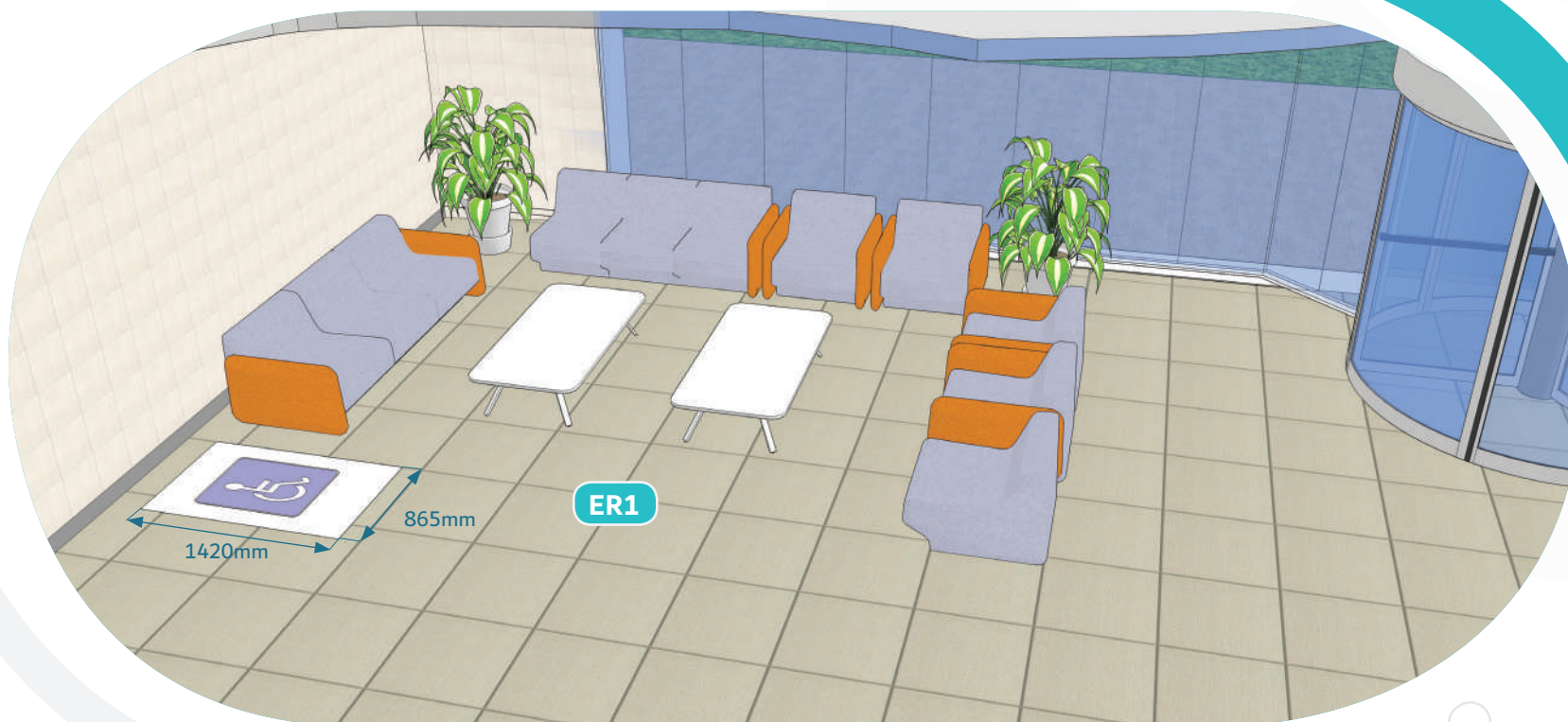
**EGT1** Guiding tactile pavement from building entrance to information desk or reception in administration buildings and where required



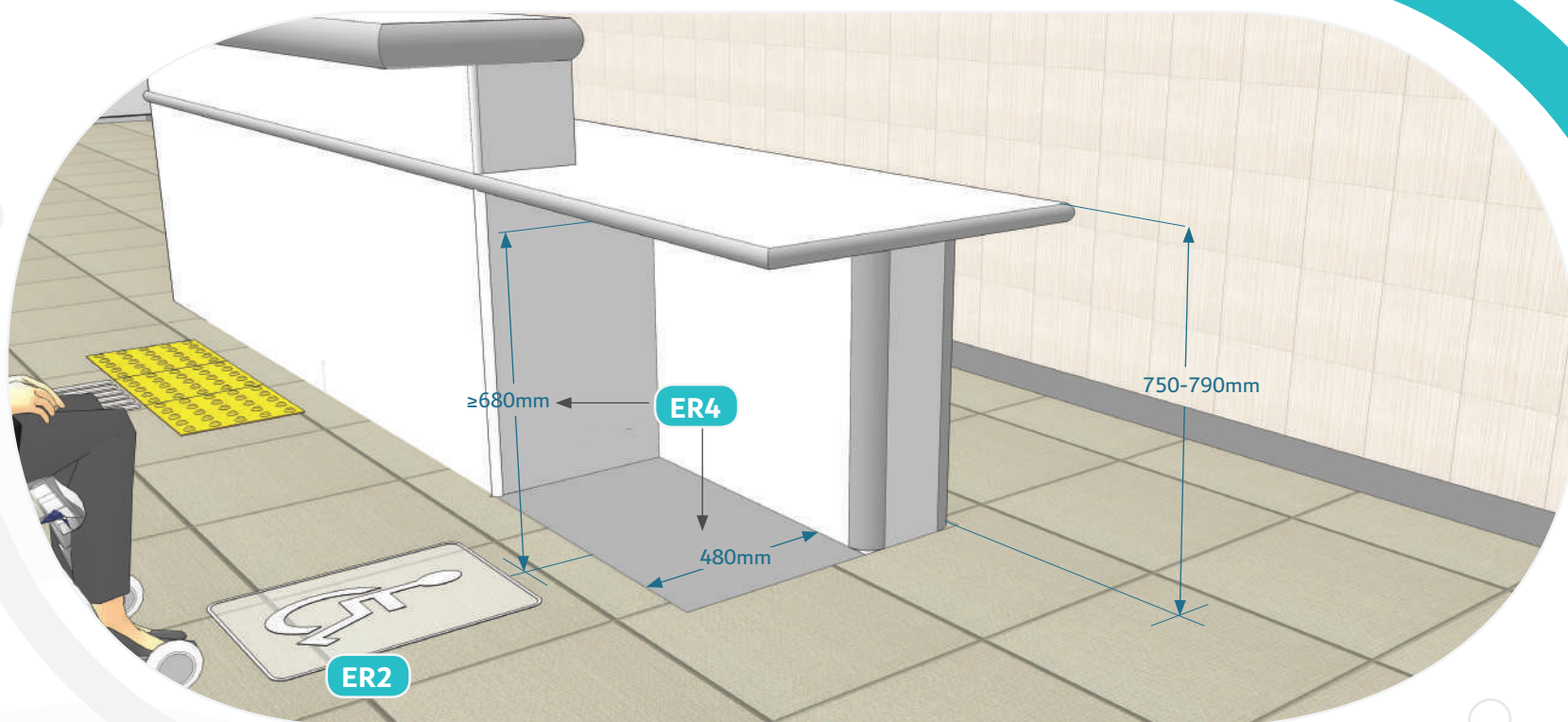
**EGT2** Guiding tactile pavement width  $\geq 400\text{mm}$

**EGT3** Guiding tactile strips width = 40mm at bottom and 30mm at top, and protruding 4mm

**EGT4** Non glare or shiny or slippery



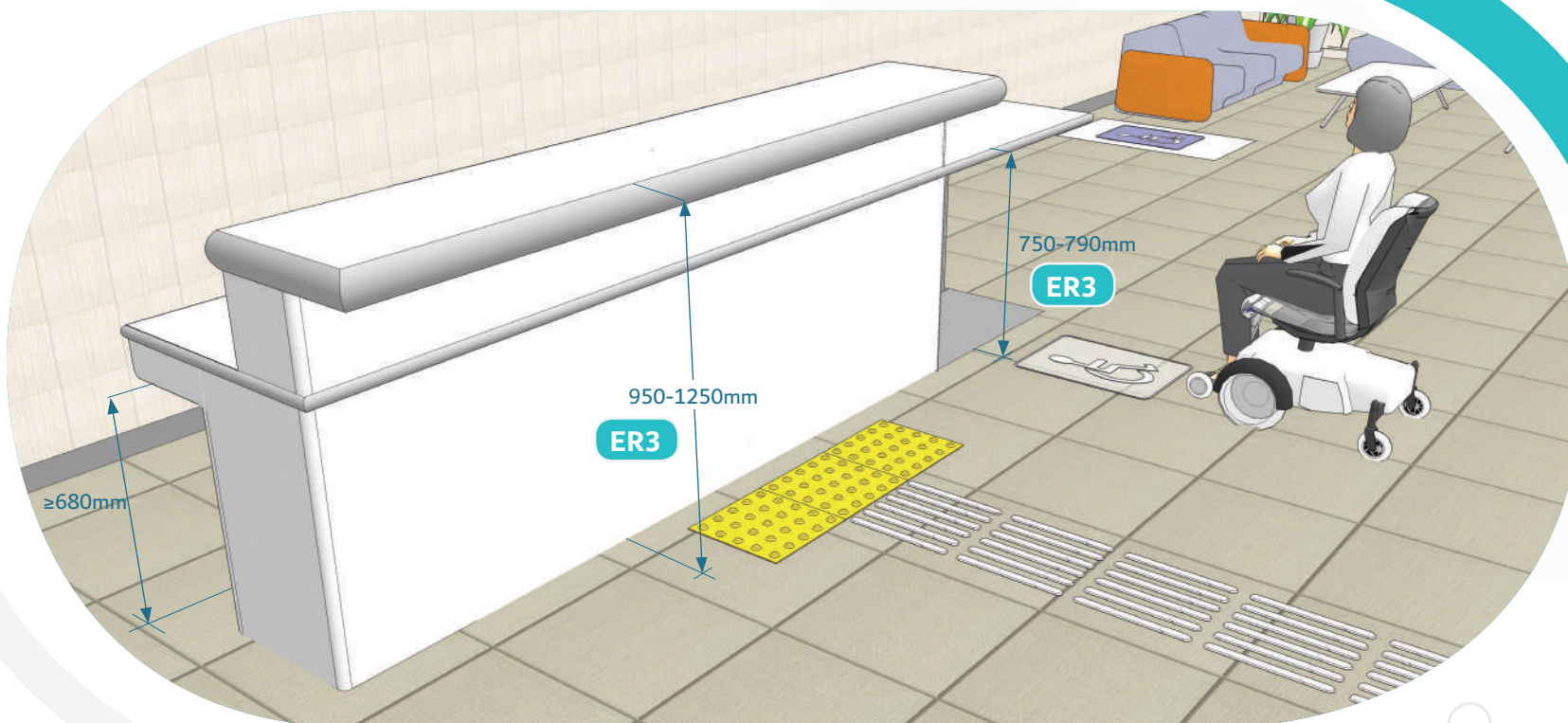
**ER1** Reception areas with seating places and interaction spaces



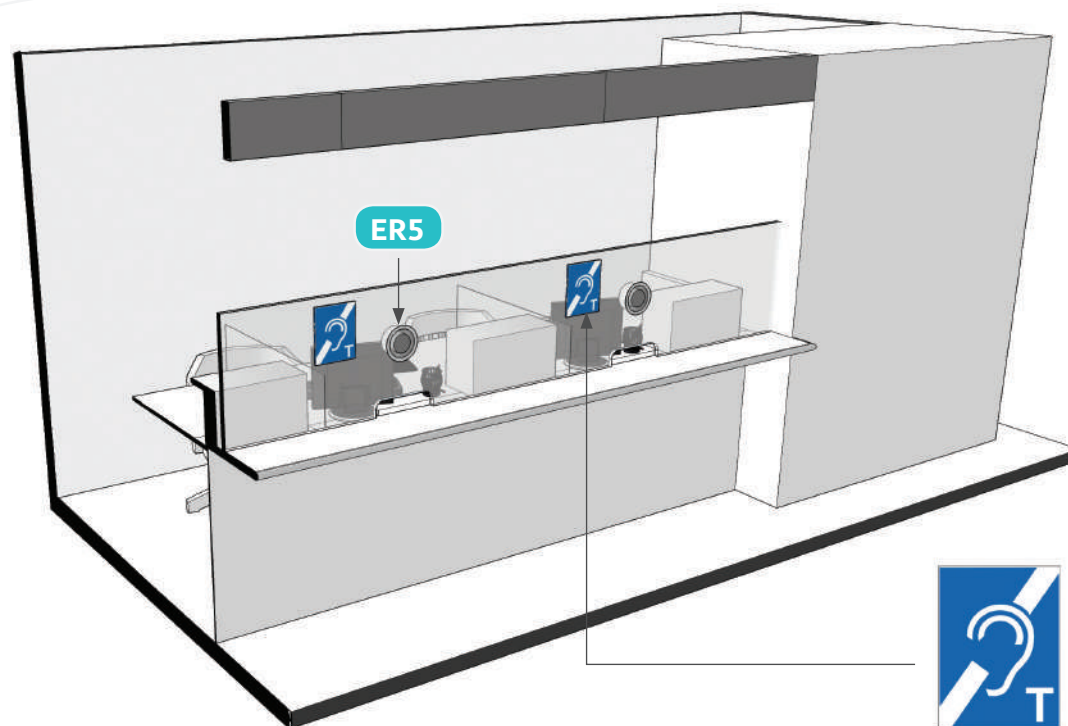
**ER2** Front desks with accessible interaction space

**ER4** Under the desk a space of 680mm height and 480mm deep





**ER3** Low counter height between 750-790mm & high counter height between 950-1250mm



**ER5** When required, hearing enhancement systems using induction loop, infrared and radio frequency are provided

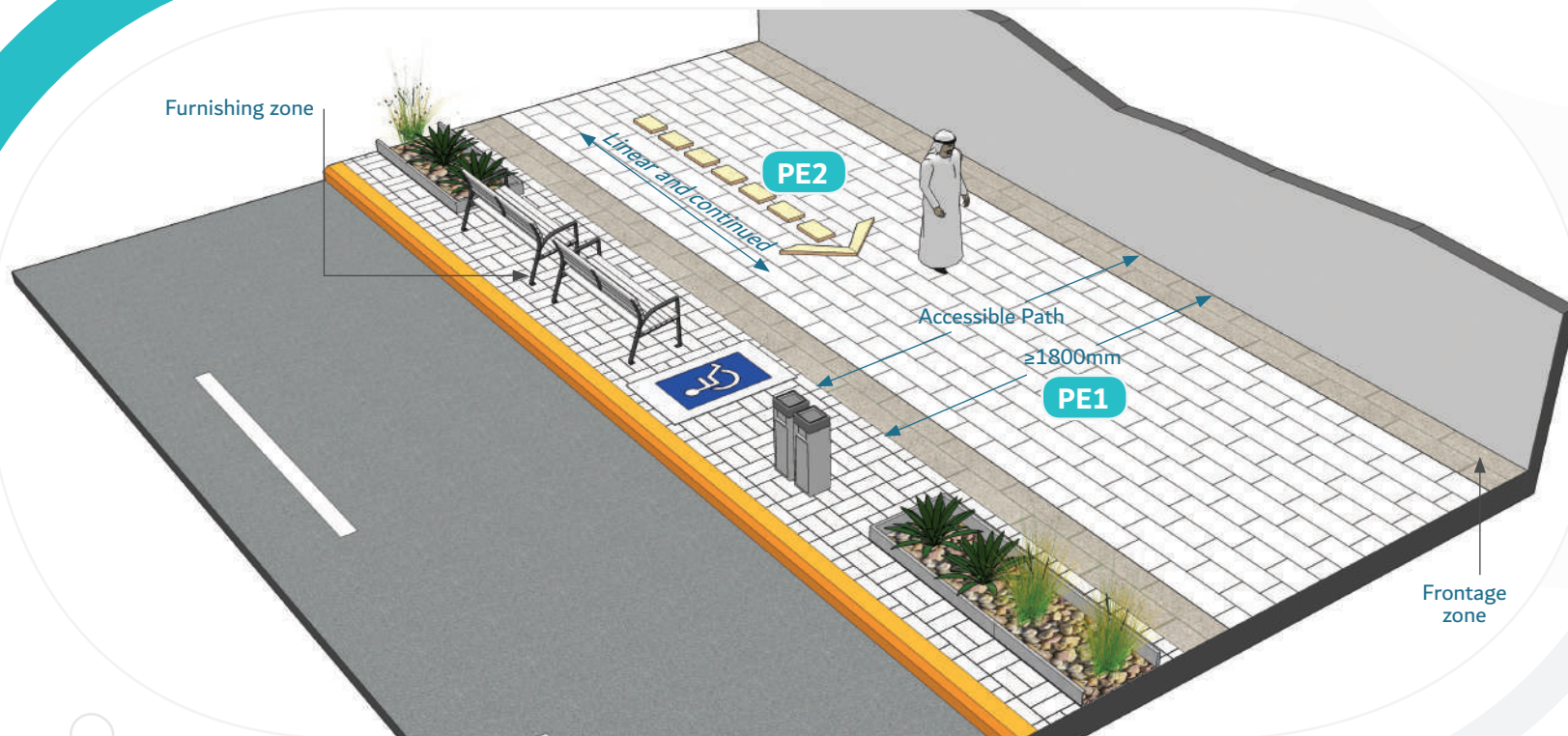
**ER6** With international symbol if access for hearing loss



# Path

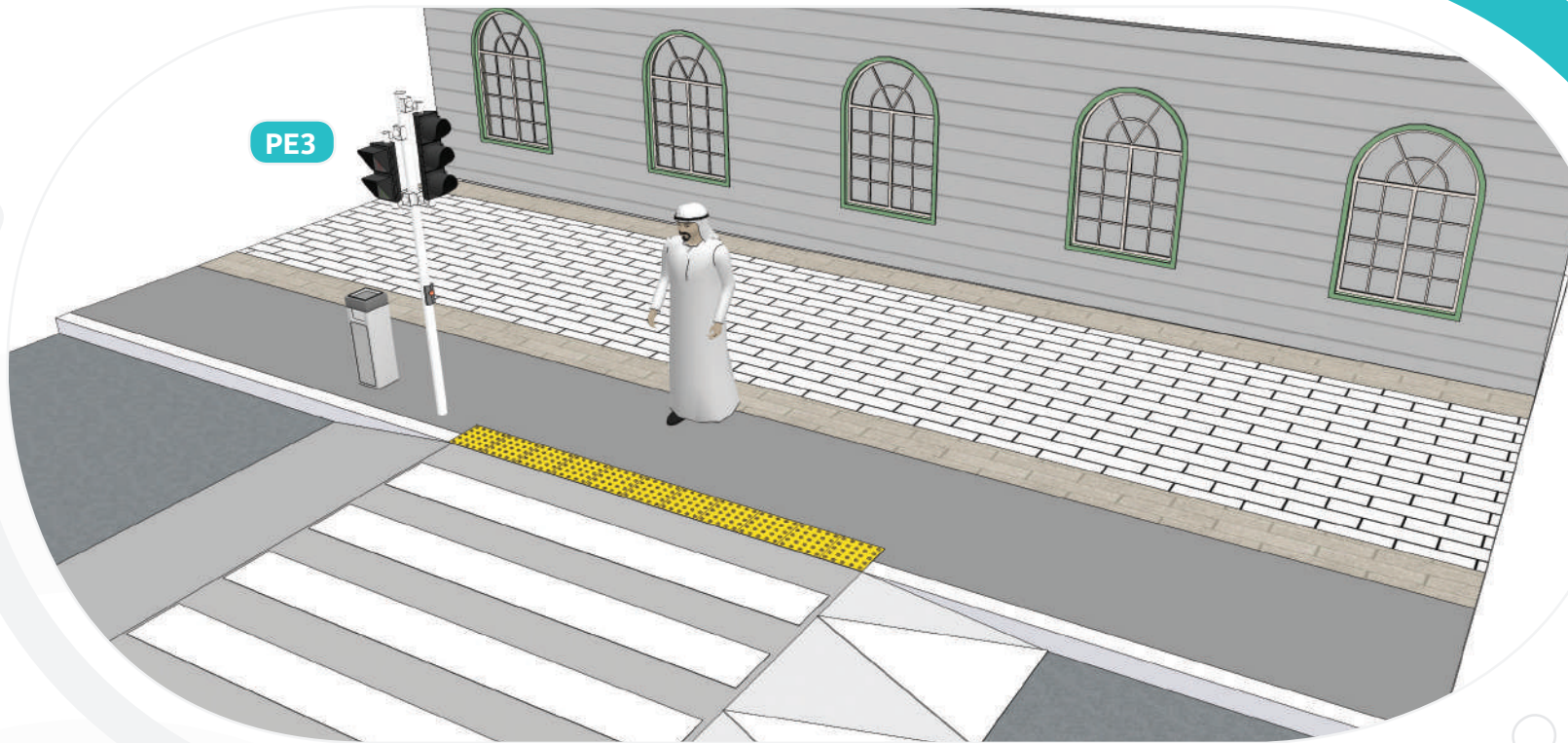






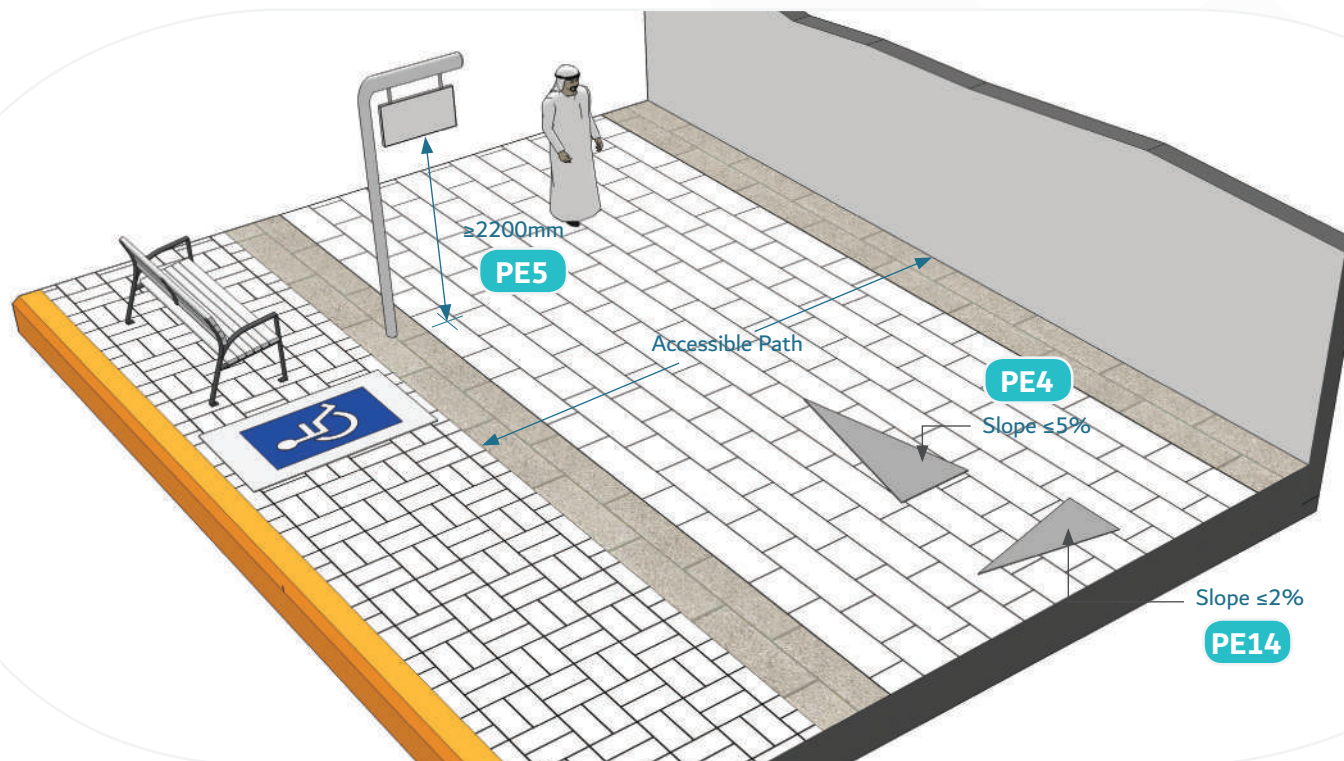
**PE1** 1800mm width without obstacle, from the parking to the entrance, segregated from traffic circulation

**PE2** Linear and continued



PE3

Intersections clearly visible with signs or lights



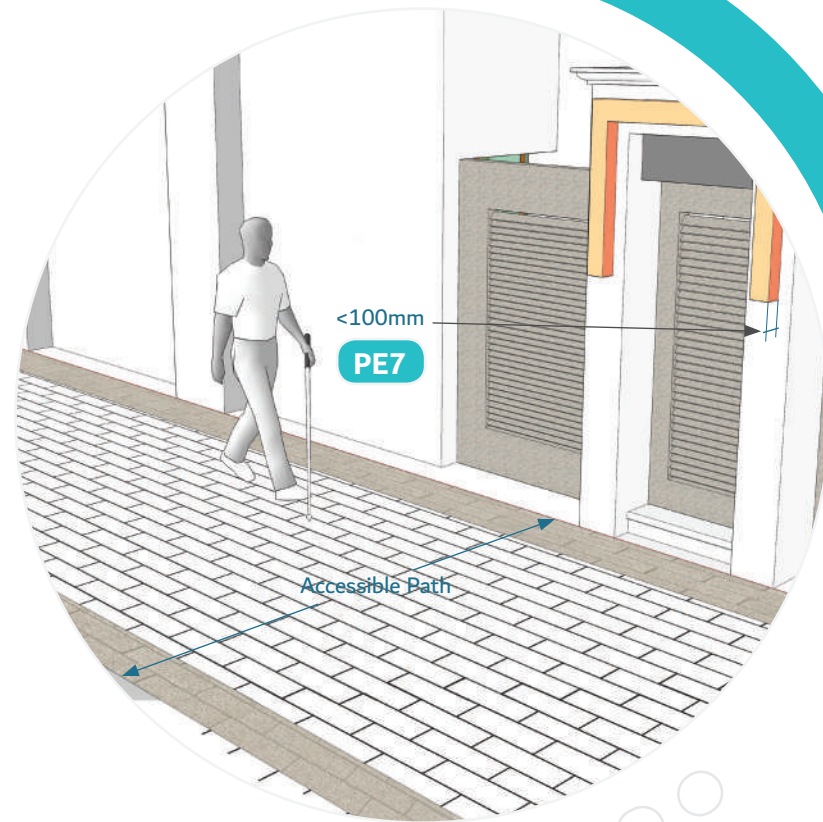
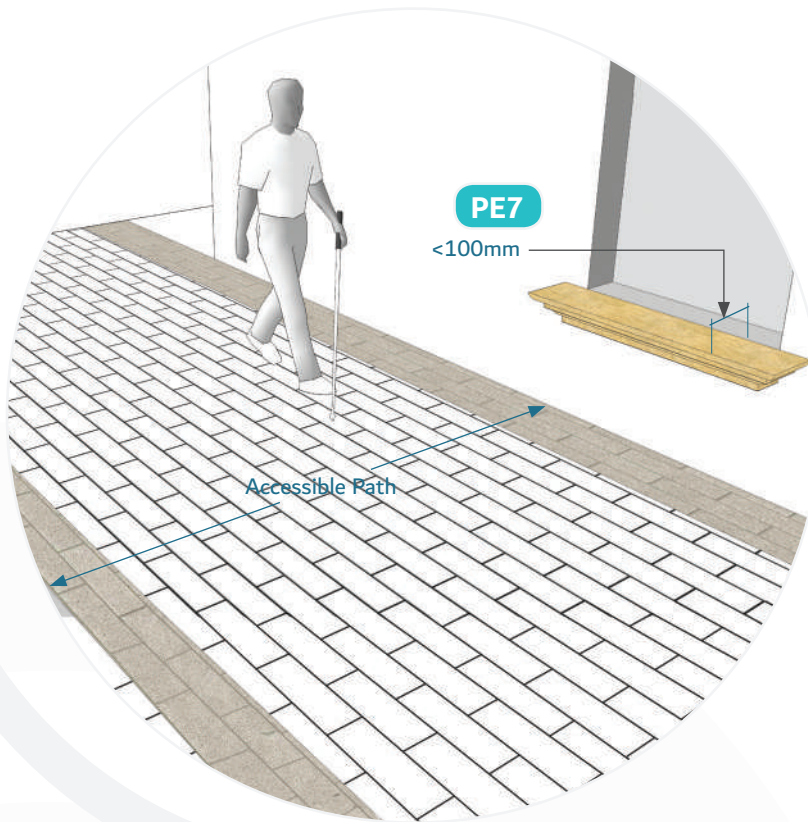
**PE4** Gradient  $\leq 5\%$

**PE5** Clear headroom  $\geq 2200\text{mm}$

**PE6** Absence of uneven surfaces - irregularities  $\leq 5\text{ mm}$

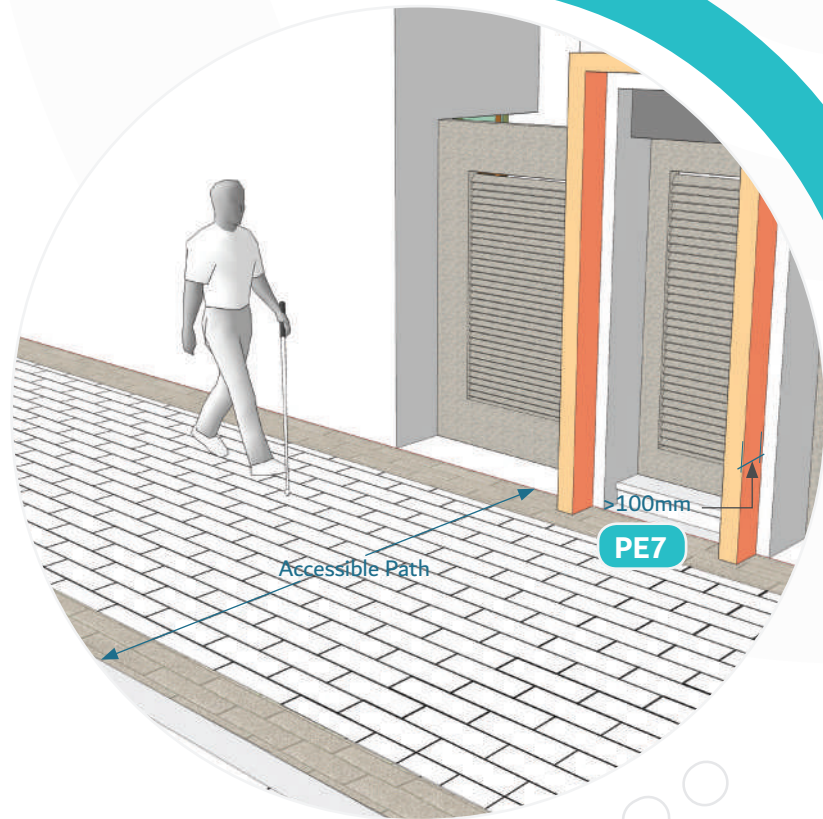
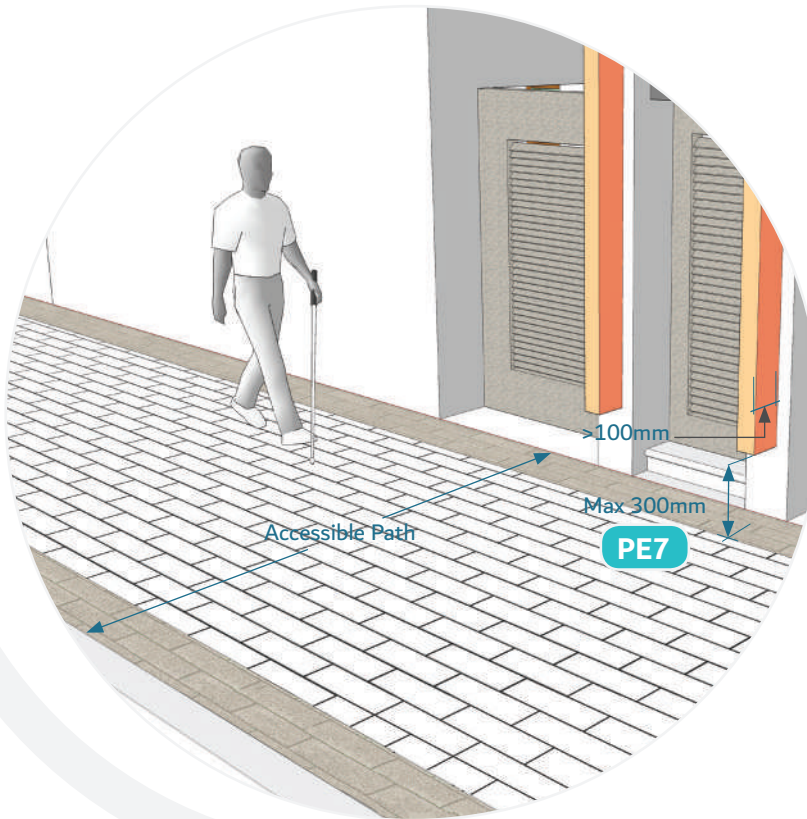
**PE14** Cross slope gradient  $\leq 2\%$



**PE7****Absence of protruding objects:**

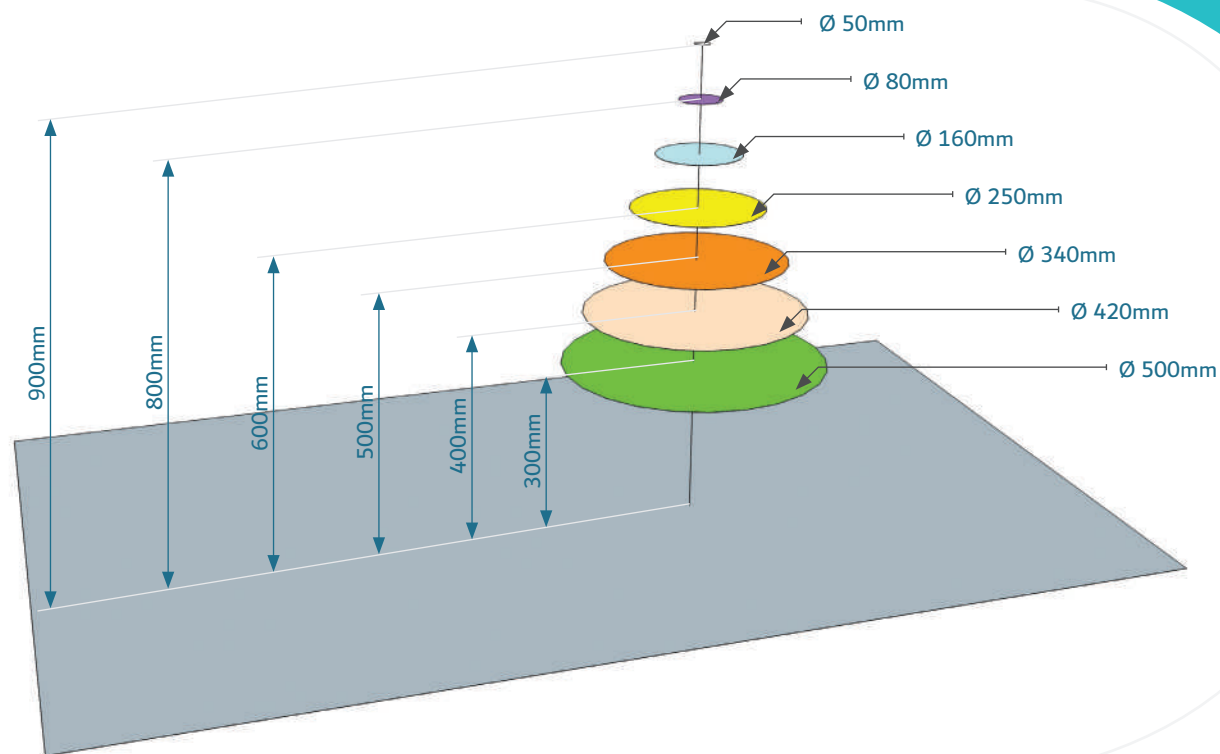
1-Objects protruding less than 100mm from façade

2-Objects protruding more than 100mm, extends to the floor surface or above the floor level by maximum 300mm

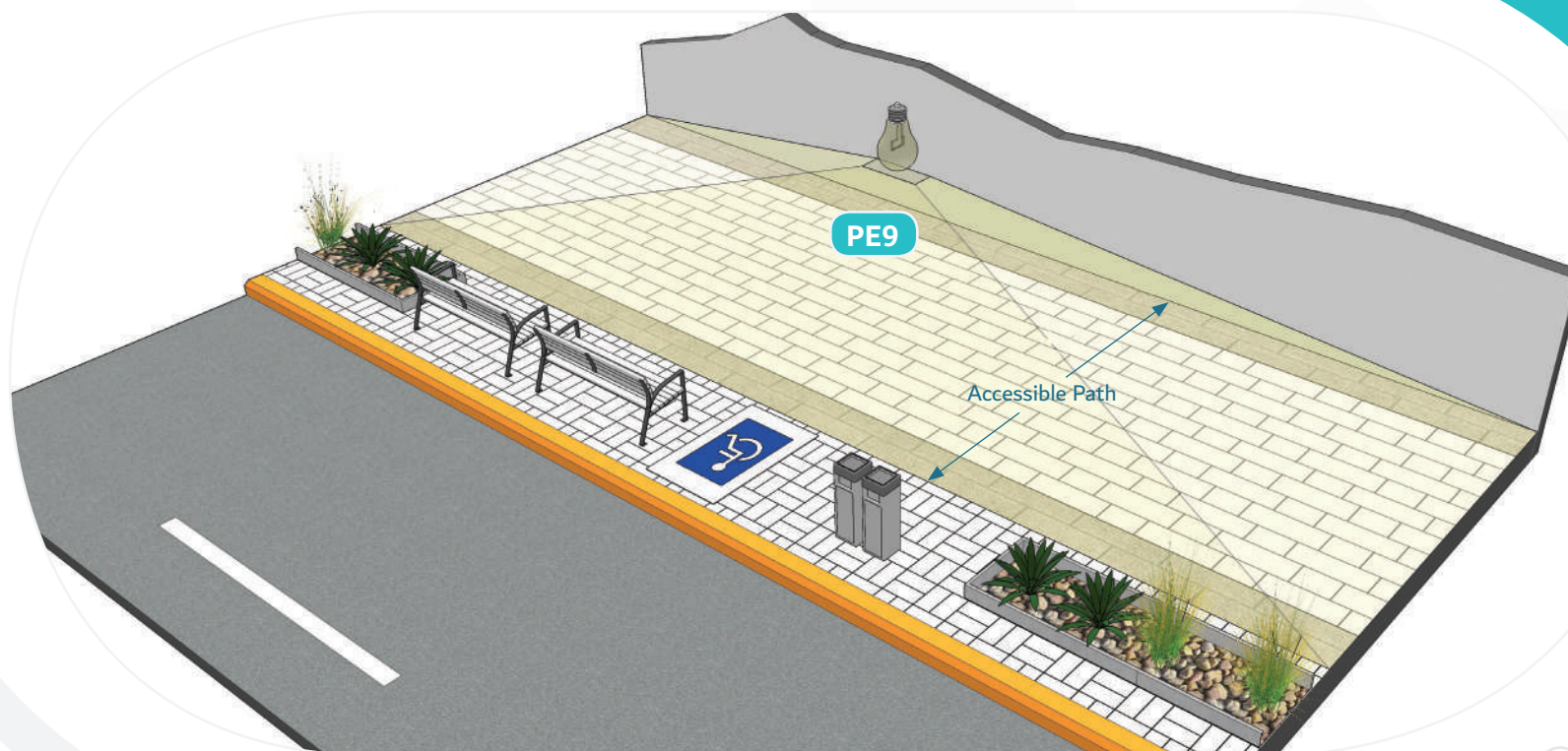
**PE7****Absence of protruding objects:**

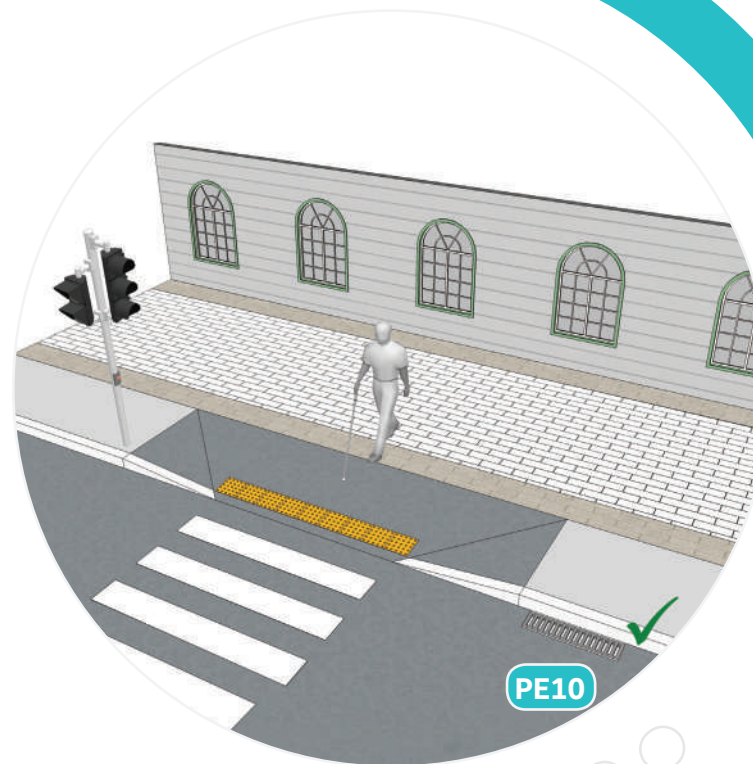
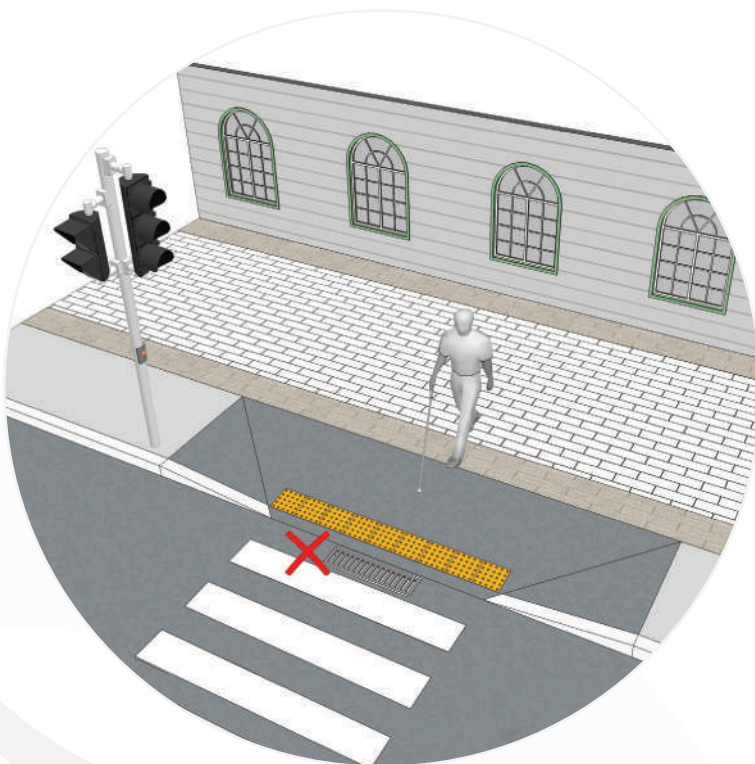
1-Objects protruding less than 100mm from façade

2-Objects protruding more than 100mm, extends to the floor surface or above the floor level by maximum 300mm



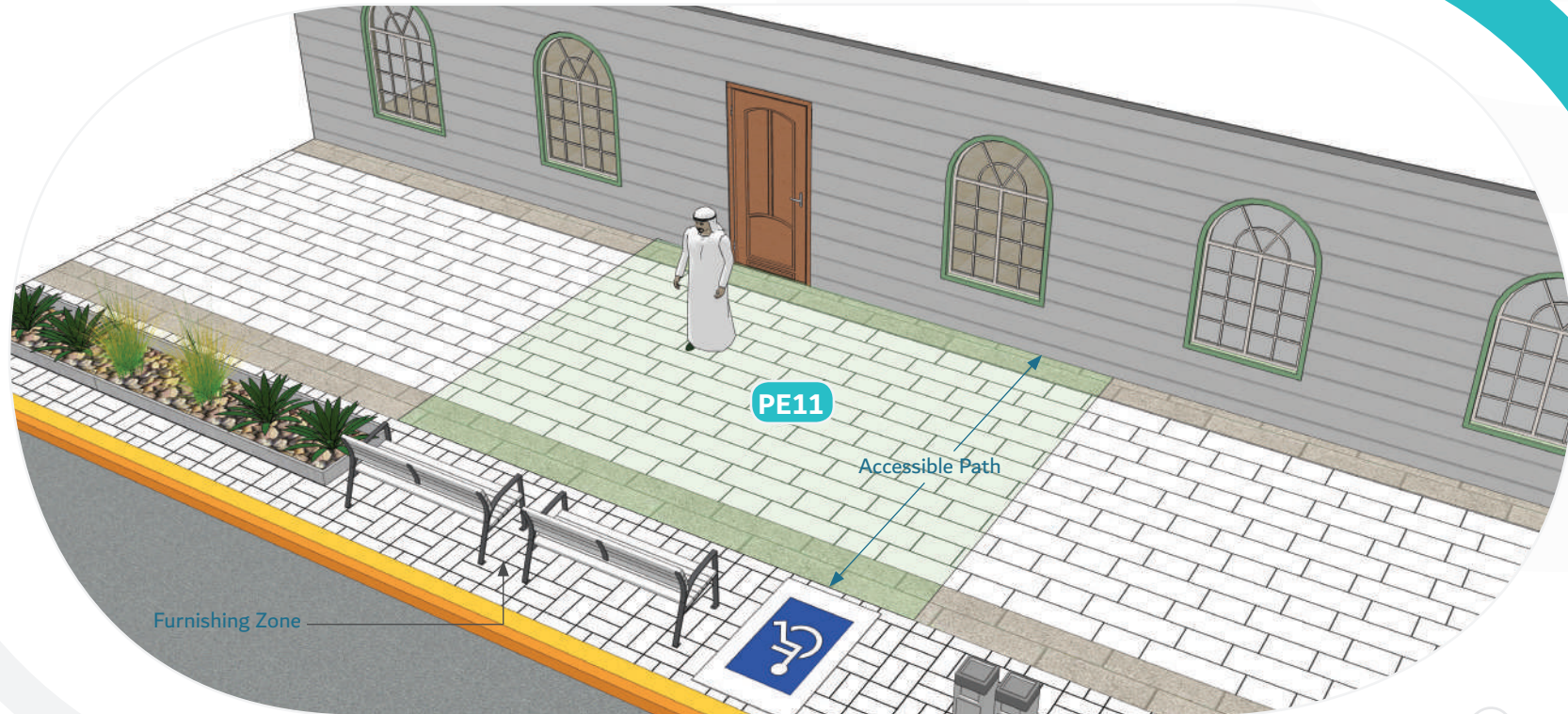






**PE10** No drain grids on accessible crossings (outside the intersection)

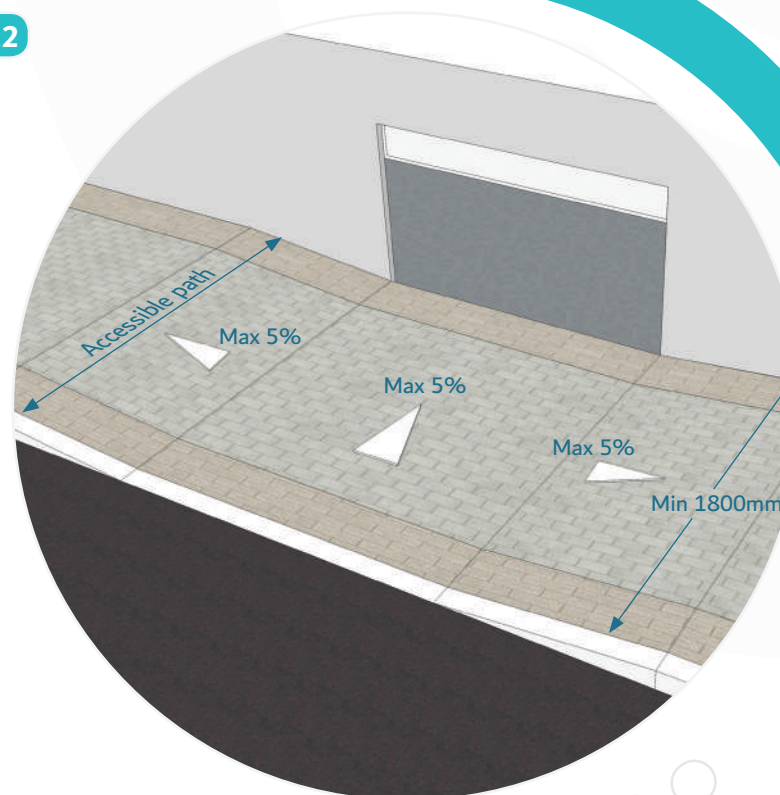
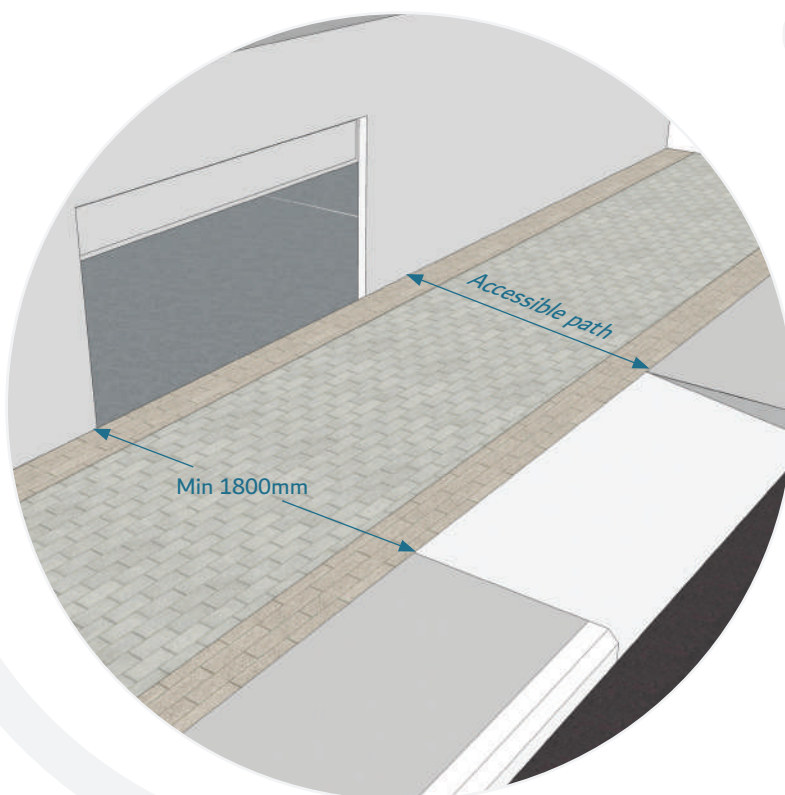




**PE11** Free of obstacles and located between the building's façade and the furniture zone

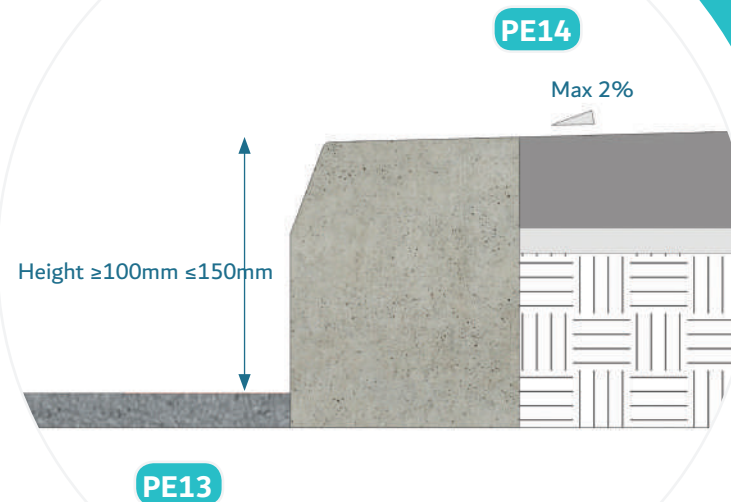
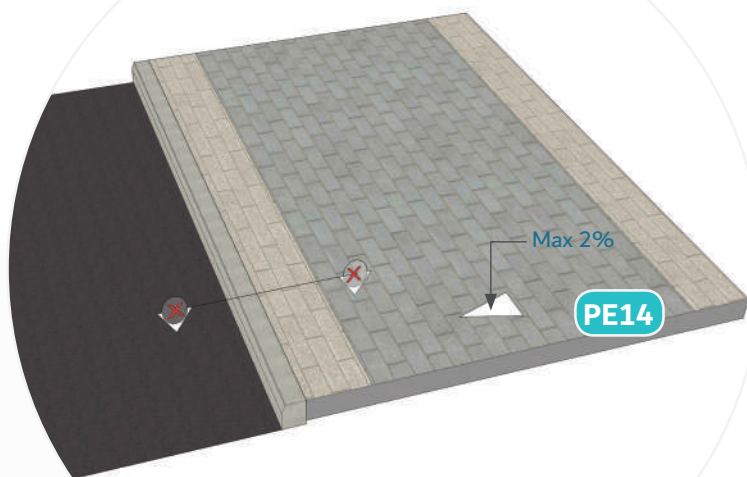


PE12



**PE12** Parking entrance do not modify the slope or width of the accessible path



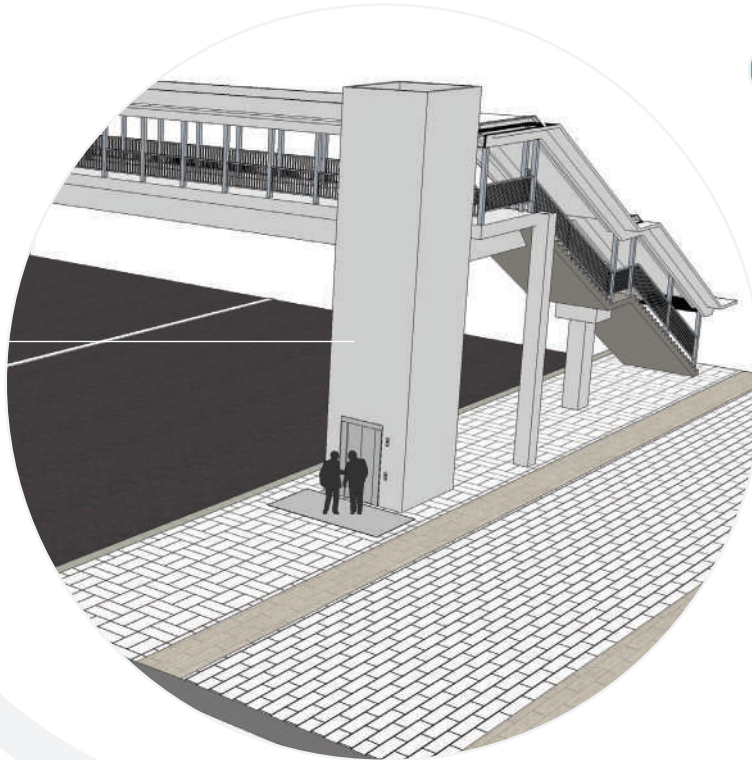


Section X - X

**PE13** Curb height between 100mm and 150mm

**PE14** Cross Slope Gradient  $\leq 2\%$

Elevator

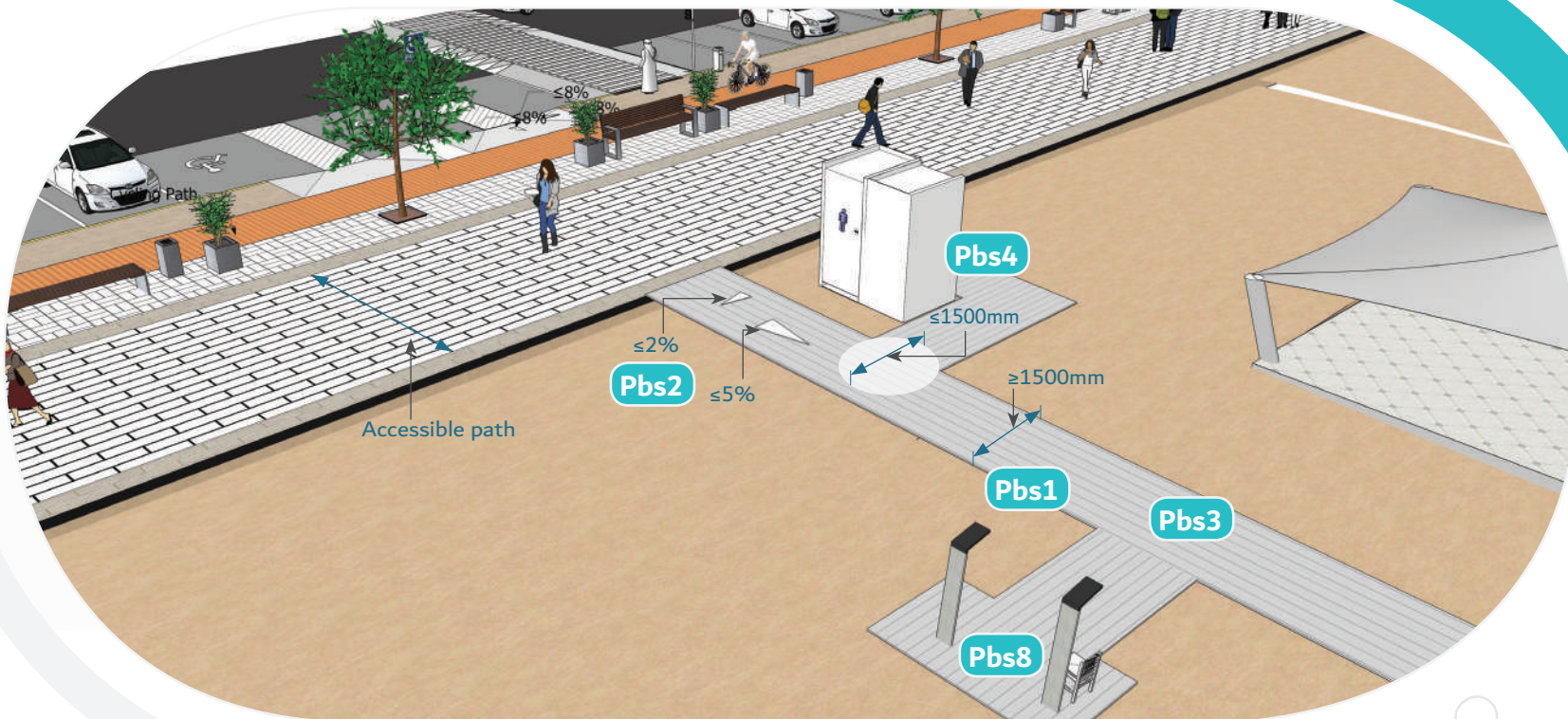


PE15

Sun and rain protection



**PE15** Pedestrian bridges with ramps or elevators if provided



**Pbs1** Width  $\geq 1500\text{mm}$

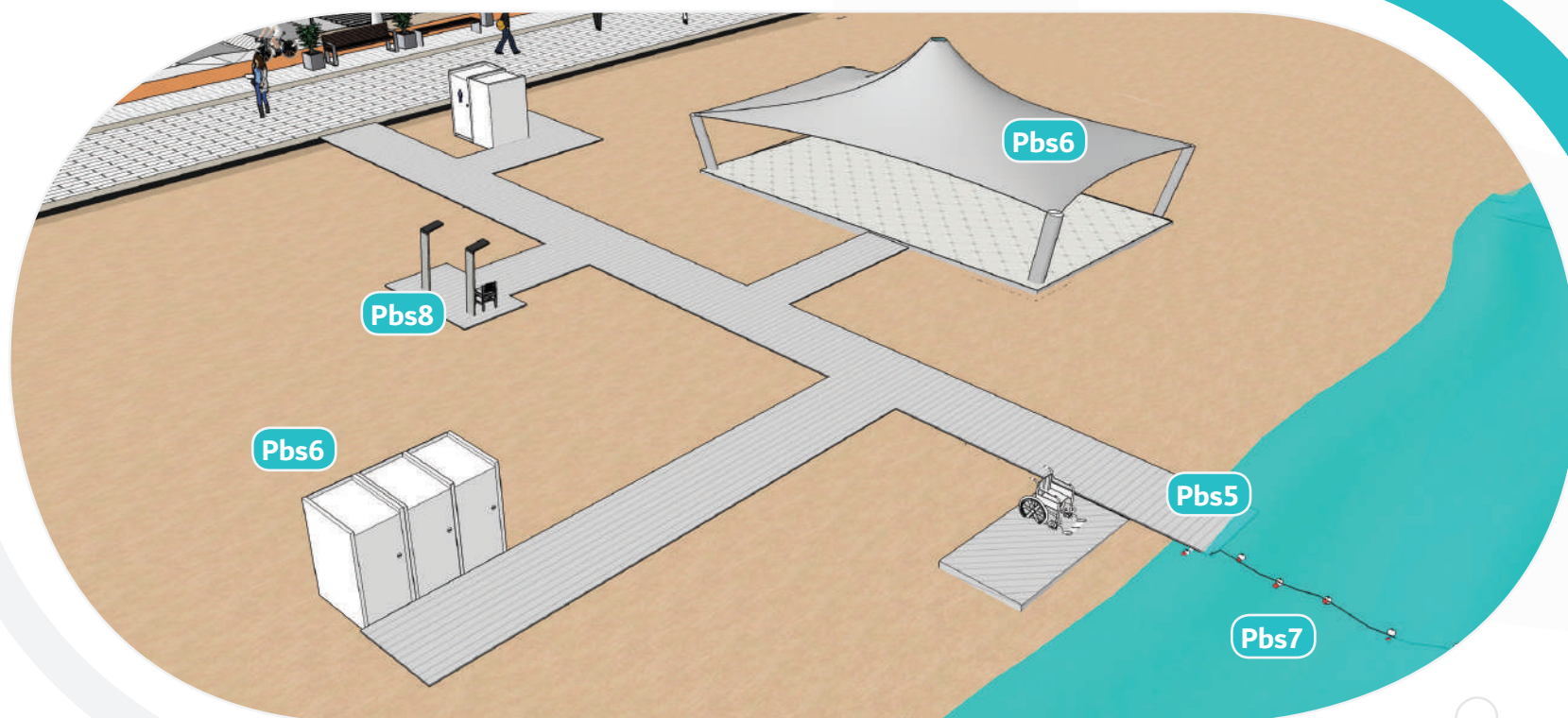
**Pbs2** Longitudinal gradient  $\leq 5\%$  and cross gradient  $\leq 2\%$

**Pbs3** Suitable for walking barefoot with low heat transmission

**Pbs4** Public toilets near accessible path and the car parks

**Pbs8** With accessible showers in beaches



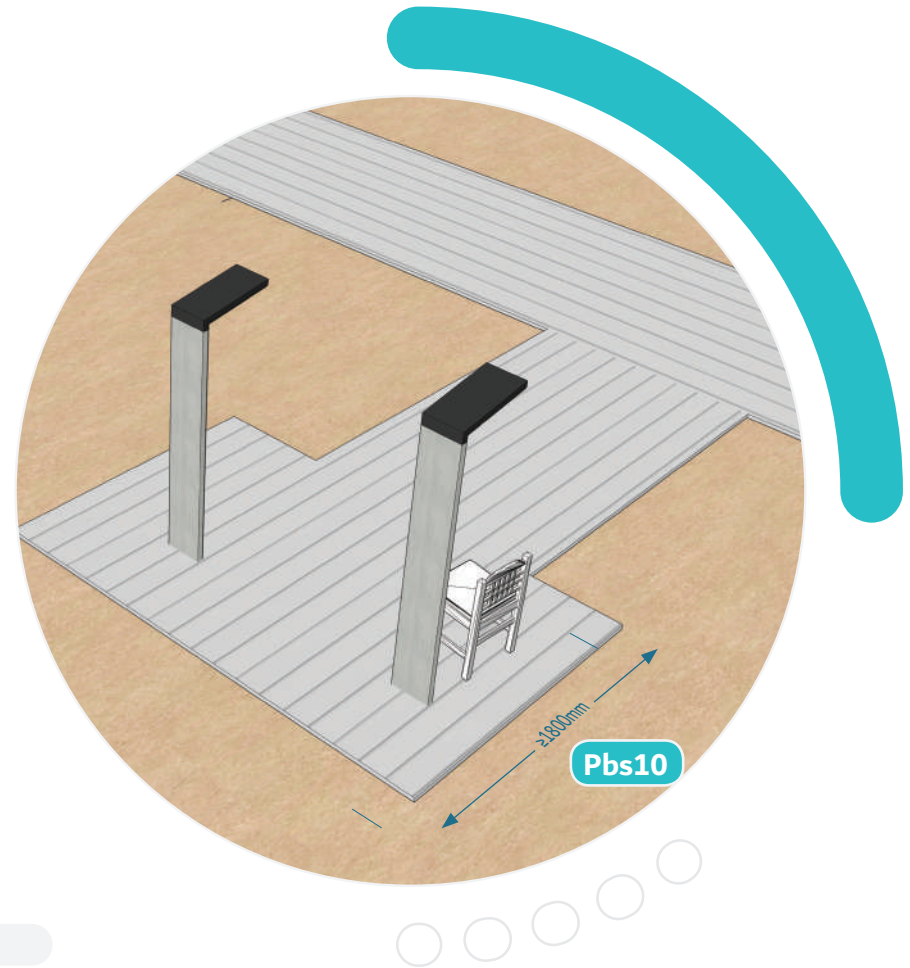
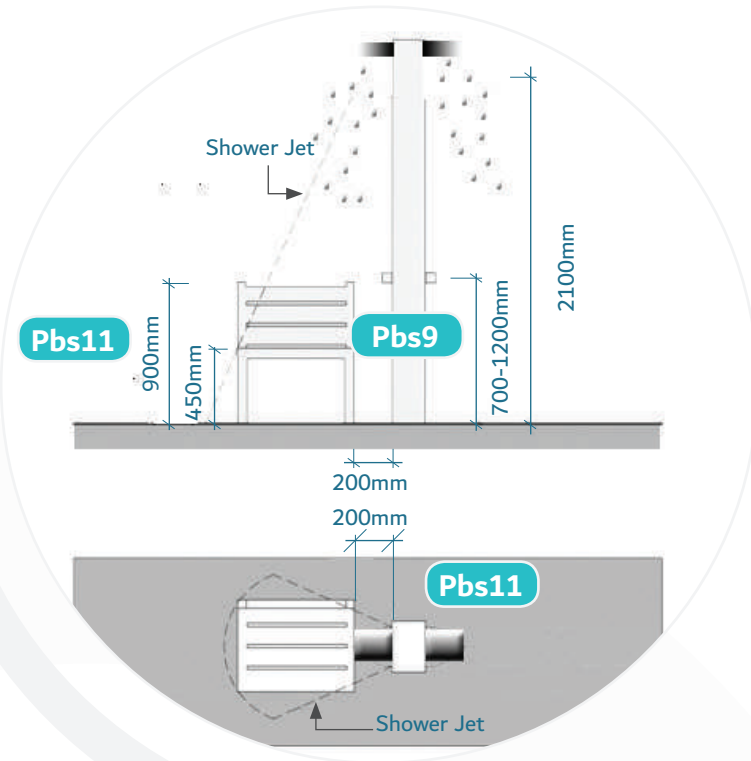


**Pbs5** Reaching the water edge

**Pbs6** Including accessible services like toilets, showers, changing rooms, furniture, emergency and other services

**Pbs7** Floating rope to help users to access into the water

**Pbs8** With accessible showers in beaches

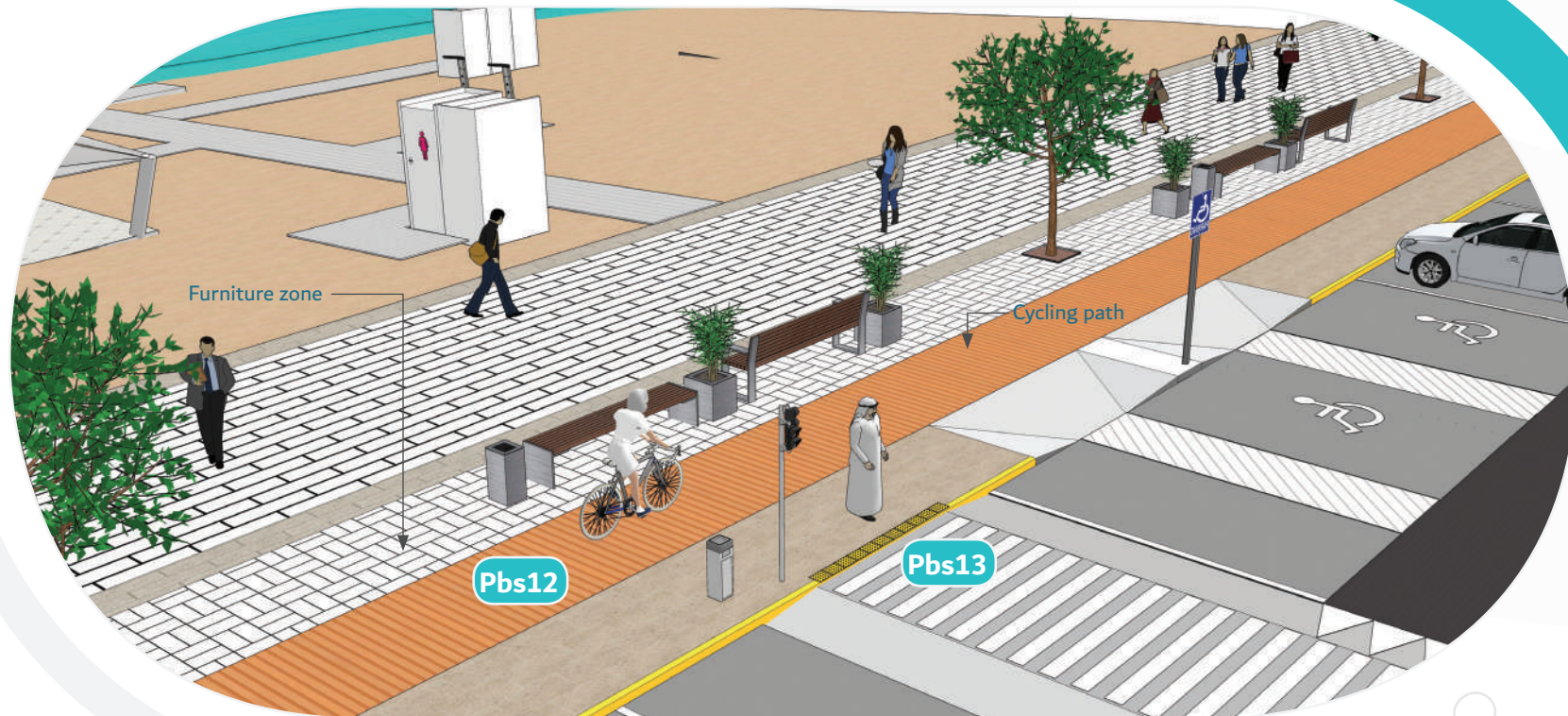


**Pbs9** Shower controls height between 700-1200mm and activated with elbow

**Pbs10** Shower area width  $\geq 1800\text{mm}$

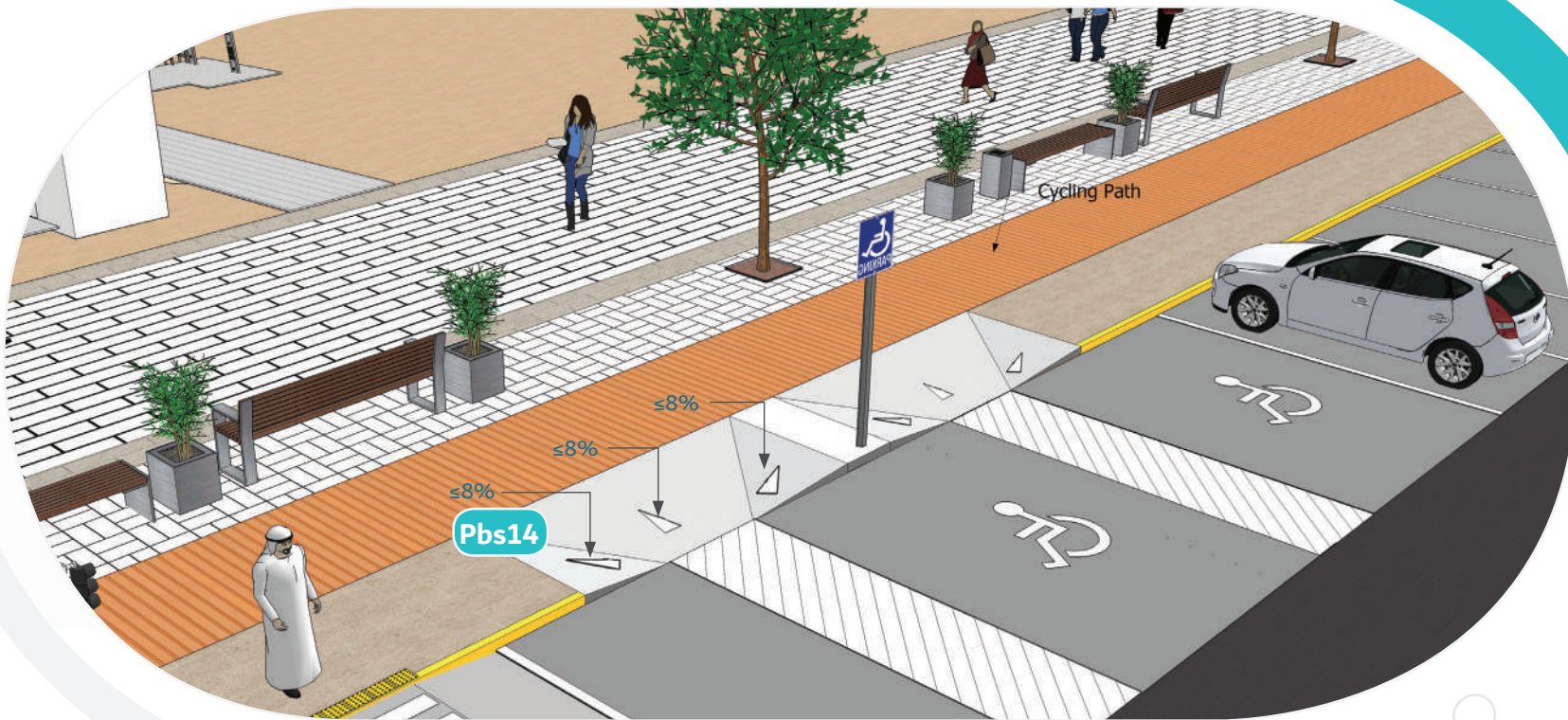
**Pbs11** Shower provided with armless bench risen 450mm for seat base and 900mm for the back, located at 200mm from the shower





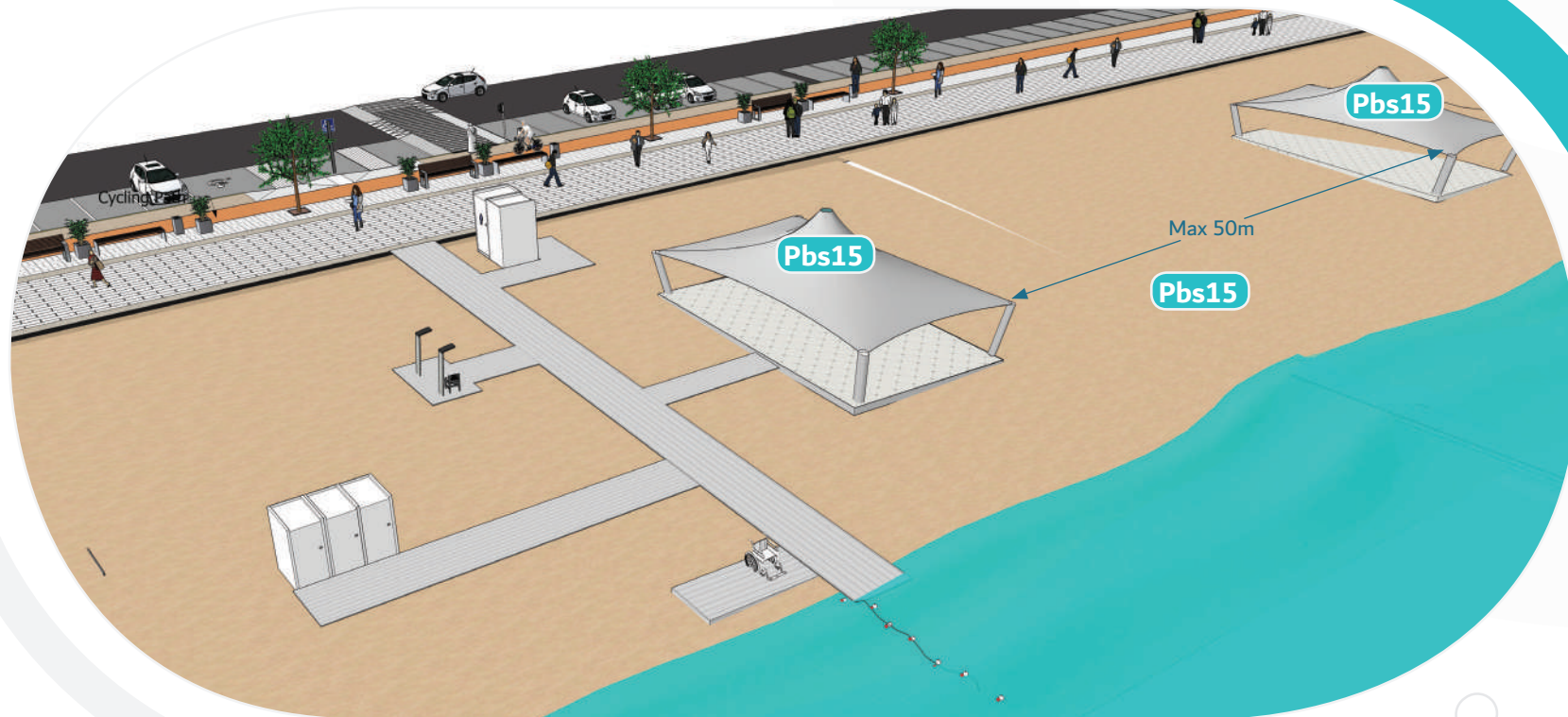
**Pbs12** If there is a cycling paths it's between urban furniture and curb

**Pbs13** Pedestrian crossings are preceded by tactile warnings

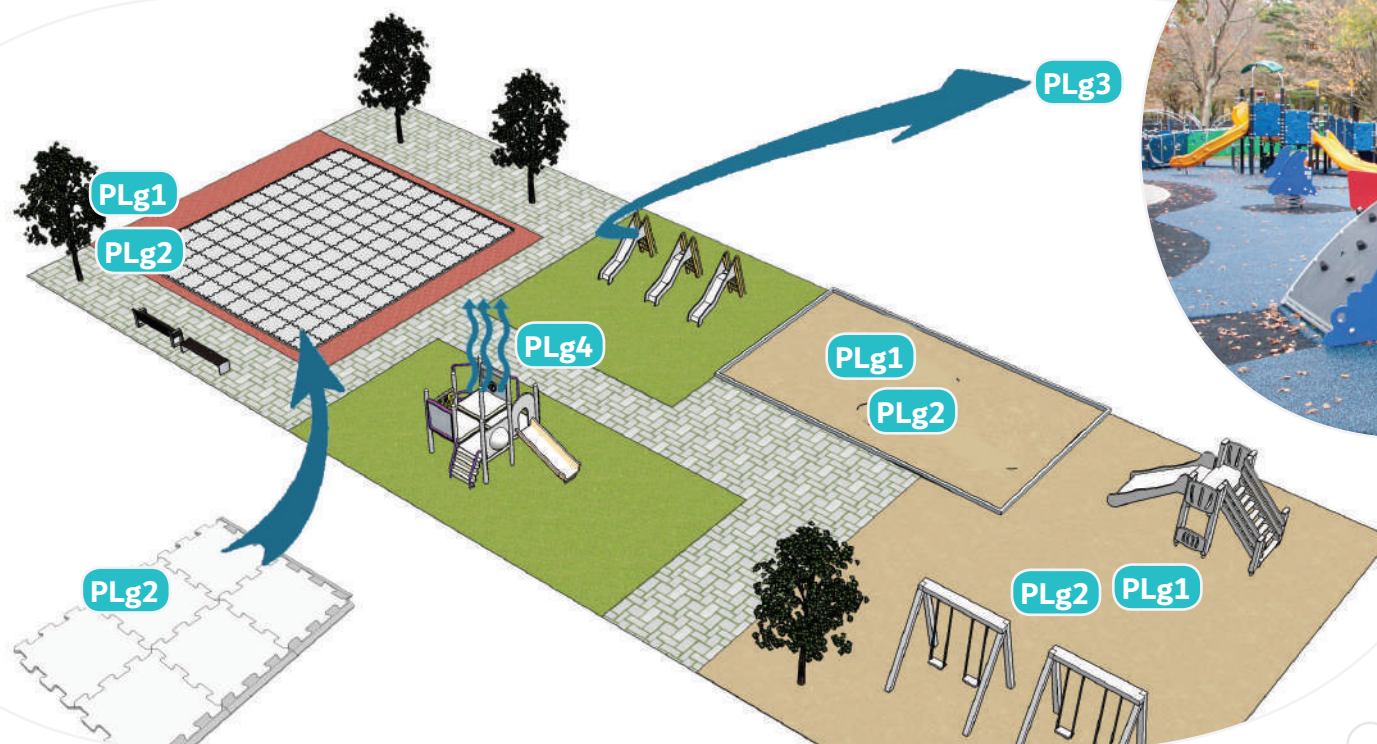


**Pbs14** Curb cut gradient at crossing  $\leq 8\%$





**Pbs15** At least shaded zones are provided every 50m max



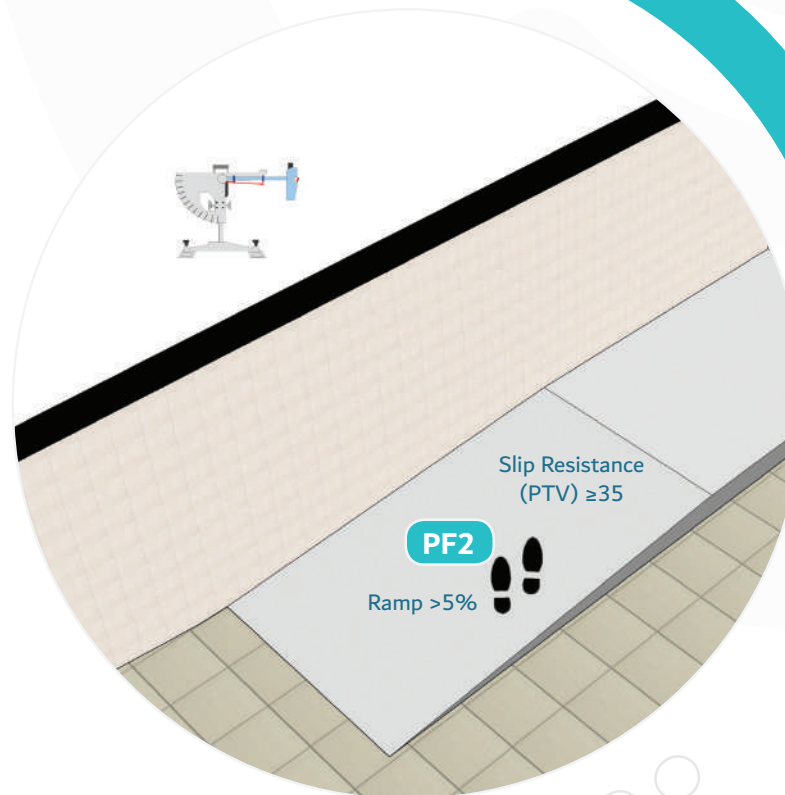
**PLg1** Floor surface of rubber or compacted sand

**PLg2** Smooth and soft floor surface for children play area

**PLg3** ≥50% of play activities are usable by children with disabilities

**PLg4** Low heat transmission materials of play activities

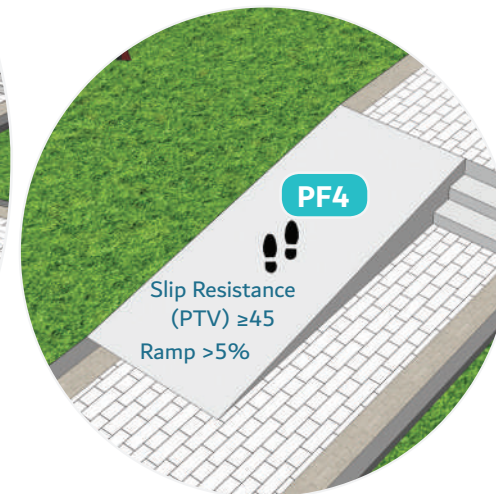
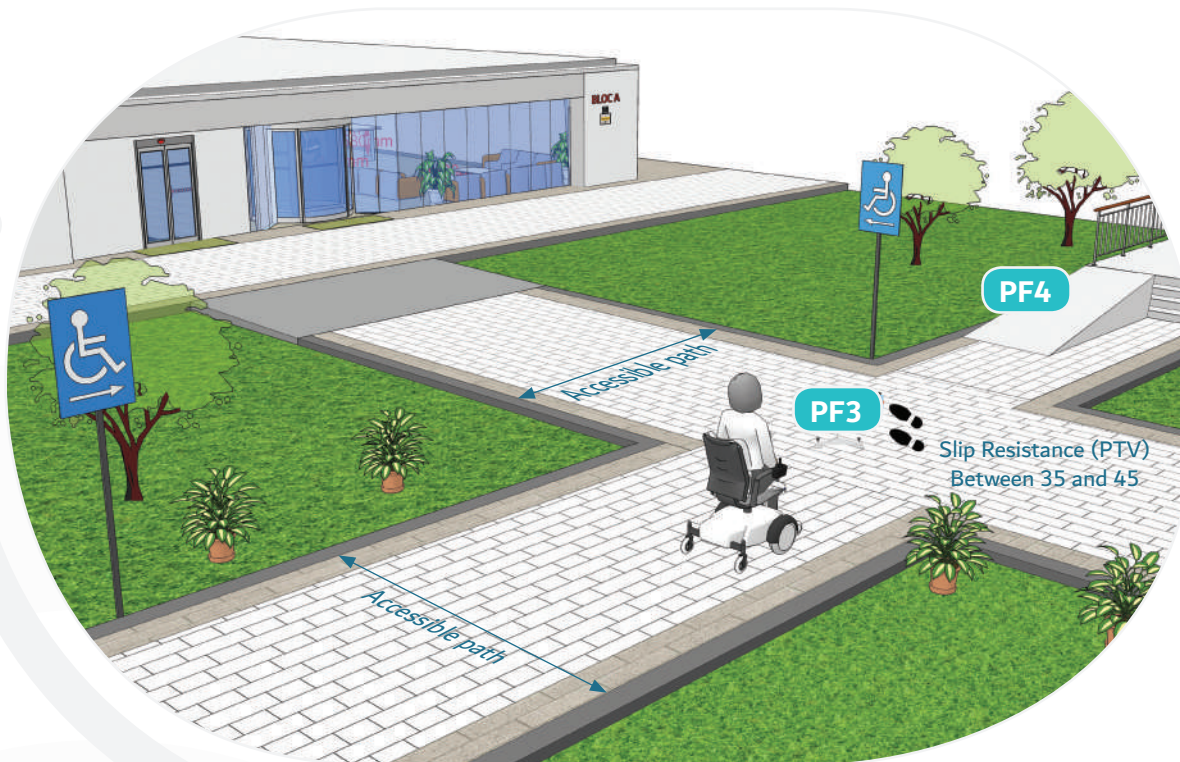
**PLg5** Materials treated to prevent electrostatic discharges and if not, should be marked with symbol with magnetic warning sign



**PF1** Slip resistance (PTV) comply: level and inclined with  $\leq 5\%$  dry areas indoor - (PTV) Between 15 and 35

**PF2** Inclined >5% dry areas indoor, (PTV)  $\geq 35$





**PF3** Level and inclined with  $\leq 5\%$  wet areas and outdoor - (PTV) Between 35 and 45

**PF4** Inclined  $> 5\%$  wet areas and outdoor, (PTV)  $\geq 45$



**PF5** Street pavement, swimming pools and showers, (PTV)  $\geq 45$

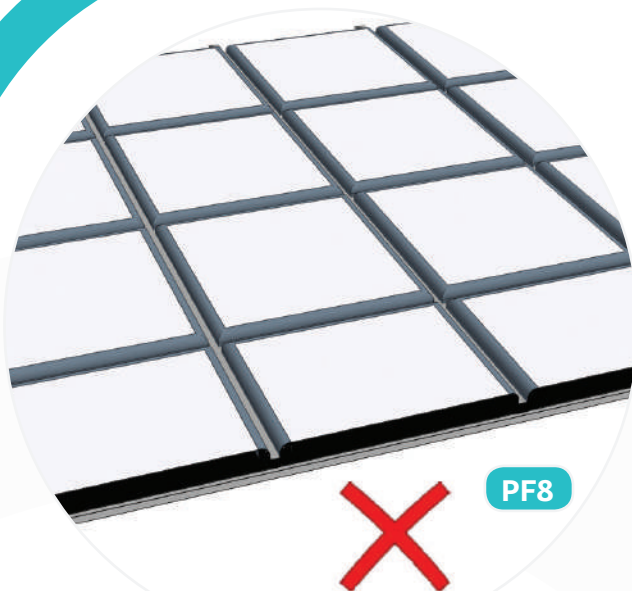




**PF6** Ground pavement without loose elements



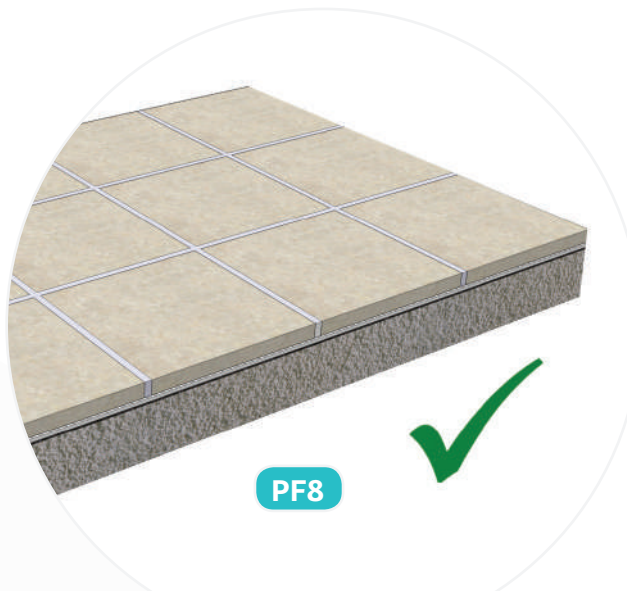




PF8

PF8

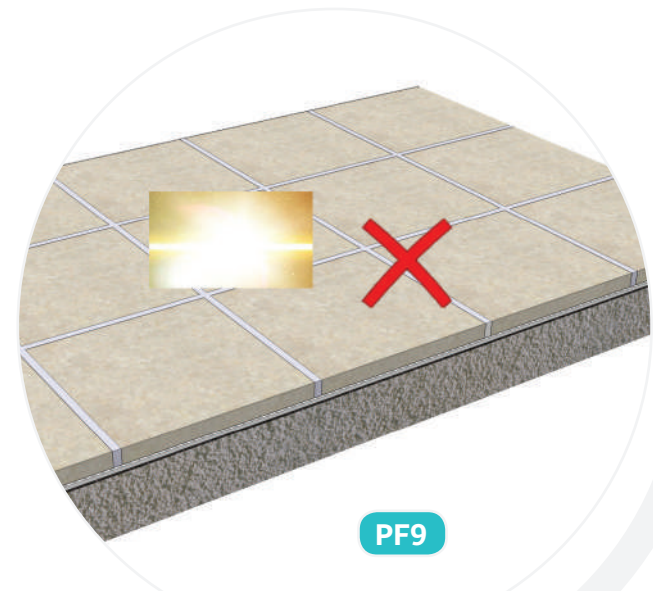
Without rounded edges and excessive joints



PF8

PF9

Not producing glare



PF9

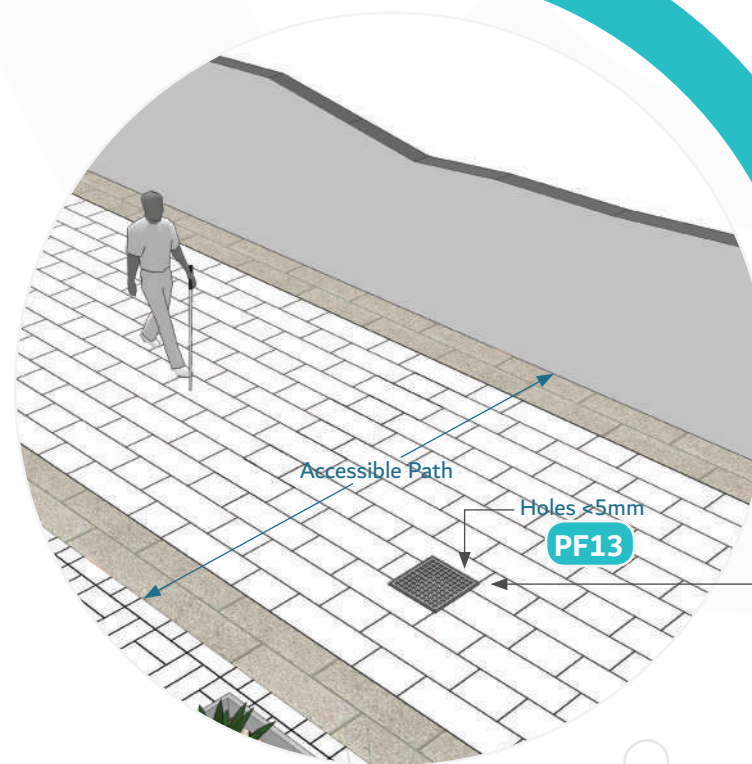
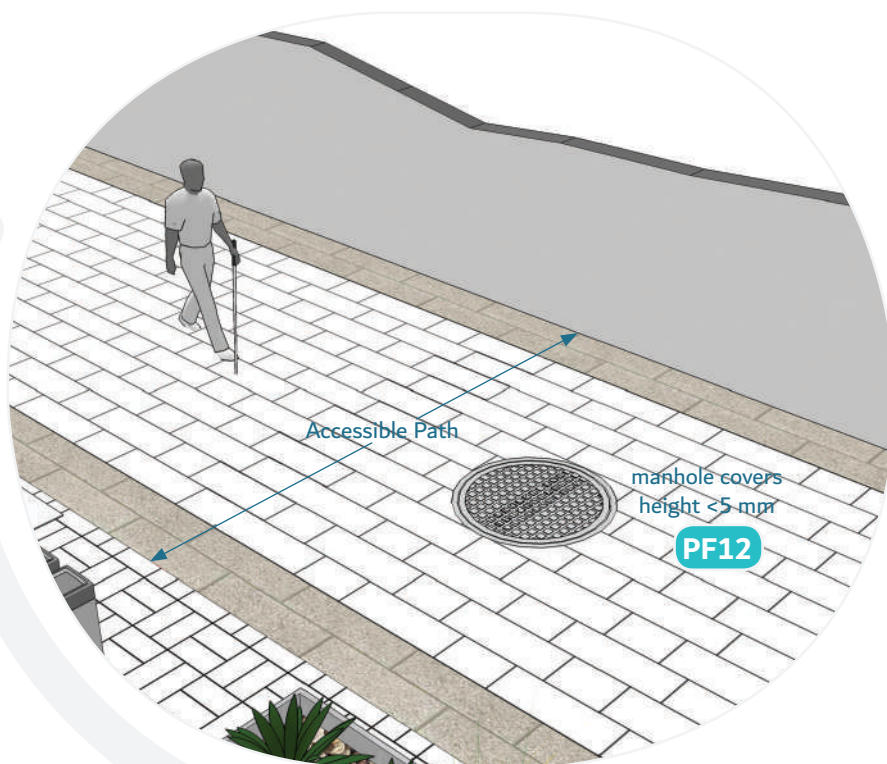


**PF10** With reflectance contrast of at least 30 points LRV between accessible pavement (surrounding surface or 300mm pavement strip)



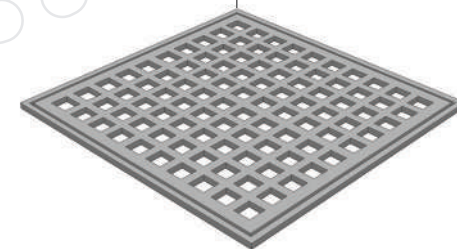


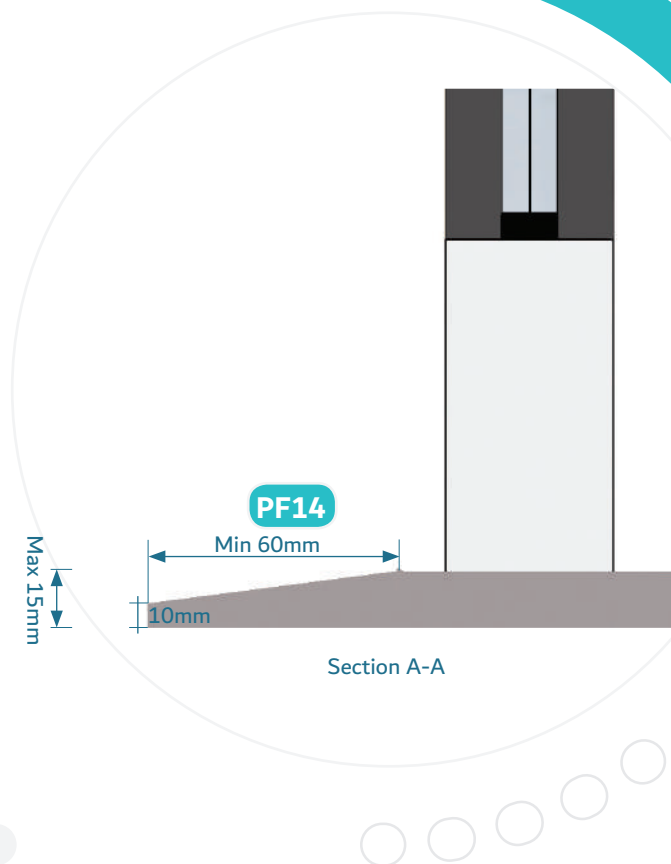
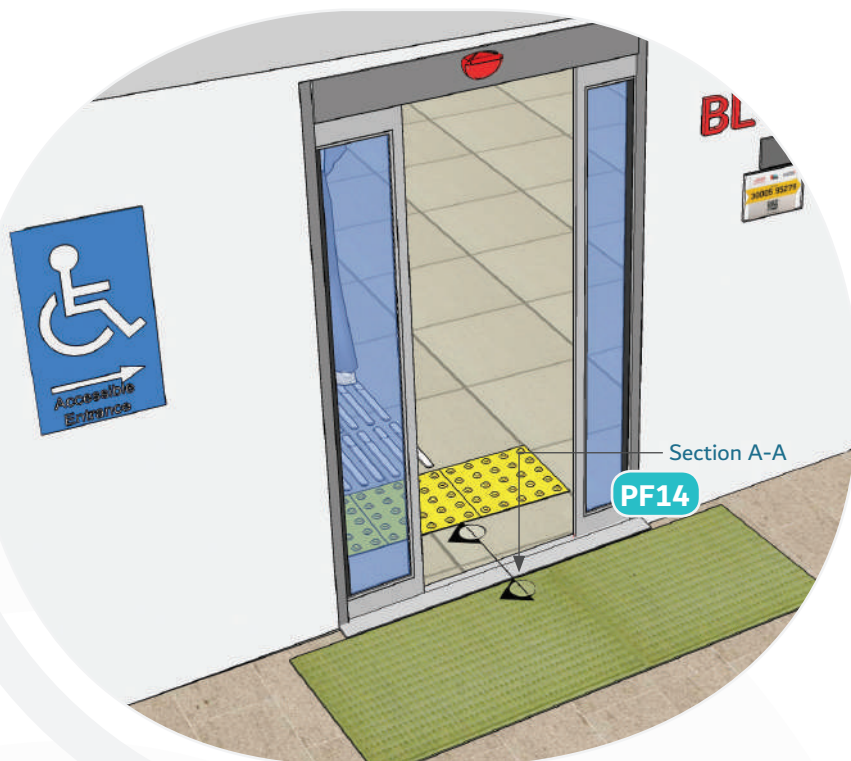
**PF11** Lighting in floor (Flooring Light) not produces glare and excessive heat



**PF12** Absence of utility covers (manhole covers) on the path or with height less of 5mm

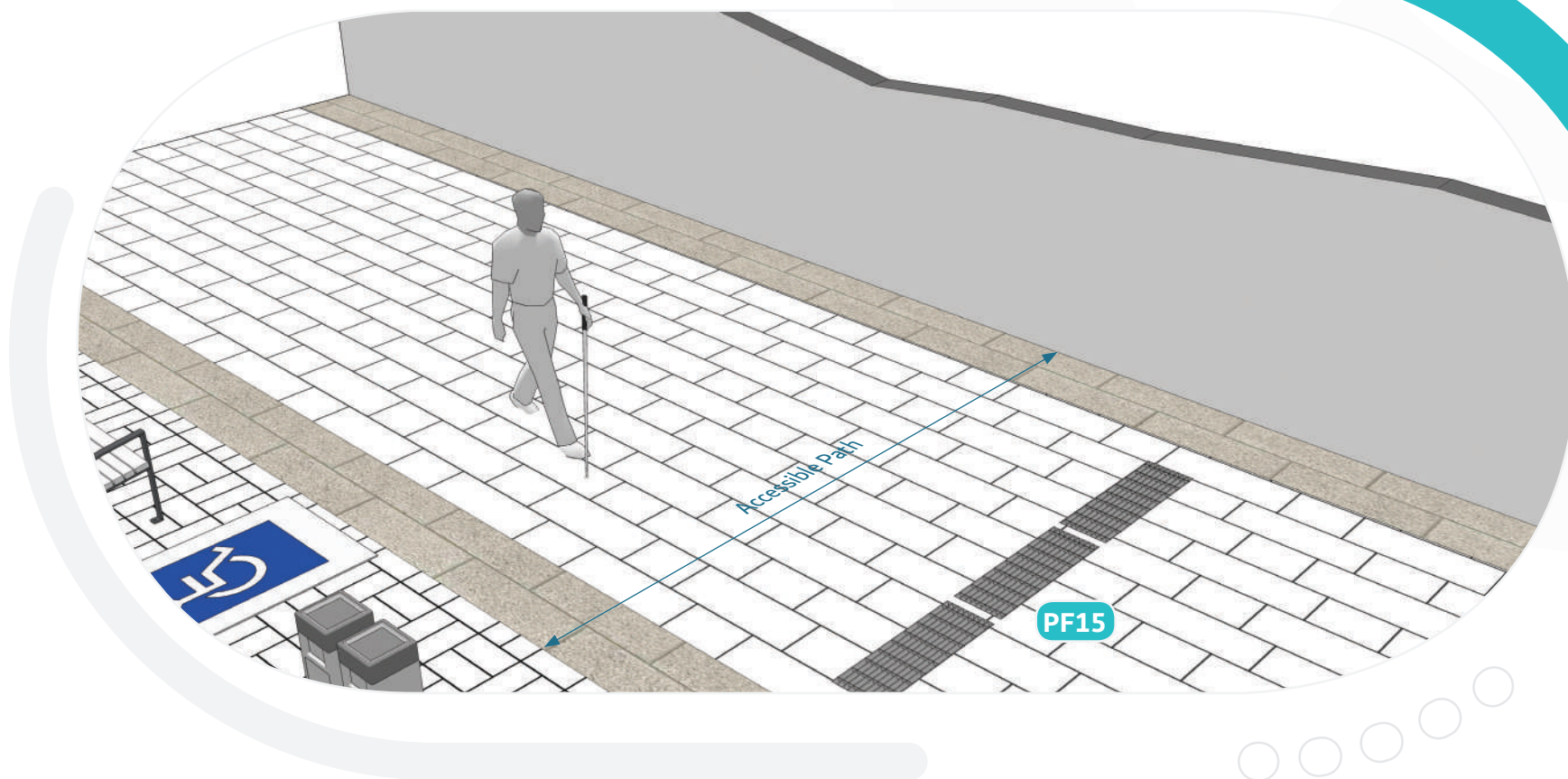
**PF13** Absence of drain grids on the path or with holes smaller than 5mm



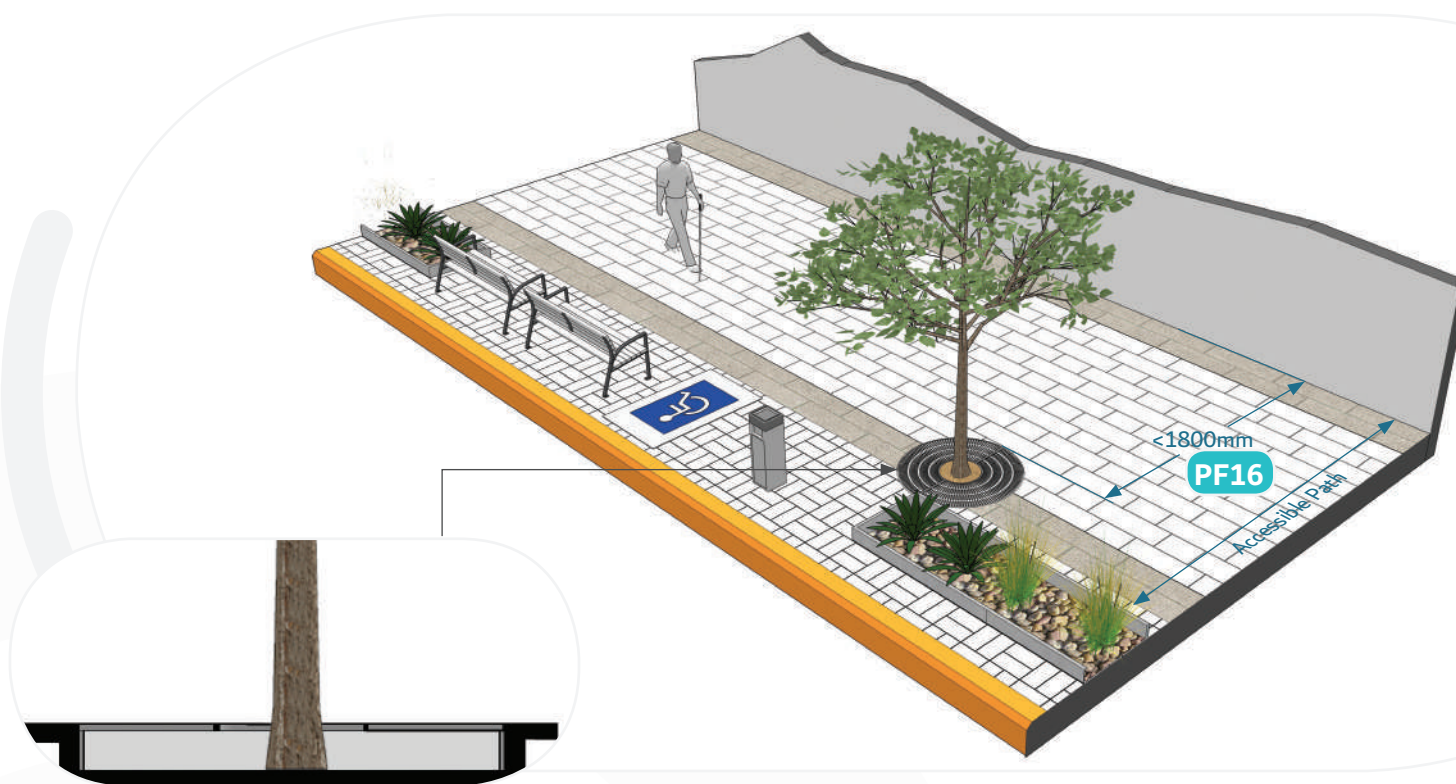


**PF14** Change of pavement level  $\leq 15\text{mm}$ , with  $\leq 25\%$  gradient slope (chamfered)



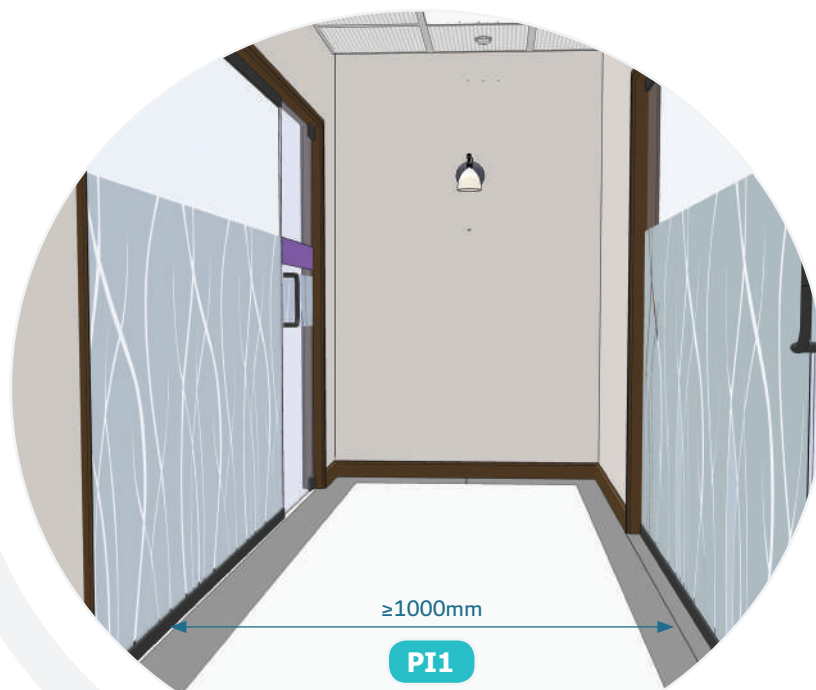


**PF15** Longitudinal grate openings with perpendicular orientation to the pedestrians' direction of travel

**PF16**

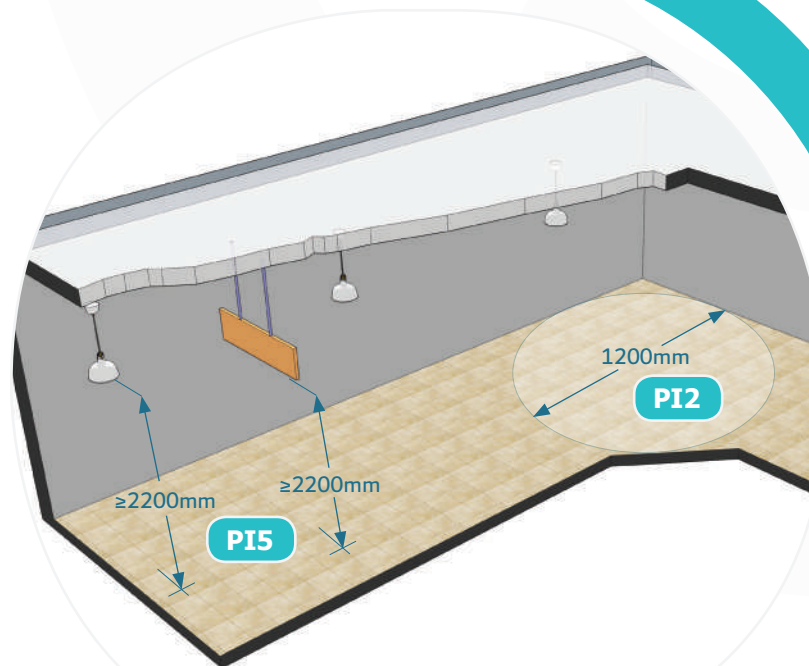
For distance between tree basin edge and the façade &lt; 1800 mm, tree grate with walkable surface



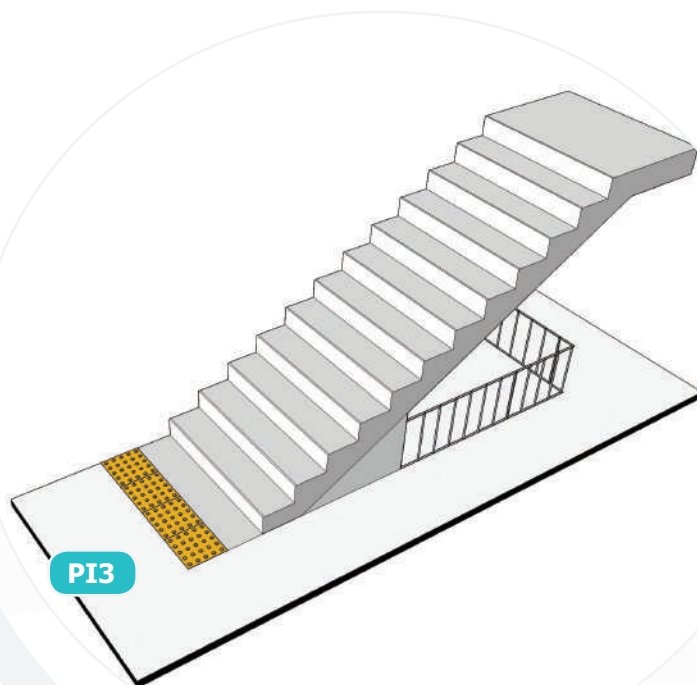
**PI****Path - Internal Corridors**

**PI1** Width  $\geq 1000\text{mm}$

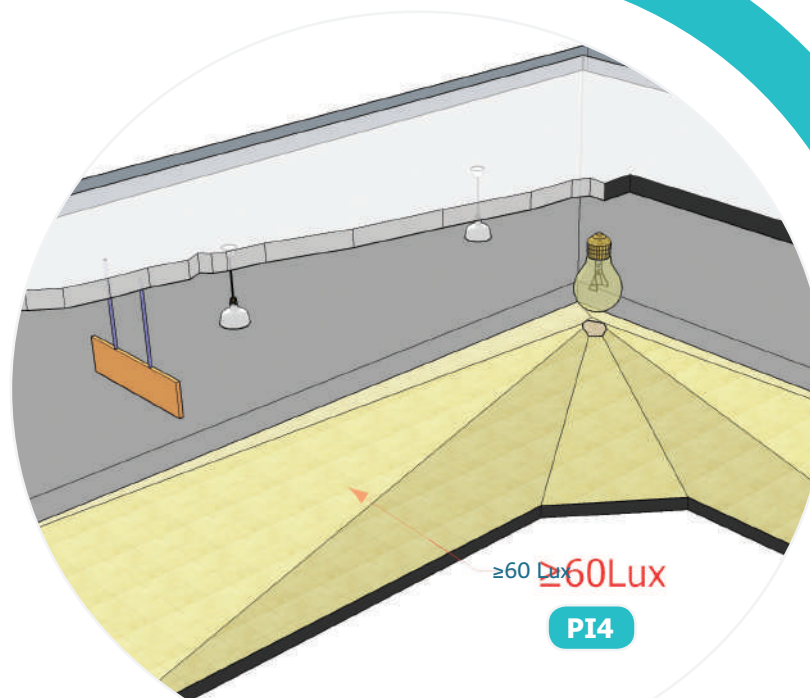
**PI5** Clear headroom  $\geq 2200\text{mm}$



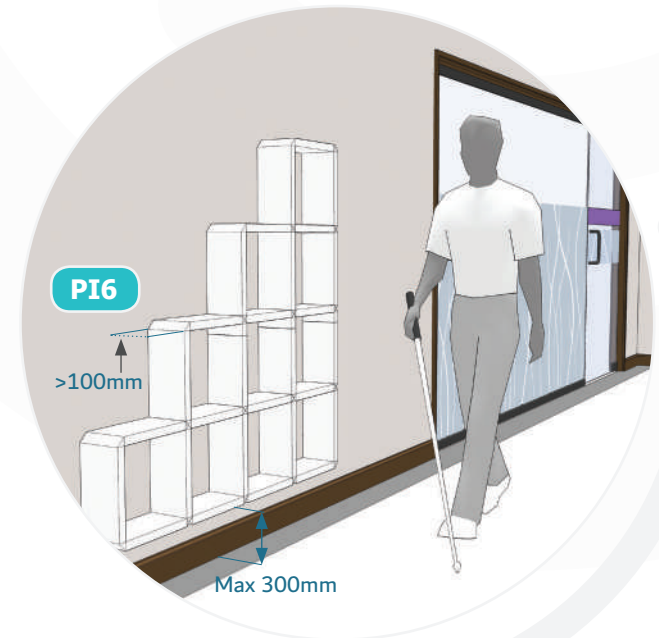
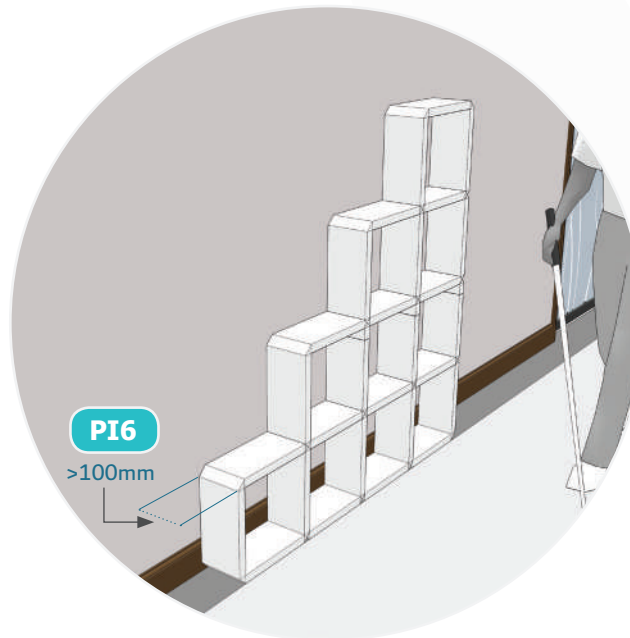
**PI2** In direction changes a maneuvering space of  $1200\text{mm}$



**PI3** Tactile warning surface in any change of level



**PI4** Illumination  $\geq 60$  lux

**PI6****Absence of protruding objects:**

- 1-Objects protruding less than 100mm from façade
- 2-Objects protruding more than 100mm, extends to the floor surface or above the floor level by maximum 300mm

# Level Changes







**LCG1** Absence of unprotected level changes - guardrails for heights  $\geq 500\text{mm}$

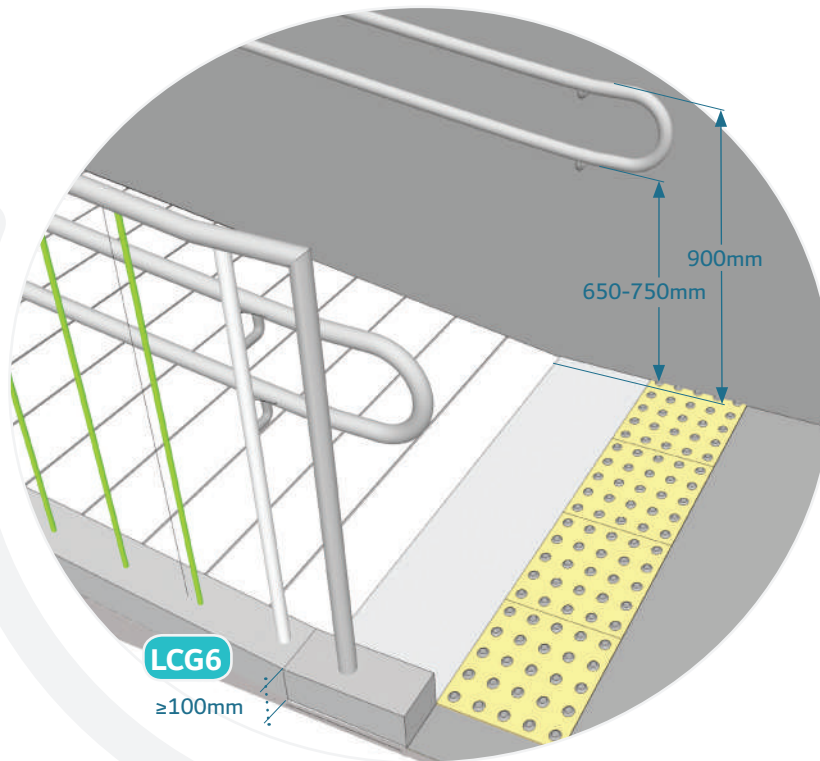
**LCG3** With sufficient strength and stiffness to withstand horizontally uniformly distributed force of 3 kN/m

**LCG2** Height  $\geq 1100\text{mm}$



**LCG4** Can not be climbable

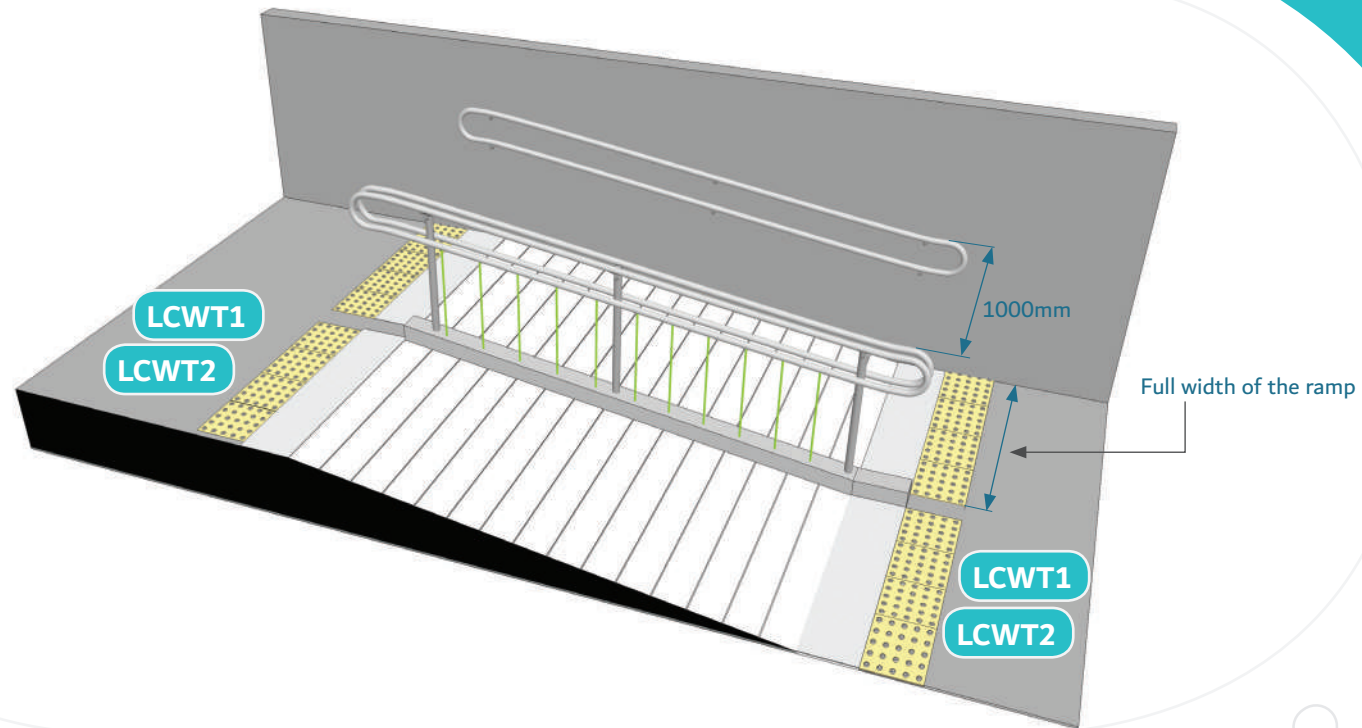
**LCG5** Width of horizontal and vertical openings ≤100mm



LCG6

- 1- Availability of continuous base on the entire open side length
- 2- Continuous base  $\geq 100\text{mm}$  high from the floor surface for ramps & stairs

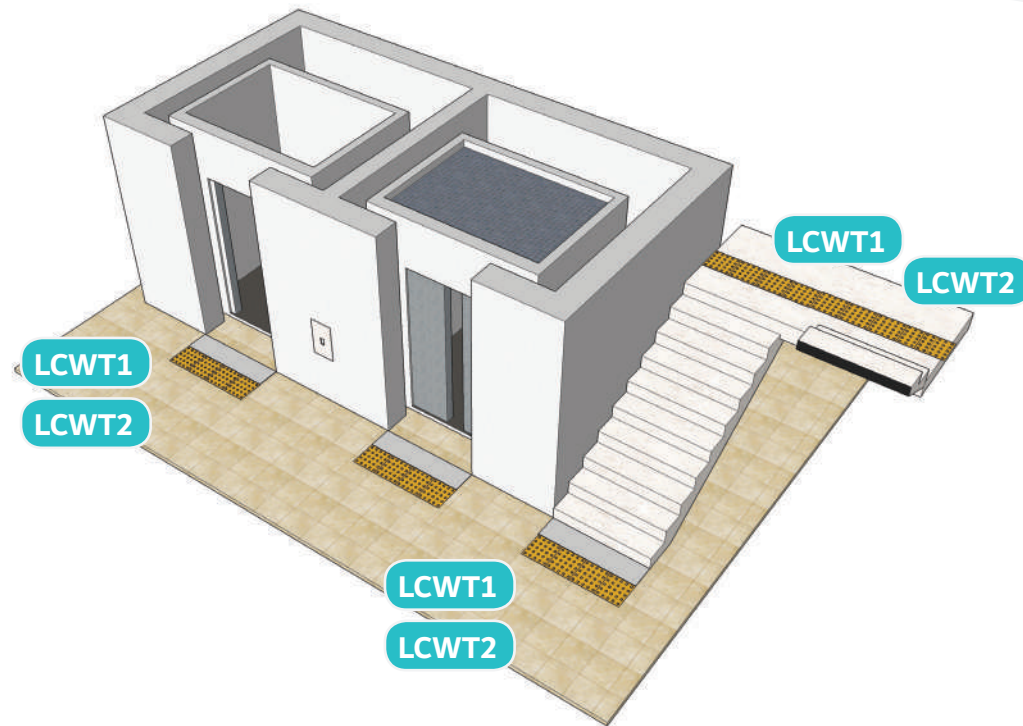


**LCWT1**

Available in the beginning and end of every level change including ramps and stair landings, or any dangerous element

**LCWT2**

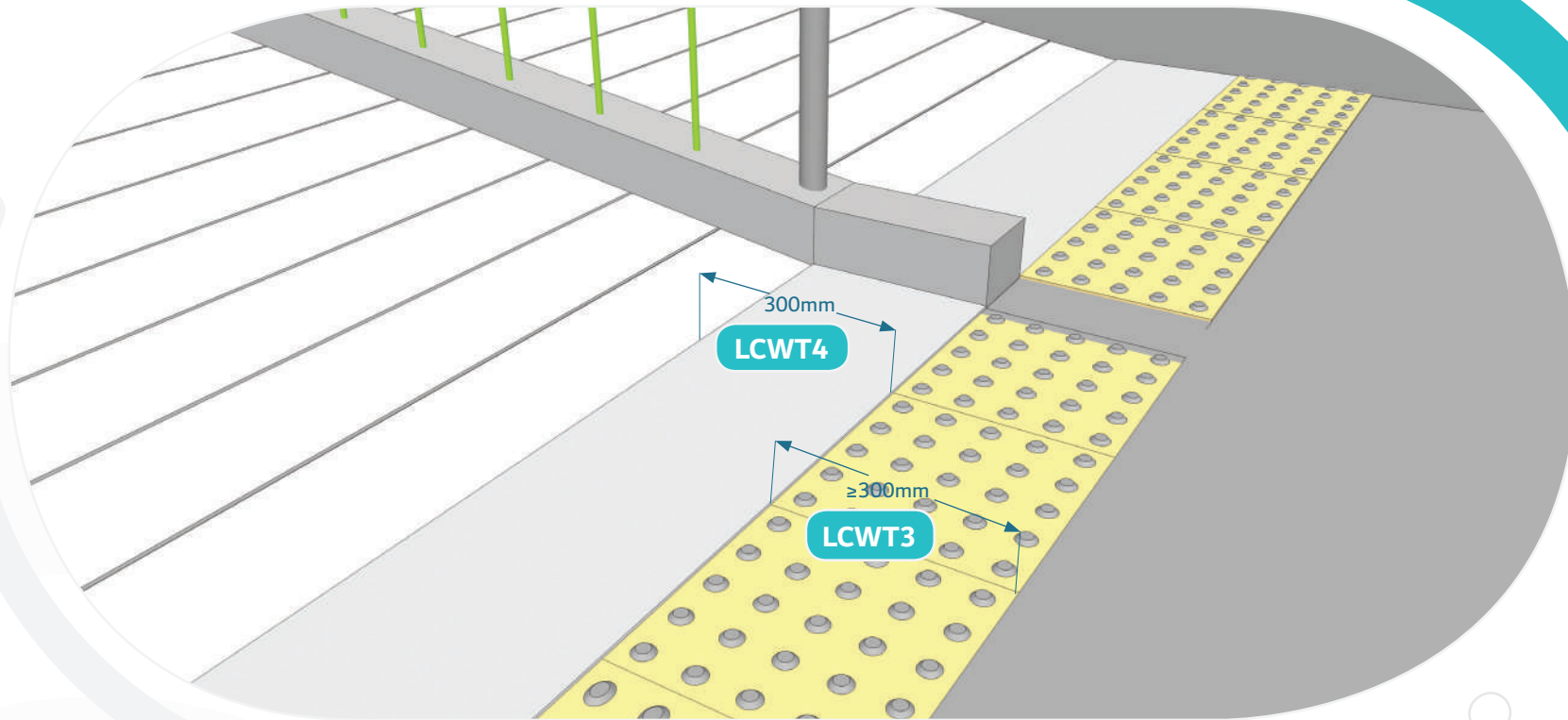
Installed along the entire width of the element

**LCWT1**

Available in the beginning and end of every level change including ramps and stair landings, or any dangerous element

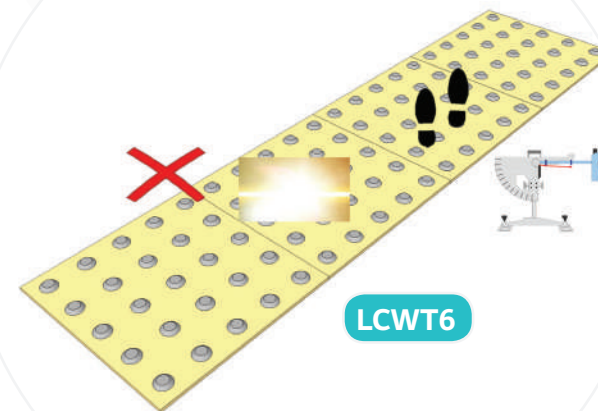
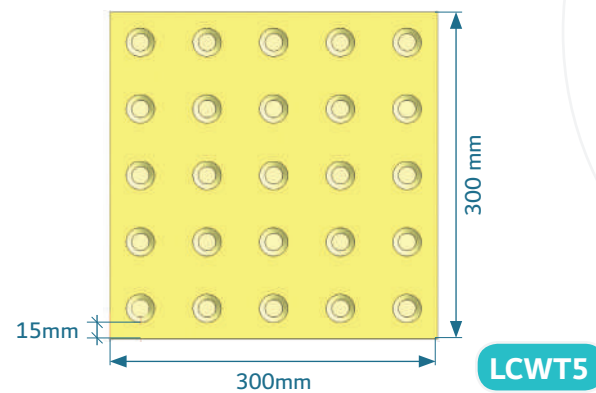
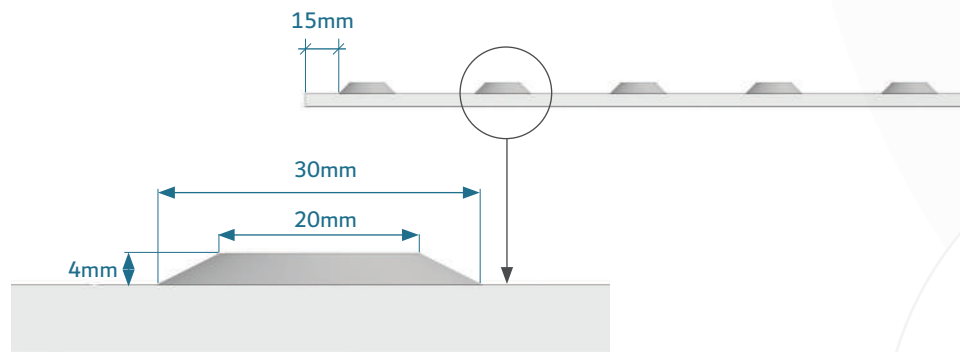
**LCWT2**

Installed along the entire width of the element



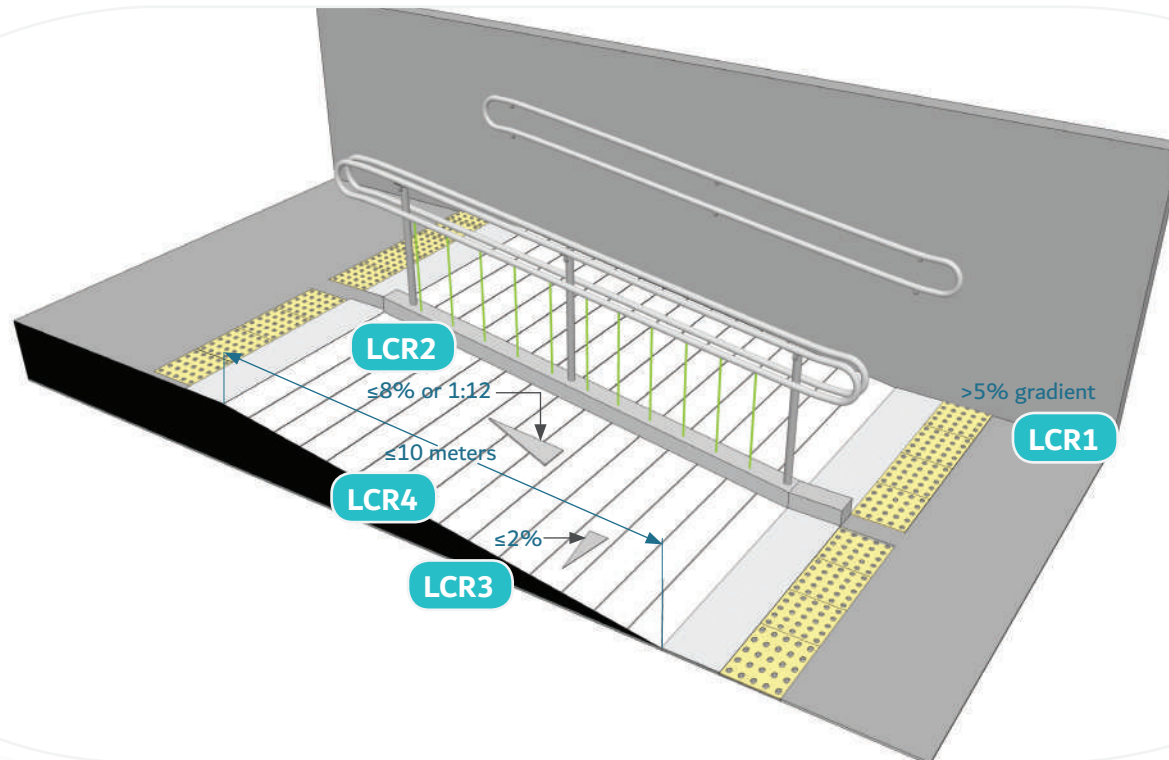
**LCWT3** The width  $\geq 300\text{mm}$

**LCWT4** Located at 300mm away from the edge of the ramp or stair flight or any dangerous element



**LCWT5** Warning tactile truncated cones diameter = 30mm at bottom and 20mm at top, and protruding 4mm

**LCWT6** Non glare on shiny or slippery

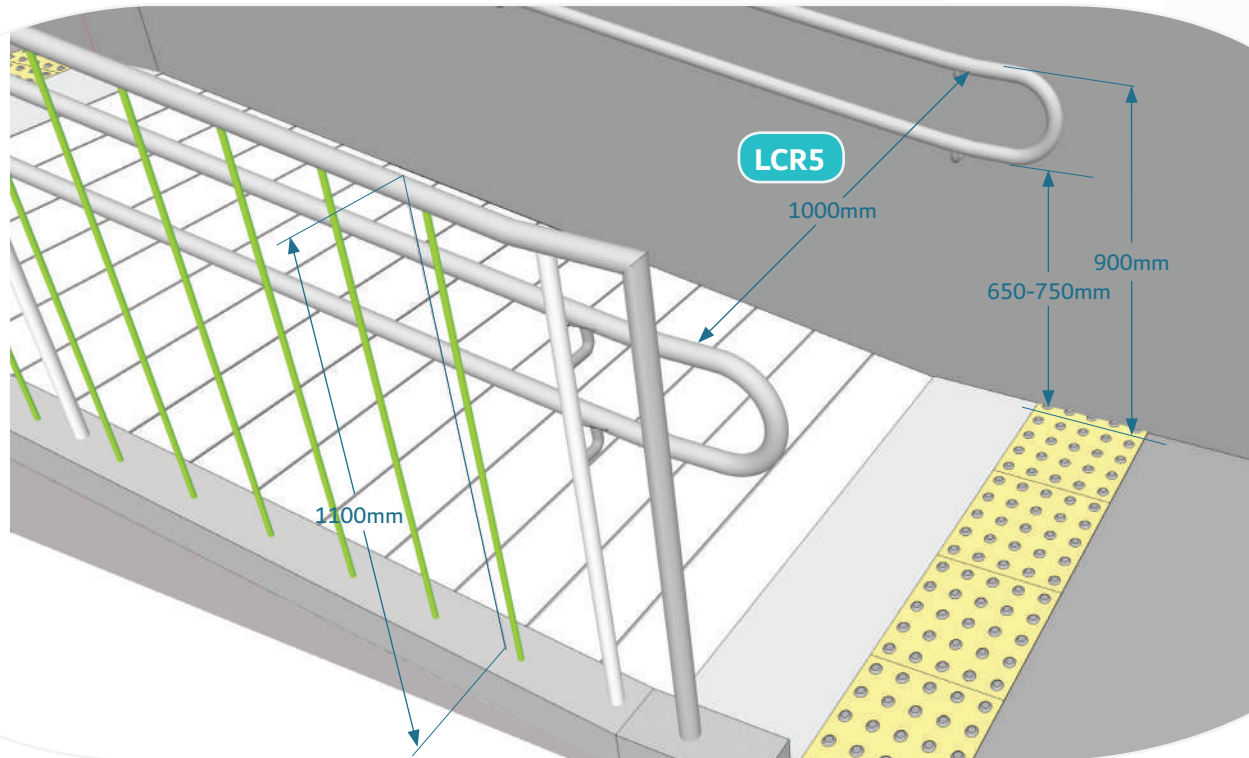


**LCR1** Ramps used only when gradient of level  $>5\%$

**LCR2** Slope is  $\leq 8\%$  or  $1:12$

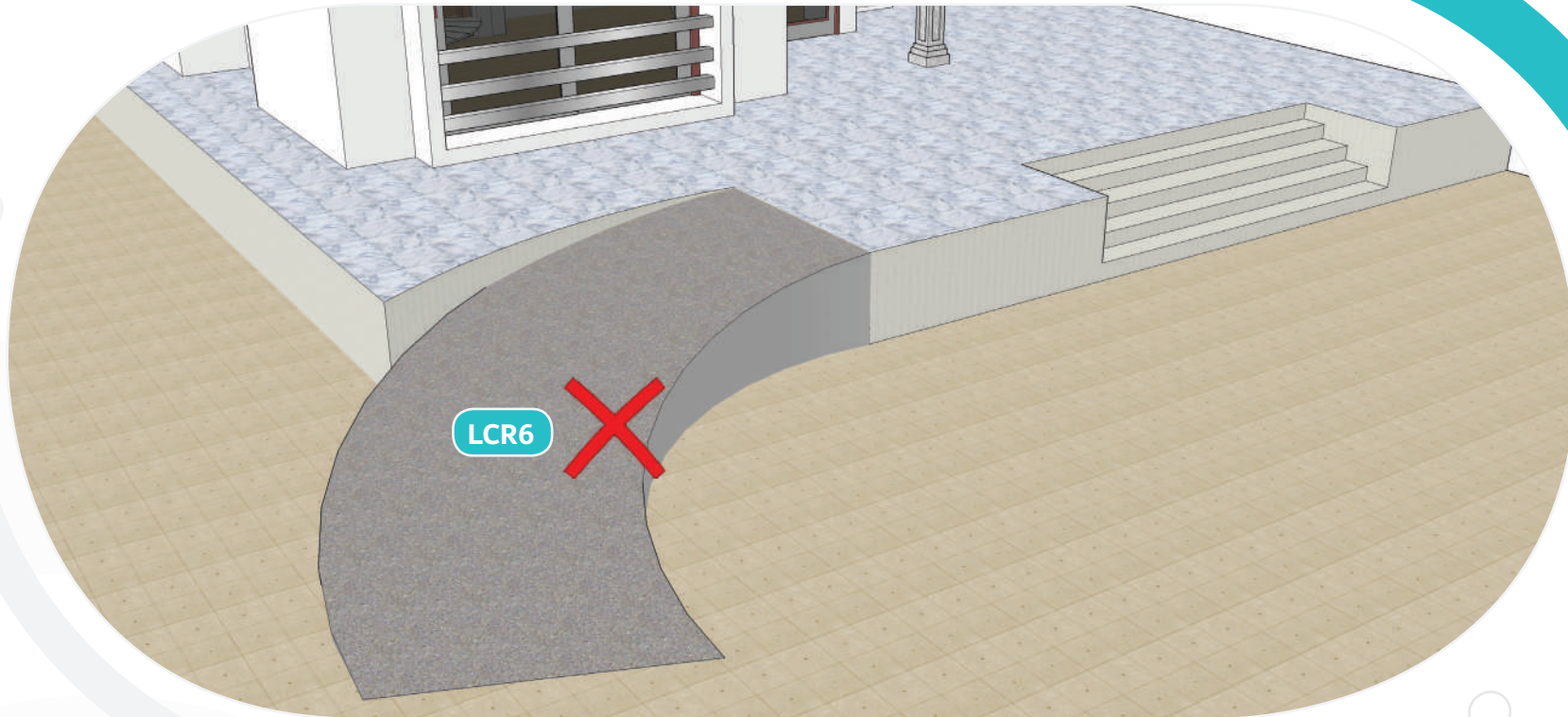
**LCR3** Cross fall gradient  $\leq 2\%$

**LCR4** Run length  $\leq 10$  meters



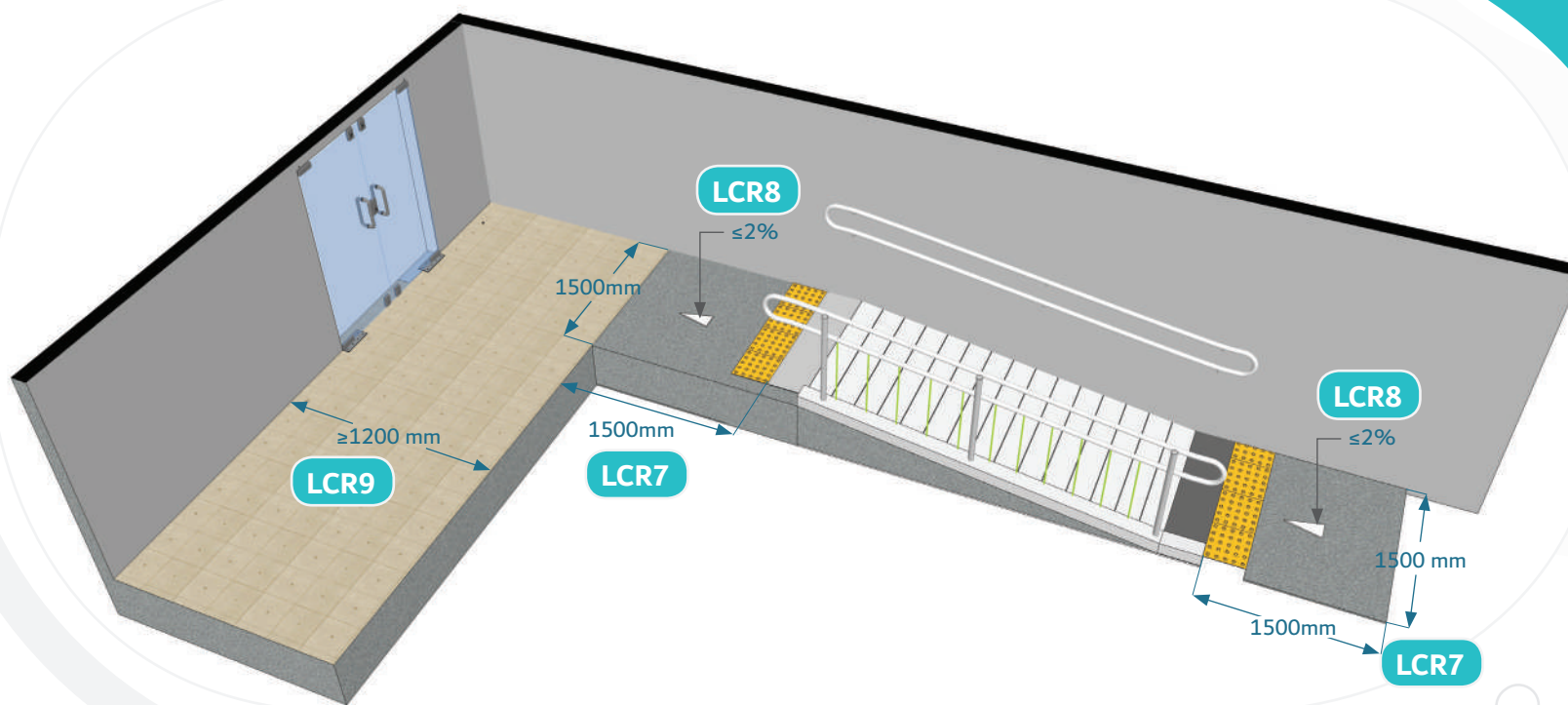
**LCR5** Run width = 1000 mm between handrails



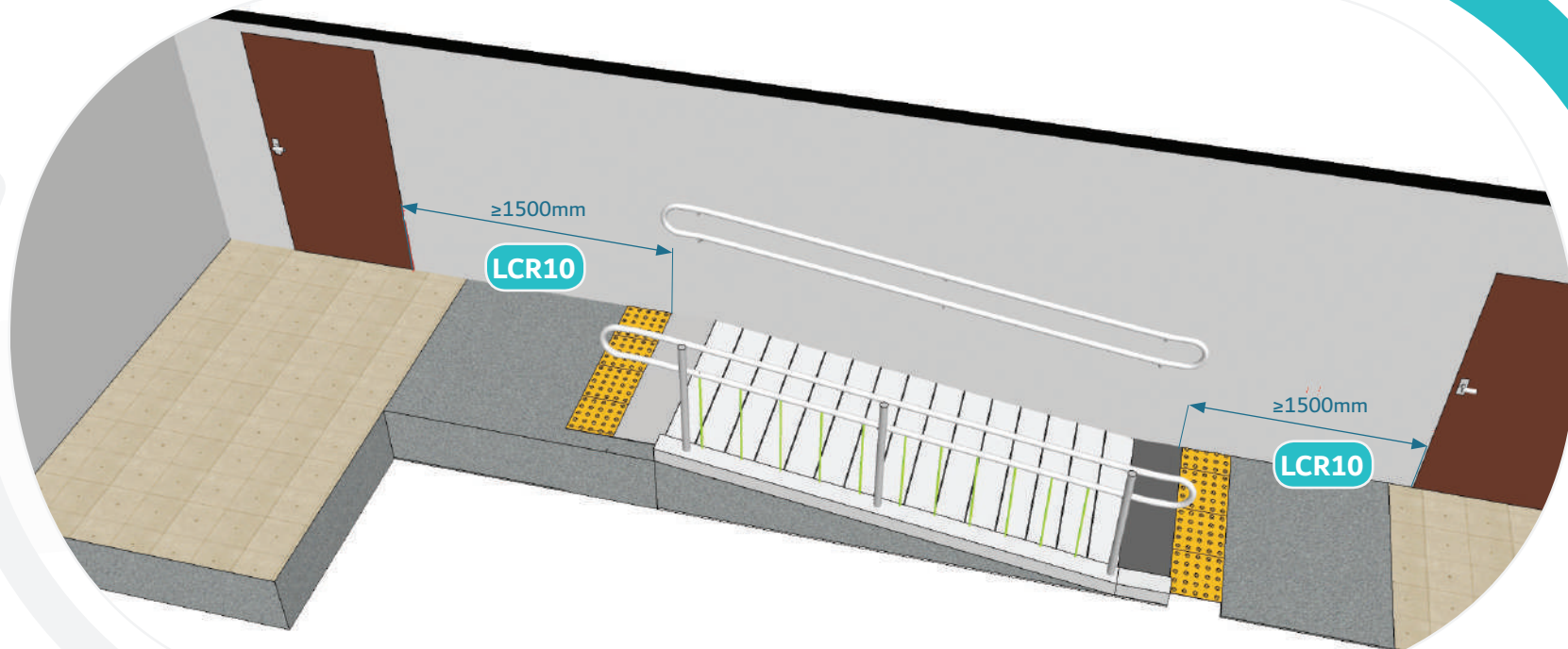


LCR6

No curved ramps

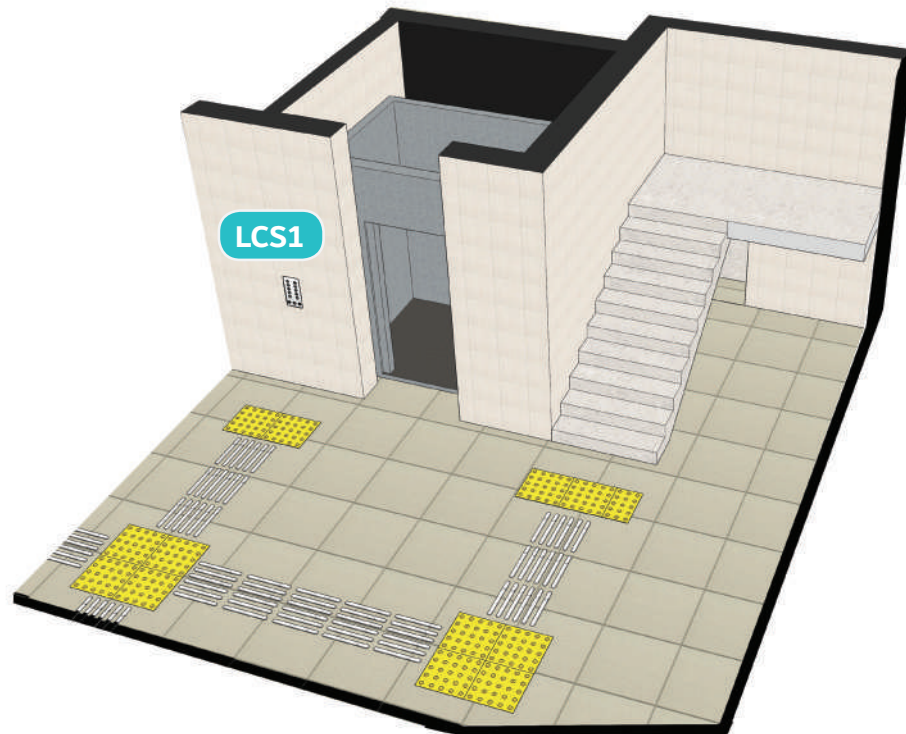


- LCR7** Landings at the beginning and end of every run -surface 1500mm x 1500mm
- LCR8** Level landings or  $\leq 2\%$
- LCR9** Corridors in landings width  $\geq 1200$  mm width

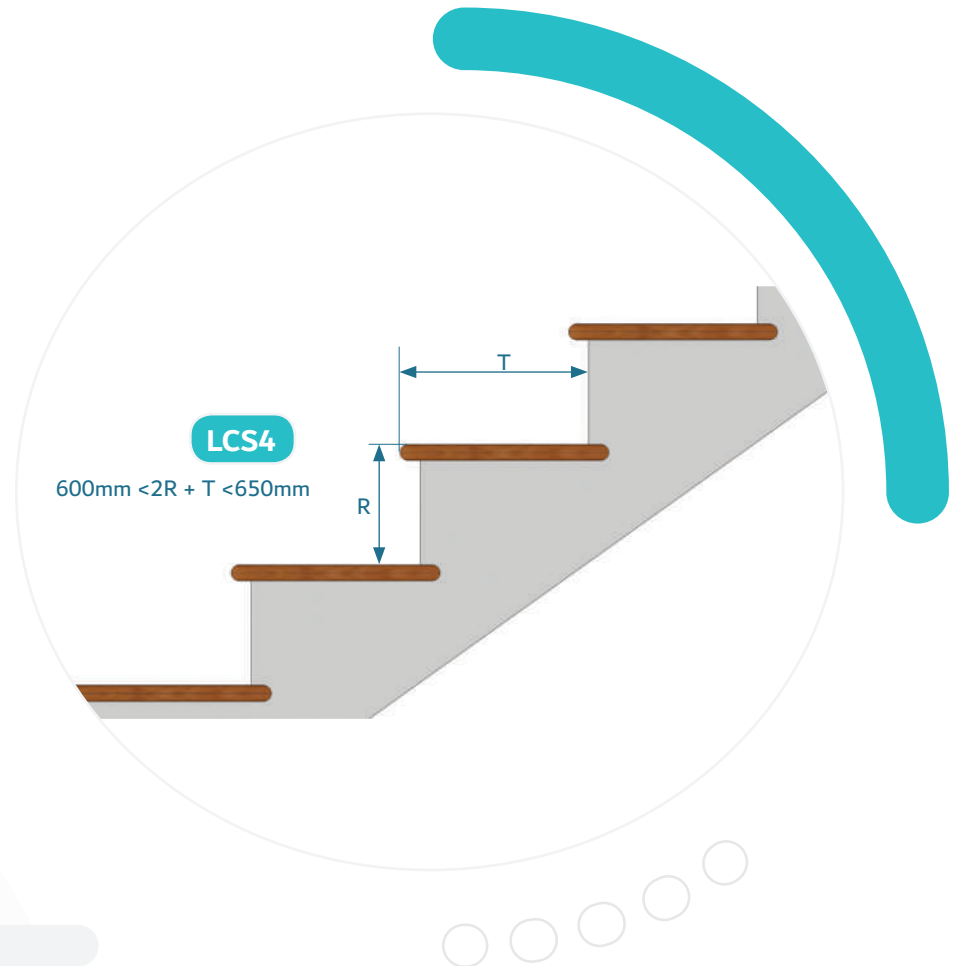
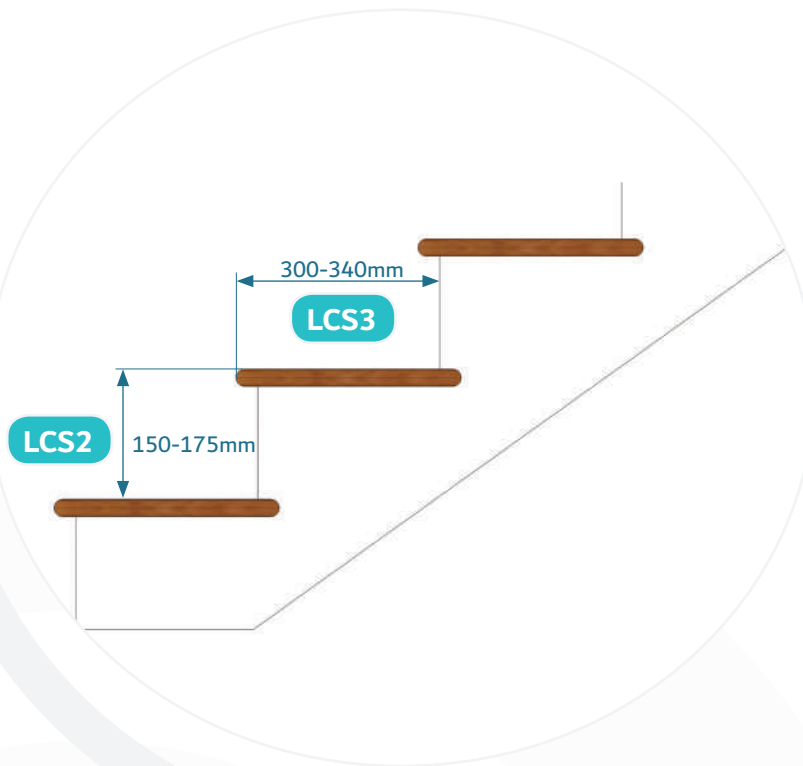


LCR10

No door located at  $\leq 1500\text{mm}$  from start and or end of each ramps



**LCS1** Availability of alternative elevator accompanied with internal staircase in more than one story building

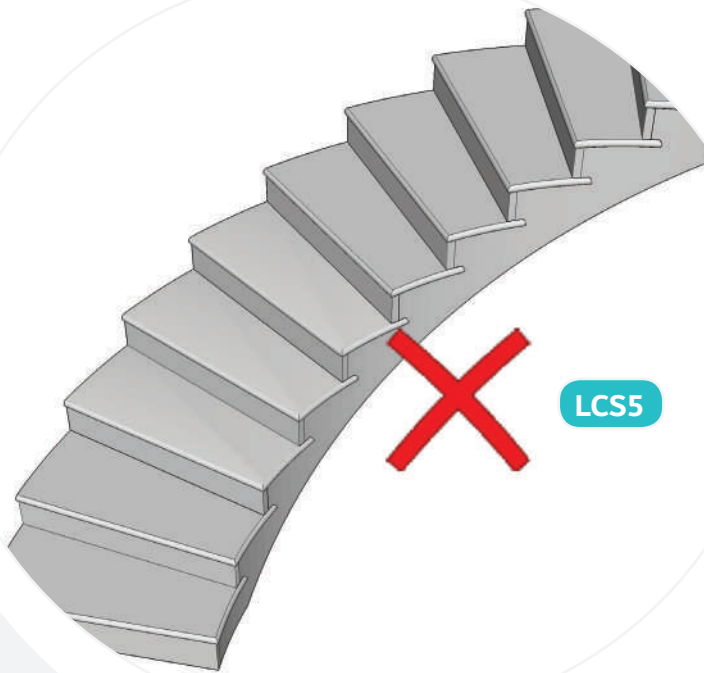


**LCS2** Steps rises between 150 - 175mm

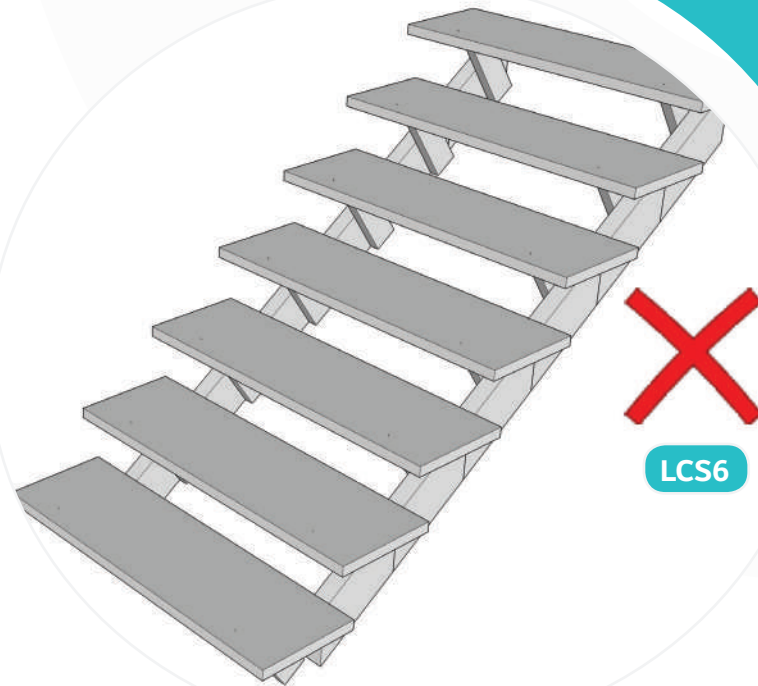
**LCS3** Steps stair treads between 300 - 340mm

**LCS4** Steps rise (R) and Tread (T) fulfil:  $600\text{ mm} < 2R + T < 650\text{mm}$

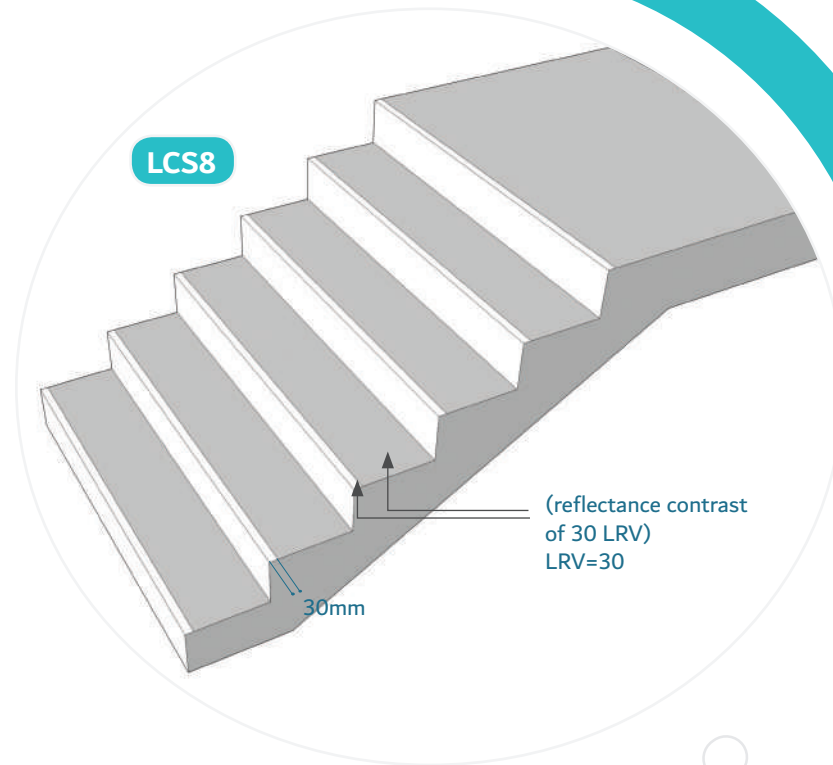
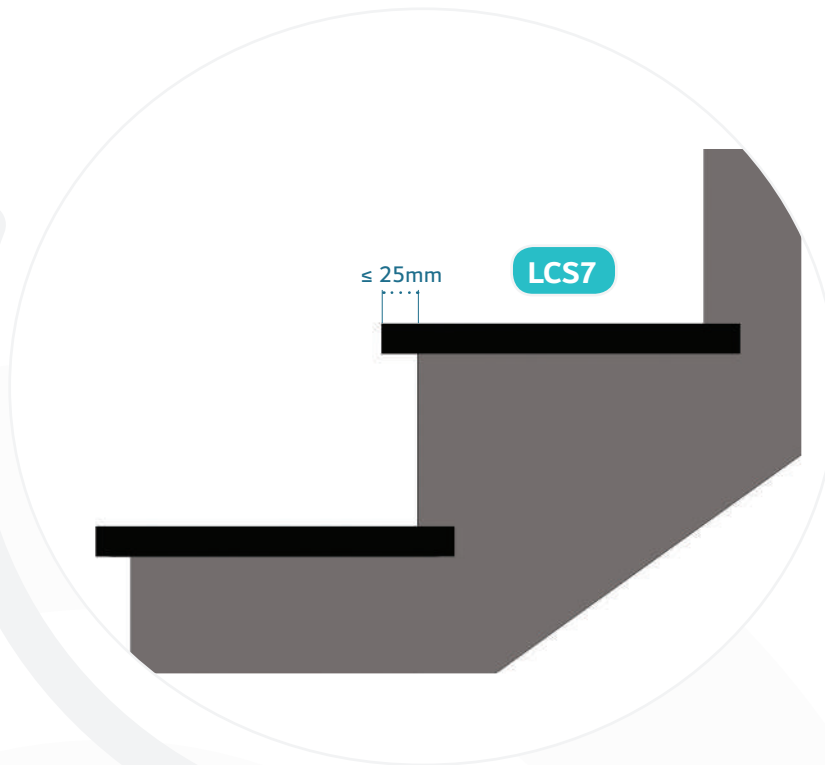




**LCS5** No curved stairs



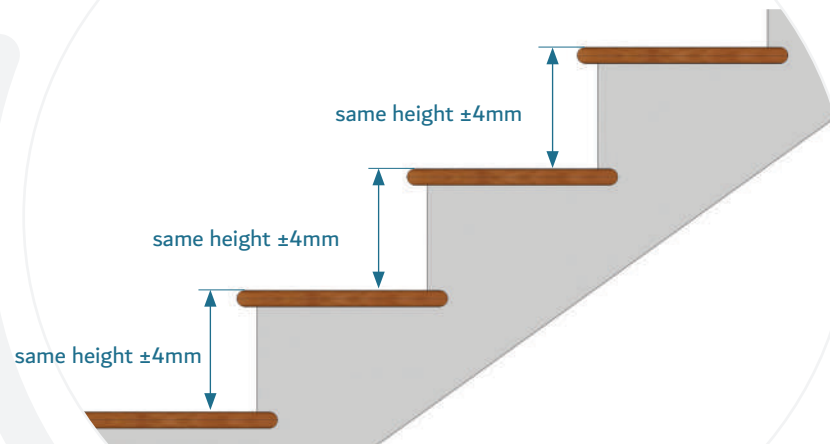
**LCS6** No open risers or discontinued treads



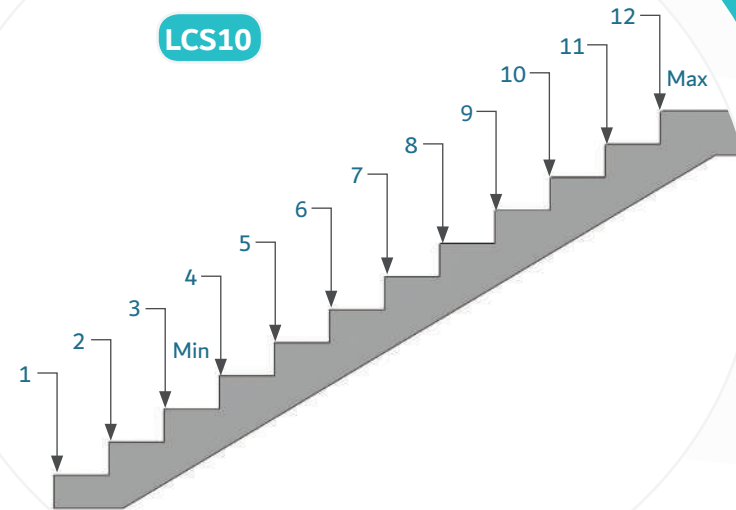
**LCS7** Steps with nosing ≤ 25 mm

**LCS8** 30 mm from the step edge space along the stair flight width shall present a reflectance contrast of 30 LRV

LCS9



LCS10

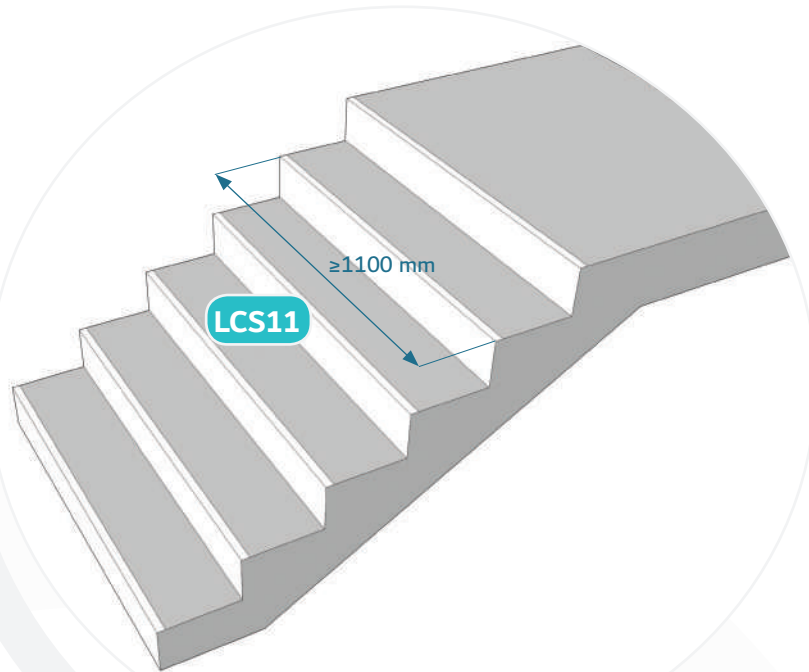


LCS9

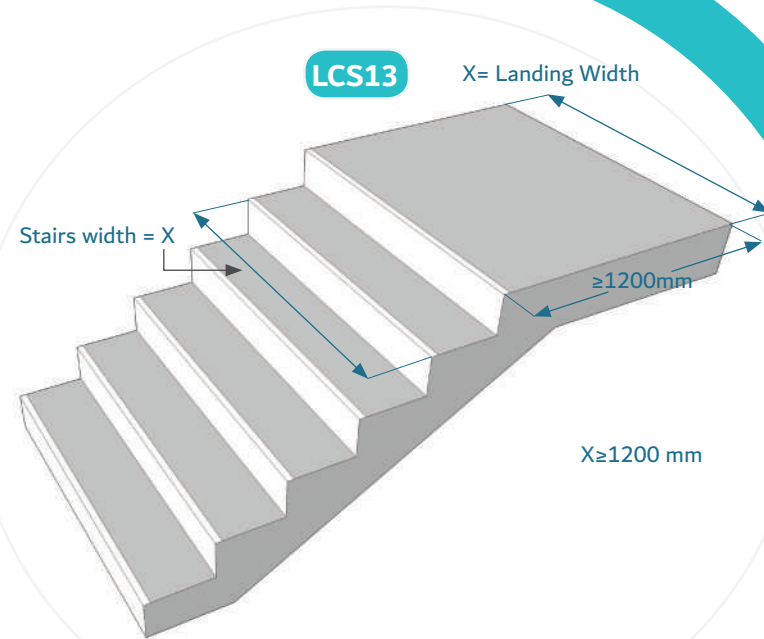
Steps with same height with a  $\pm 4\text{mm}$  tolerance

LCS10

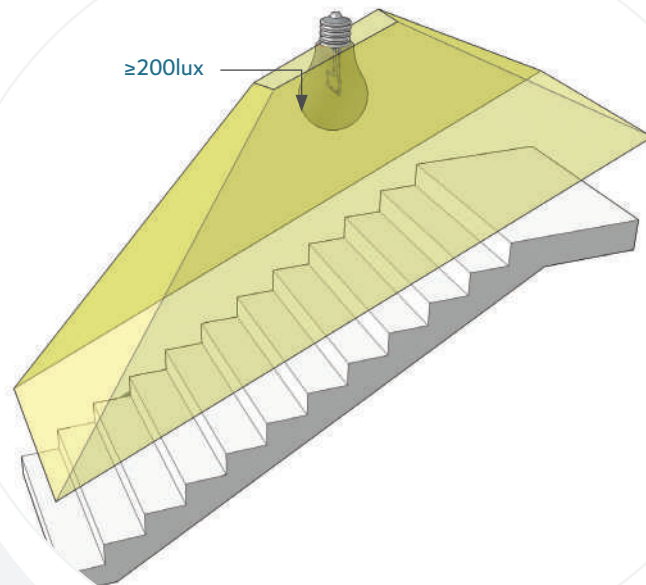
Stair flights steps number between 3 and 12



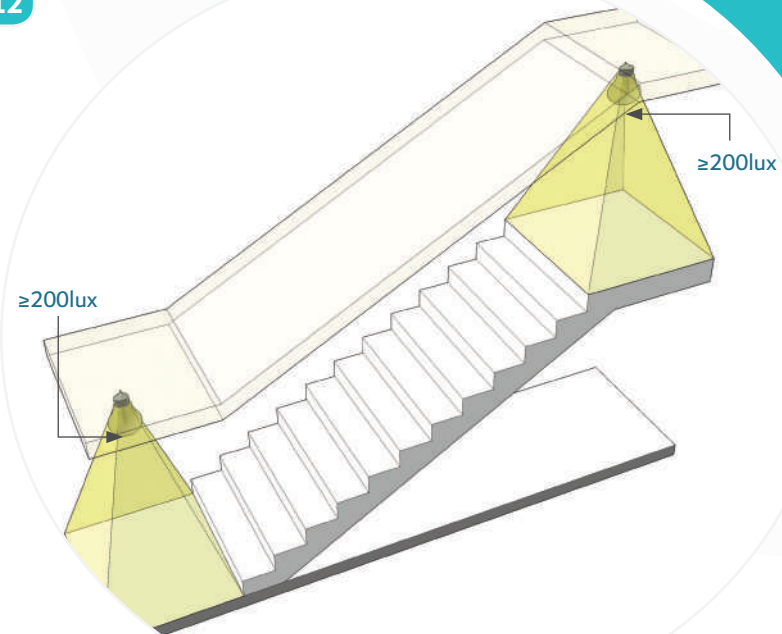
**LCS11** Usable stair flight width  $\geq 1100 \text{ mm}$



**LCS13** Landing with same width of stair and a length  $\geq 1200 \text{ mm}$



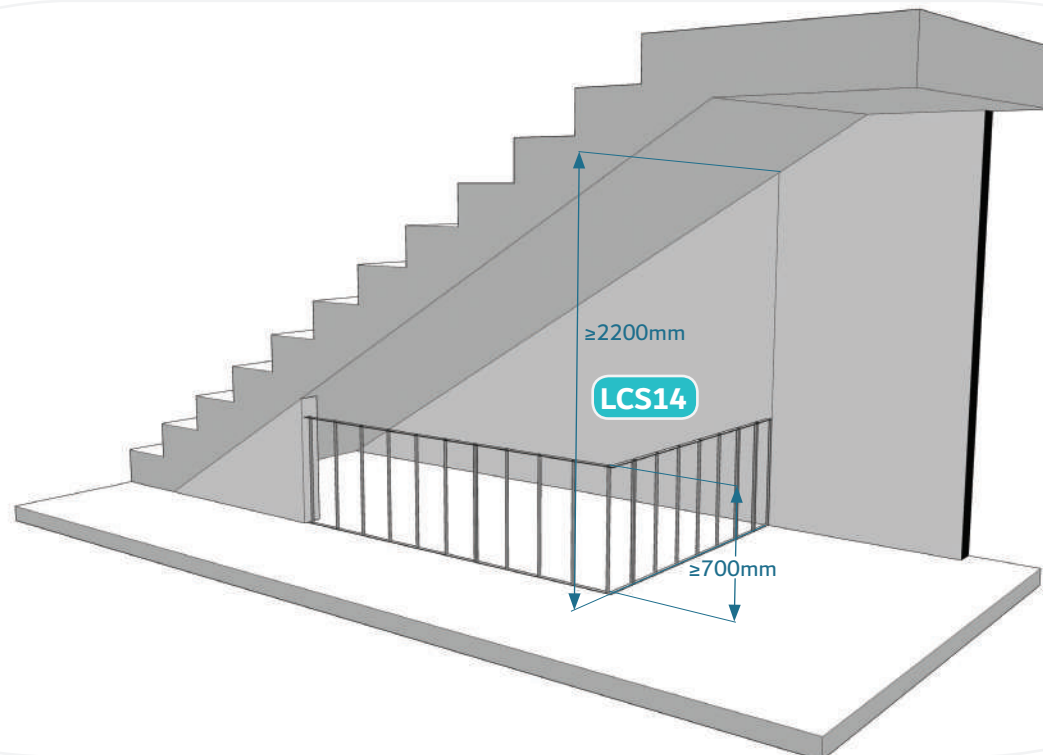
LCS12

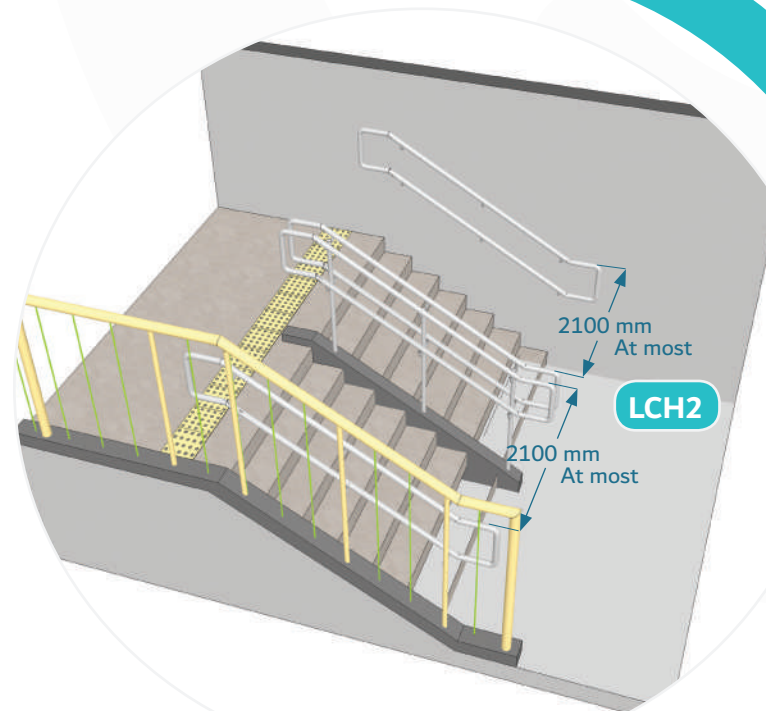
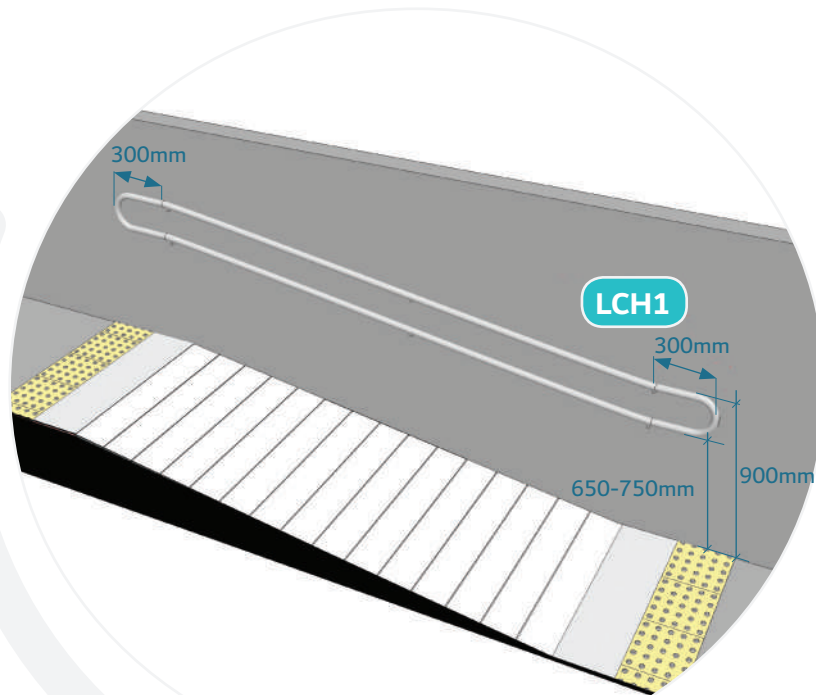


LCS12

Illumination at top and bottom of the flight  $\geq 200\text{lux}$

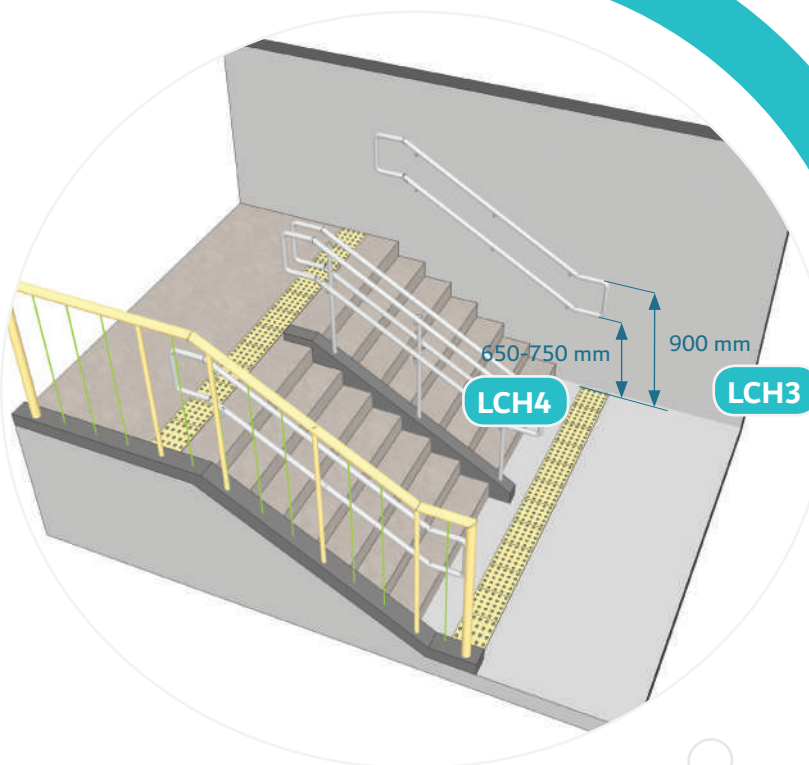
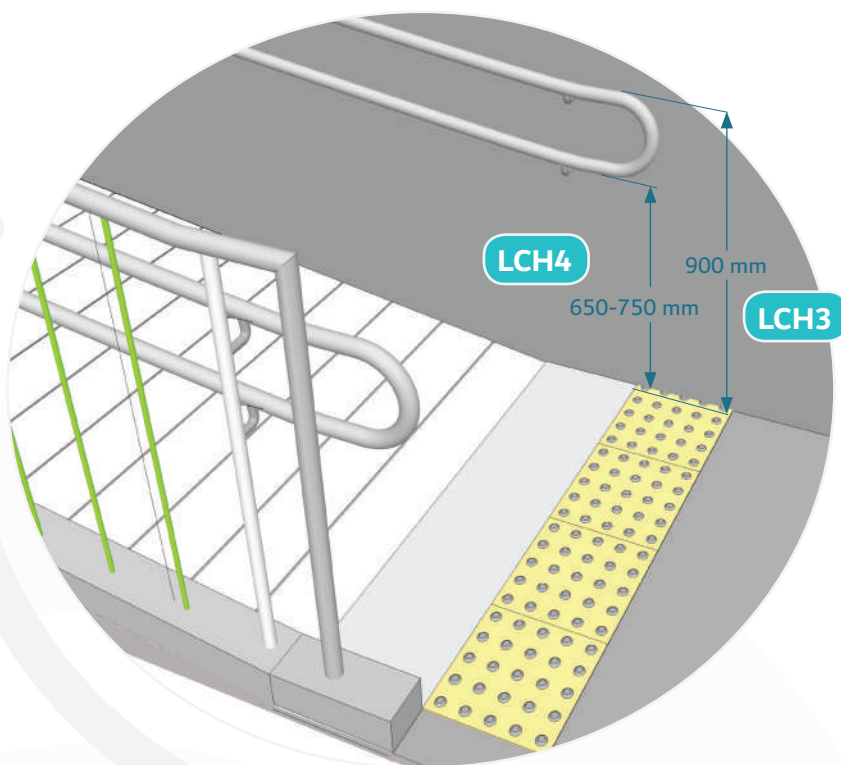


**LCS14**Empty space with height  $< 2200\text{mm}$  under the stair is protected



**LCH1** 300 mm horizontal extension at its ends

**LCH2** Presence of intermediate handrail for stairs to keep distance of at most 2100mm

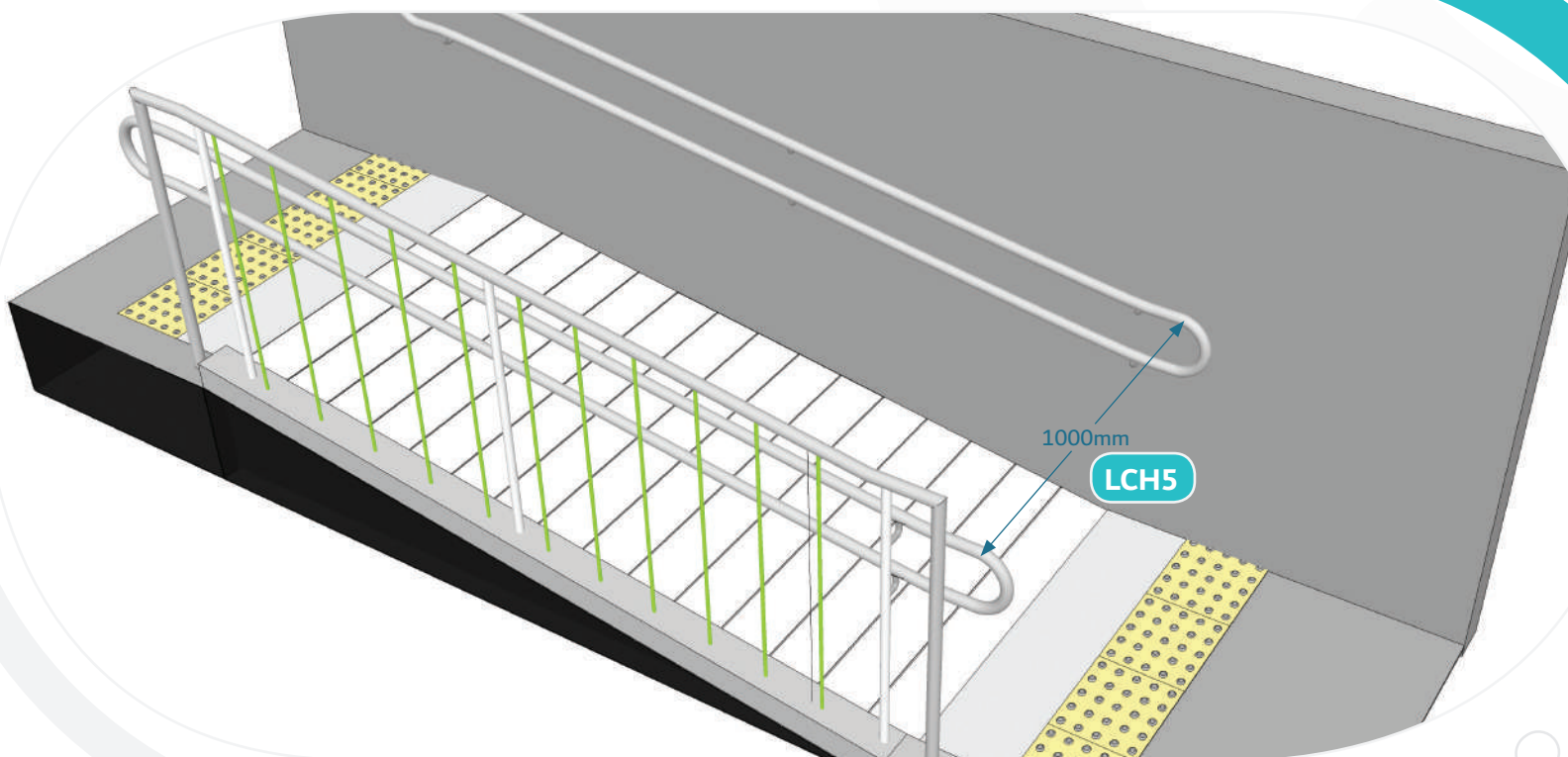


LCH3

Mounted at height of 900mm

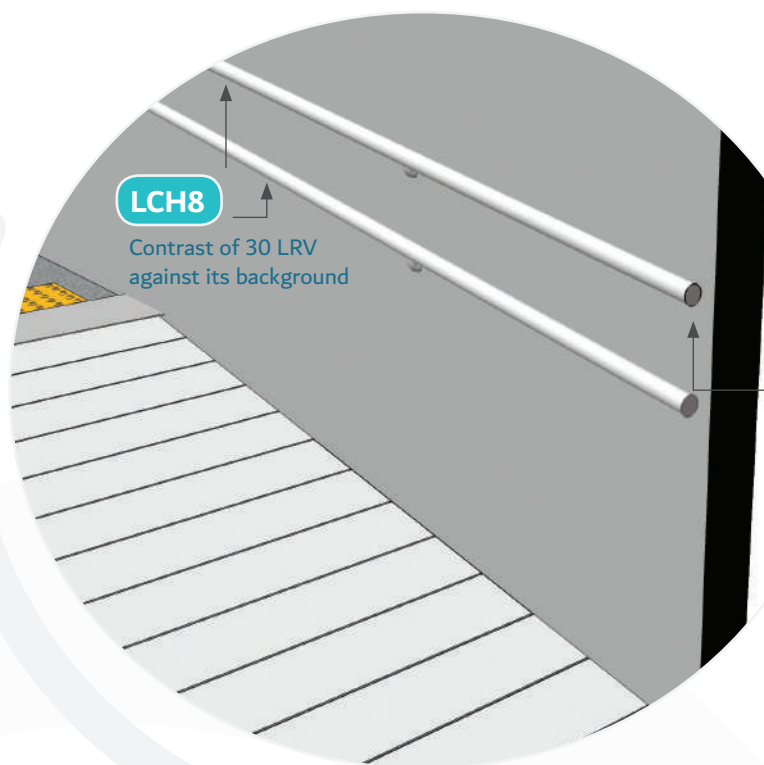
LCH4

Additional handrail at a height between 650 - 750mm

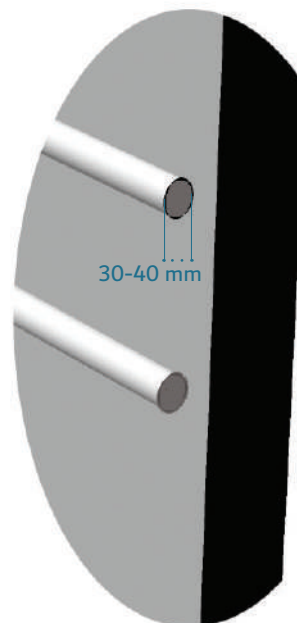


LCH5

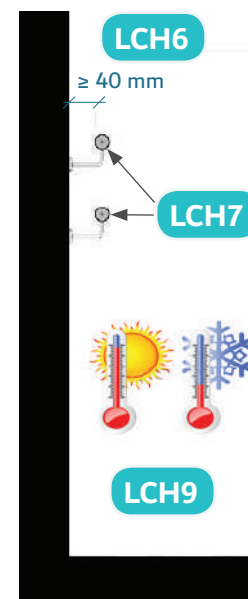
The distance between both sides of handrails is 1000mm



LCH6



LCH6



LCH9

LCH6

Rounded section of 30 - 40 mm separated from the wall with a distance  $\geq 40$ mm

LCH8

Contrast of 30 LRV against its background

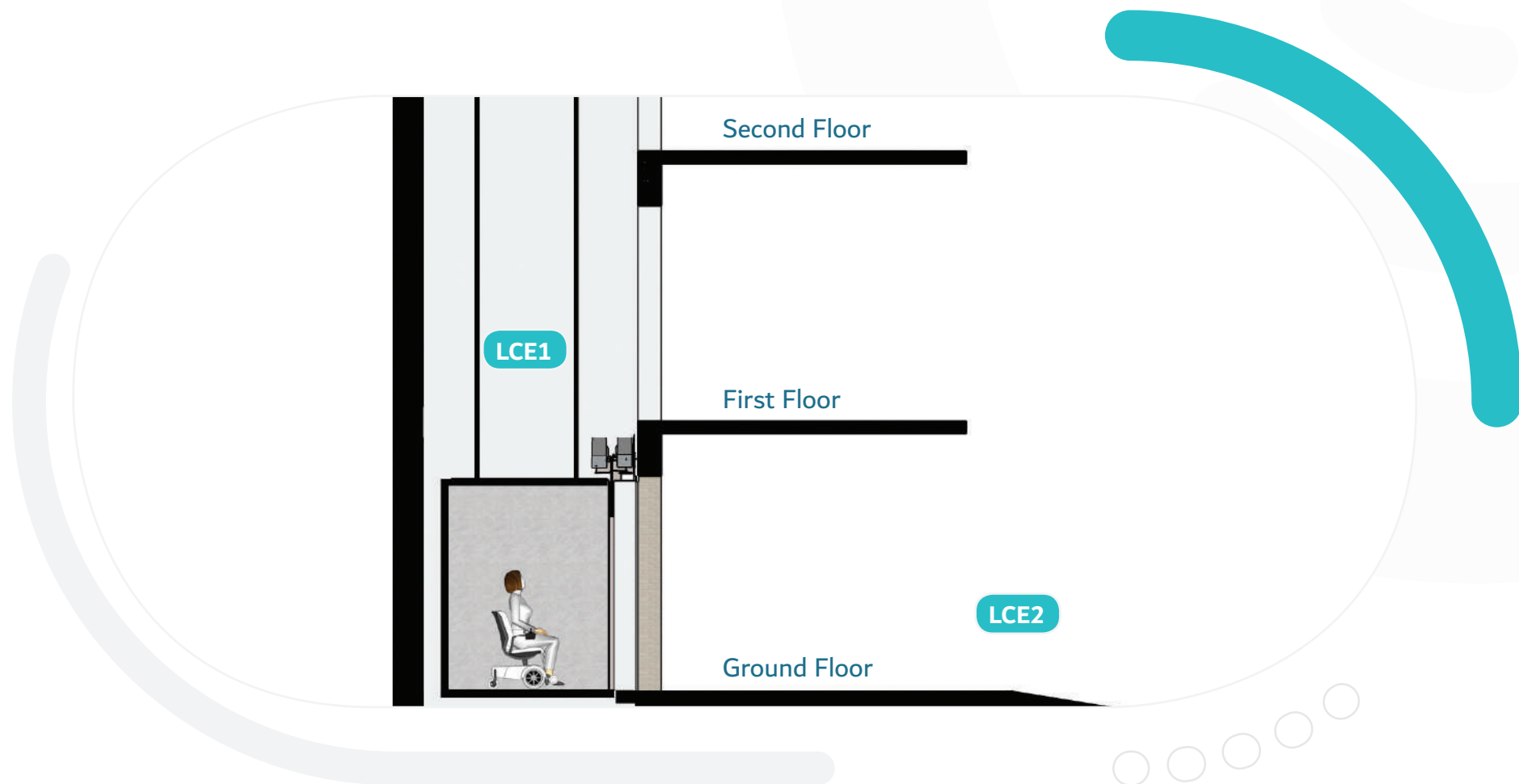
LCH7

Handrails designed to allow continuity of gripping without interfering its mounting system

LCH9

Handrails made of comfortable materials against heat and coldness



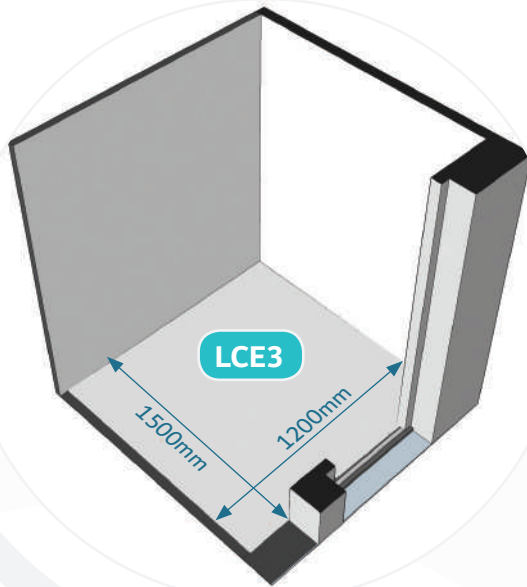


LCE1

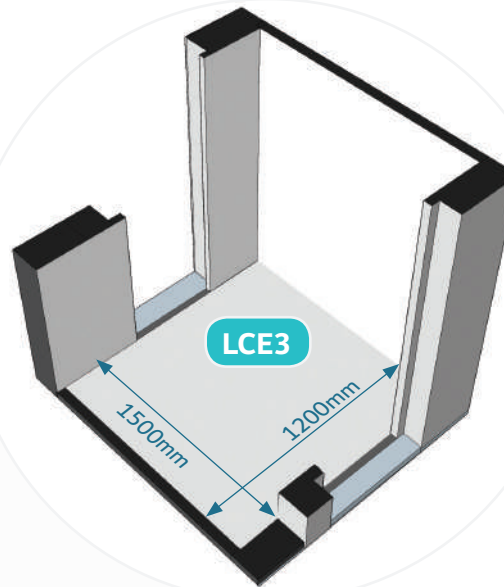
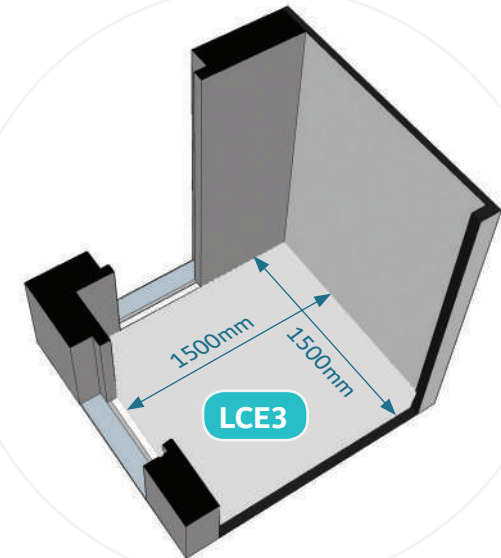
Present in buildings with more than one floor

LCE2

Accessible from ground floor in public areas



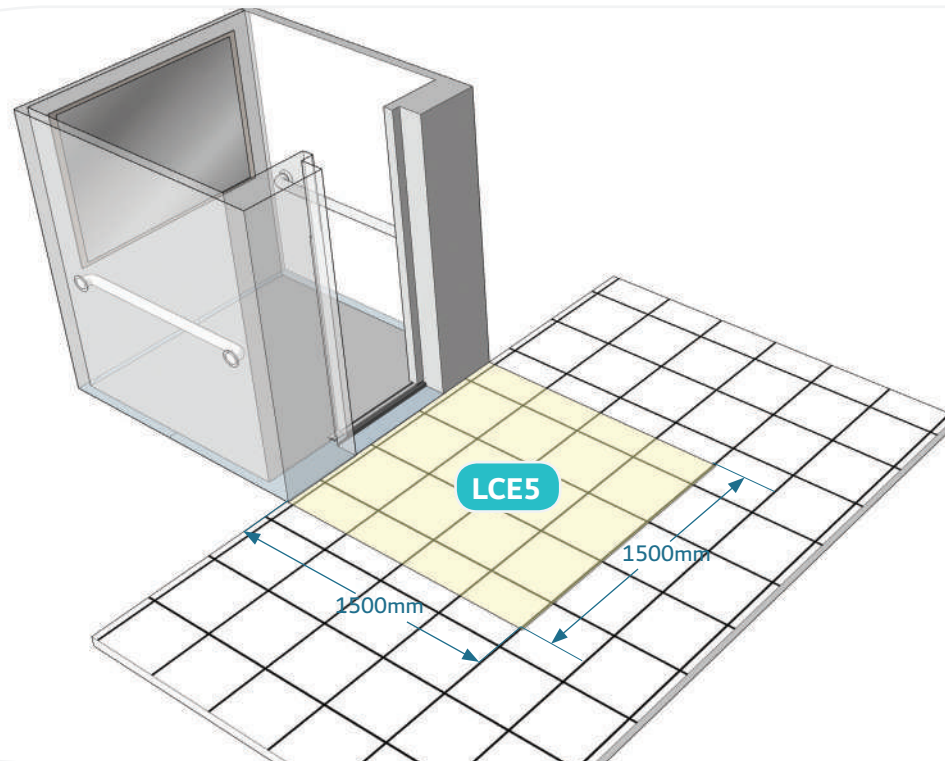
One door

Two Doors  
(opposing)Two Doors  
(in 90°)**LCE3**

Dimensions shall comply: One door  $\geq 1200 \times 1500\text{mm}$  - Two opposing doors  $\geq 1200 \times 1500\text{mm}$   
- Two doors in  $90^\circ \geq 1500 \times 1500\text{mm}$

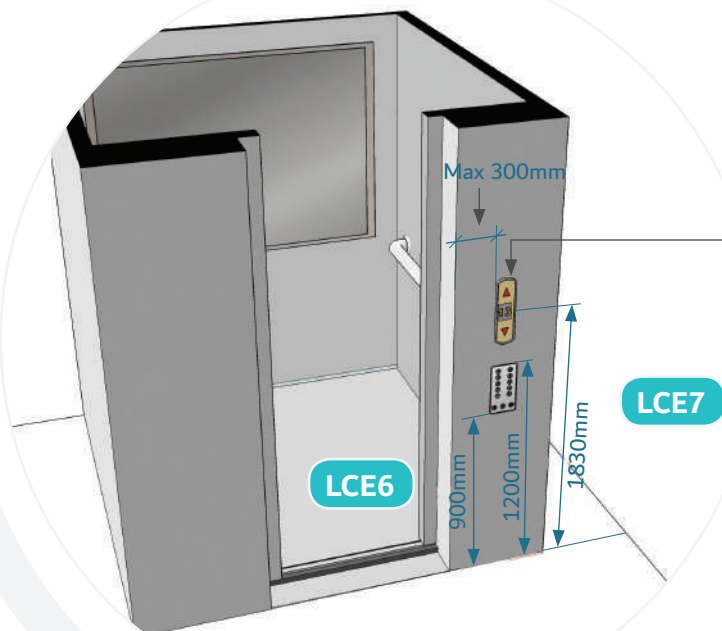


**LCE4** Automatic doors with a width of 900 mm and colour contrast against walls



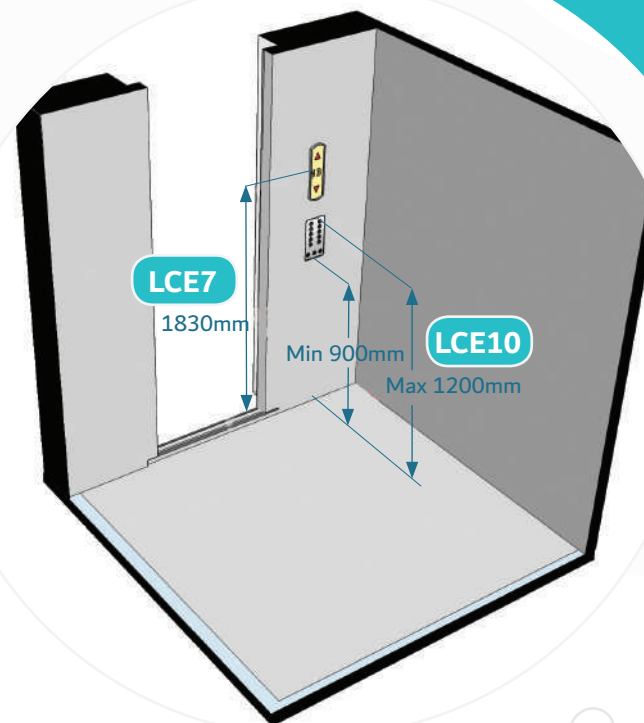
LCE5

Maneuvering space of 1500 x 1500mm in front the elevator access



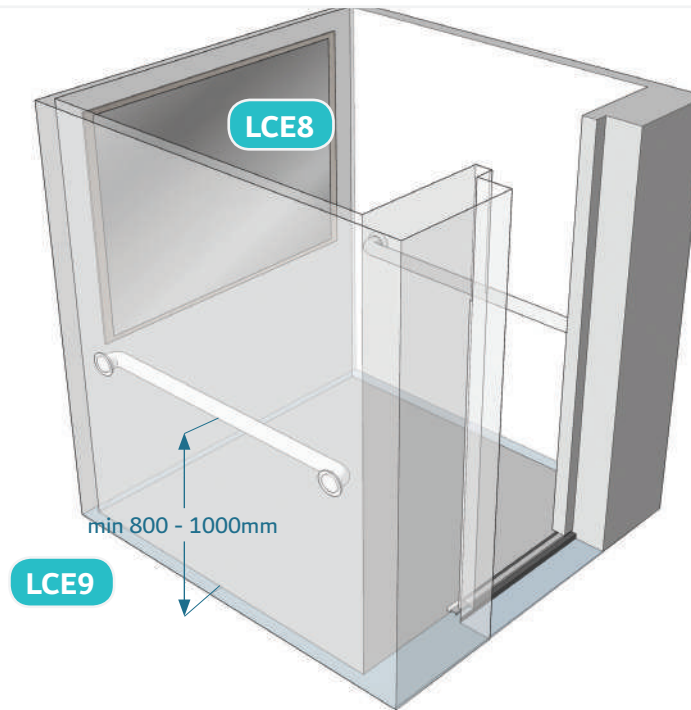
**LCE6** Elevator calling buttons height between 900 - 1200mm

**LCE10** Inside the cabin buttons height between 900 - 1200mm



**LCE7** Floor indicator located at 1830mm



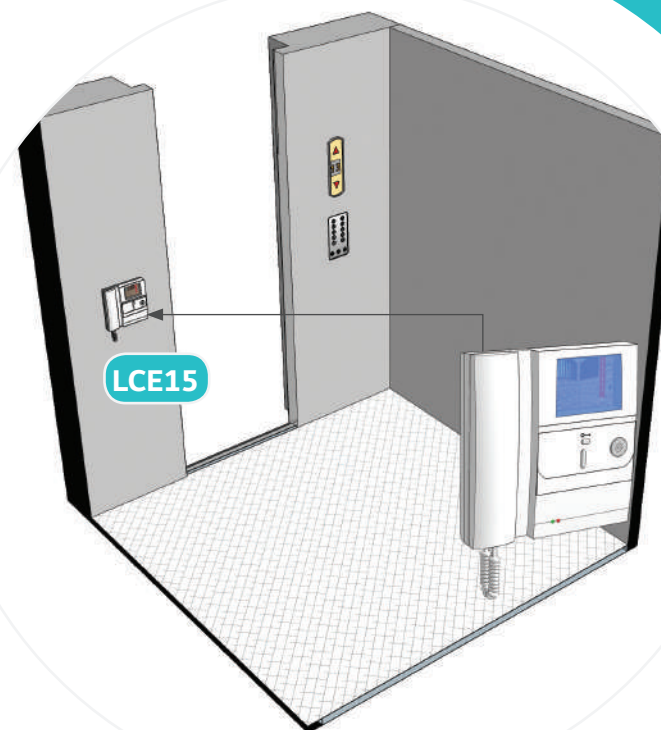
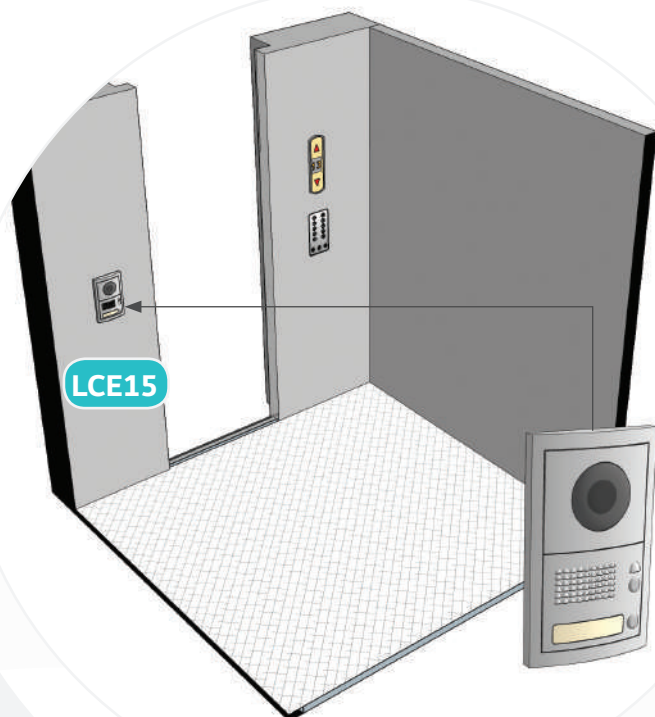


**LCE8** Only one mirror inside the cabin on the wall opposite to the door over the handrail level

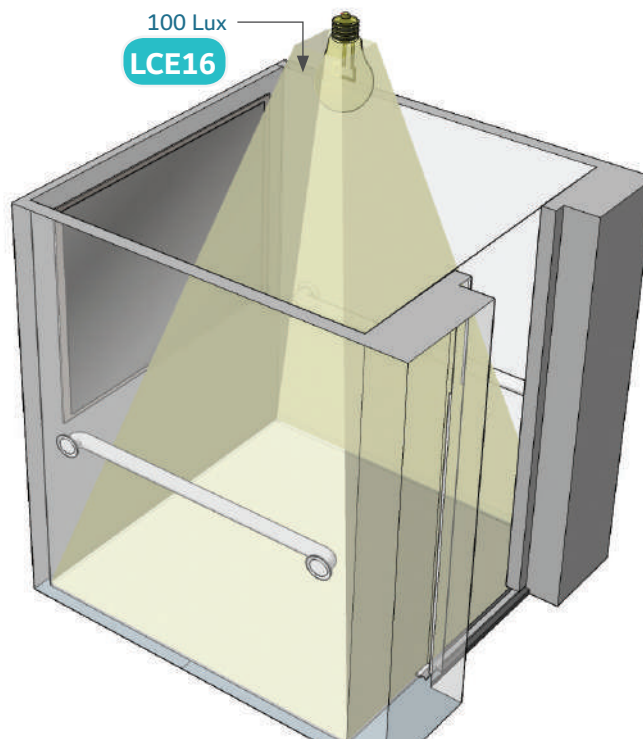
**LCE9** Inside the cabin, minimum two handrails at a height of 800 mm to 1000mm from the floor



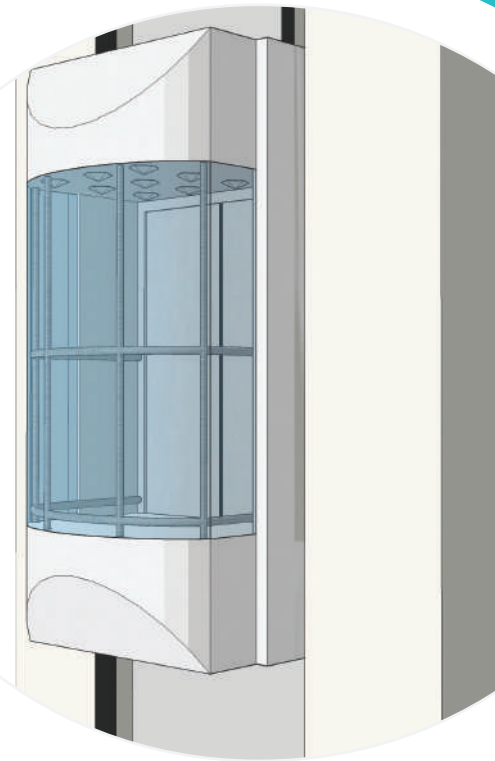
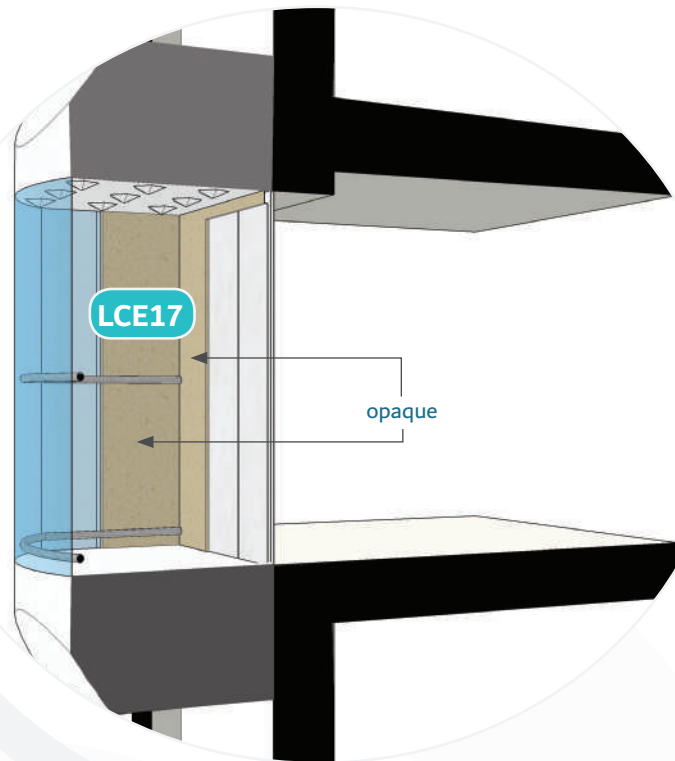
- LCE11** The ground floor button protruded  $\geq 3\text{mm}$  distinguished with a green color
- LCE12** Call buttons distinguished with icons and color contrast against background
- LCE13** Buttons provide two-channel feedback/ visual & acoustic OR visual & tactile
- LCE14** Emergency phone number is indicated by graphic and tactile



**LCE15** CCTV or intercom or alternative system

**LCE16**

Light on the ceiling only with 100 lux

**LCE17**

In panoramic elevators, an opaque wall or corner is provided





**LCE18** Automatic doors open at least 3 seconds

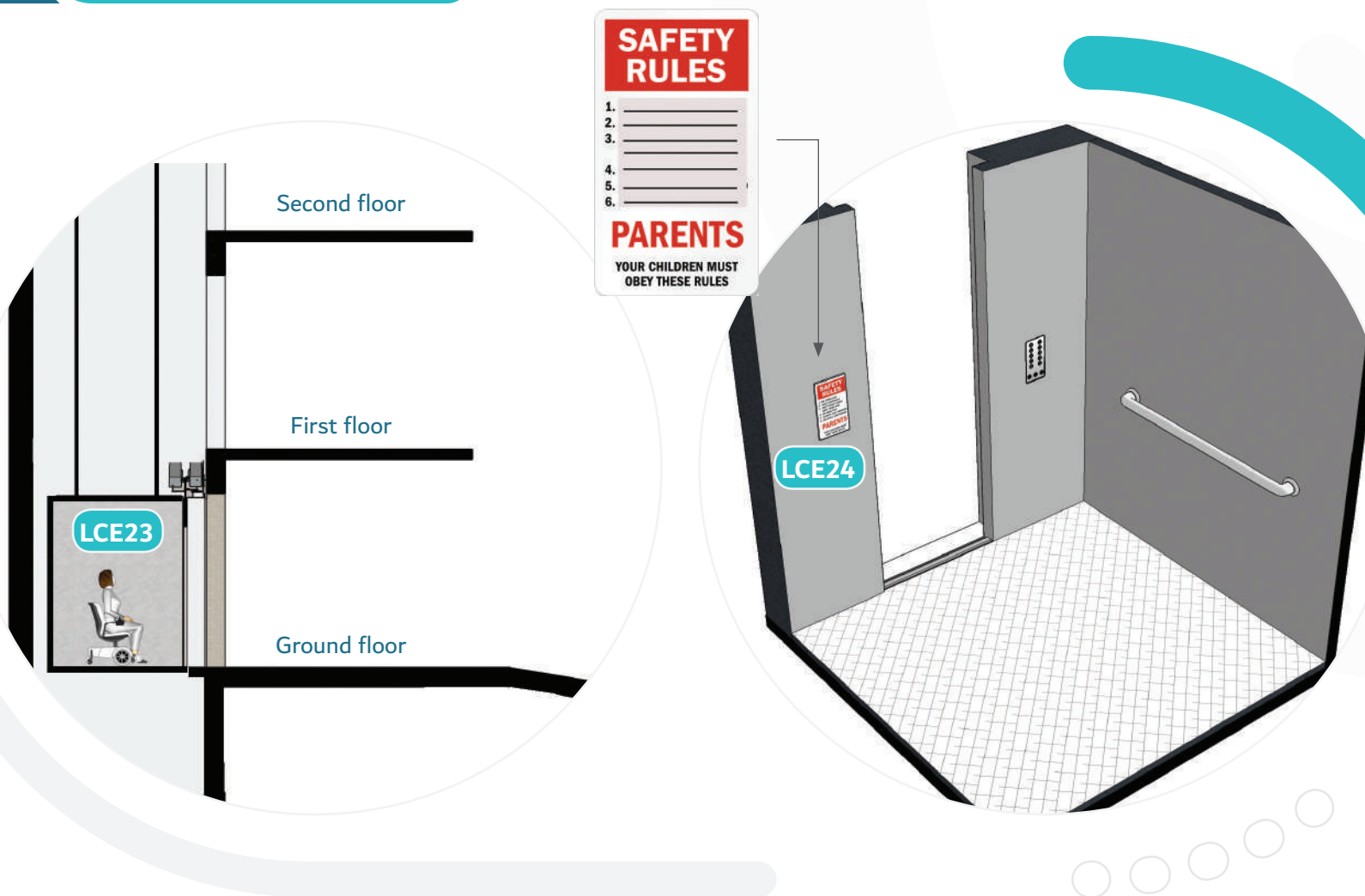
**LCE20** Door force less than 135N

**LCE19** Doors provided with sensors at two levels open automatically

**LCE22** Braille & tactile signage on the door jamb at 1500mm height

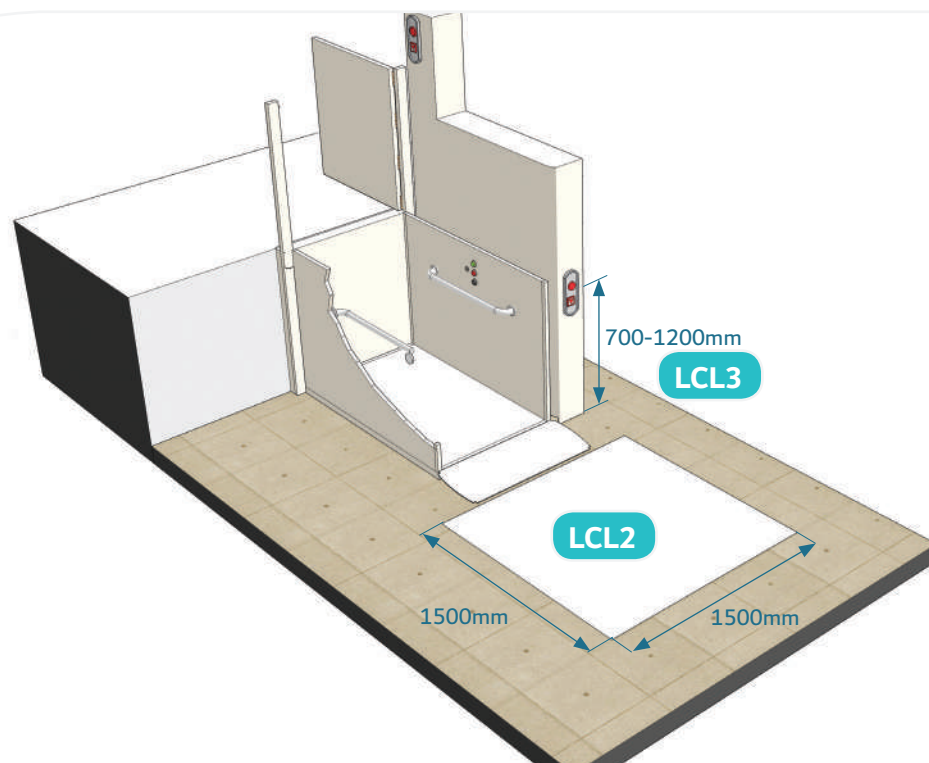
**LCE21**

Indication sign of accessible elevator direction when various options of vertical circulation



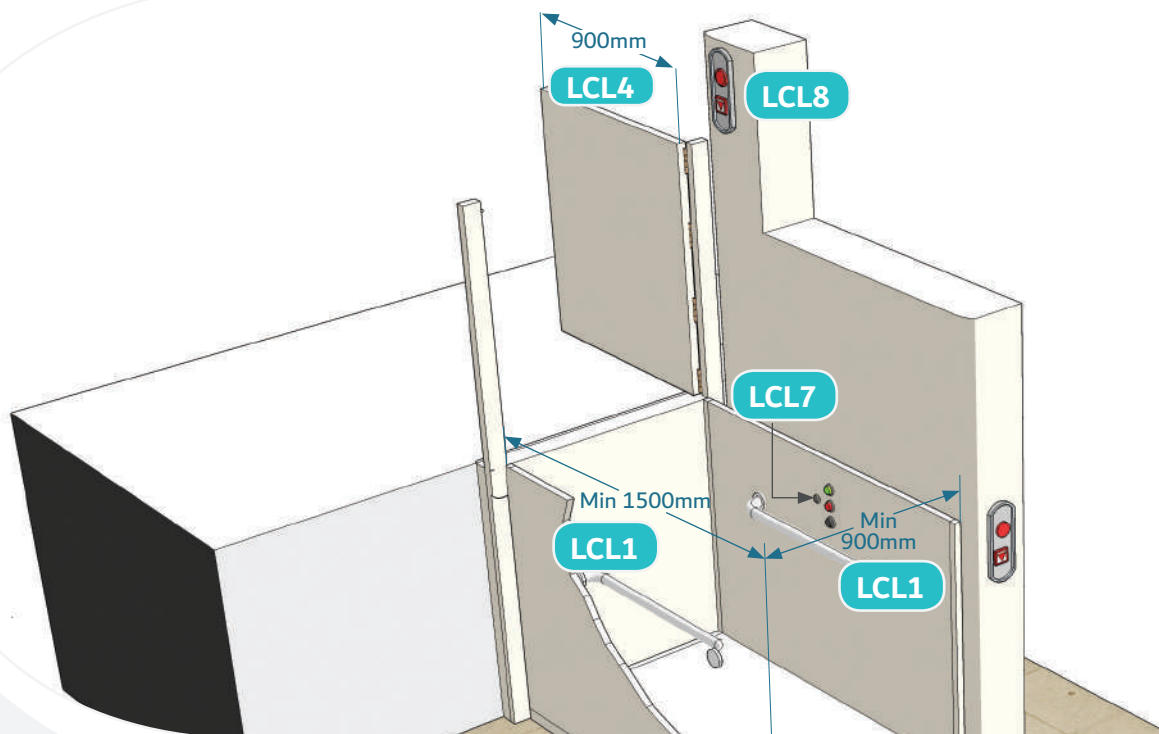
**LCE23** Audible signal or voice announcement when reaching each floor

**LCE24** Advisory signs indicating safety procedures and other regulatory information



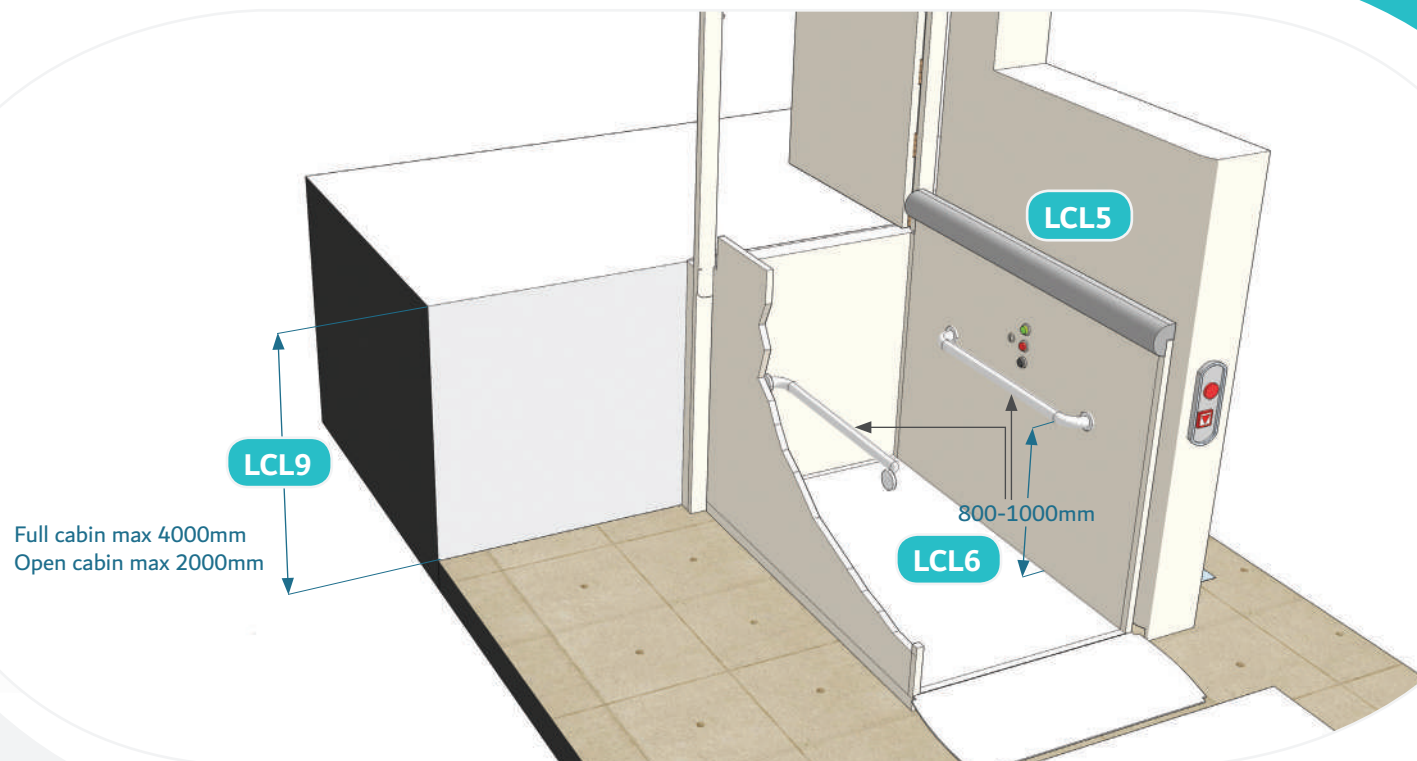
**LCL2** Manoeuvring space of 1500 x 1500mm in front the lift access

**LCL3** Calling button height between 700 - 1200mm



- LCL1** Dimensions of the cabin on min. 900 x 1500mm
- LCL4** Doors width of 900mm
- LCL7** Inside the cabin, continuous pressing buttons operable with the elbow
- LCL8** Additional external control by authorized person

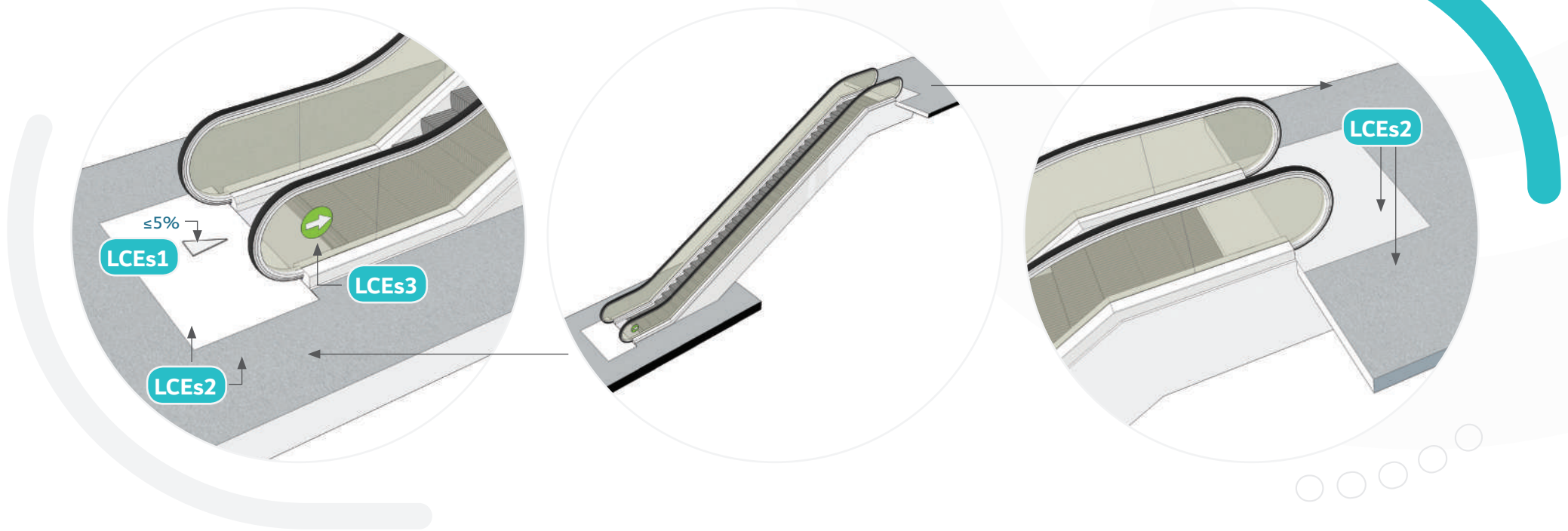




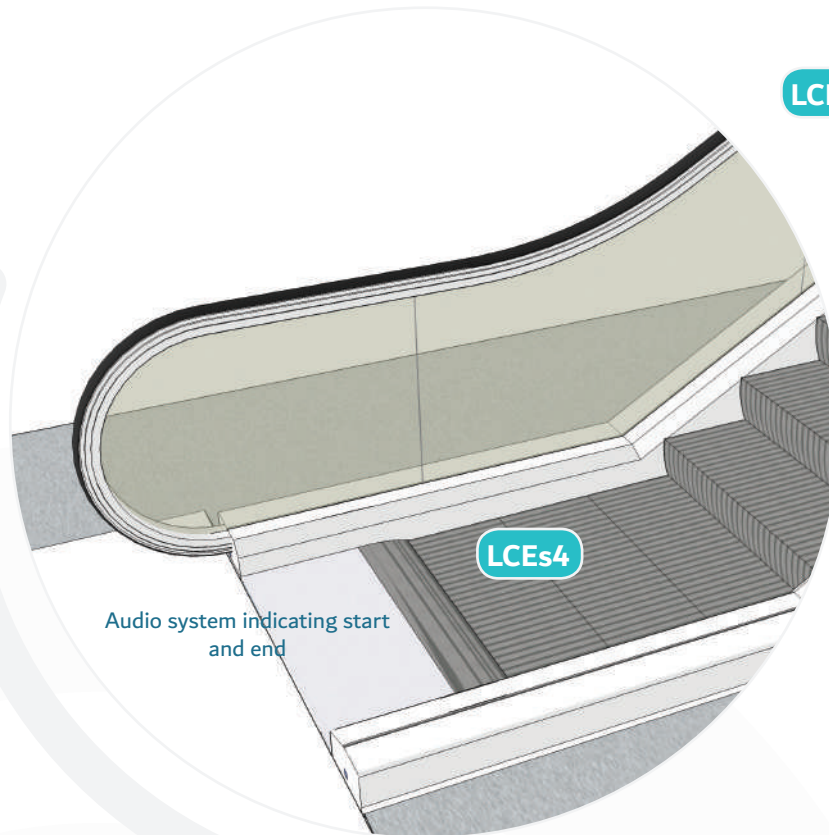
**LCL5** Cabin with side protections to isolate users from side walls

**LCL6** Inside the cabin, minimum two handrails at a height of 800mm to 1000mm from the floor

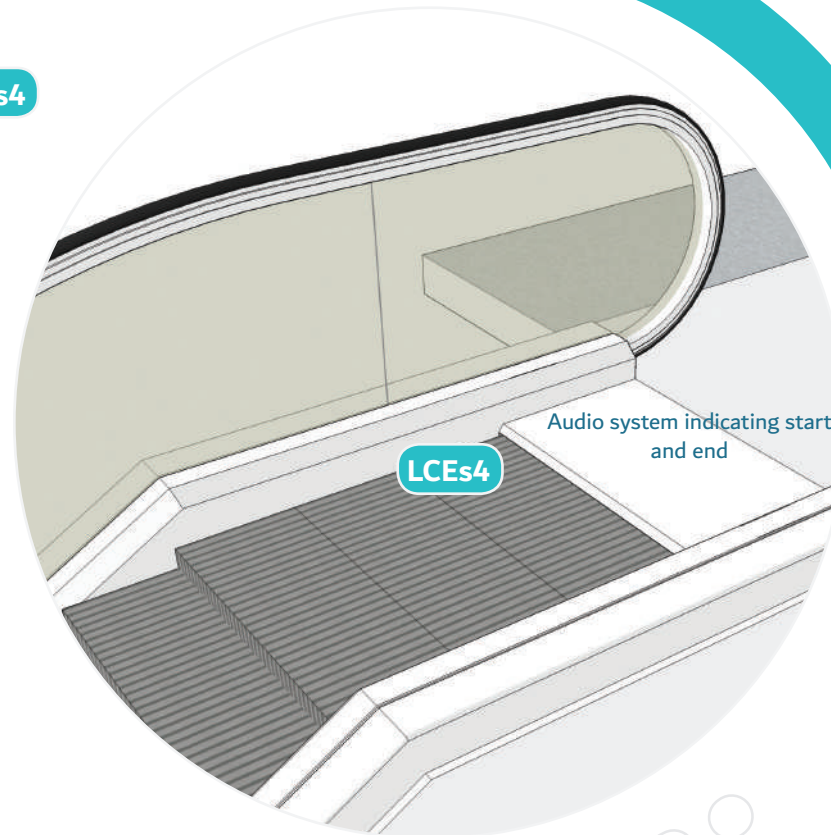
**LCL9** 2000mm travel height if open cabin- 4000mm height if full cabin



- LCEs1** Moving surface gradient  $\leq 5\%$
- LCEs2** Contrast pavement with surrounding at the beginning and end of traveller
- LCEs3** Marked travel direction



LCEs4



LCEs4

LCEs4

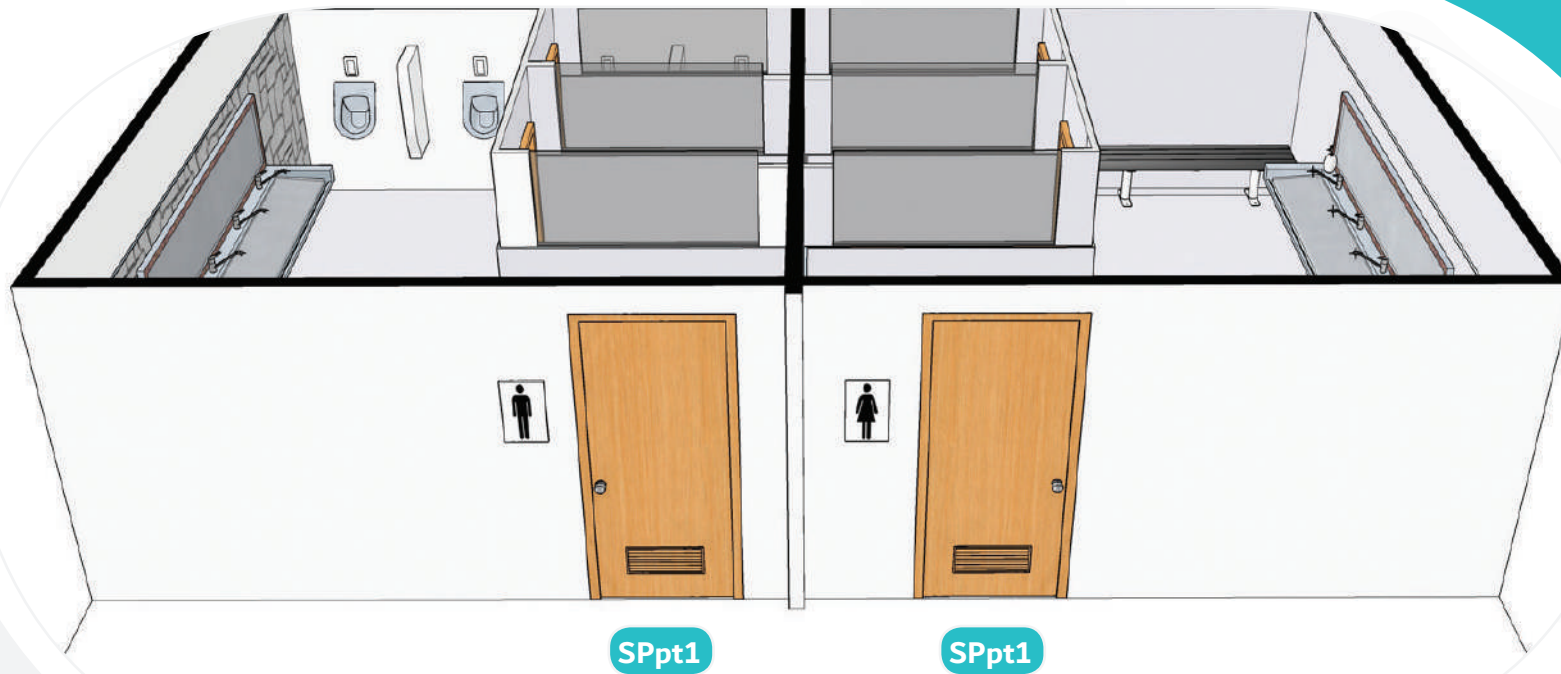
Audio system indicating start and end



# Sanitary Provisions

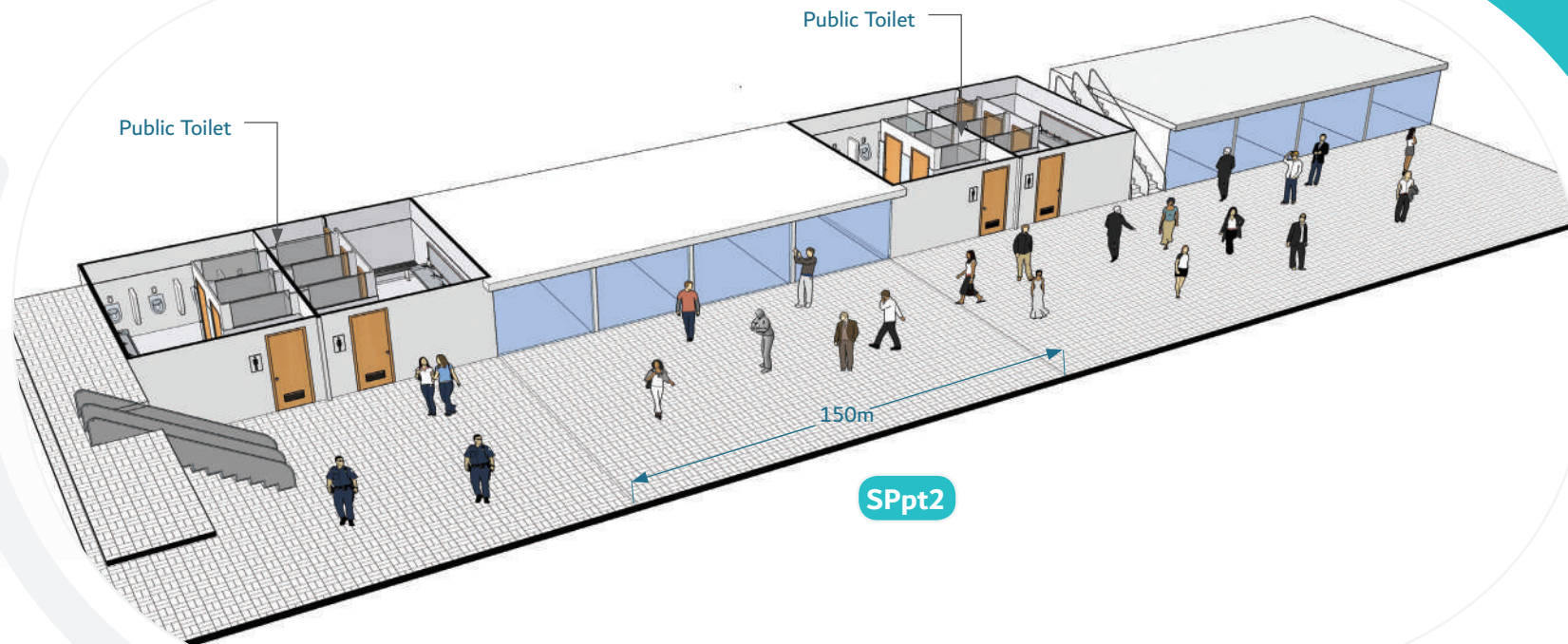






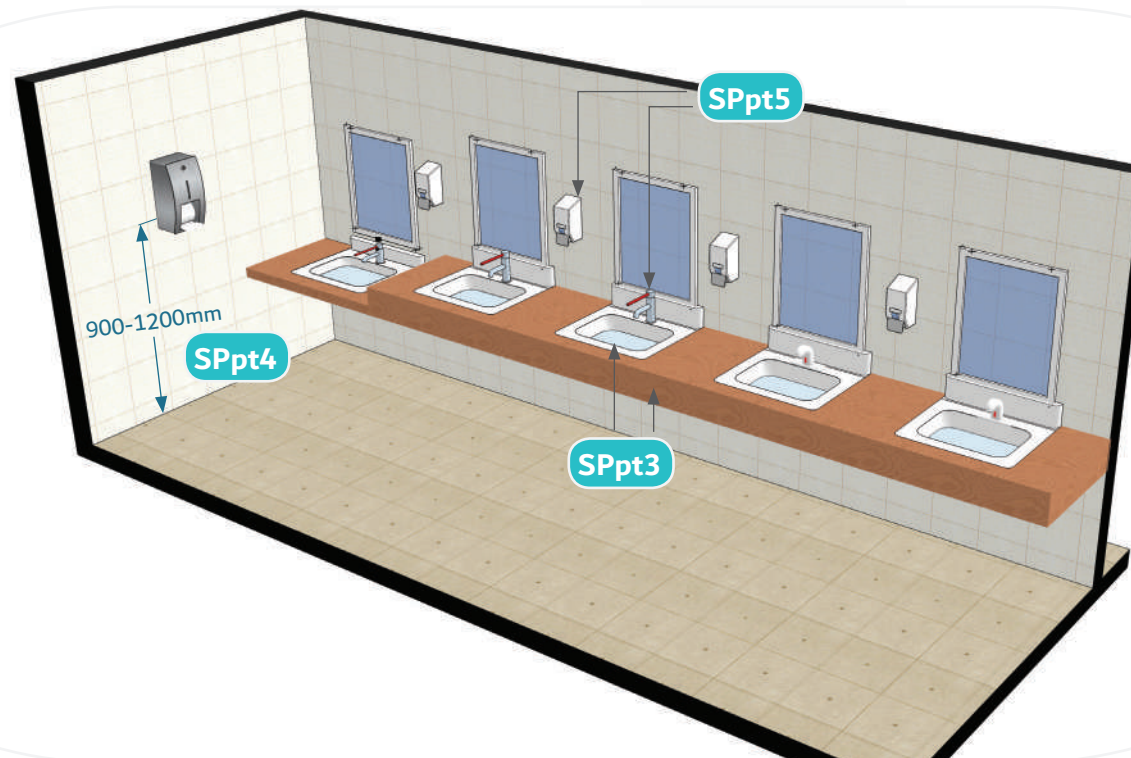
SPpt1

Public toilets for male and female provided

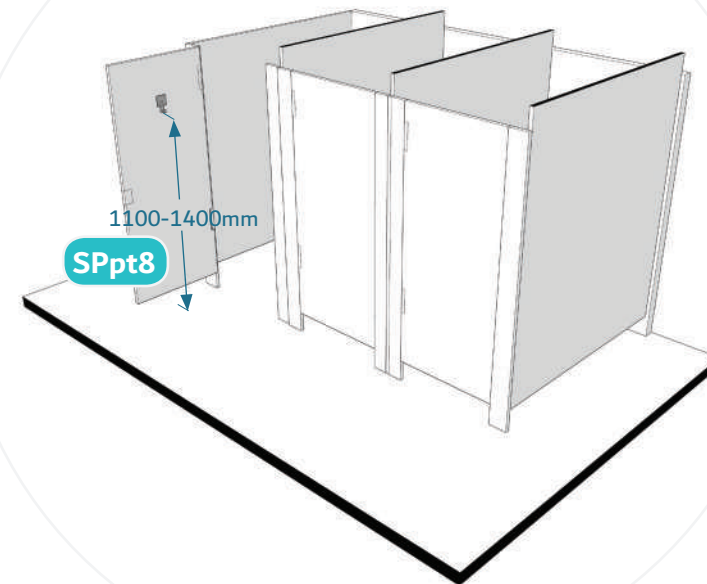
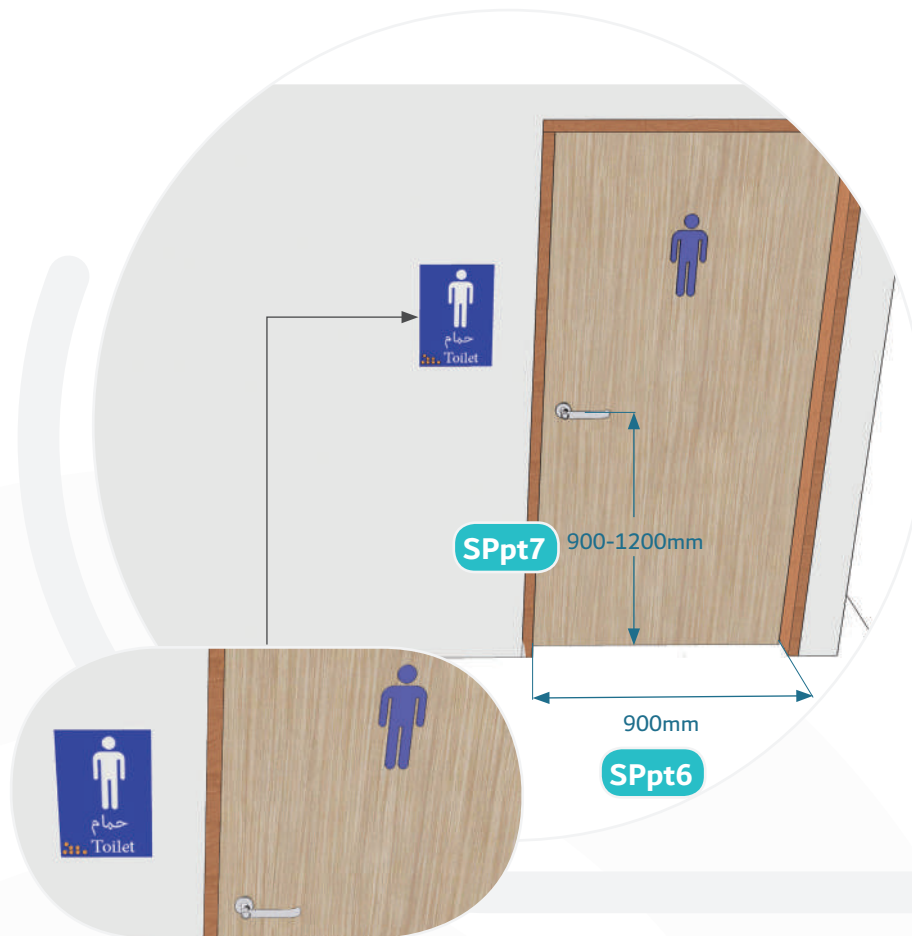


SPpt2

Public toilet within 150m distance



- SPpt3** Furniture have a reflectance contrast of at least 30 points LRV
- SPpt4** Toilet appliances height between 900 - 1200mm
- SPpt5** Toilet appliances automatically activated or operable with the elbow



SPpt6

Door clear width 900mm and comply door requirements

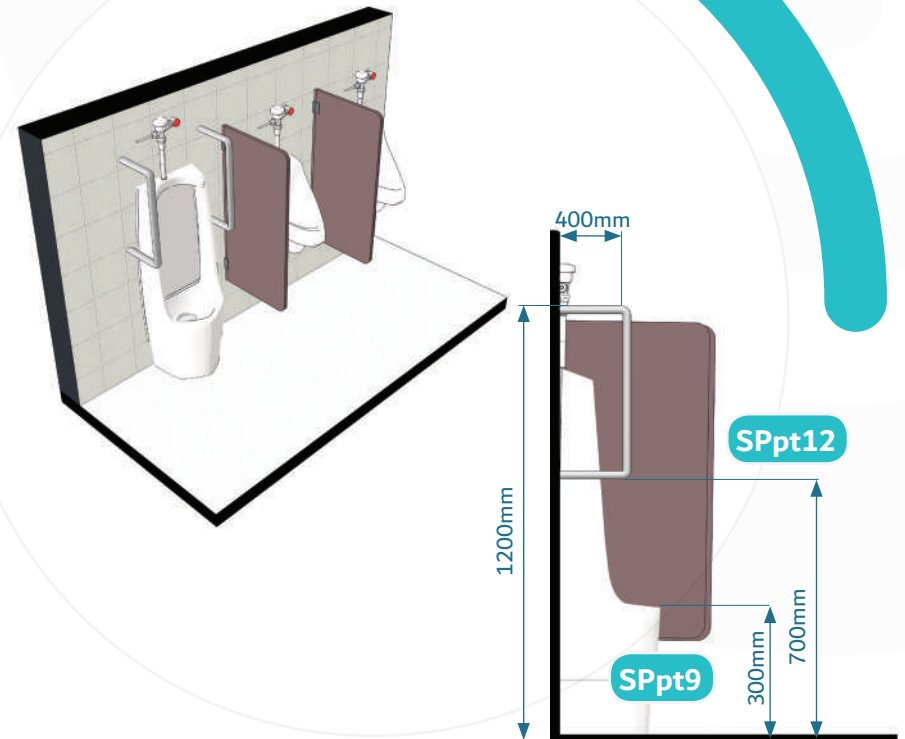
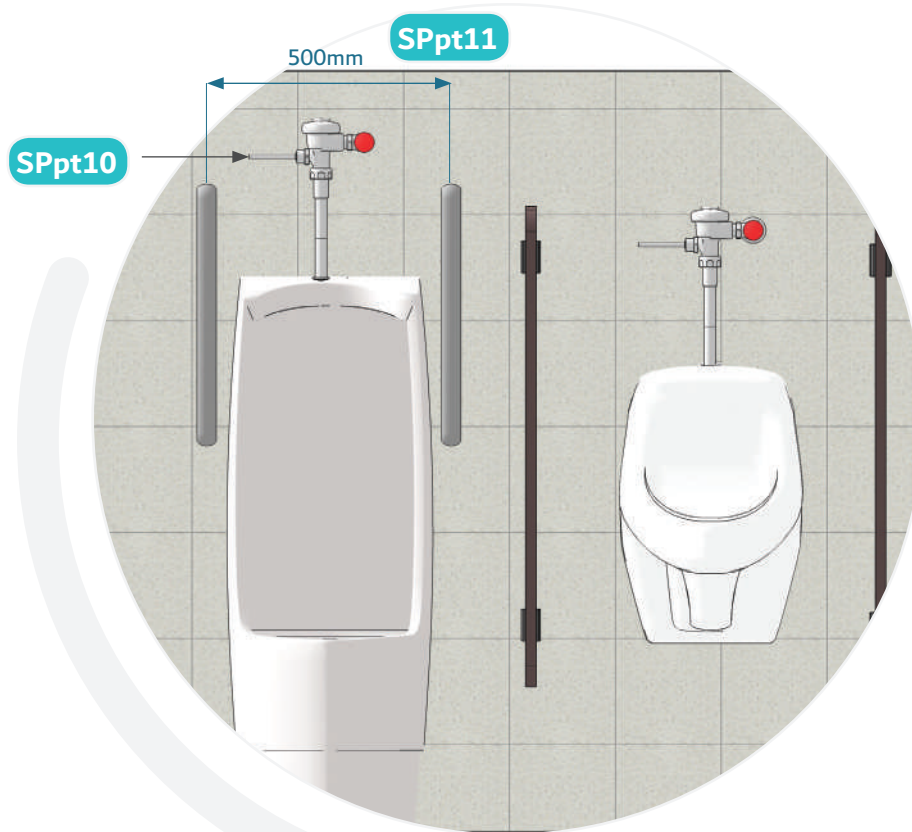
SPpt7

Door latches operable with the elbow installed between 900 - 1200mm

SPpt8

Coat hanger on the door from inside the all cabin doors in the public toilets between 1100 - 1400mm





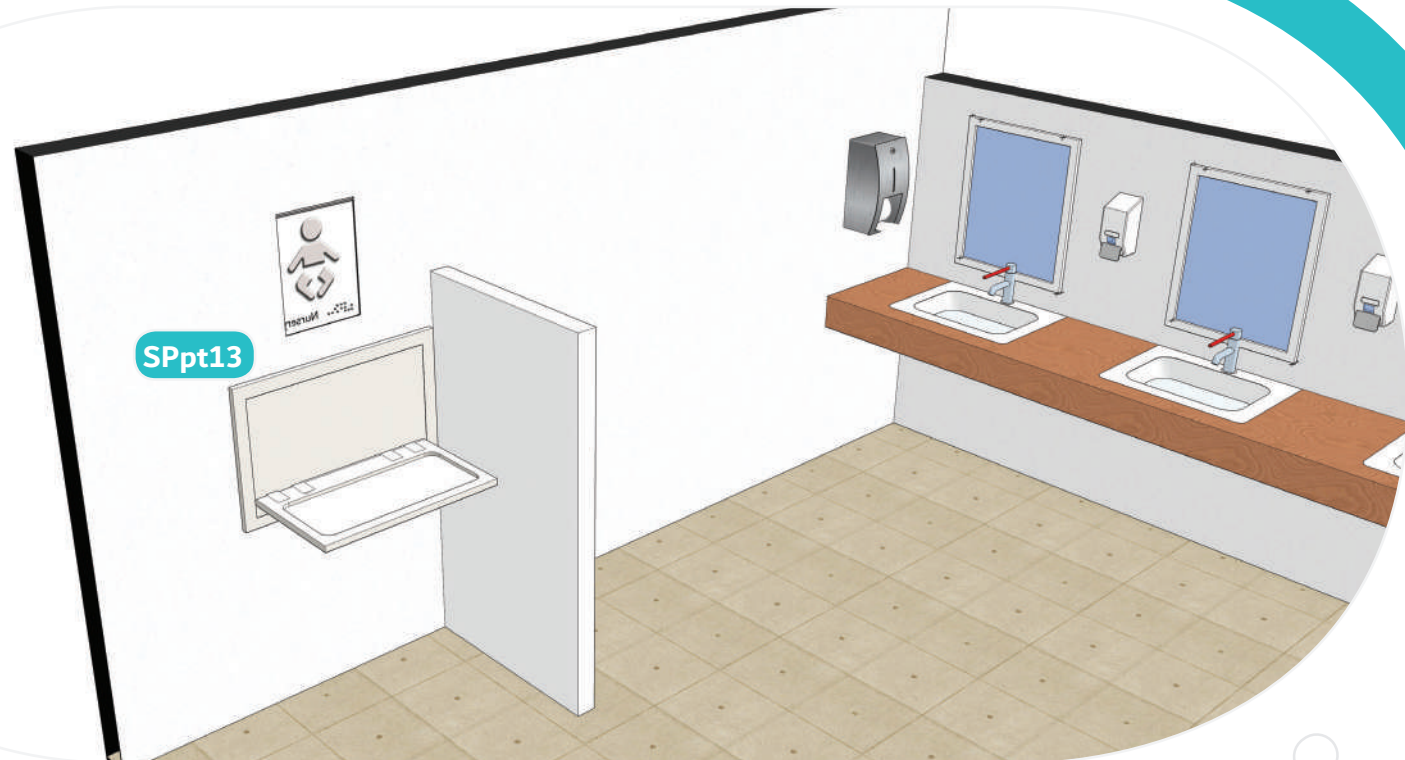
**SPpt9** If 2 or more urinals, 1 with usable height at 300mm and with grab bars

**SPpt10** Flushing systems are operated by pressing or with a flush handle with large surface and operable with one hand or elbow

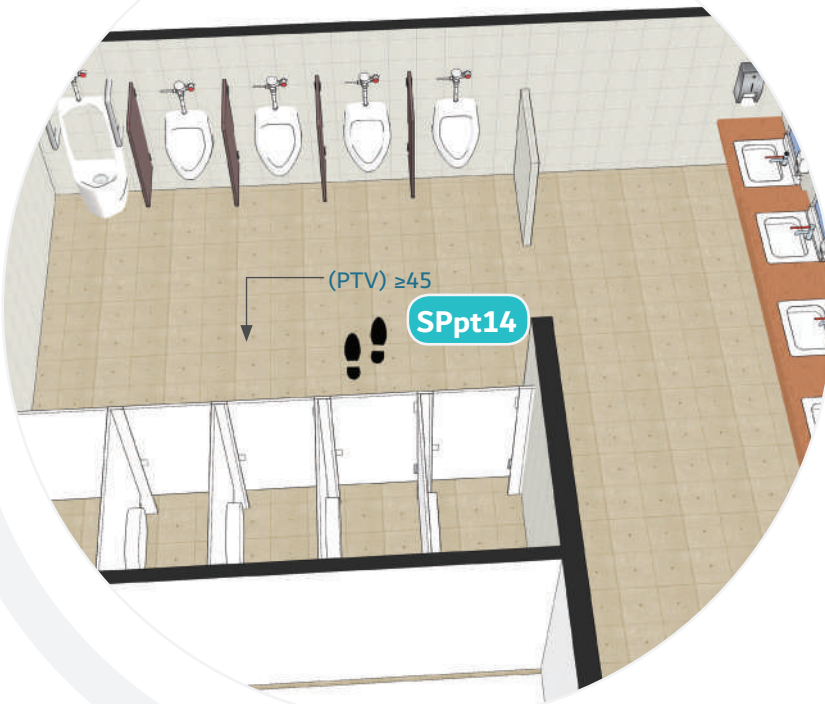
**SPpt11** Distance between the grab bars is 500mm

**SPpt12** Grab bars mounted between 700mm from bottom up to 1200mm height



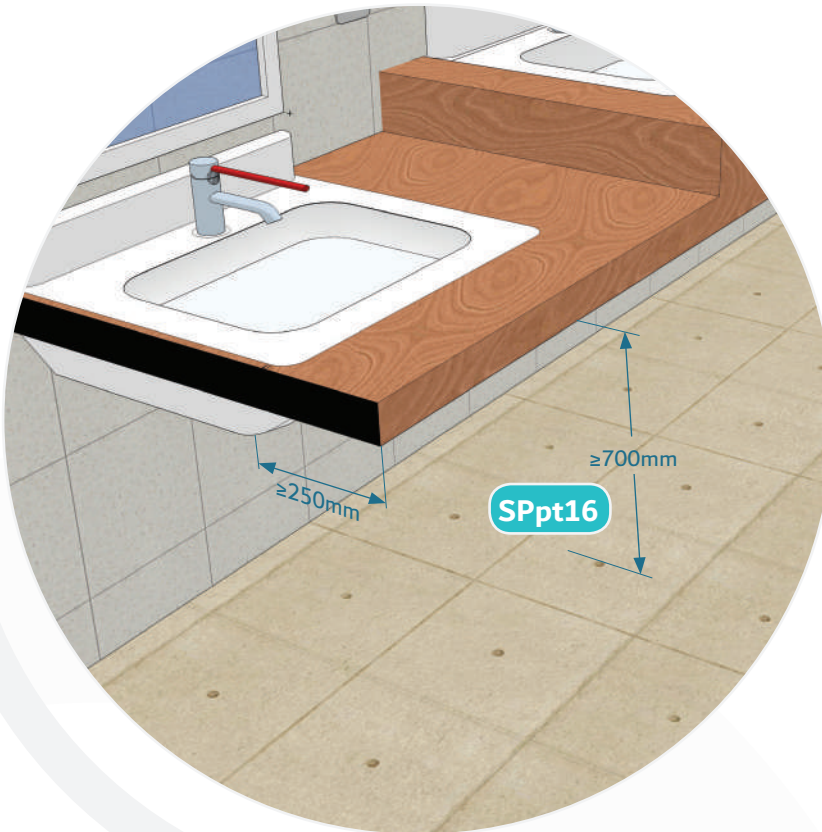


**SPpt13** In each toilet block a baby changing board is provided



**SPpt14** Non slippery floor surface with Pendulum Test Value (PTV)  $\geq 45$

**SPpt15** With wash basins in a row, 1 is accessible



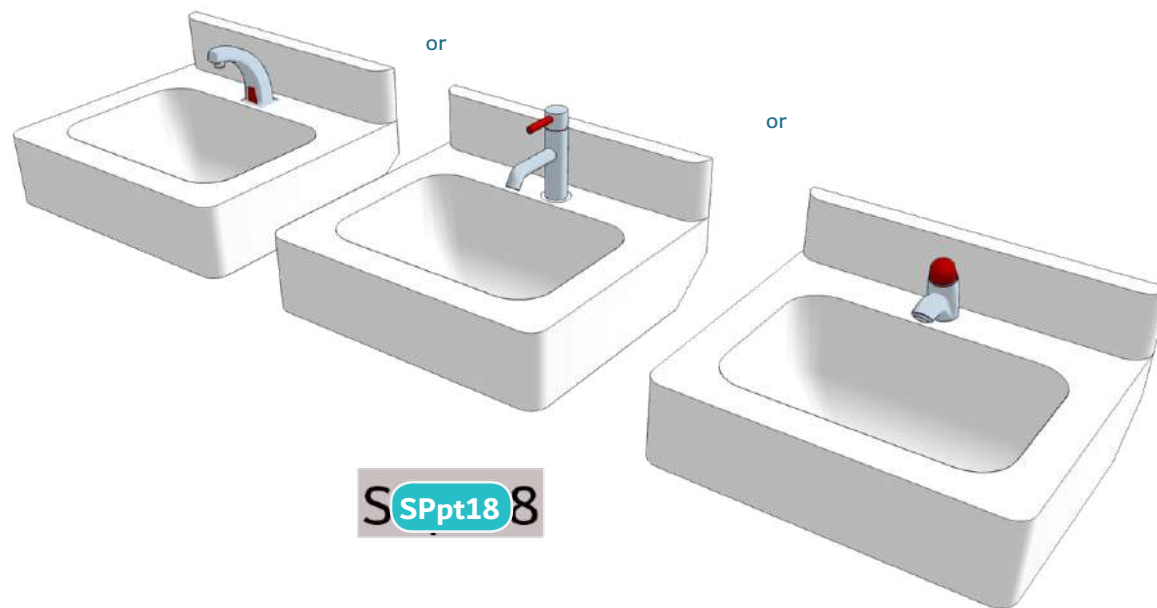
SPpt16



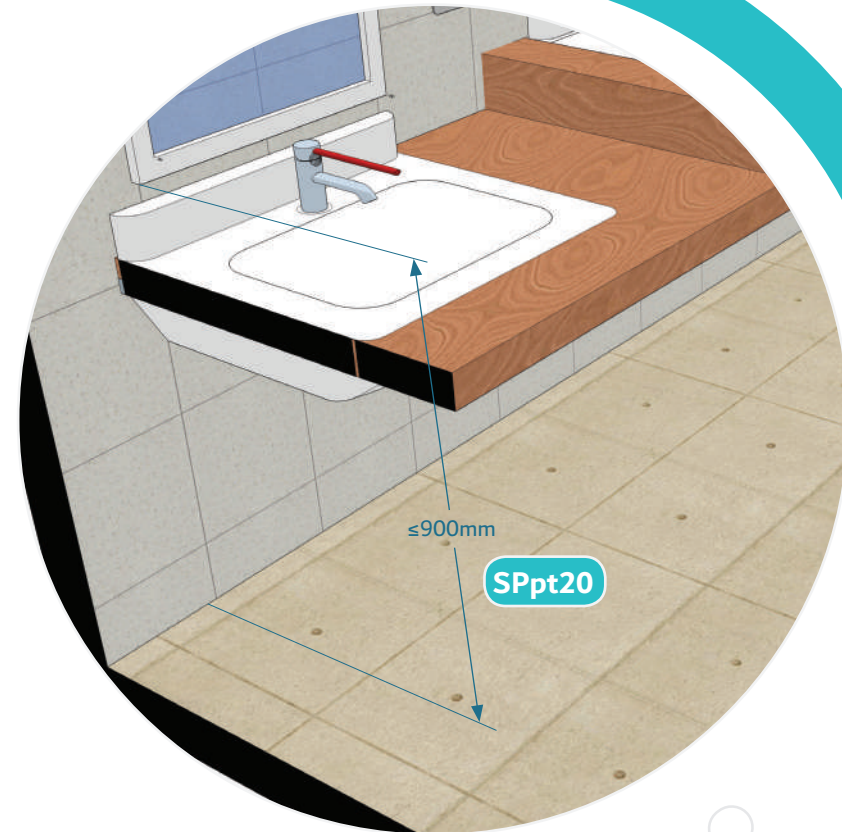
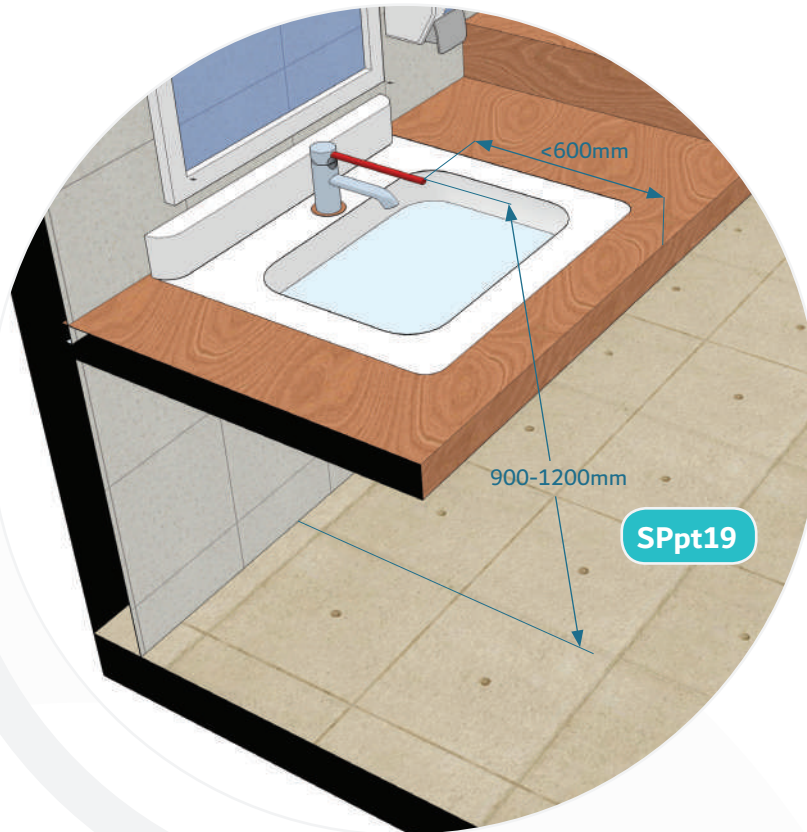
SPpt17

**SPpt16** Accessible wash basin clearance from ground surface space  $\geq 700\text{mm}$  high and  $\geq 250\text{mm}$  deep

**SPpt17** Usable wash basin surface top height between  $800 - 850\text{mm}$







**SPpt19** Distance to the faucet ( water tap) shall be less than 600mm and vertical between 900mm and 1200mm.

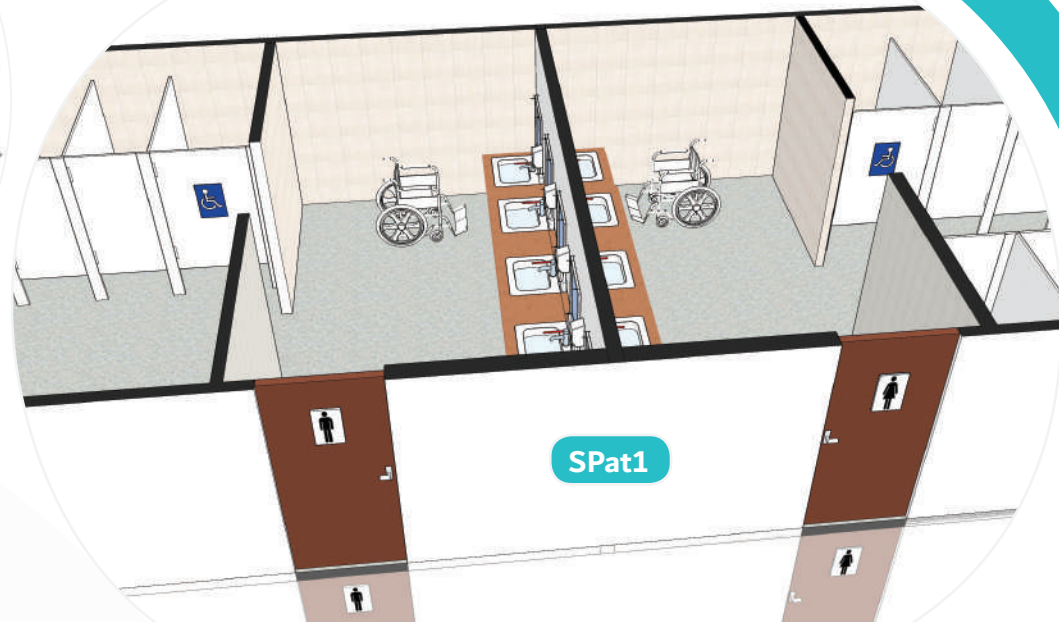
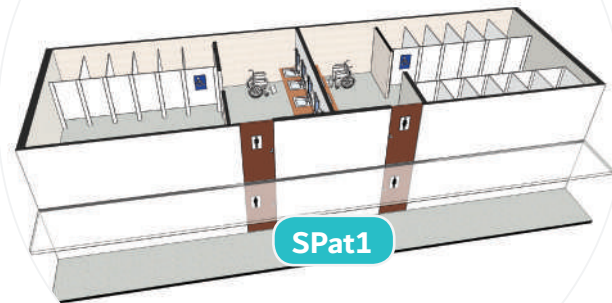
**SPpt20** Lower edge of mirror  $\leq 900\text{mm}$  height





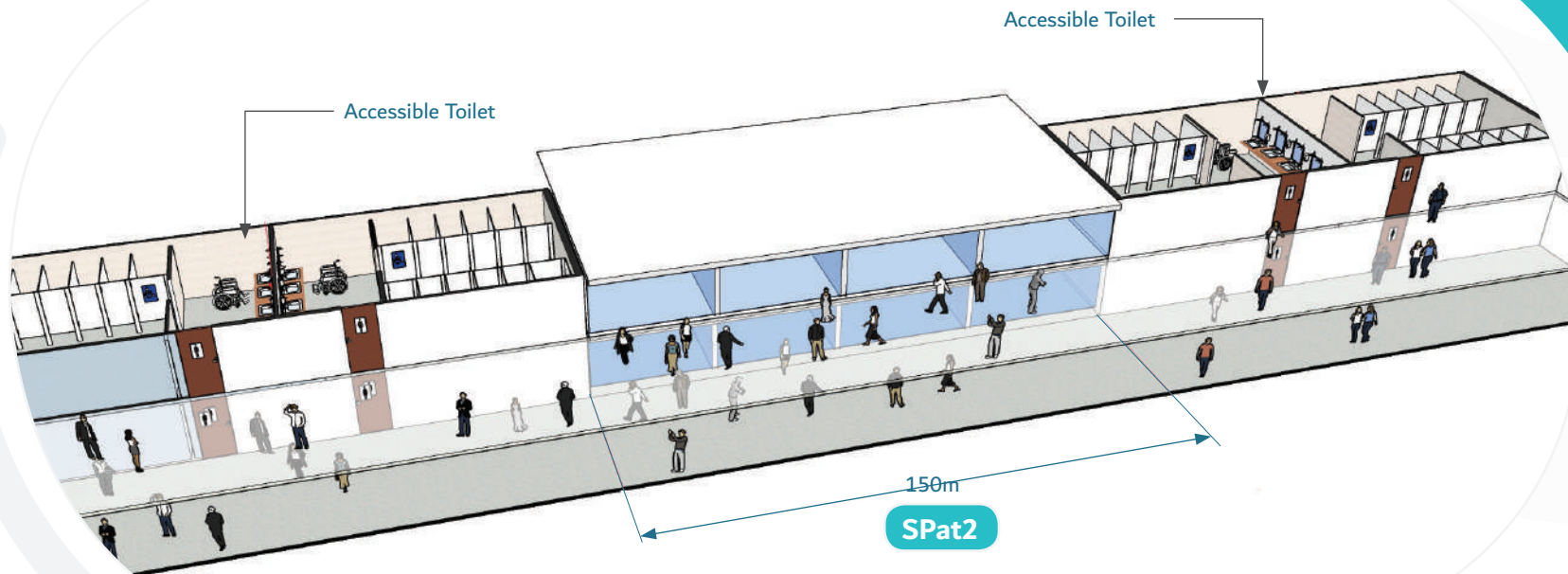
**SPpt21** Controls and accessories height (soap dispenser, dryer) mounted at height 700 - 1200mm

**SPpt22** Advisory signs indicating safety procedures and other regulatory information

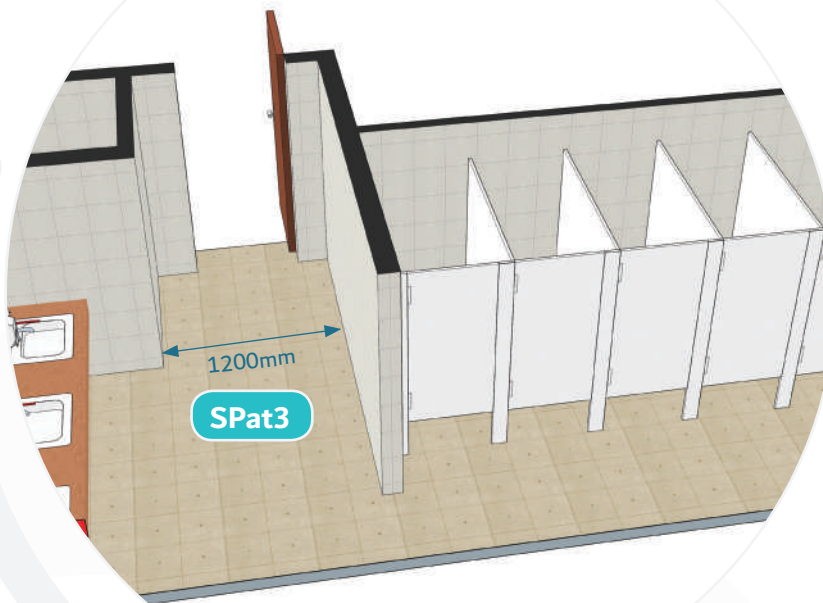


SPat1

One accessible toilet for each gender in every floor or 1 independent accessible toilet for both genders



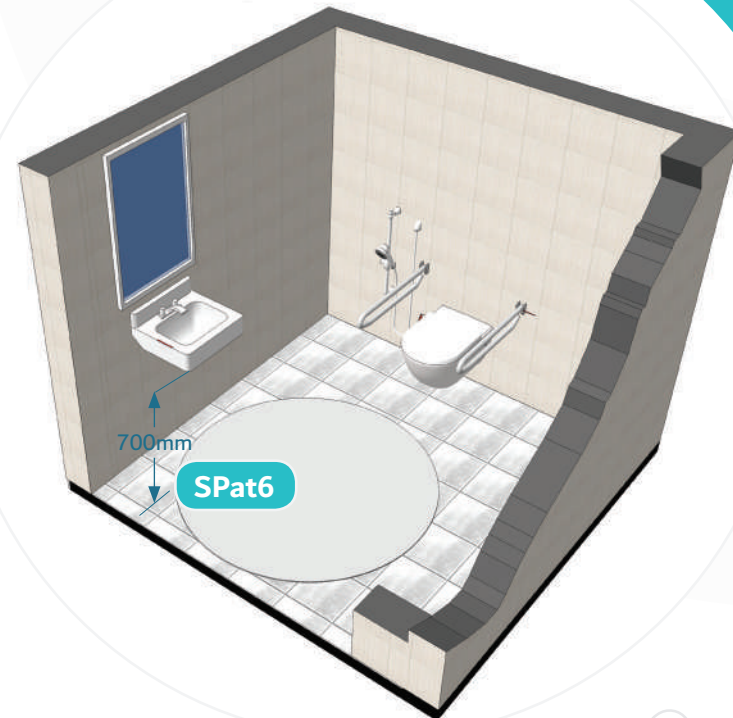
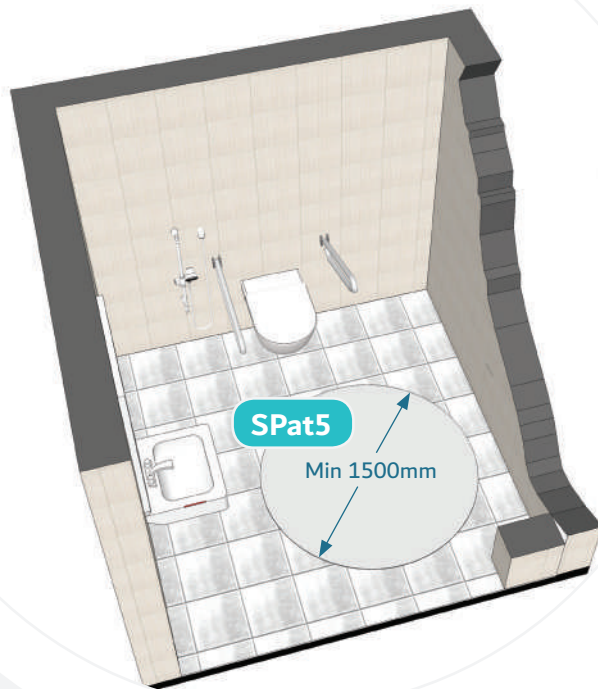
**SPat2** One accessible toilet within a 150m distance from any part of the building



**SPat3** Corridors width in toilets, showers, lockers spaces of 1200mm

**SPat4** Maneuvering turning space diameter of 1500mm in circulations

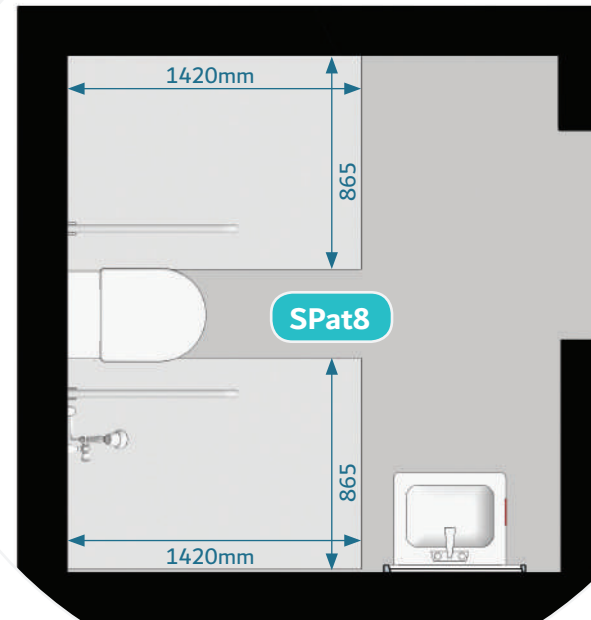
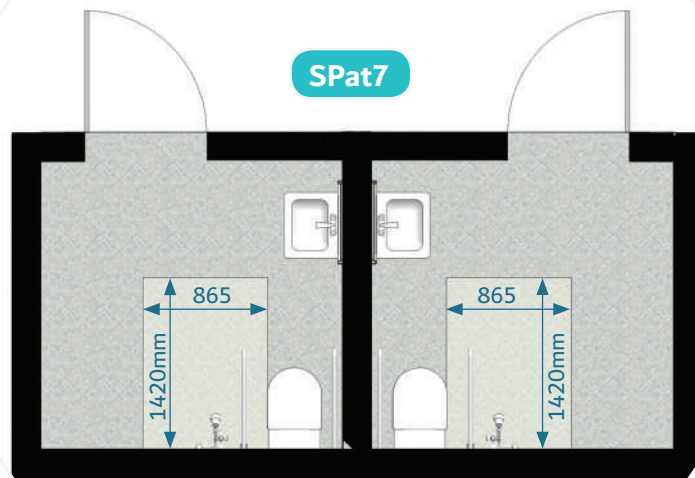




**SPat5** Maneuvering space diameter of 1500mm inside the toilet

**SPat6** Maneuvering space height between 0 to 700mm free of obstacles

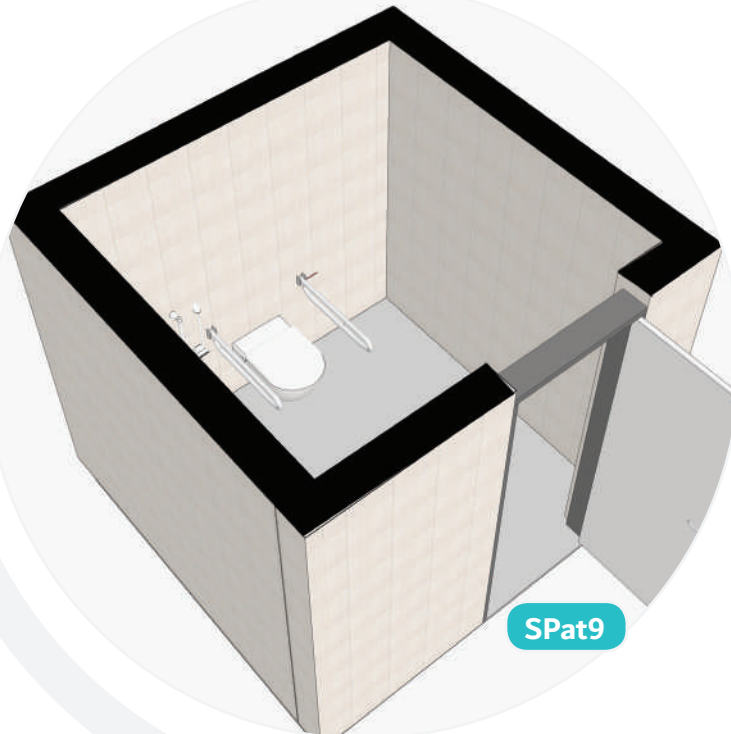


**SPat7**

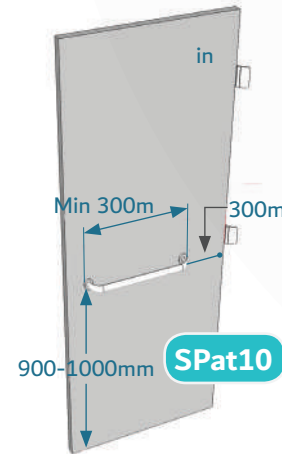
Lateral interaction space on both sides of the toilet or on one side if symmetrical units

**SPat8**

Lateral interaction space size 865mm x 1420mm



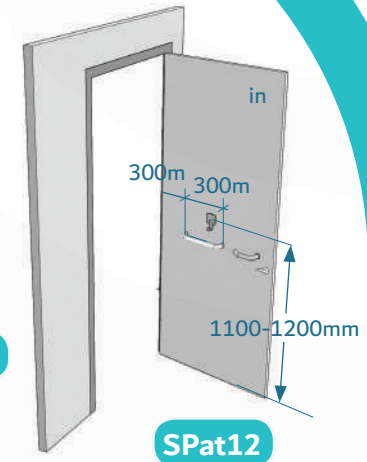
SPat9



SPat10



SPat11



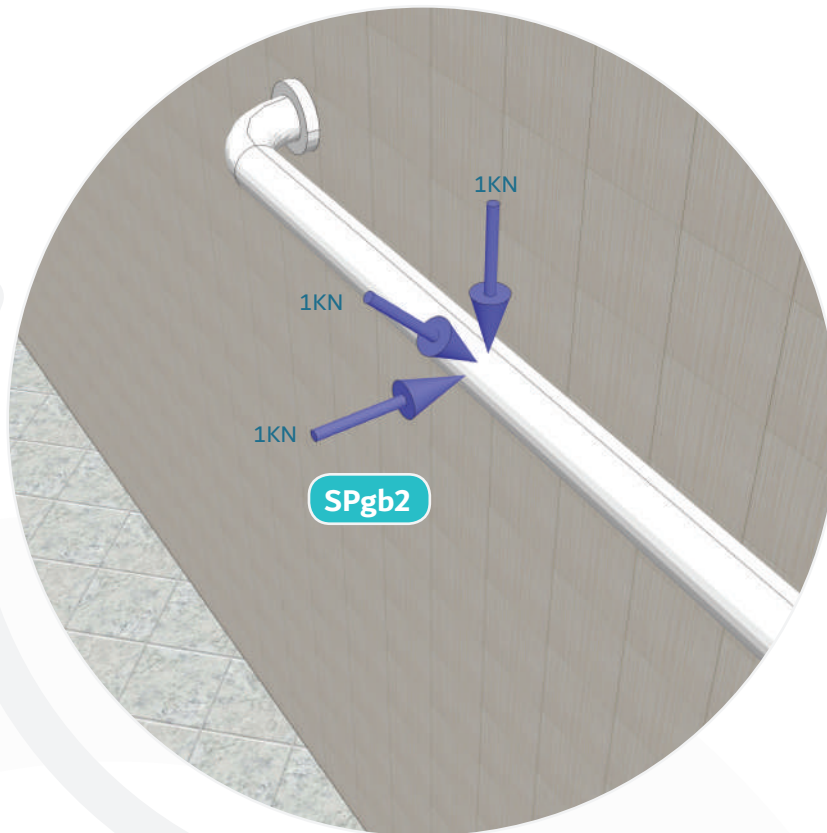
SPat12

**SPat9** Door open outwards or sliding

**SPat10** Door with horizontal 300mm grab bar placed between 900 - 1000mm height at 300mm from the hinge side

**SPat11** Latch operable with the elbow installed between 900 - 1200mm

**SPat12** Coat hanger between 1100 - 1200mm



SPgb2



SPgb1

SPgb1

The space between grab bars and the wall  $\geq 45\text{mm}$

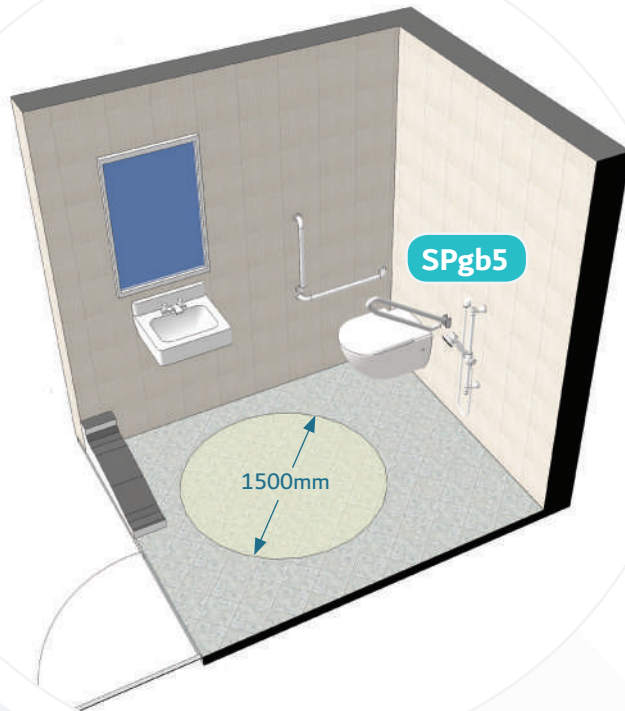
SPgb2

Withstand a force of 1 kN in any direction



**SPgb3** Circular diameter between 30 - 40mm

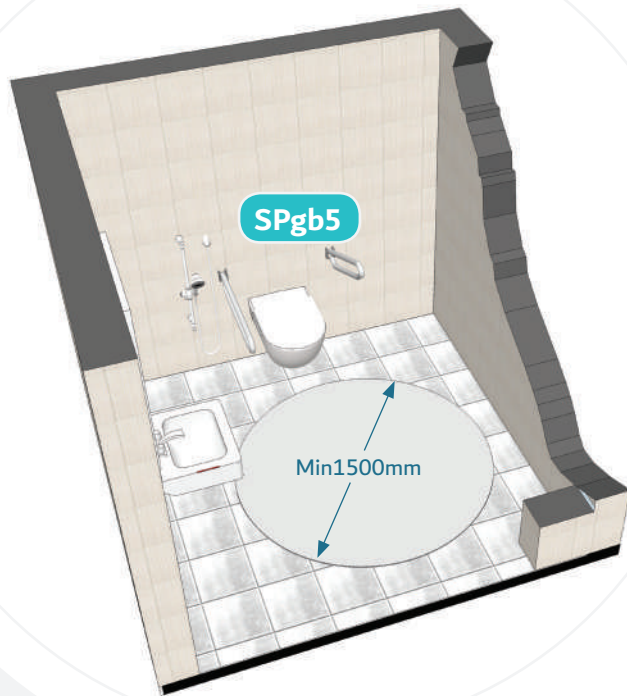
**SPgb4** Horizontal bars height between 700 - 750mm. Support length of 700mm



**SPgb5** Bars mounted in the transfer space must be foldable

**SPgb6** With two transfer areas, distance between both grab bars 670mm and 700mm





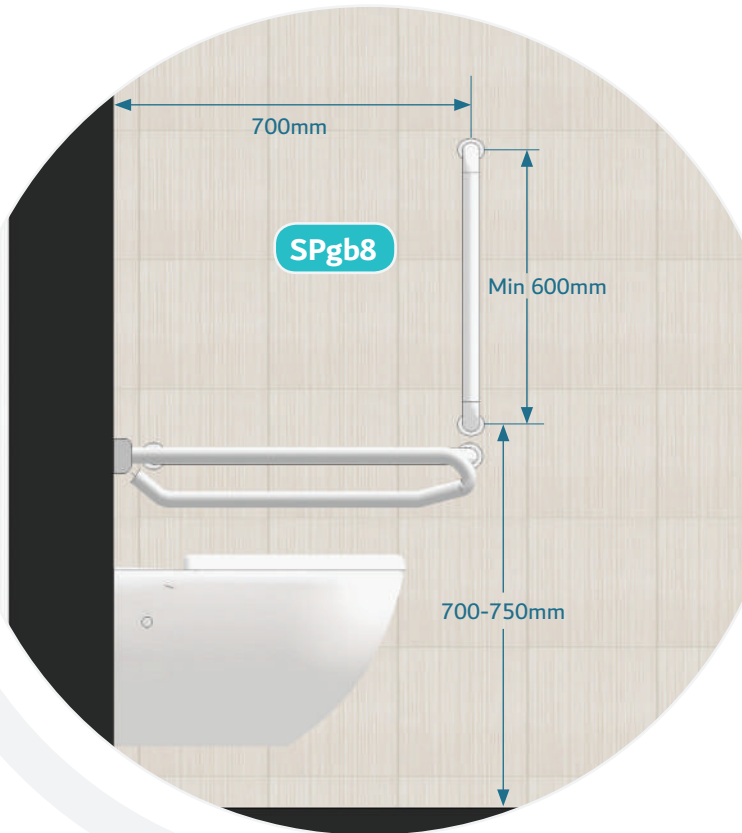
**SPgb5** Bars mounted in the transfer space must be foldable

**SPgb6** With two transfer areas, distance between both grab bars 670mm and 700mm



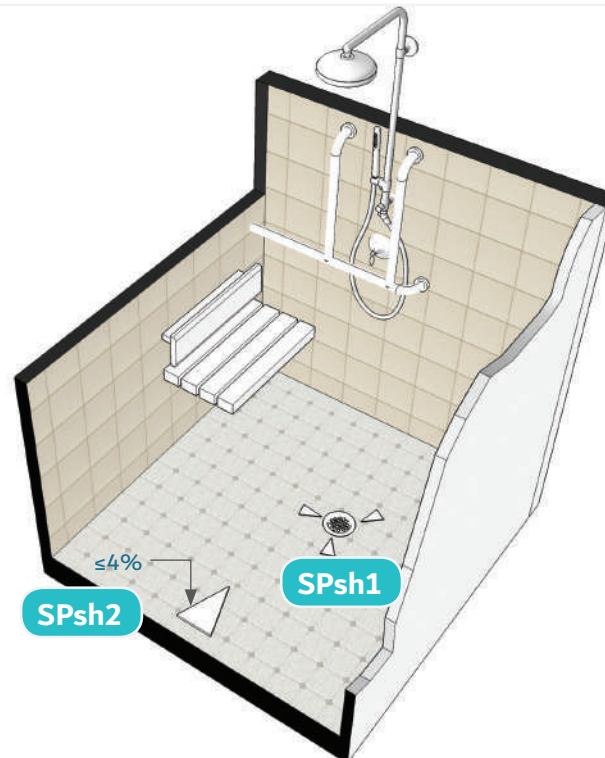
SPgb7

With one transfer area, horizontal bars mounted in wall 300mm from the sanitary edge with 700mm length and mounted 700 - 750mm



**SPgb8** 600mm vertical bar mounted 700 - 750mm from ground away 700mm from the wall

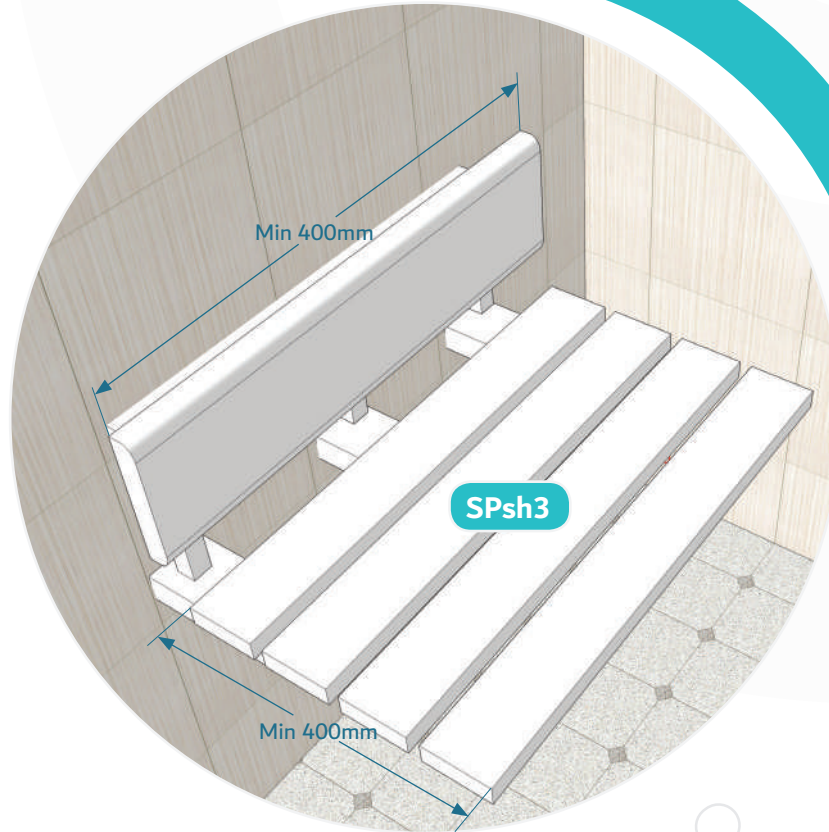
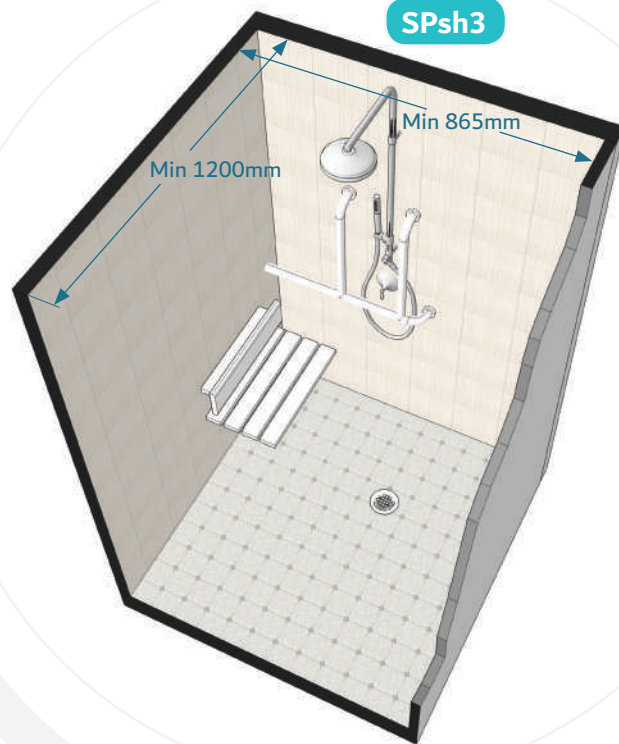
**SPgb9** Toilet height between 450 - 500 mm



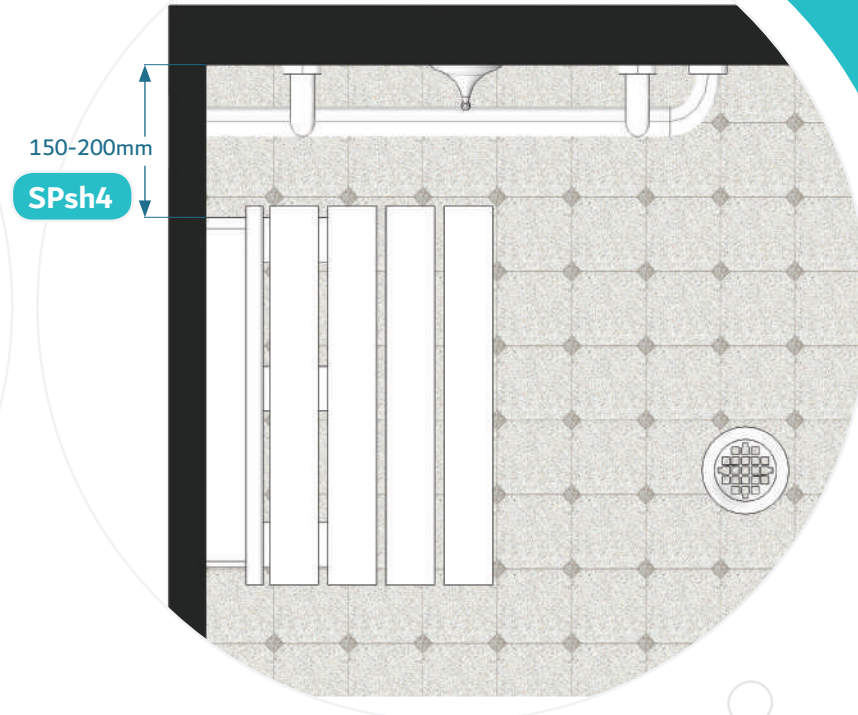
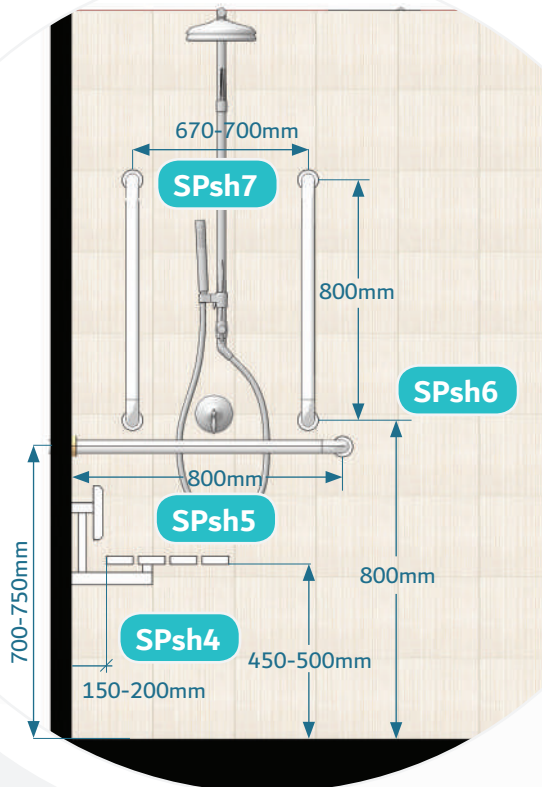
**SPsh1** Shower floor surface at same floor level with surrounding area

**SPsh2** Drain water slope  $\leq 4\%$

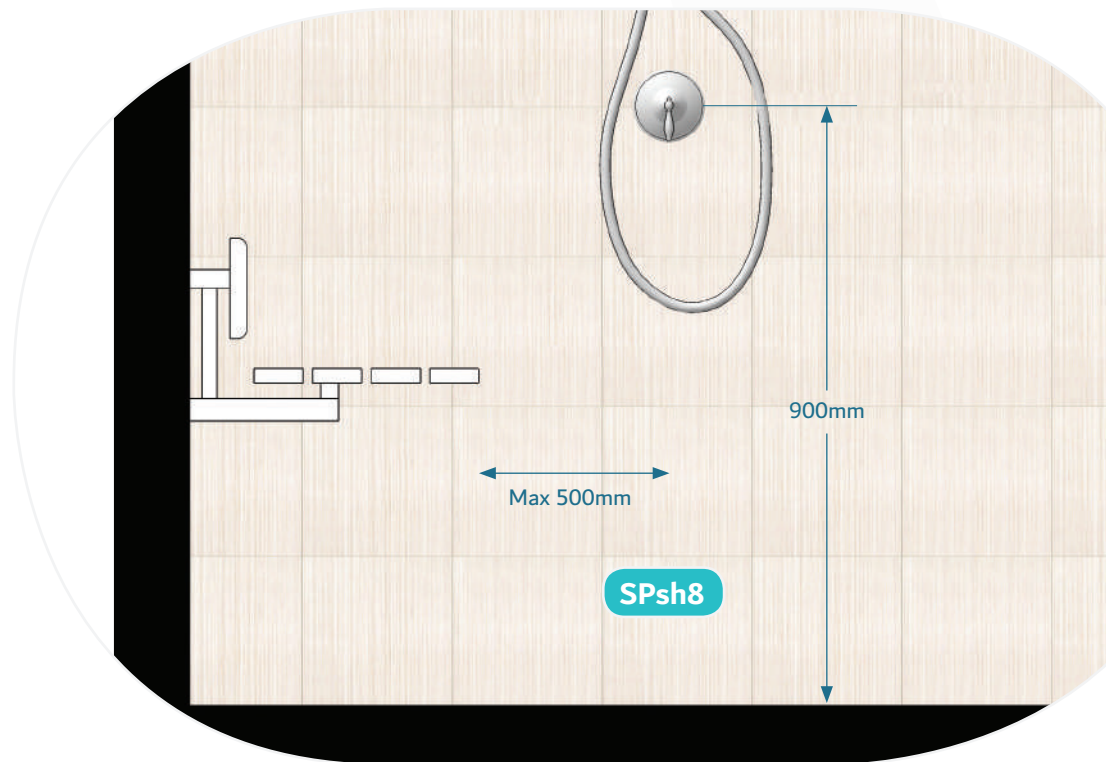


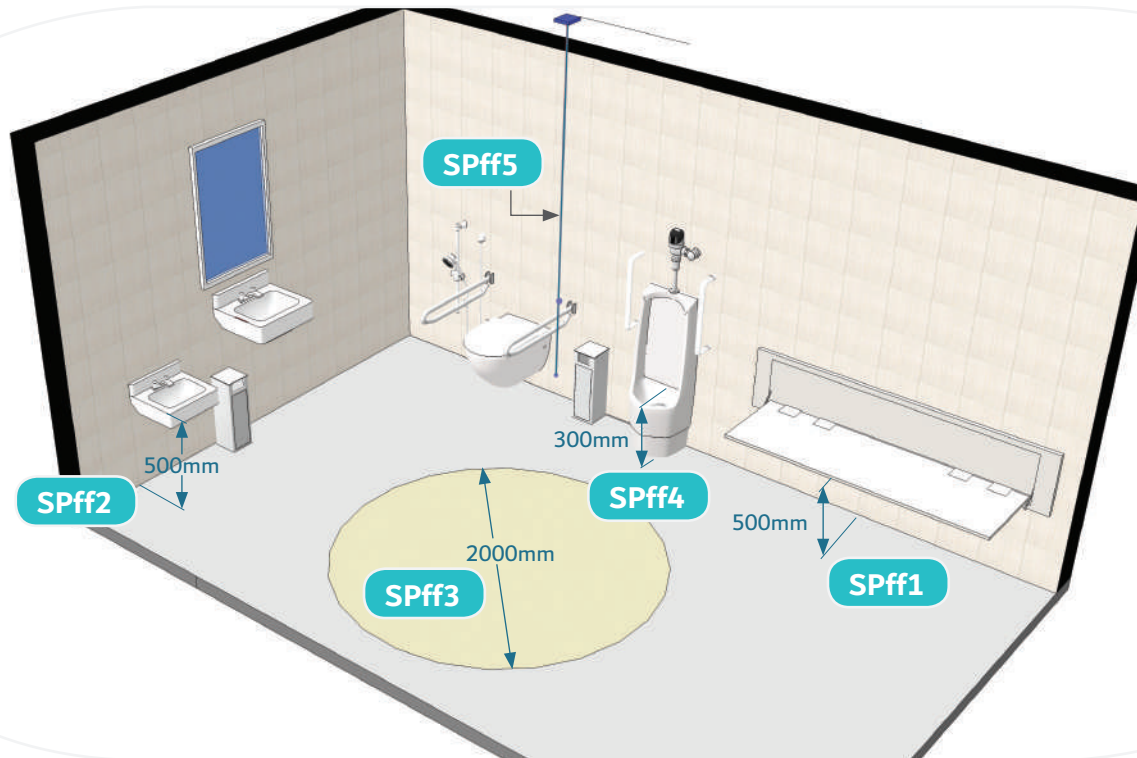






- SPsh4** Seat located at a height between 450 - 500mm and separated from the wall between 150 - 200mm
- SPsh5** Horizontal bar length 800mm mounted 700 - 750mm from the ground
- SPsh6** Two Vertical bars length of 800mm in the lateral wall of the shower seat mounted 800mm from the floor level
- SPsh7** Distance between vertical bars between 670 - 700mm





SPff1

With a folding adult changing board,  
at height of 500mm from the floor

SPff2

Additional children wash basin at  
a height of 500mm

SPff3

Maneuvering turning space of at  
least 2000mm diameter

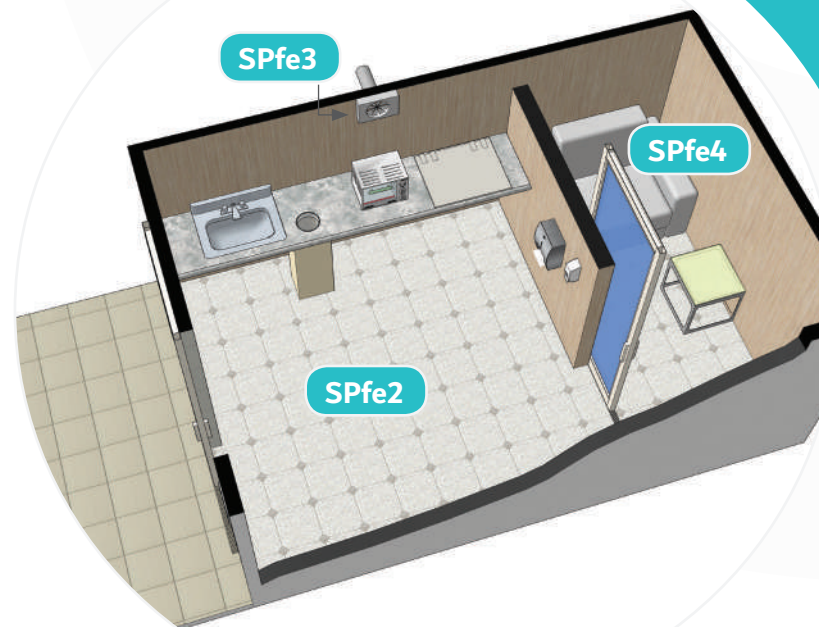
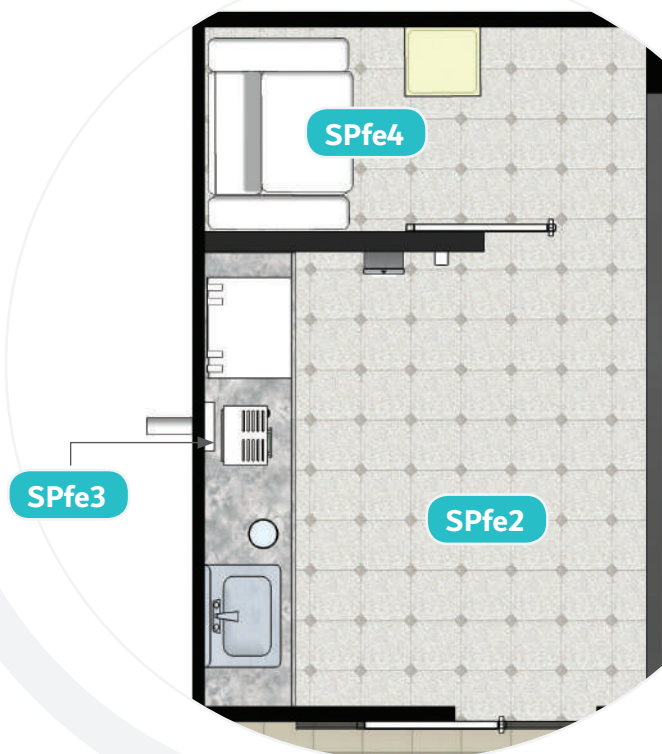
SPff4

With a urinal with usable height of 300mm

SPff5

With emergency call button or rope

Individual Feeding Room



SPfe1

One feeding room within 300m distance

SPfe3

With ventilation system

SPfe4

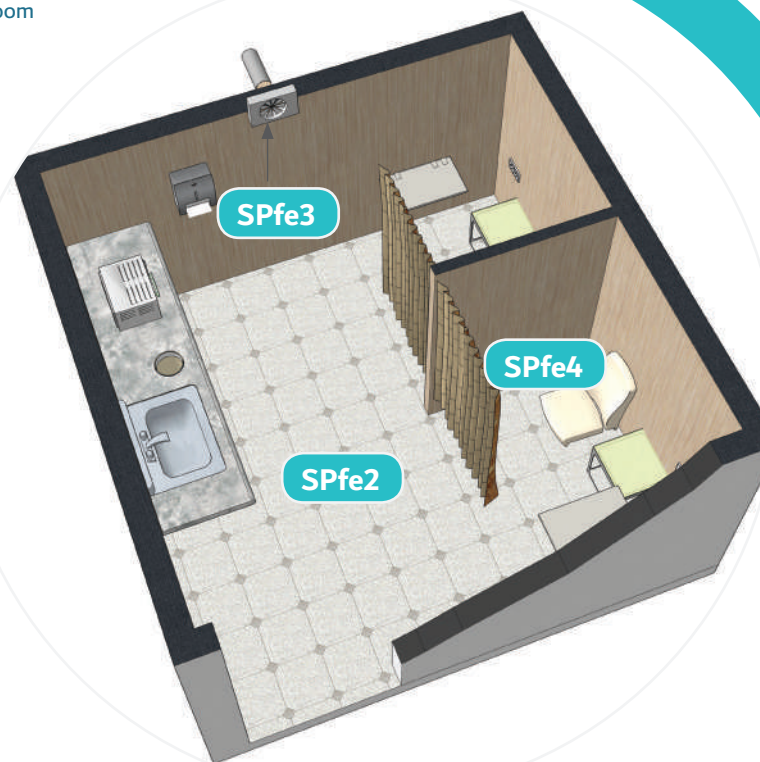
Furniture with reflectance contrast with the walls of  $\geq 30$  points LRV

SPfe2

**Surface:** $\geq 7$ sq. meters for individual $\geq 10$ sq. meters for dual



Dual Feeding Room



SPfe1

One feeding room within 300m distance

SPfe3

With ventilation system

SPfe4

Furniture with reflectance contrast with the walls of  $\geq 30$  points LRV

SPfe2

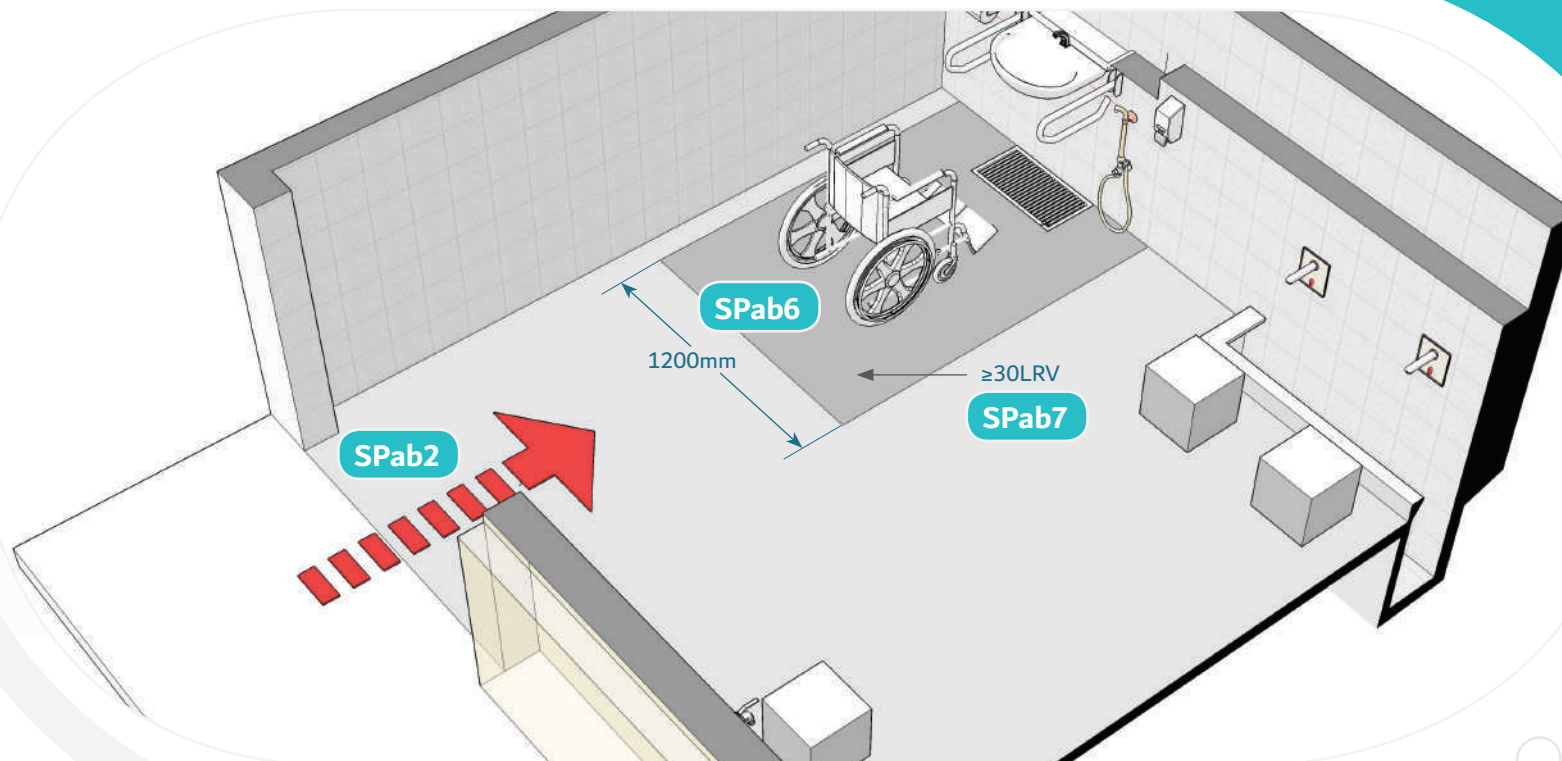
**Surface:** $\geq 7$ sq. Meters for individual $\geq 10$ sq. Meters for dual





SPab1

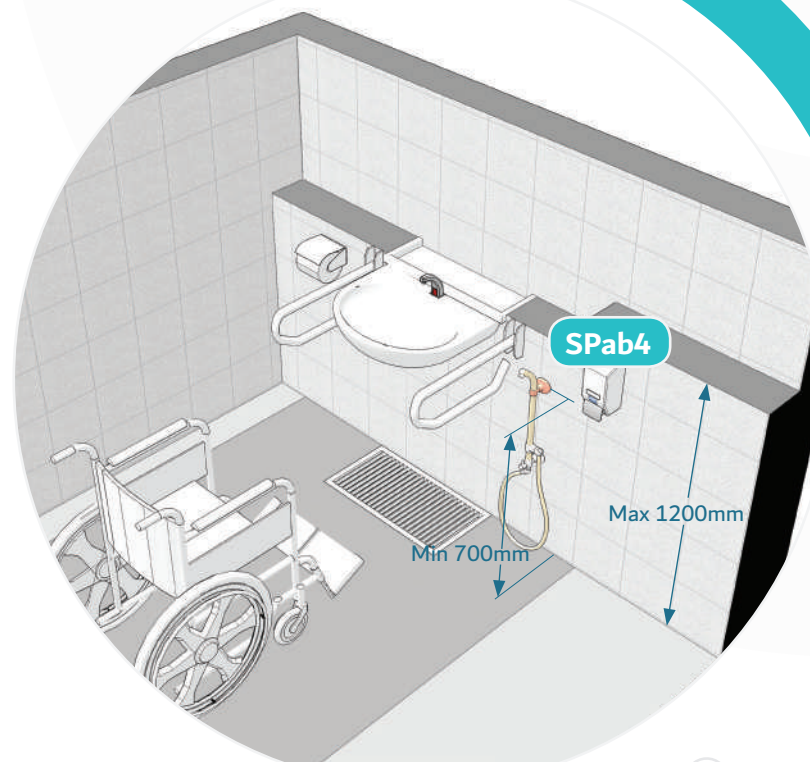
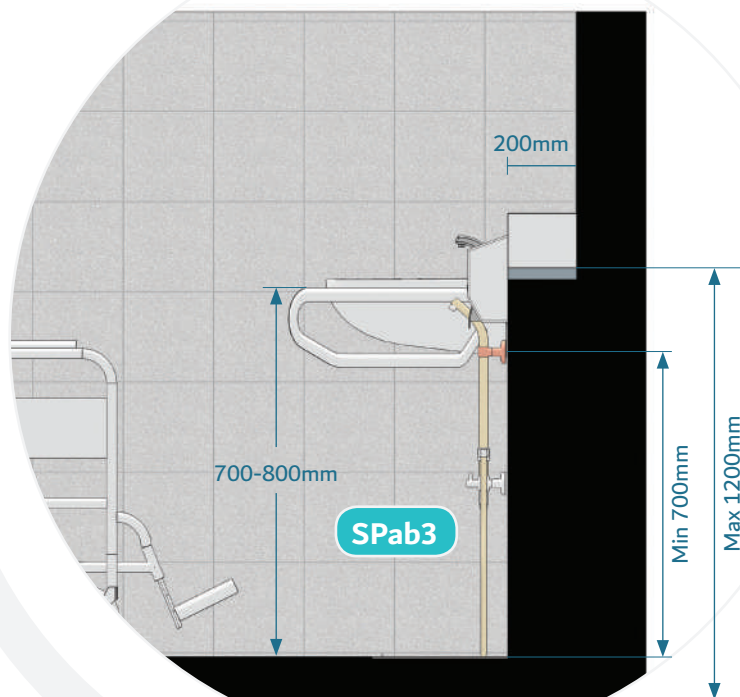
Electronic or sensor faucets



**SPab2** One accessible ablution unit linked to an accessible path. The closest from the entrance

**SPab6** Approaching free space of 1200mm

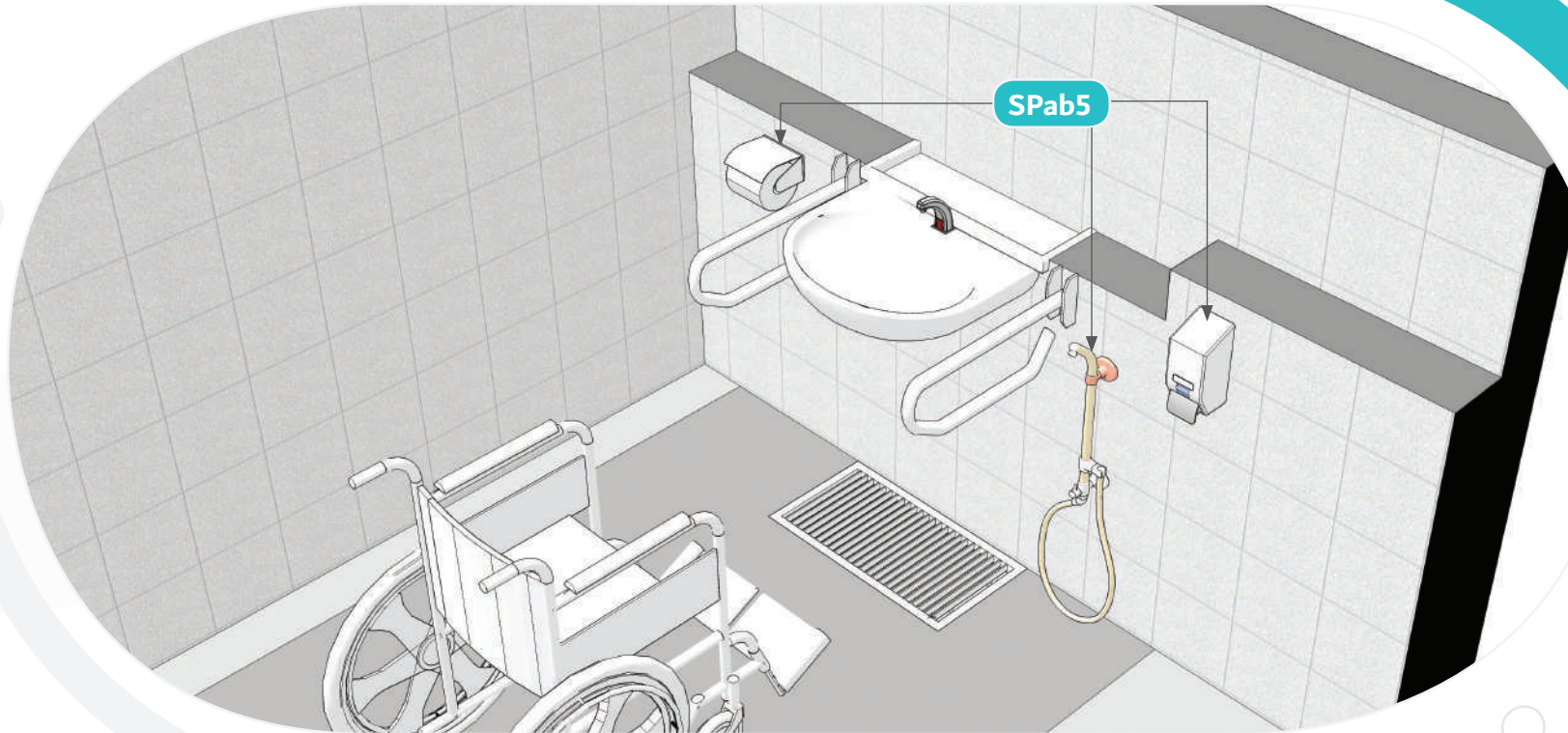
**SPab7** The approaching free space with contrast  $\geq 30$  points LRV



**SPab3** Two horizontal bars mounted between 700 - 800mm with the same length of wash basin

**SPab4** All Accessories at a height between 700 - 1200mm





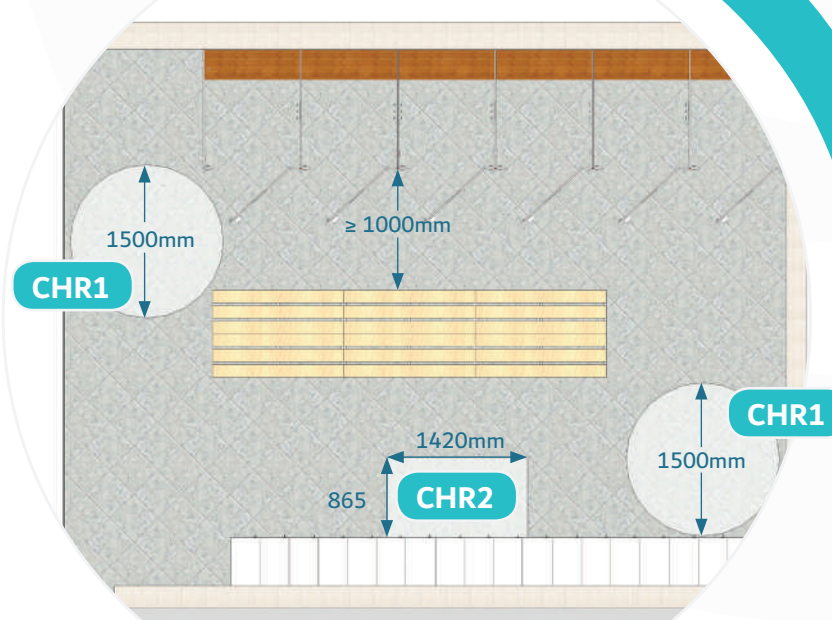
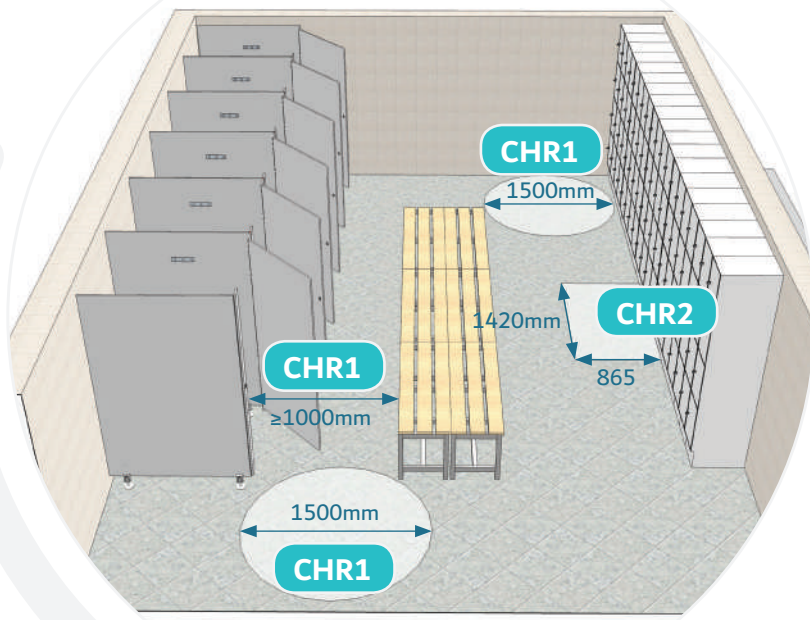
**SPab5** Provides bidet shower system, soap and paper





# Changing Rooms





**CHR1** Corridors width  $\geq 1000\text{mm}$  and direction changes with manoeuvring turning space of 1500mm

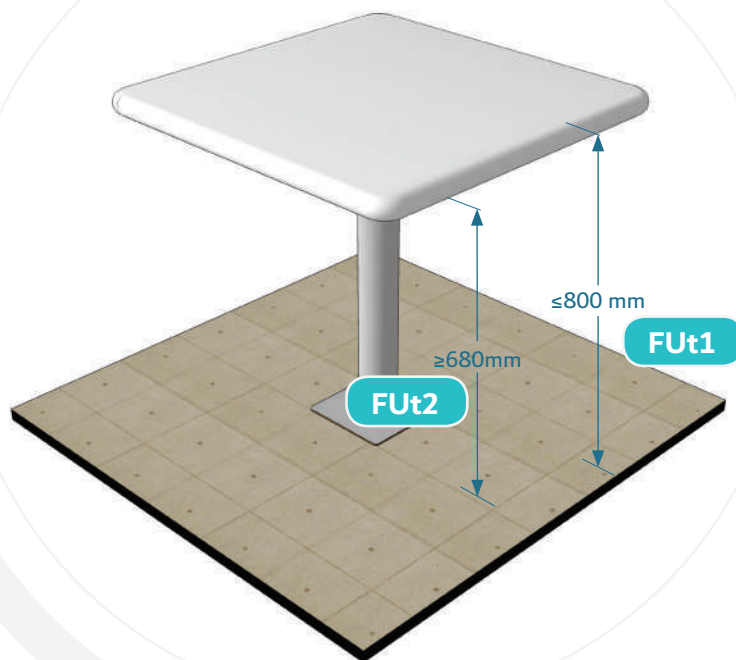
**CHR2** Approaching space for lockers, benches and furniture 1420 x 865mm

**CHR3** 1 of 10 showers is accessible, if provided

**CHR4** 1 of 10 toilet is accessible, if provided

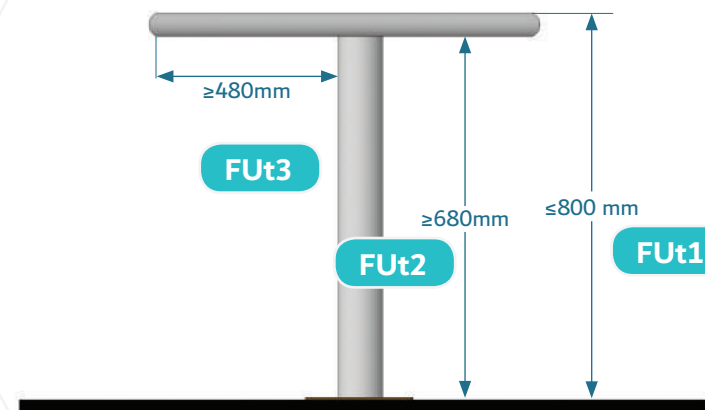
# Furniture





**FU1** Without sharp edges, protruding

**FUt2** Clearance height under the table  $\geq 680 \text{ mm}$

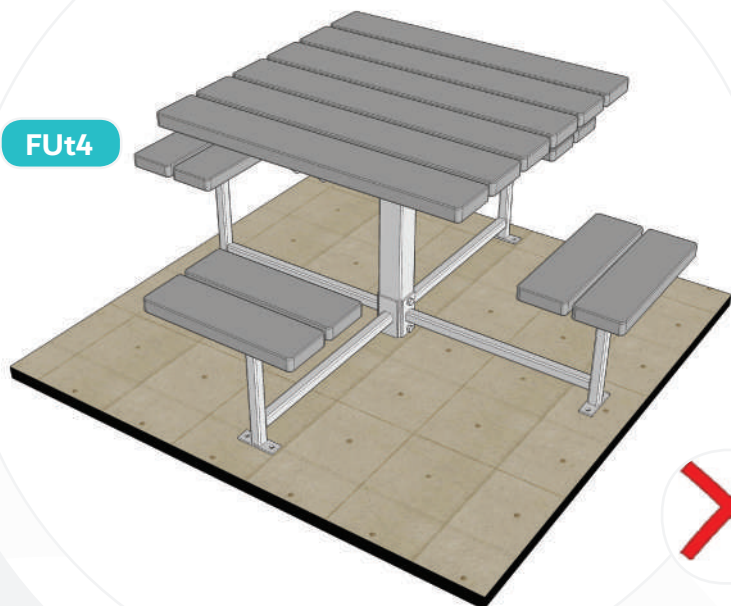


**FUt1** Height of the top  $\leq 800 \text{ mm}$

**FUt3** Clearance depth under the table  $\geq 480 \text{ mm}$



FUt4



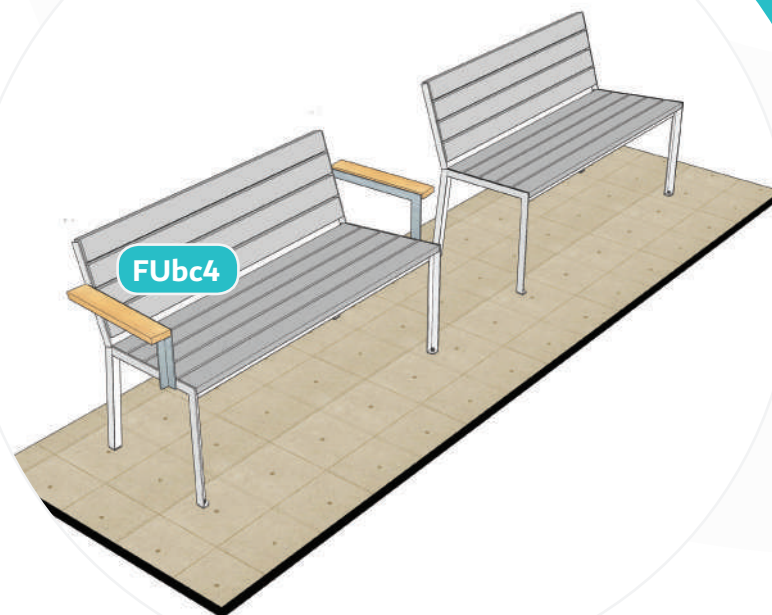
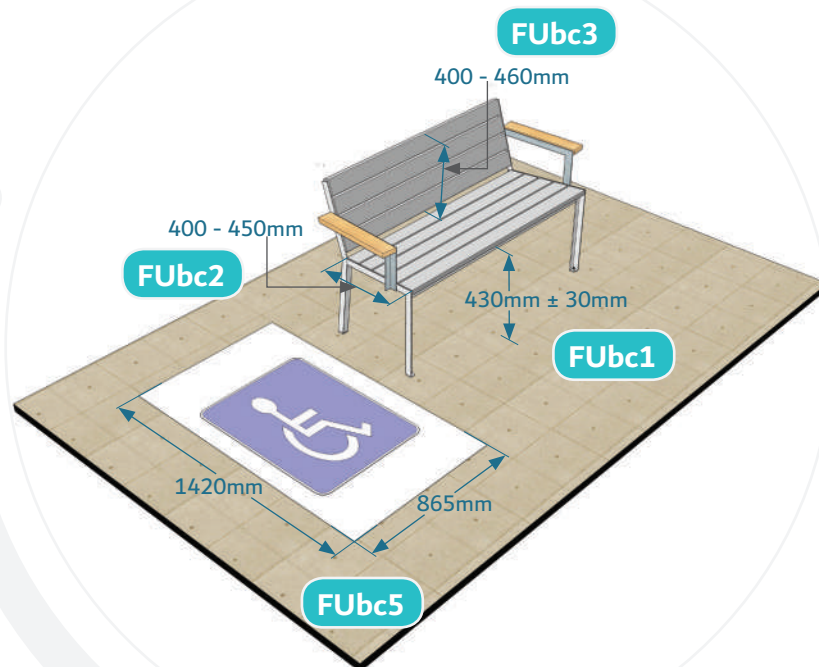
FU1

Without sharp edges, protruding

FUt4

Tables without integrated seats





**FU1** Without sharp edges, protruding

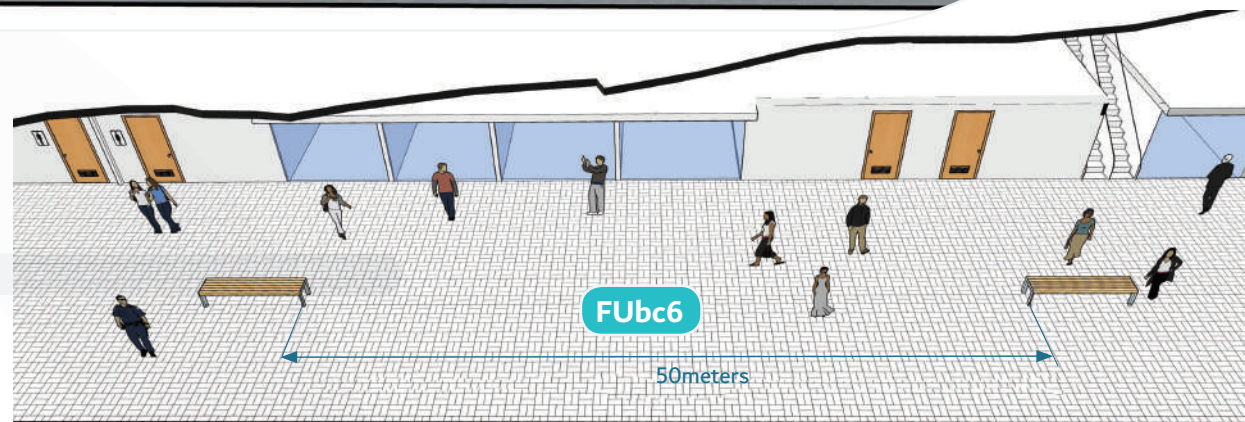
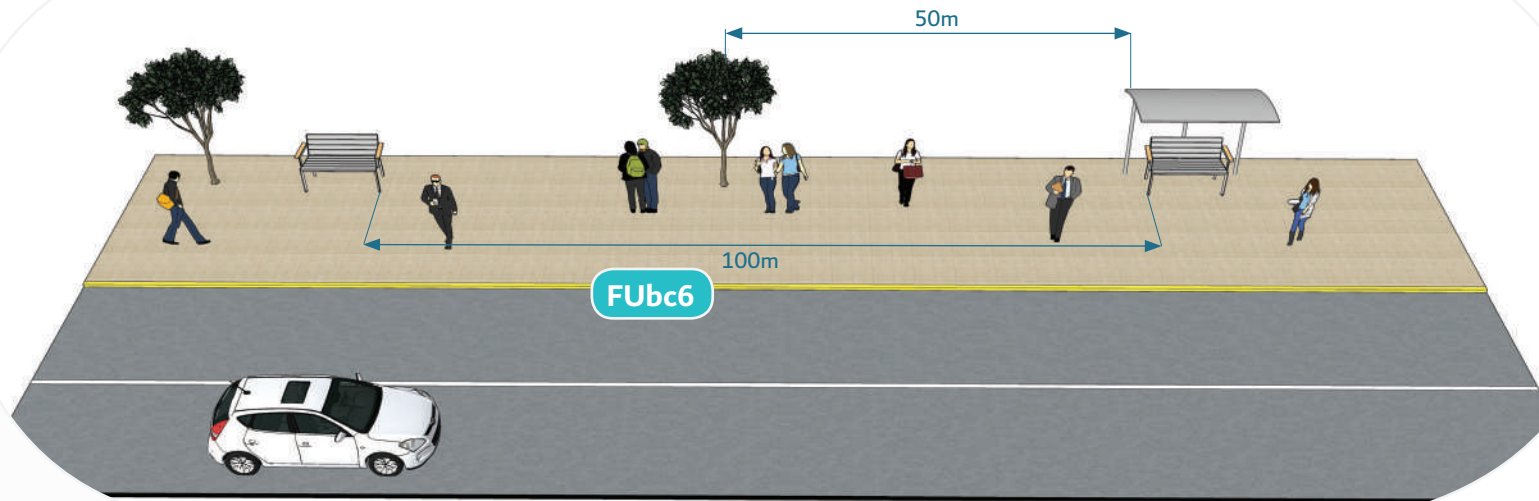
**FUbc1** Seat height of 430mm with a  $\pm 30$ mm tolerance

**FUbc2** Seat depth between 400 - 450mm

**FUbc3** With backrest height between 400 - 460mm

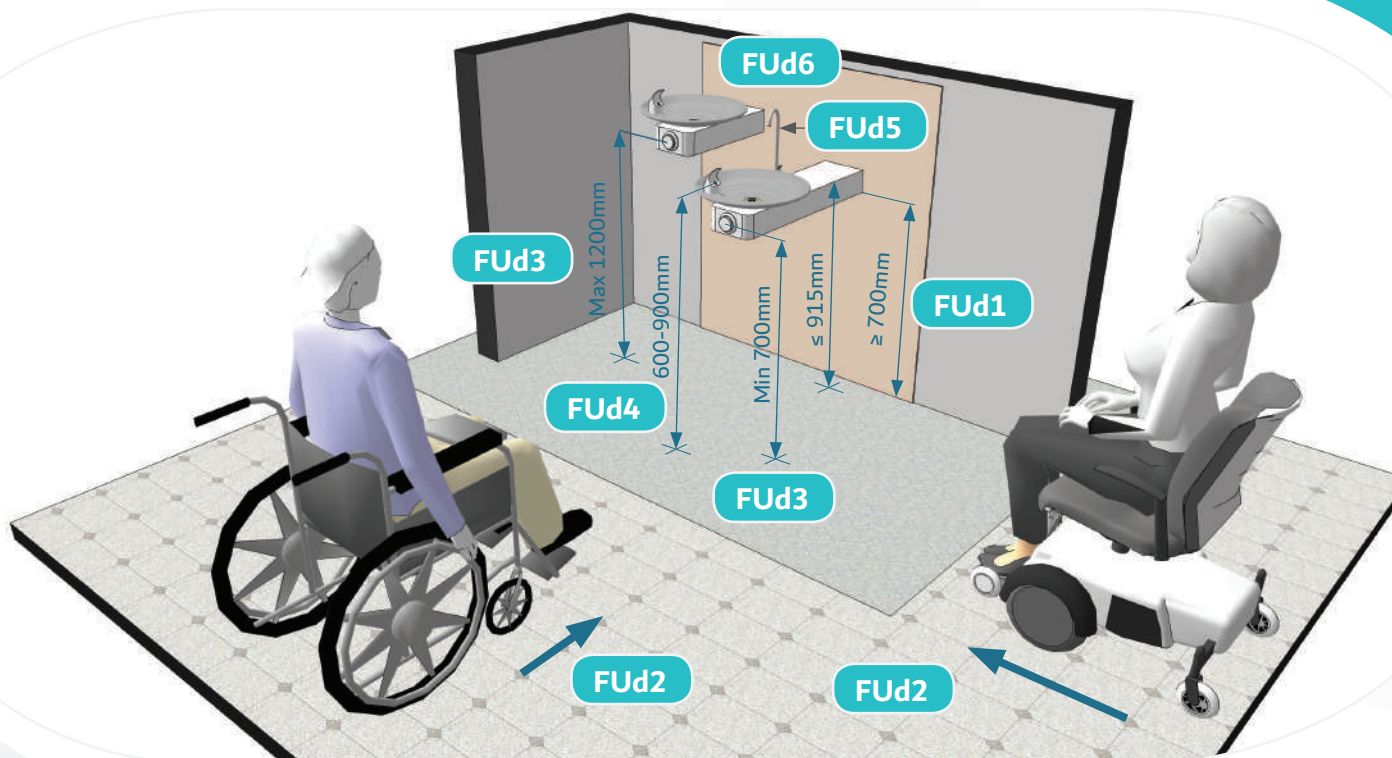
**FUbc4** Some seats with armrests

**FUbc5** At least in one side has lateral interaction spacem for wheelchair min 865 x 1420mm with international symbol



FUbc6

Outdoor spaces - benches every 100meters accompanied with shaded areas every 50meters  
In buildings - benches or seat types every 50meters



**FU1** Without Sharpe edges, protruding .

**FUd1** Two fountains with different heights  $\leq 915\text{mm}$  for the lower one with leg clearance

**FUd2** Comfortable frontal and lateral approach

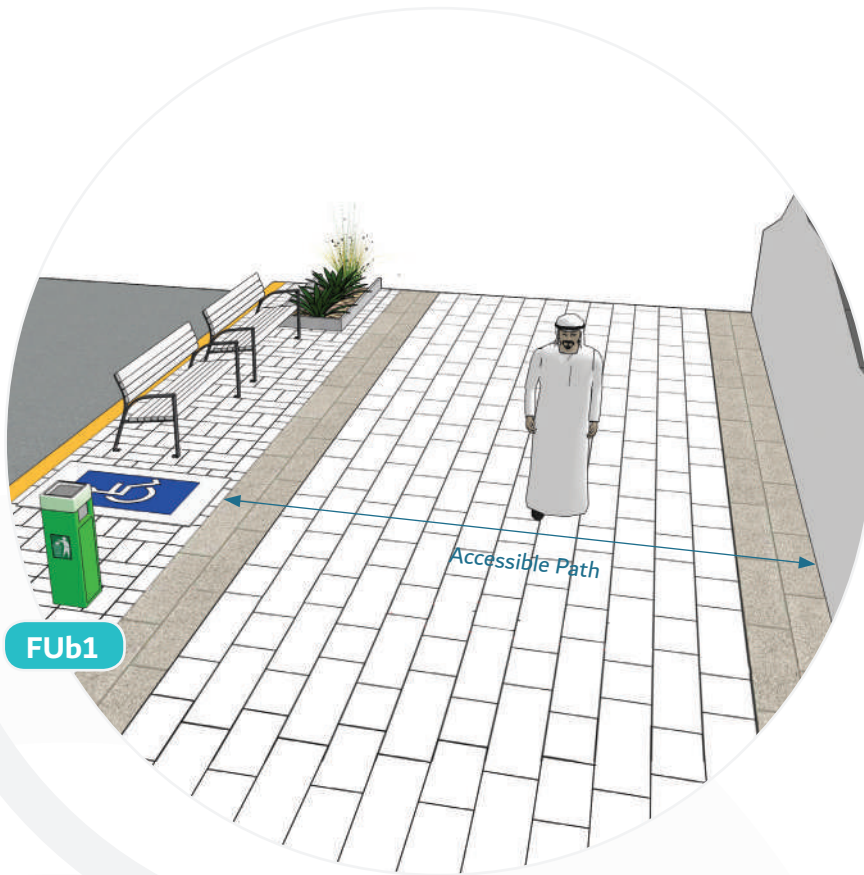
**FUd3** If manual button, minimum height = 700mm for the lower one and maximum 1200mm for the higher one

**FUd4** Water supply between 600 - 900mm height

**FUd5** With bottle filler

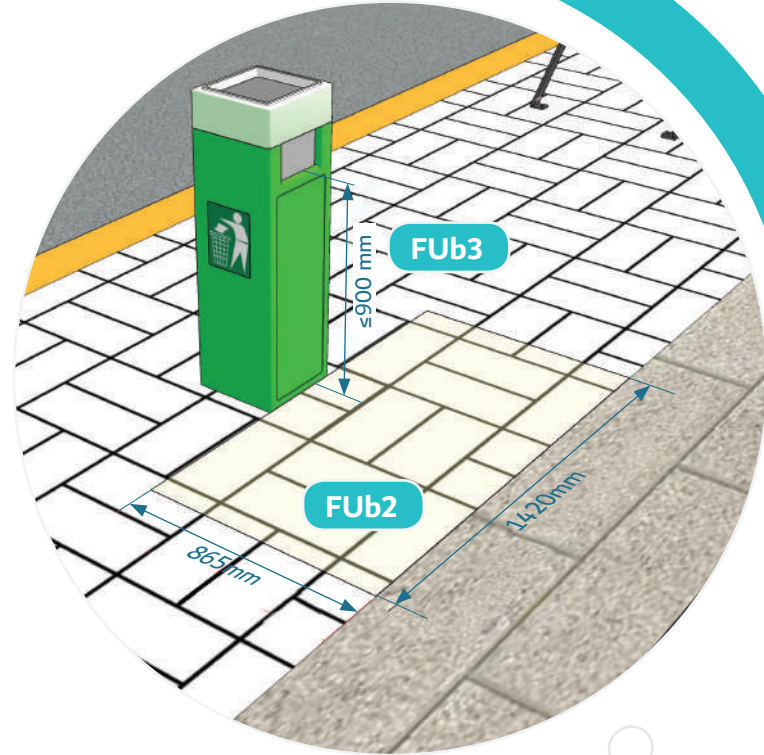
**FUd6** Clearly visible with contrasting background



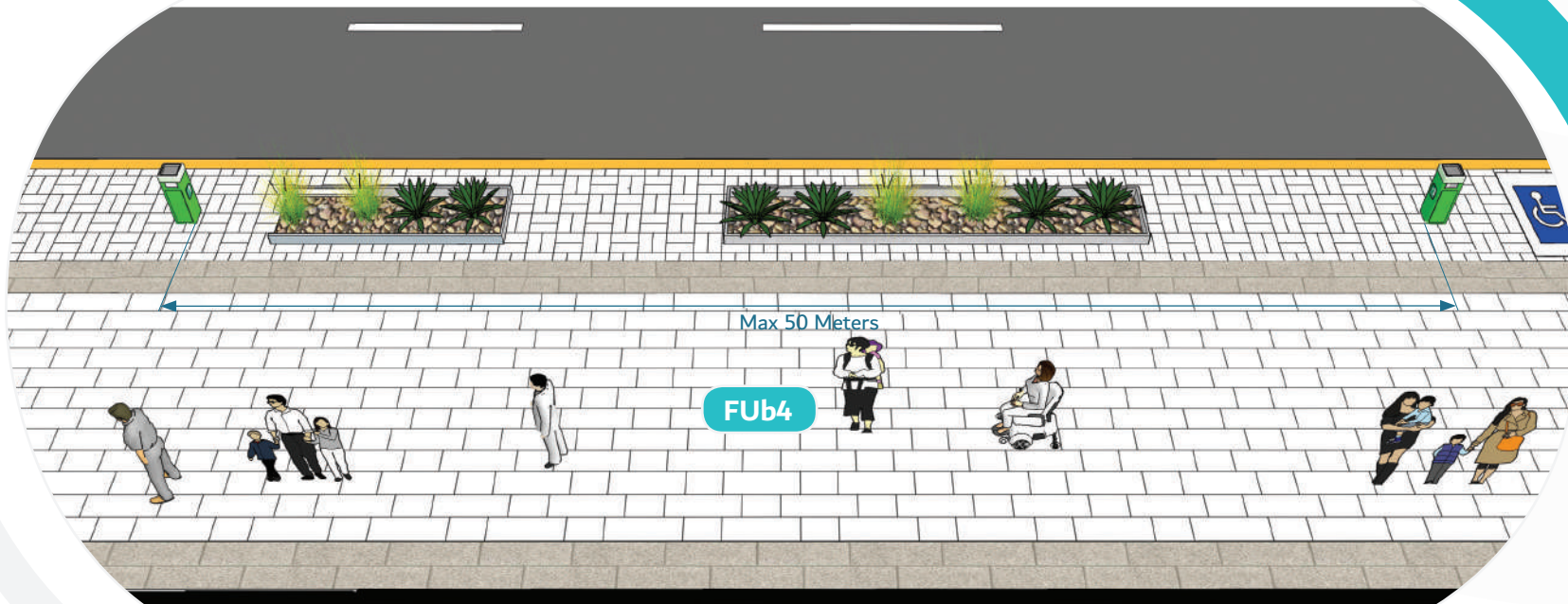


**FUb1** Not located in the accessible path

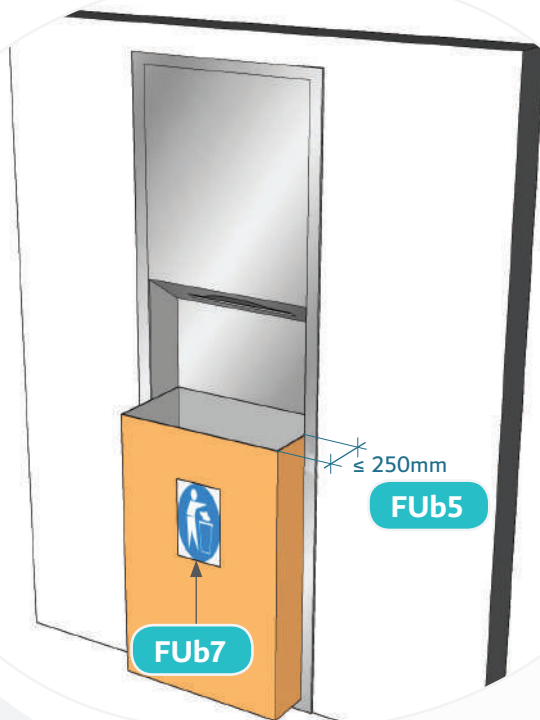
**FUb3** Trash bin opening height  $\leq 900\text{mm}$



**FUb2** Lateral space of interaction of at least  $865 \times 1420\text{mm}$

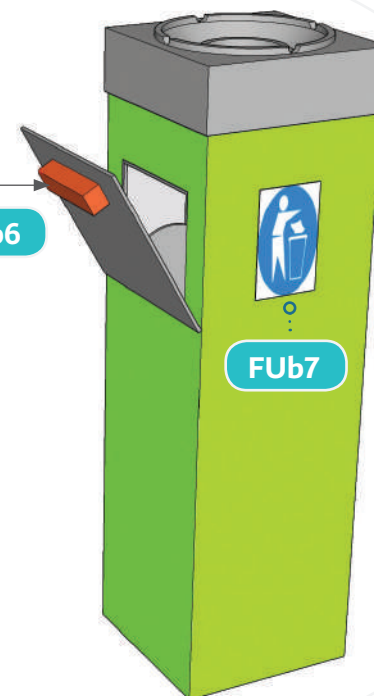






Push Button

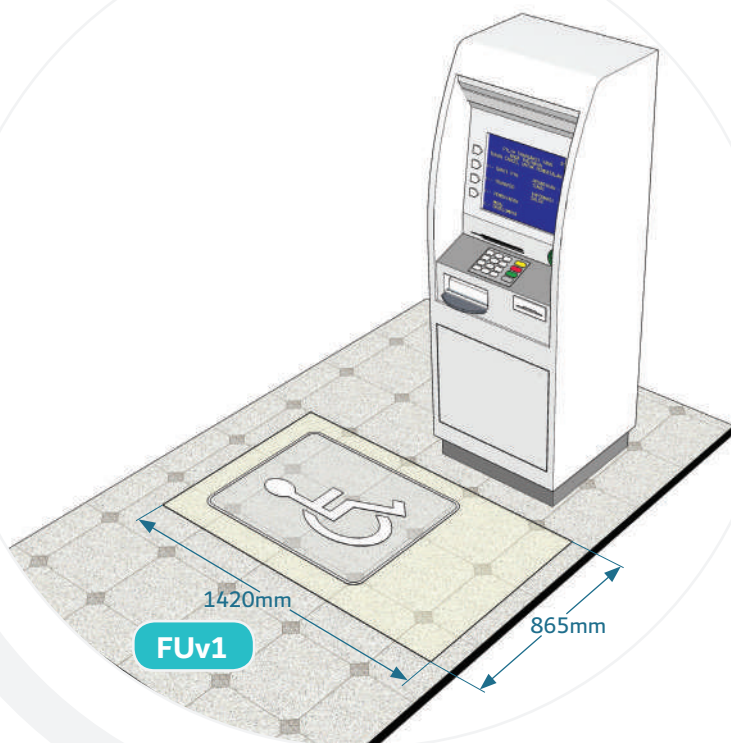
FUb6



**FUb5** When fixed to the walls protrude  $\leq 250\text{mm}$

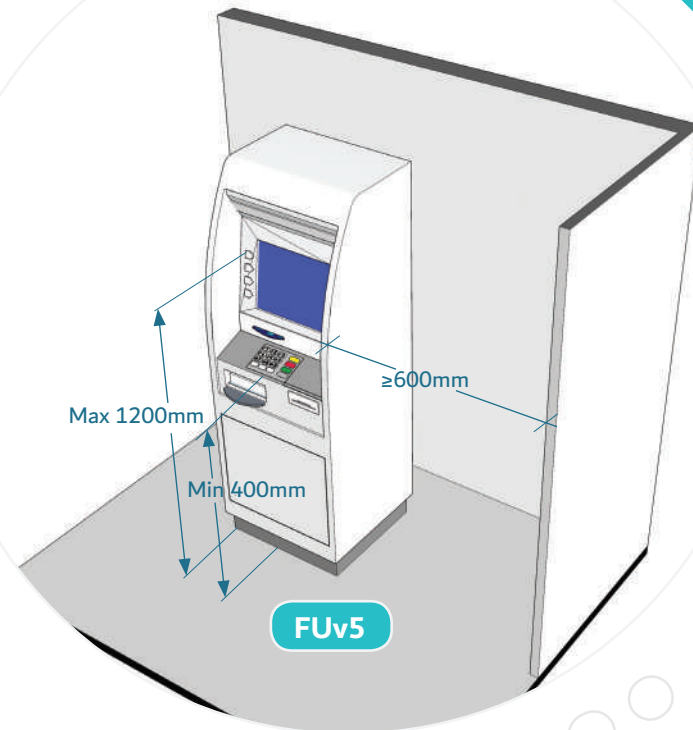
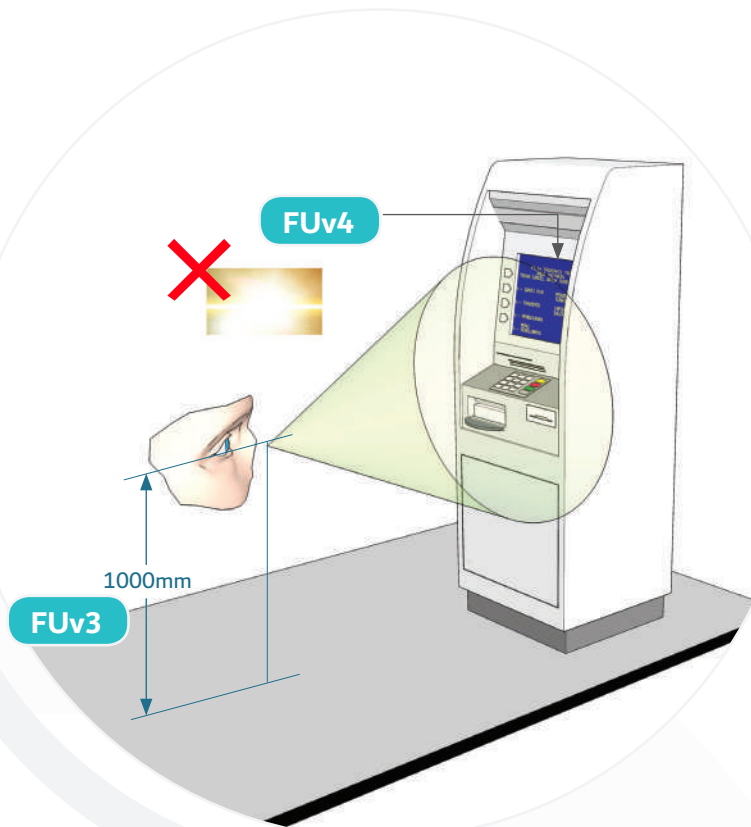
**FUb6** Operable with an elbow if opening mechanism is provided

**FUb7** Well contrasted signage



**FUv1** One frontal or lateral interaction space 865 - 1420mm

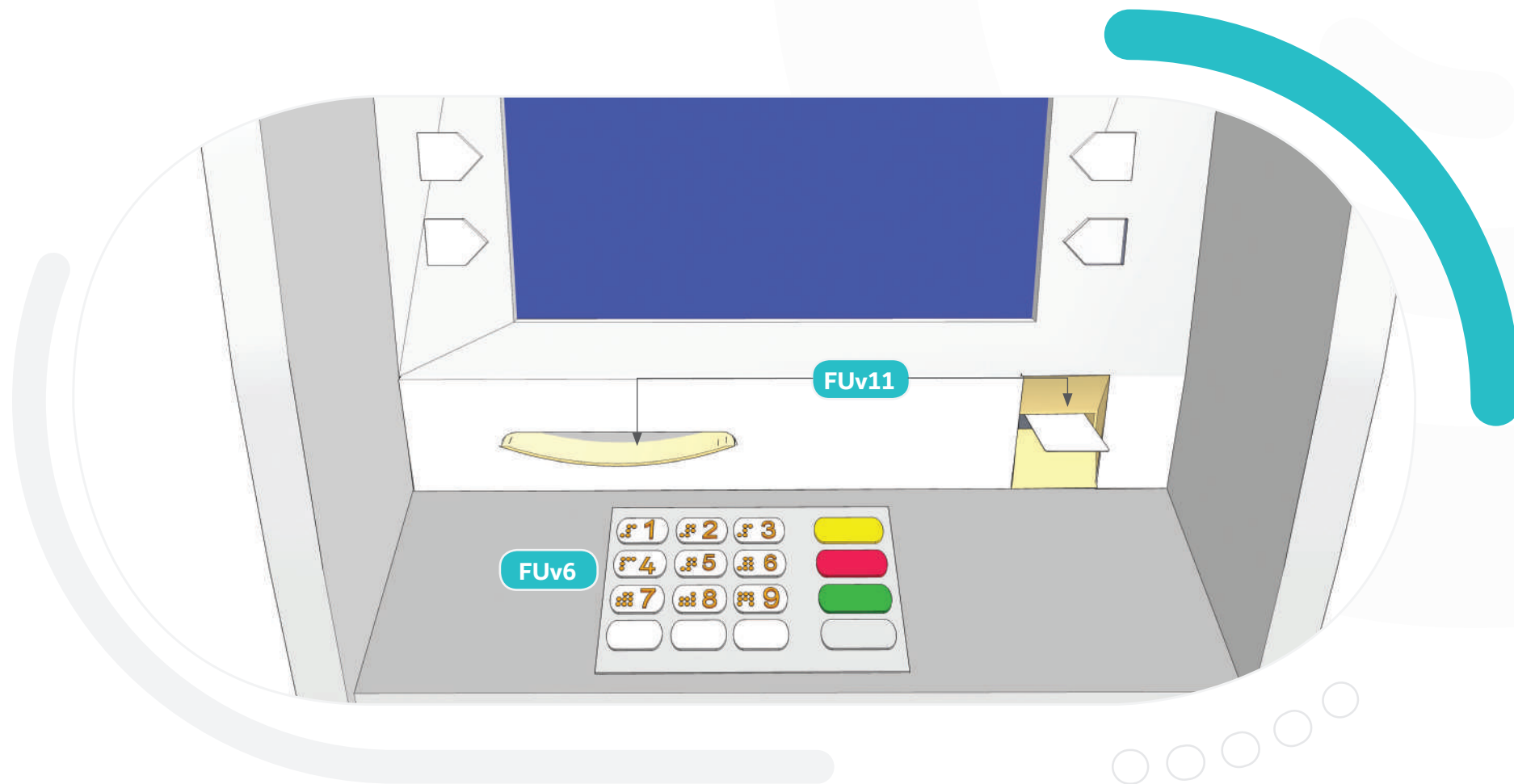
**FUv2** Floor surface is smooth, non-slippery with a gradient  $\leq 2\%$



**FUv3** Screen and keyboard are visible from a point located 1000mm above the floor

**FUv4** Screen and keyboard with no reflection or glare

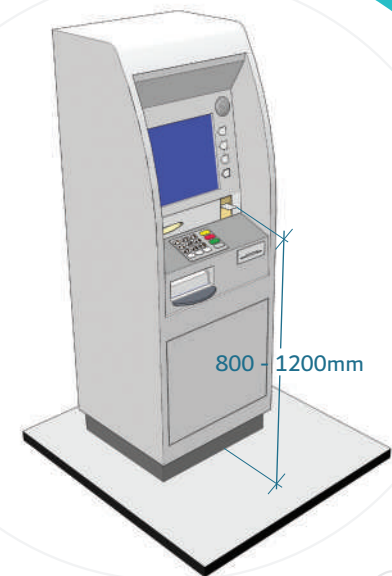
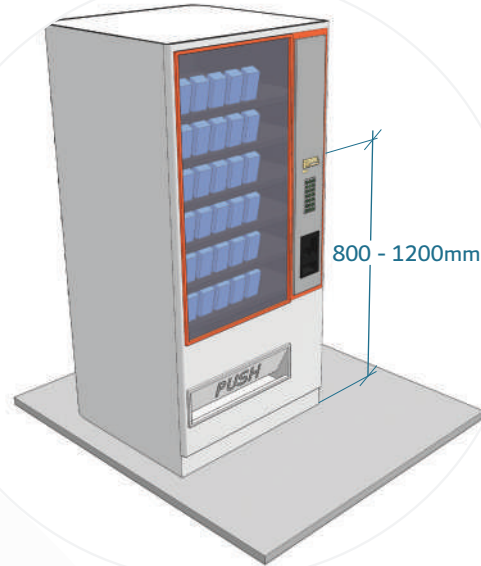
**FUv5** Control buttons height between 400 - 1200mm and  $\geq 600$ mm from any corner if exist



**FUv6** Control buttons with high embossed text and braille

**FUv11** Slots are wide and have a funnel effect

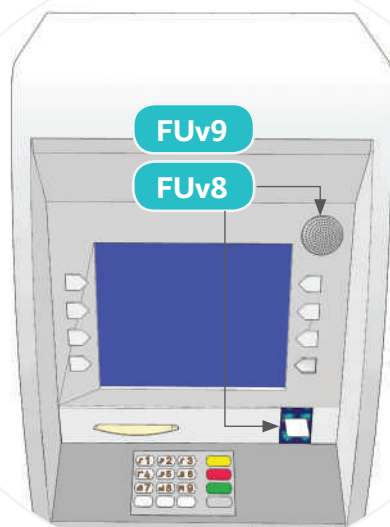
FUv7



FUv7

Card slot height between 800 - 1200 mm

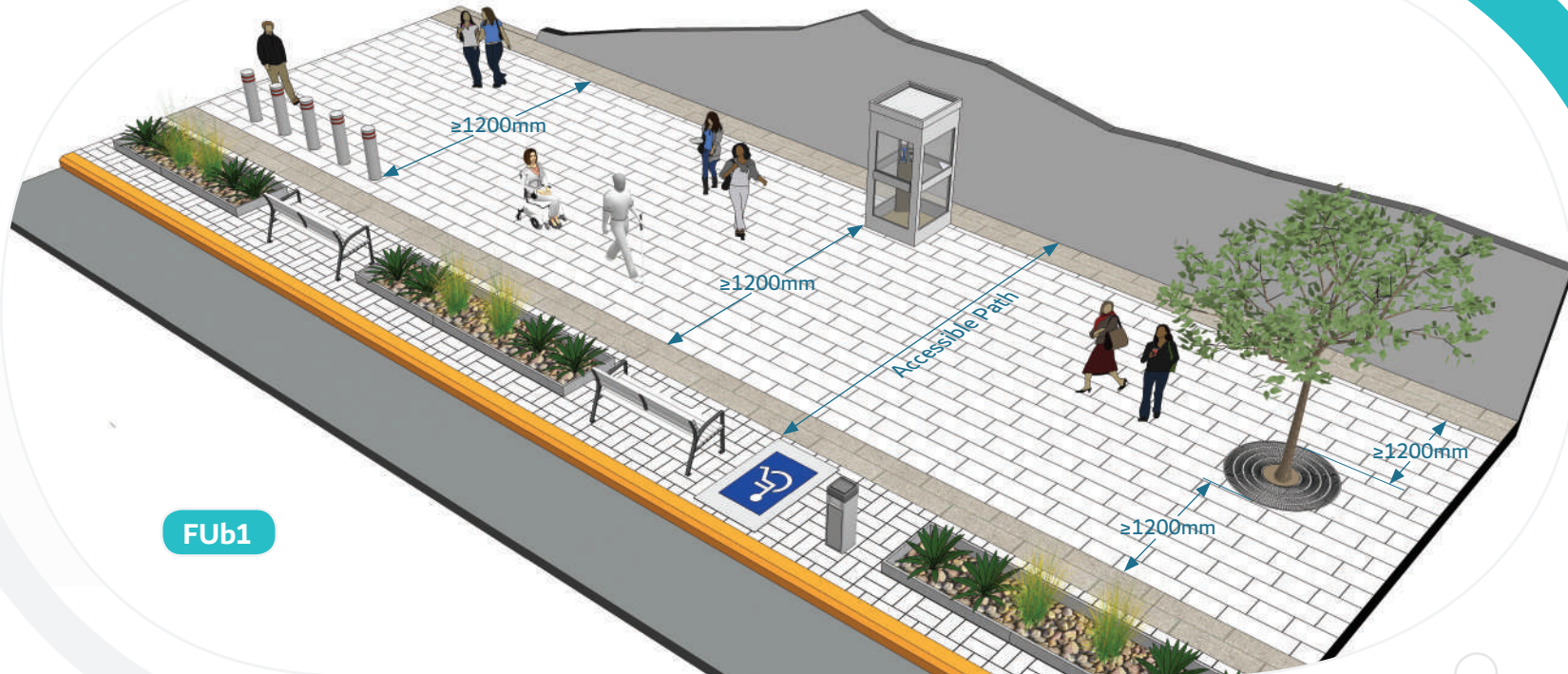




**FUv8** Visual and acoustic indication system and alarm system provided

**FUv9** Audio information provided

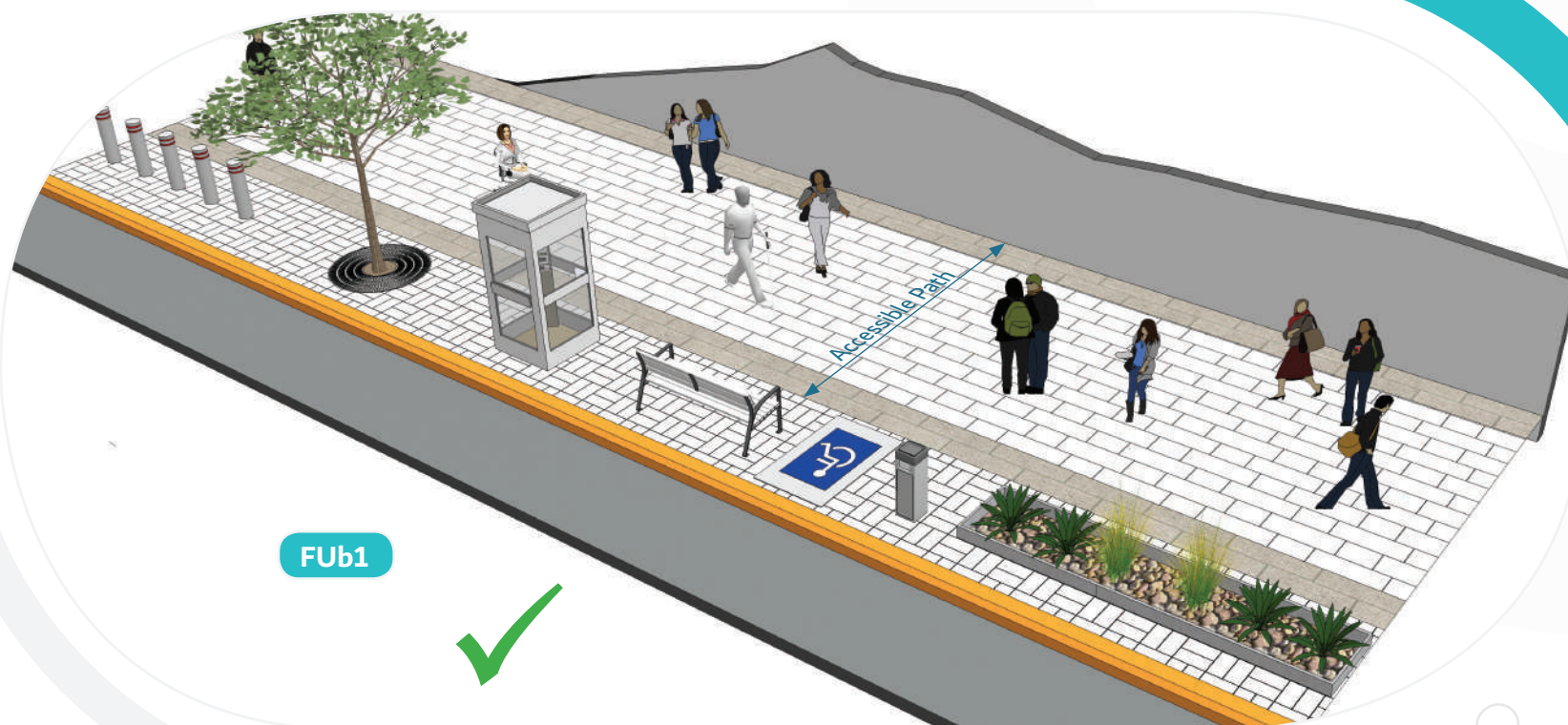
**FUv10** CCTV intercom provided



FUb1

FUb1

Outside the accessible path or do not reduce accessible path  $\leq 1200\text{mm}$

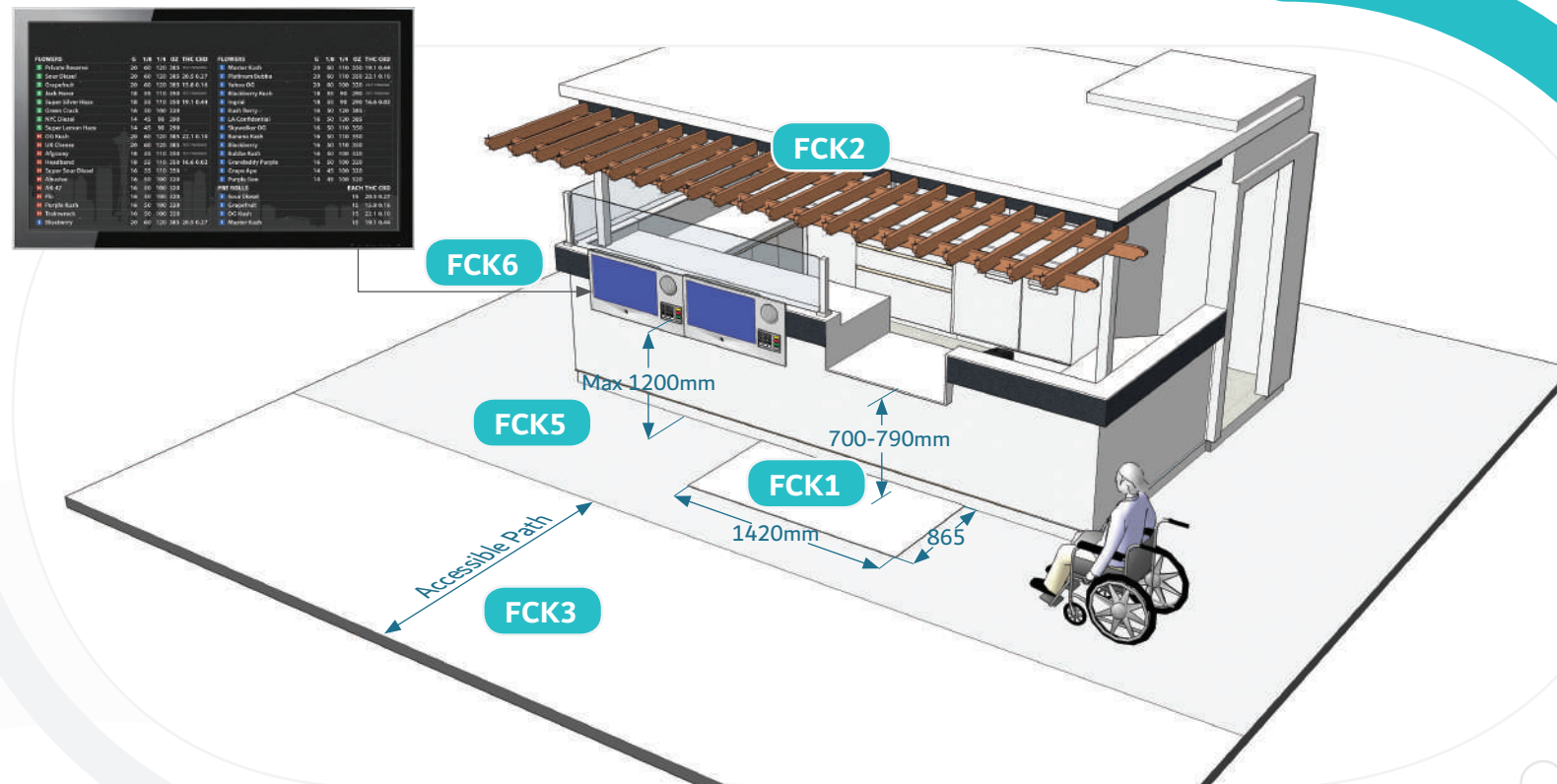


FUb1

FUb1

Outside the accessible path or do not reduce accessible path  $\leq 1200\text{mm}$





**FCK1** Customer counter with lateral or frontal interaction space 865 x 1420mm

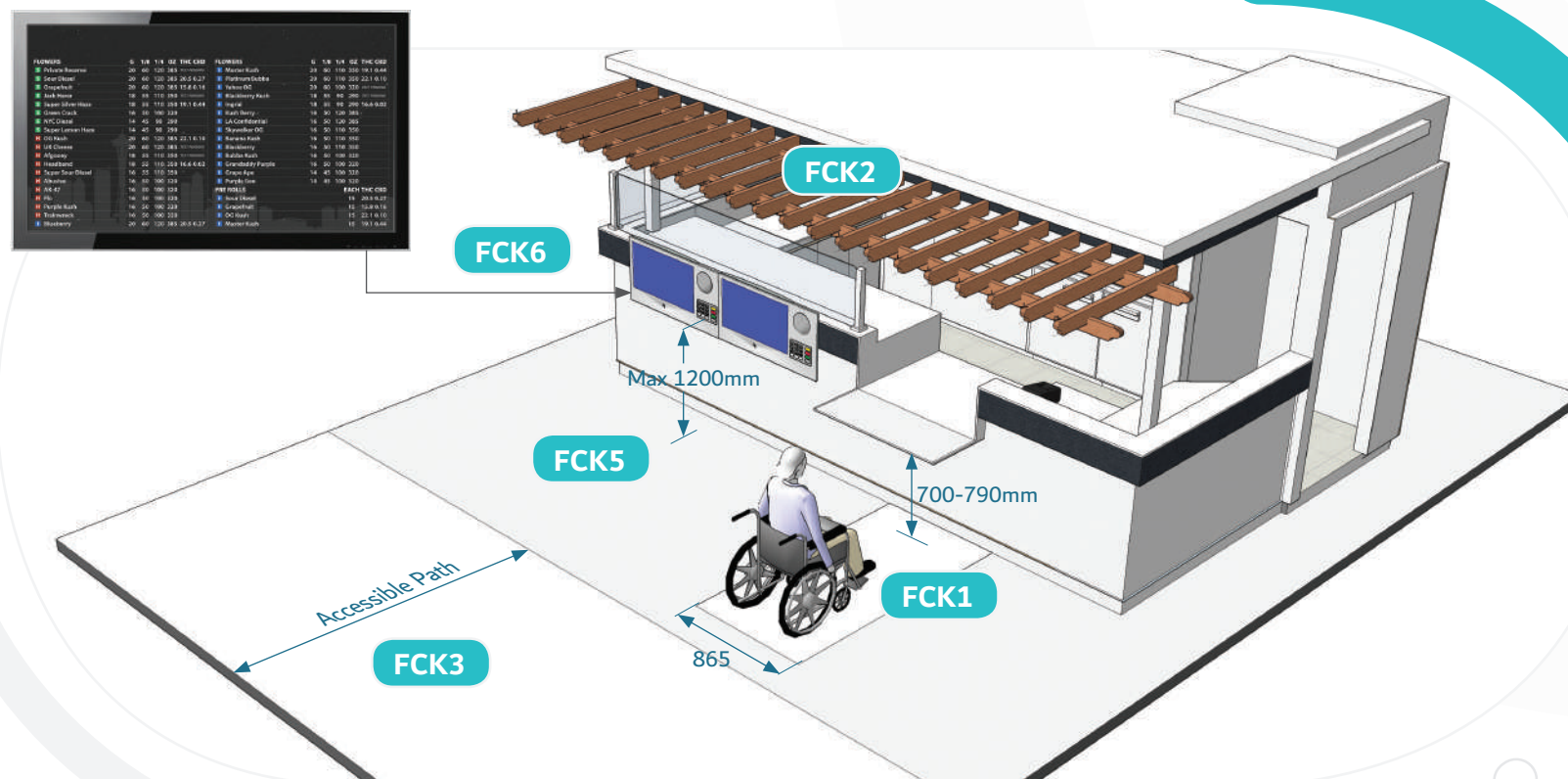
**FCK2** With pergola in the front side for outdoor

**FCK3** Linked to an accessible path

**FCK4** Equipped with hearing enhancement system and indicating post

**FCK5** Controls at height of 1200mm

**FCK6** Audio and Visual information provided



FCK1

Customer counter with lateral or frontal interaction space  
865 x 1420mm

FCK2

With pergola in the front side for outdoor

FCK3

Linked to an accessible path

FCK4

Equipped with hearing enhancement system and  
indicating post

FCK5

Controls at height of 1200mm

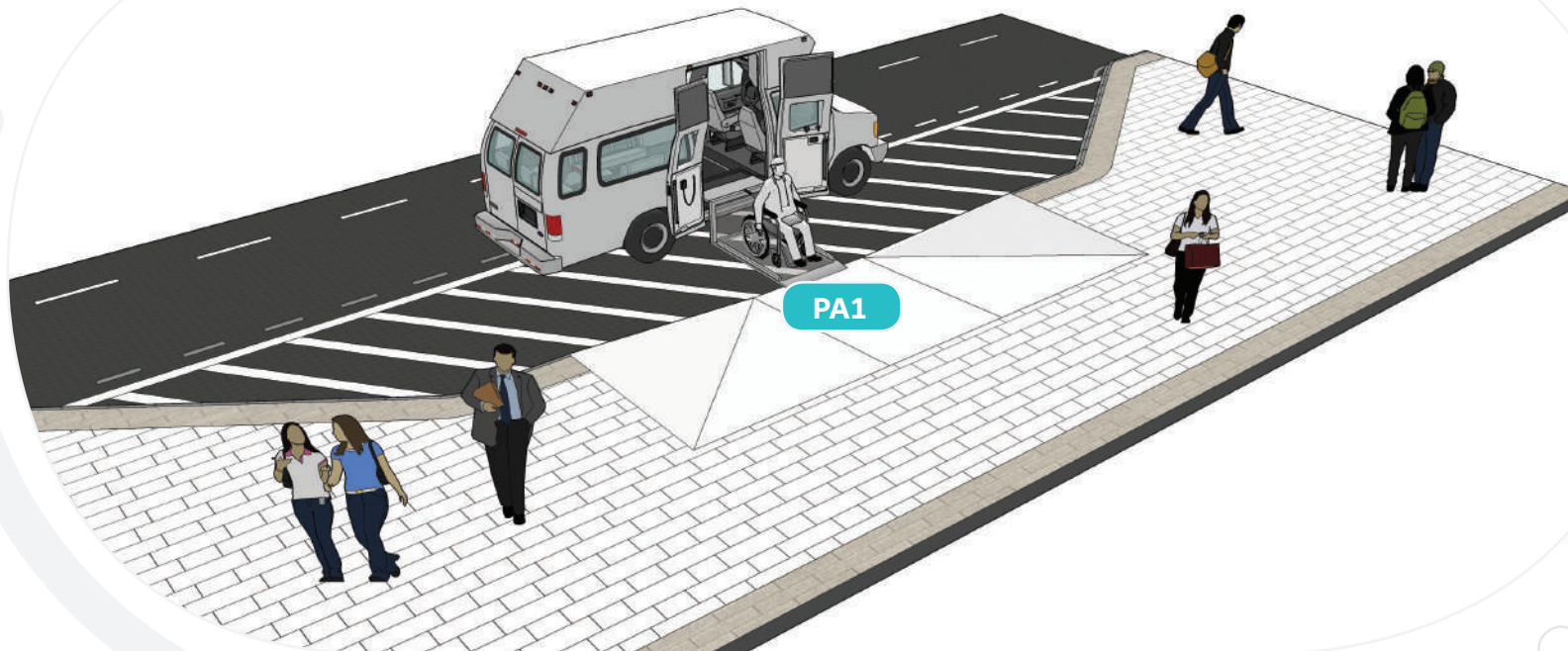
FCK6

Audio and Visual information provided



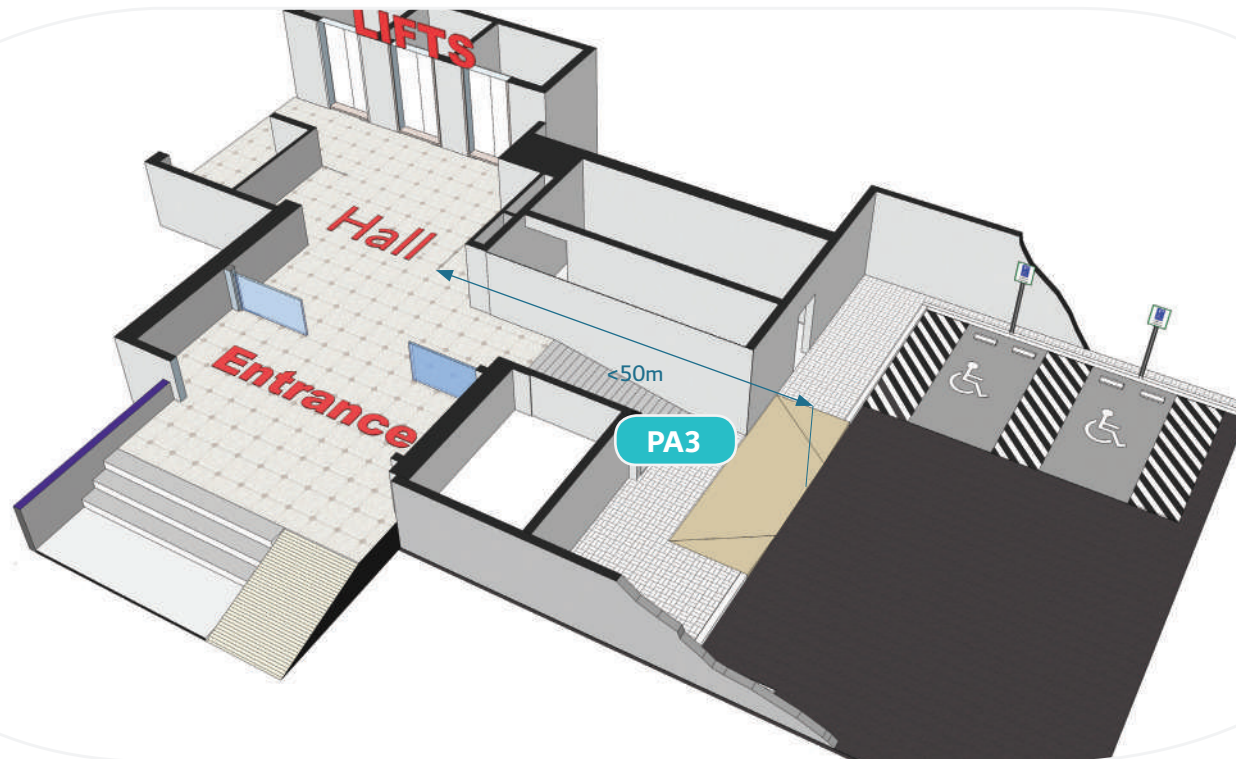
**Parking and  
drop off point**





PA1

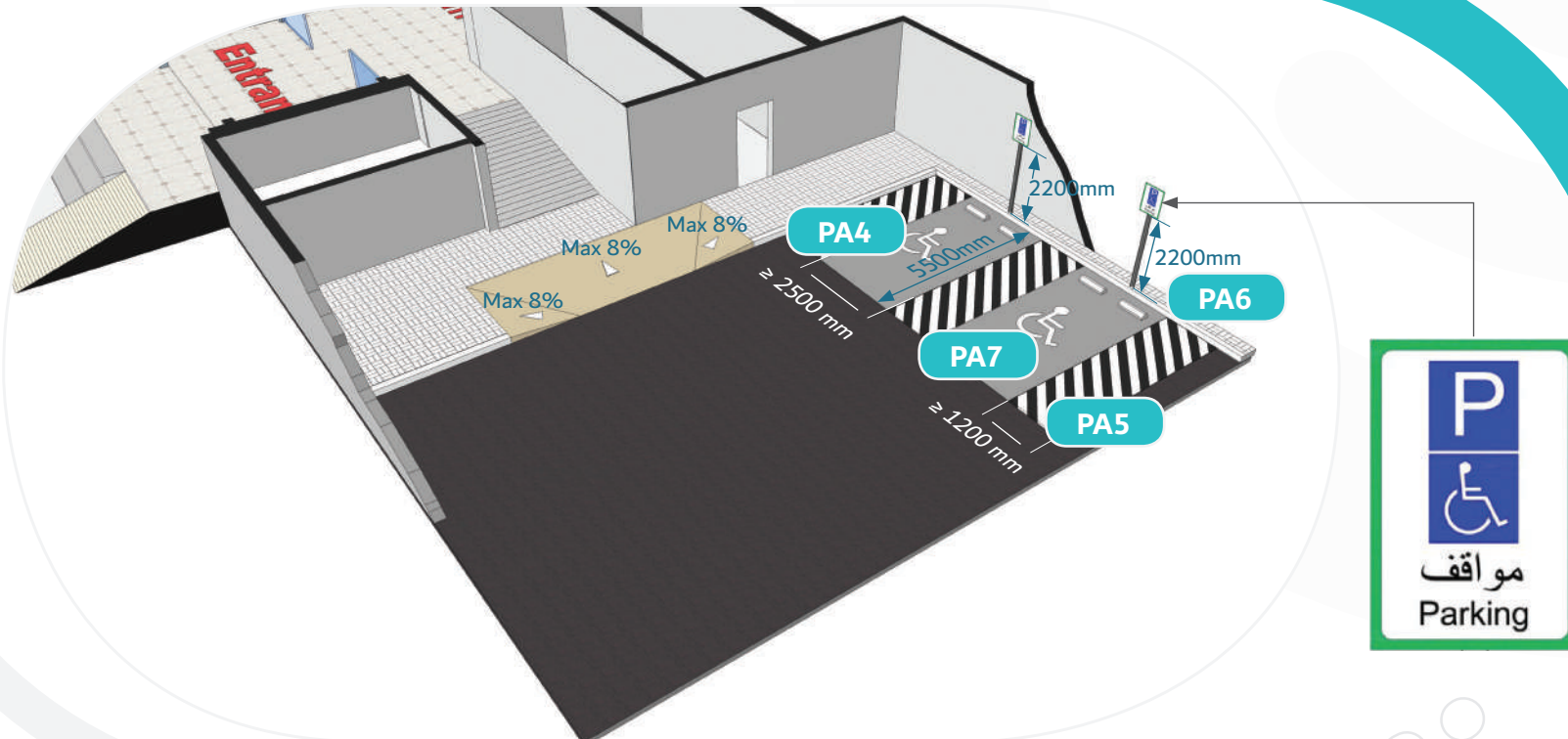
Pick up &amp; drop off area provided



**PA2** Number of accessible parking lots: 2% of the Total Parking, max 10 spots

**PA3** Accessible spaces as close as possible to the entrance of the building and no more than 50m





PA4

Dimensions of accessible parking spaces:  
2500 x 5500mm for angled parking,  
2600 x 6000mm for parking along the sidewalk

PA5

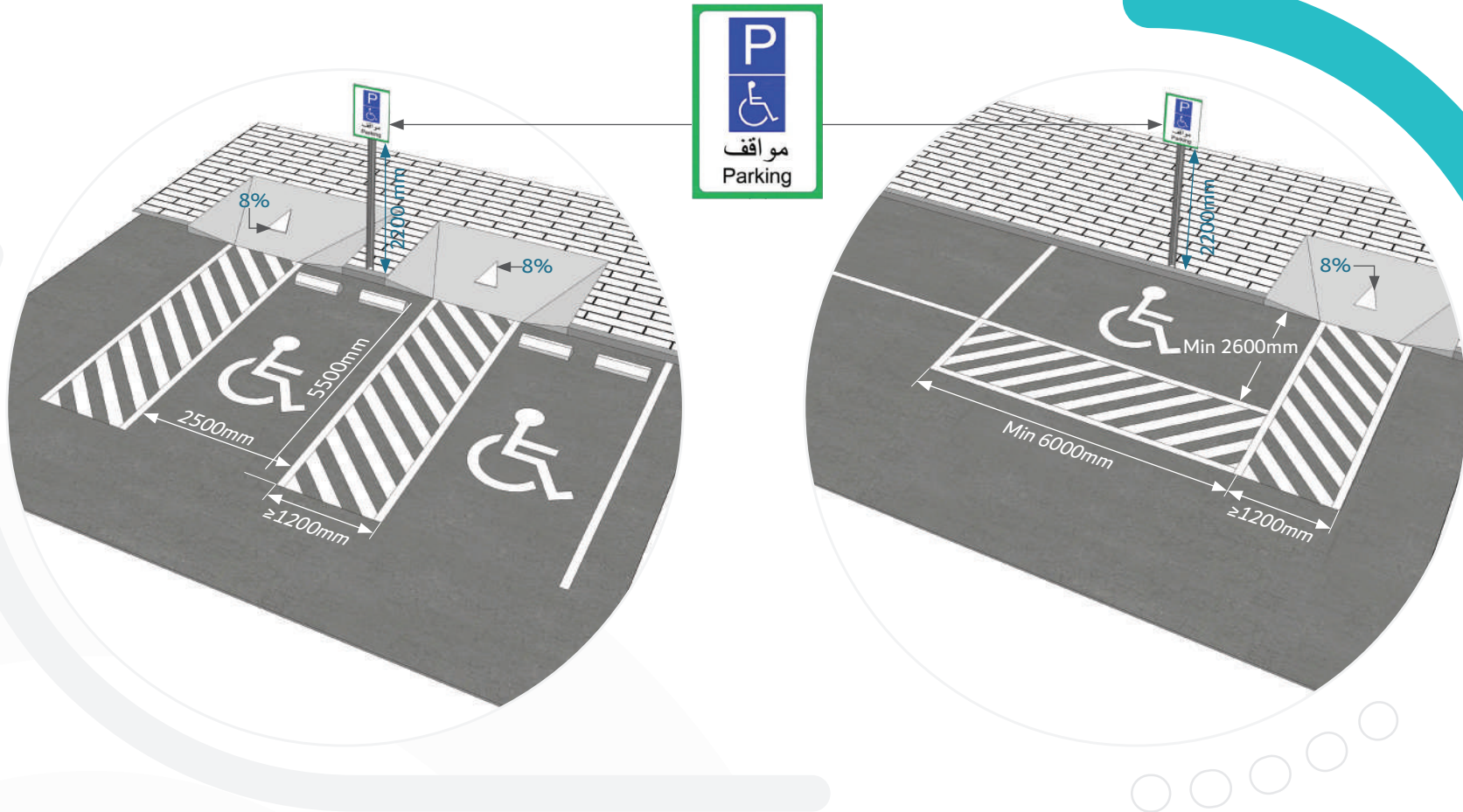
With lateral access aisle  $\geq 1200\text{mm}$

PA6

Signs mounted at 2200mm with international symbol

PA7

Marked with international symbols



PA4

Dimensions of accessible parking spaces:  
2500 x 5500mm for angled parking,  
2600 x 6000mm for parking along the sidewalk

PA5

With lateral access aisle  $\geq 1200\text{mm}$

PA6

Signs mounted at 2200mm with international symbol

PA7

Marked with international symbols

PA8

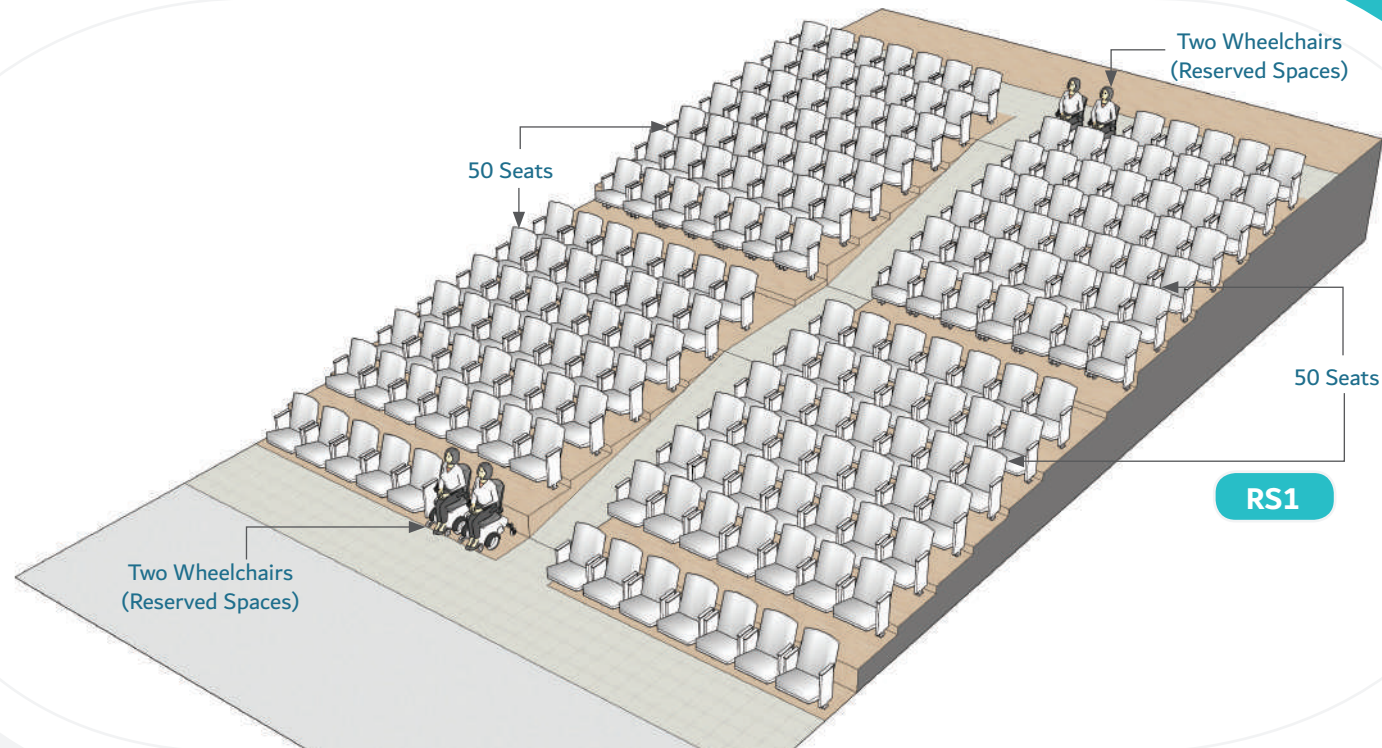
Curb cut with maximum 8% slope





# Reserved Seating Spaces

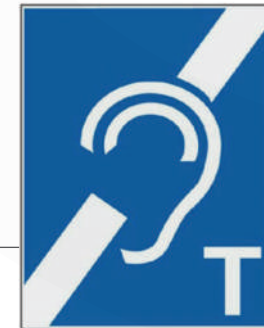
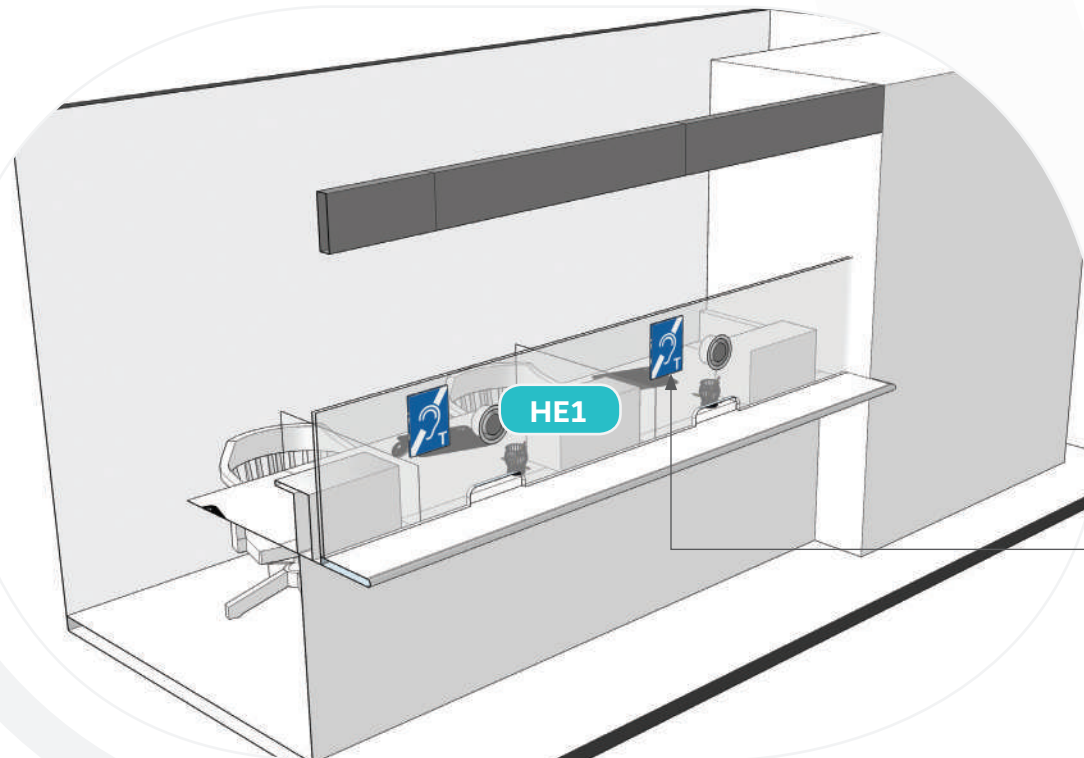


**RS1**

Number of reserved seats: one reserved wheelchair space for every 50 seats or fraction thereof and beyond 500 seats, one more every 100 seats of fraction thereof , as on general checklist GAU

# Hearing Enhancement





HE6

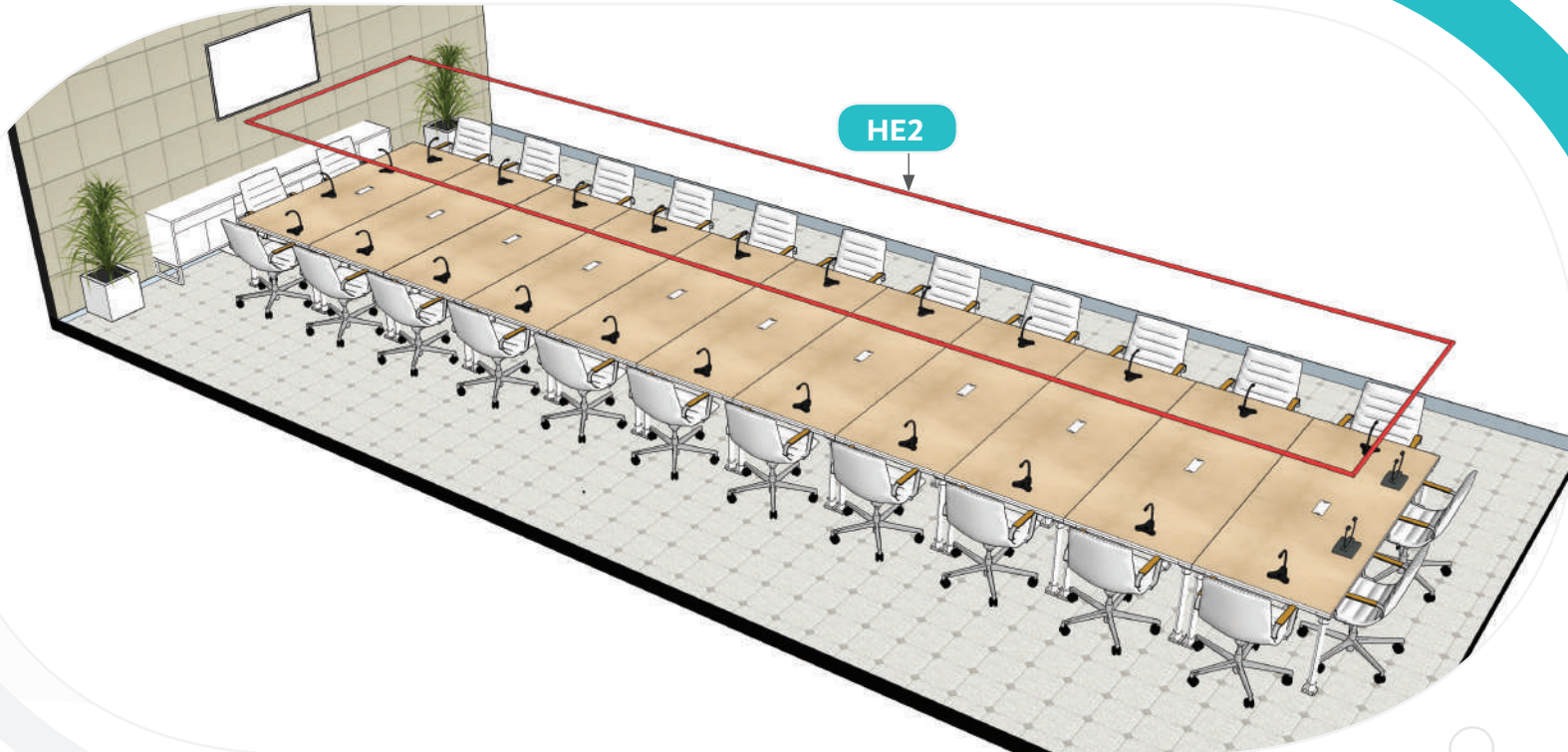
HE1

Hearing enhancement system is provided in the service counters and assembly areas

HE6

International symbol of access for hearing loss is provided, when the system is provided for persons with hearing impairment





**HE2** Hearing enhancement system is provided in the meeting rooms serving more than 25 person

**HE3** Hearing enhancement system provided in the auditoriums and theaters

**HE4** Posted sign to indicate that the enhancement system is available

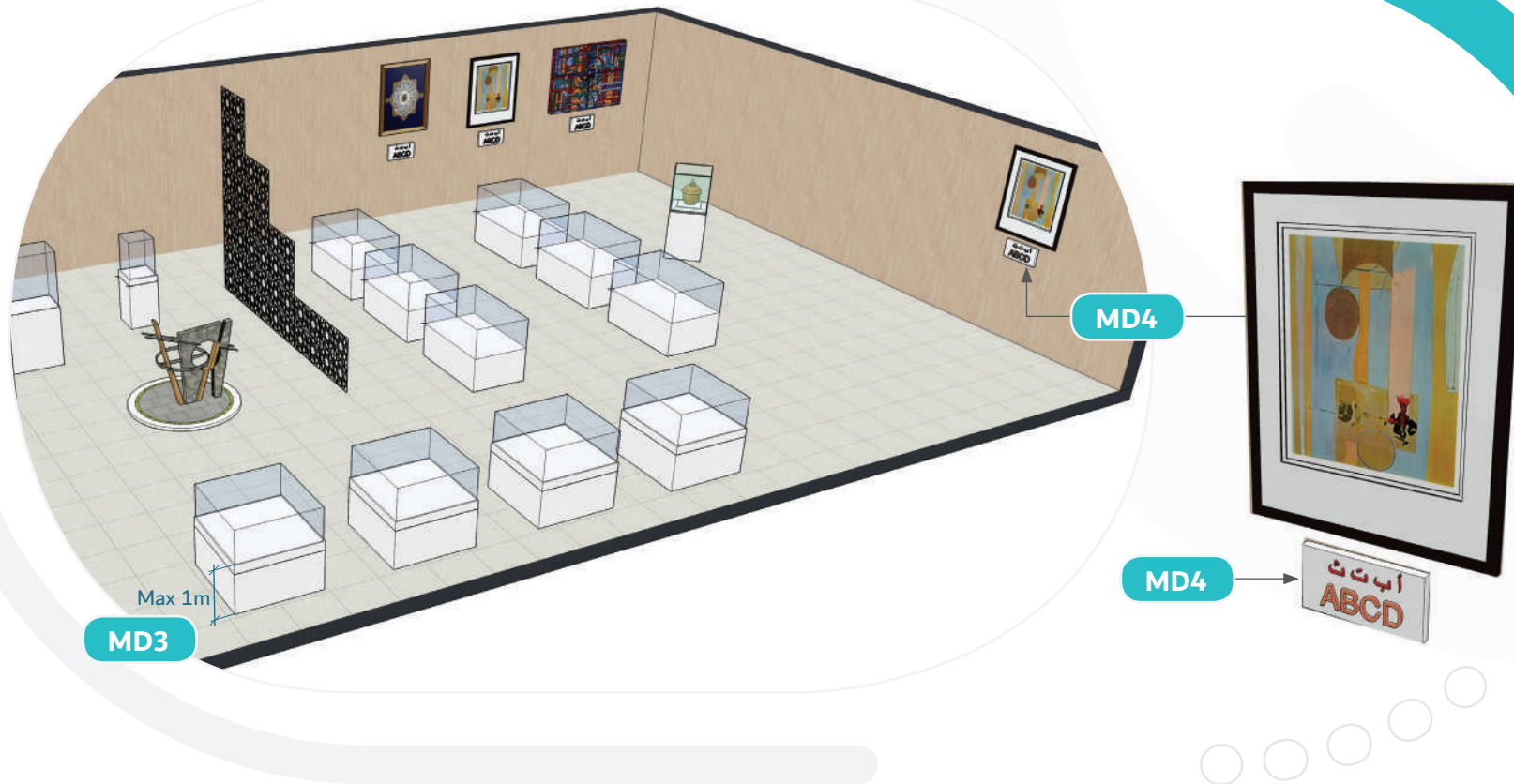
**HE5** Compatible with language translation system

**HE7** Induction loop provided when acoustic information is provided



# Museums Design Aspects



**MD1**

Sensorial elements used to assist visitors to perceive the informations through different senses, like lights, smells, sounds, colours and others.

**MD2**

Audio guides provided to explain, guide and assist the visitors

**MD3**

Displays are visible at a maximum height of 1 m

**MD4**

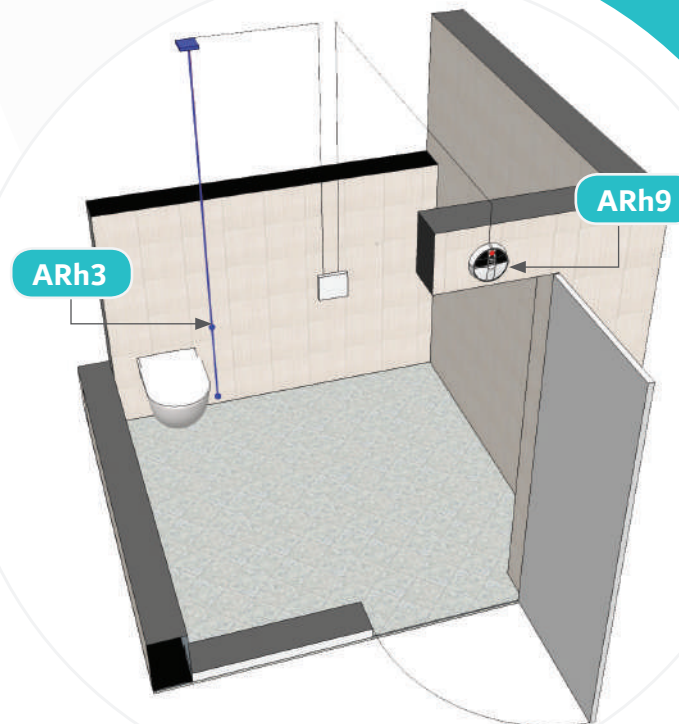
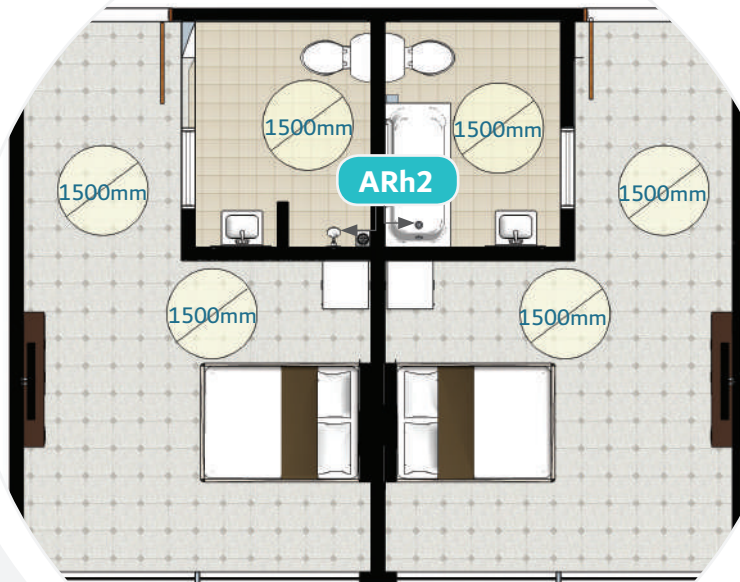
Signage of at least 14 pt and well illuminated



# Accessible Room





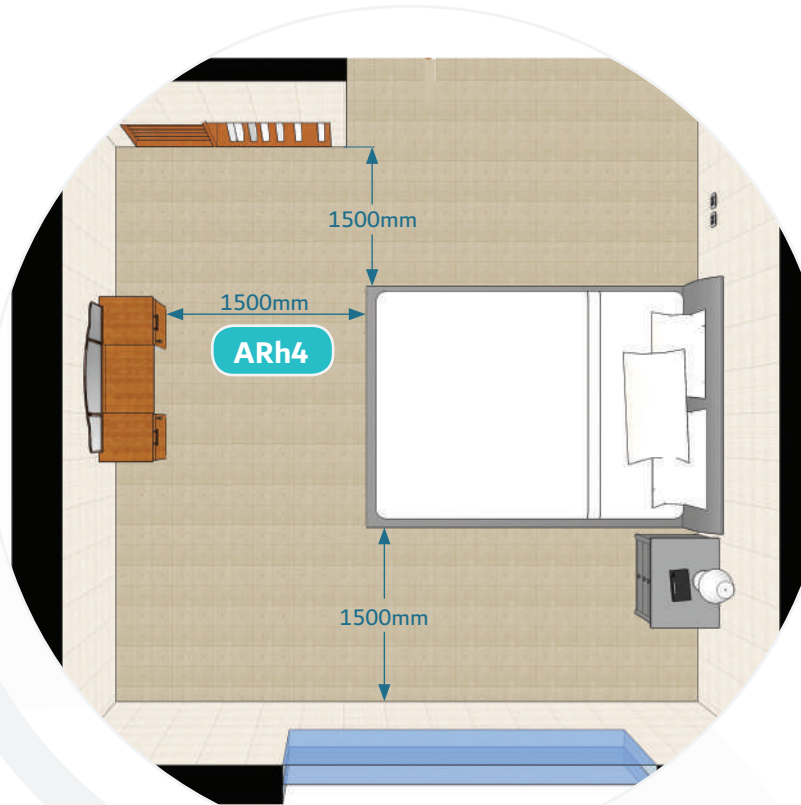


**ARh1** 2% of rooms are accessible with accessible toilet

**ARh2** Half of the accessible hotel rooms with roll-in showers and other half bathtub

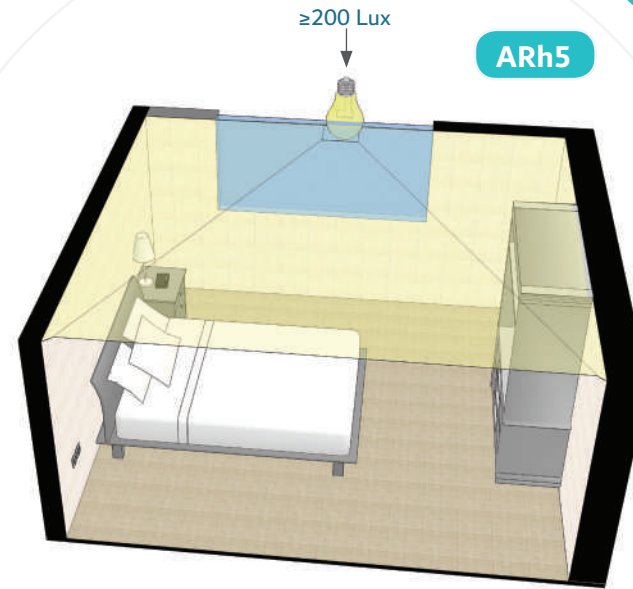
**ARh3** Toilet with alarm string

**ARh9** Acoustic and visual fire alarm provided and audible door bell



ARh4

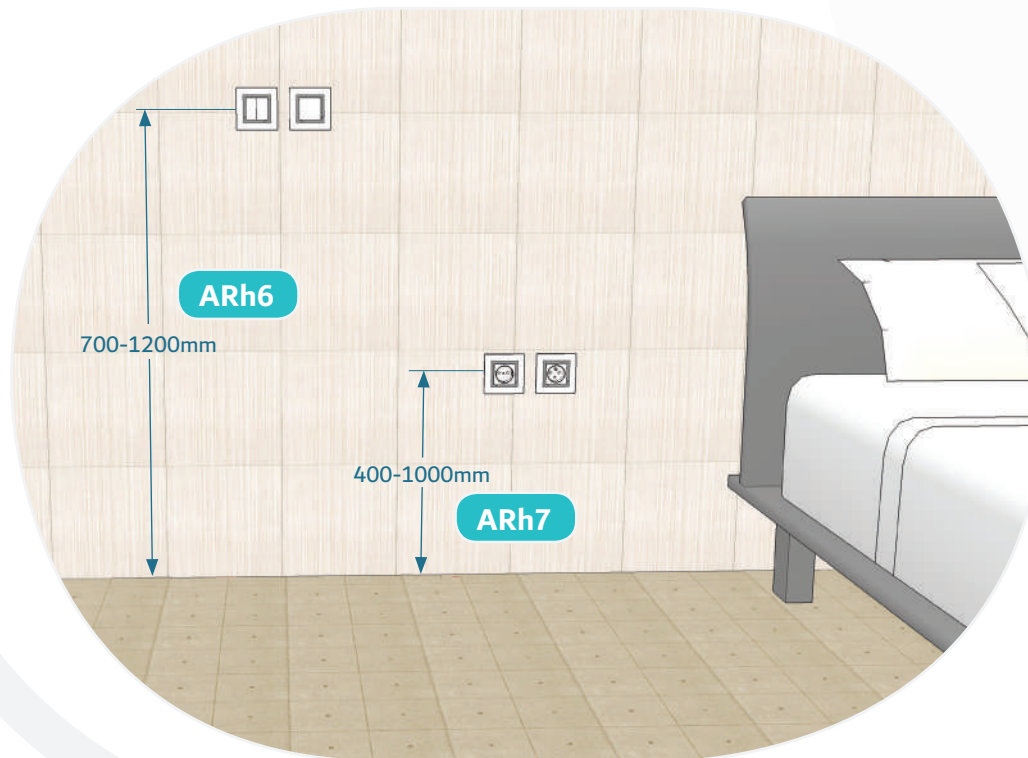
Clear route &amp; 1500 x 1500mm free space beside the bed



ARh5

ARh5

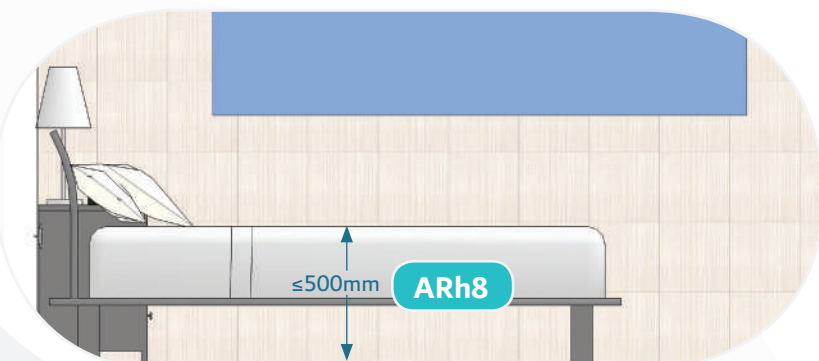
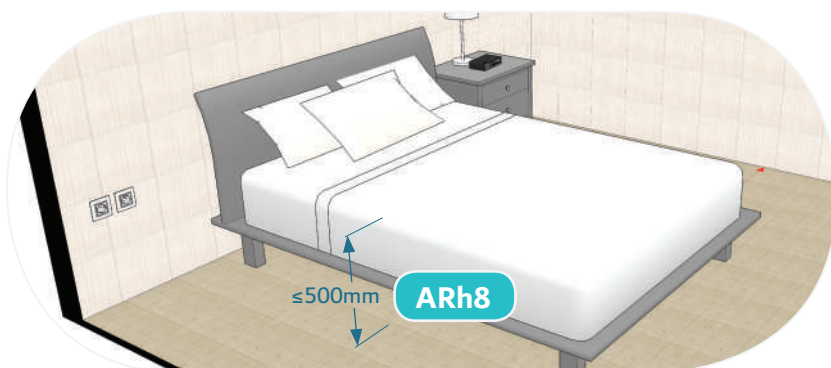
Illumination  $\geq 200$  lux



**ARh6** Controls placed at height between 700 - 1200mm

**ARh12** Viewing device provided in the door at height 800 - 1000mm

**ARh7** Electronic outlets at height between 400 - 1000mm



**ARh8** The bed height  $\leq 500\text{mm}$

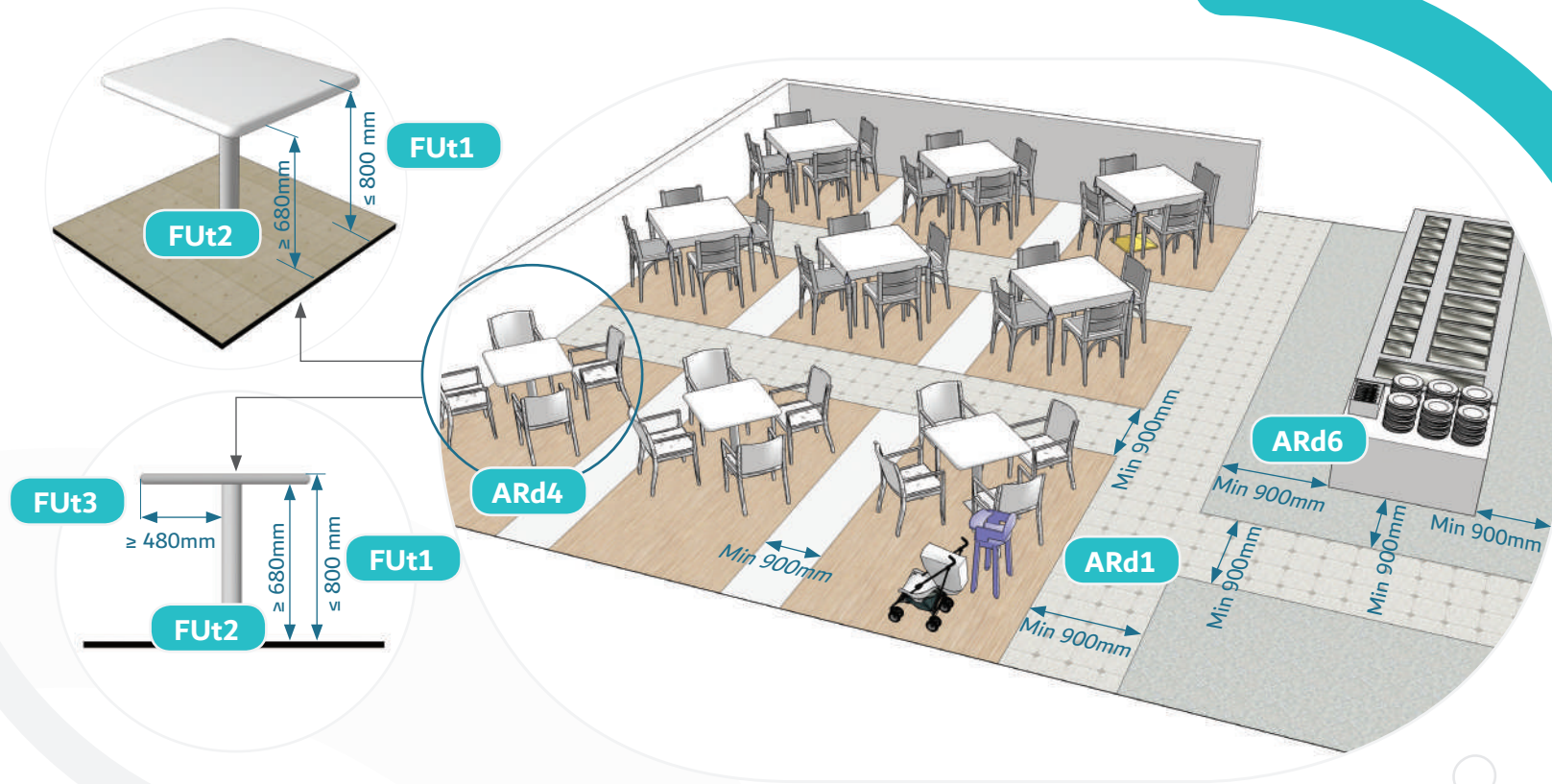
**ARh10** Dressing mirror provided with front space up to  $2000\text{mm}$





**ARh11** Shelves and drawers are provided between 700 -1200mm from the floor and clothes hanger placed at height 1200mm

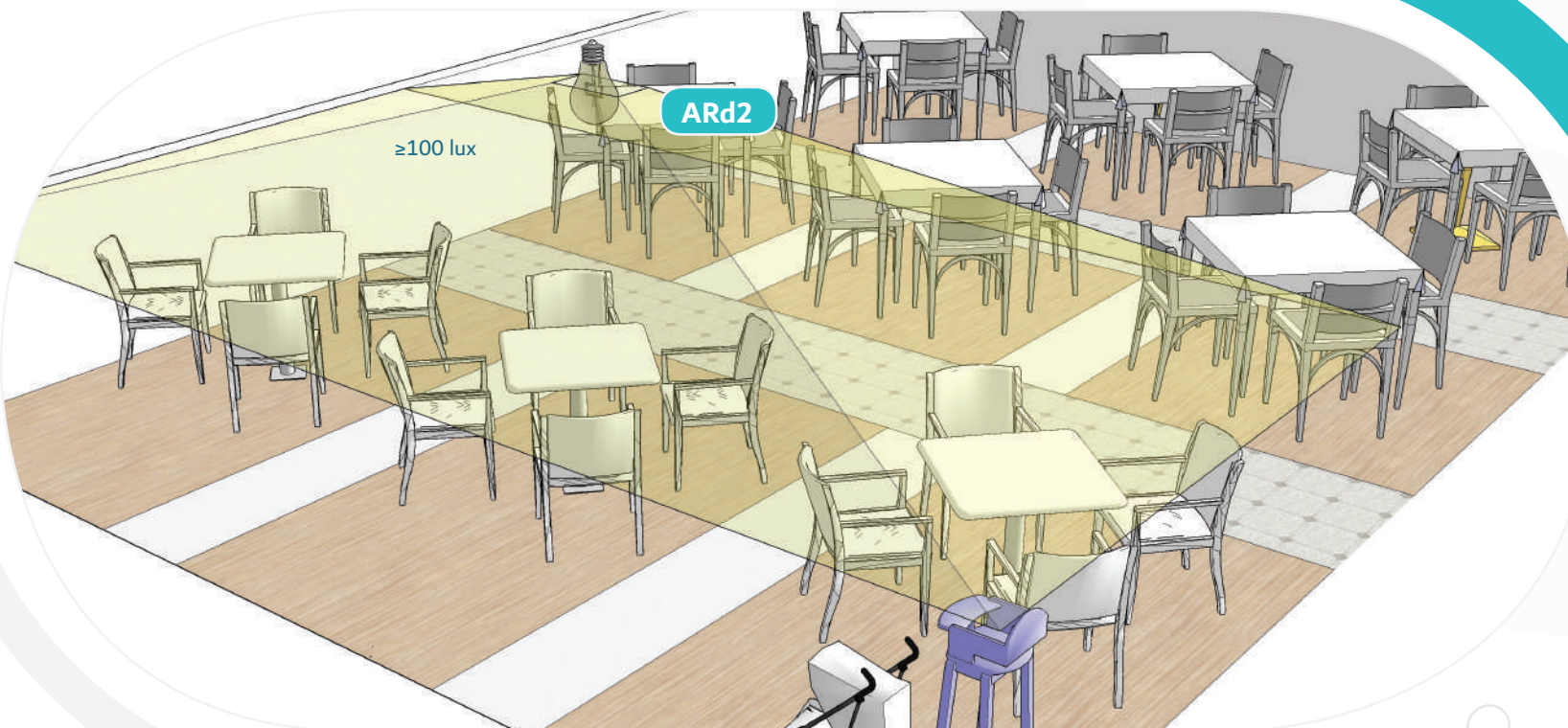




**ARd1** Accessible path of travel provided to half of dining area (900mm minimum)

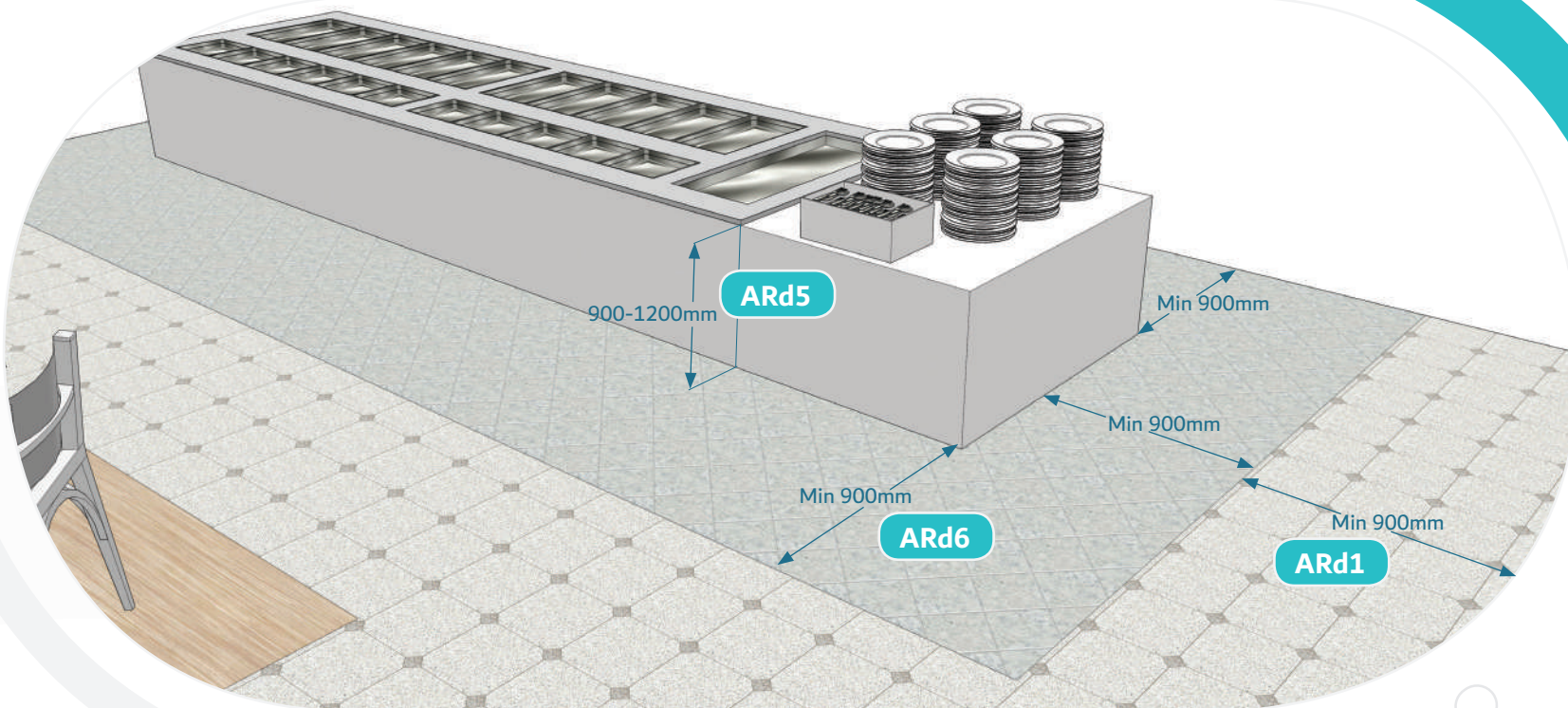
**ARd4** 10% of the tables shall comply with the dimensional criteria for tables

**ARd6** Minimum 900mm clear passage to all food service area



**ARd2** Illumination  $\geq 100$  lux provided in at least 10% of dining rooms

**ARd3** Sound reduction materials used in dining rooms, floors and walls made of washable materials

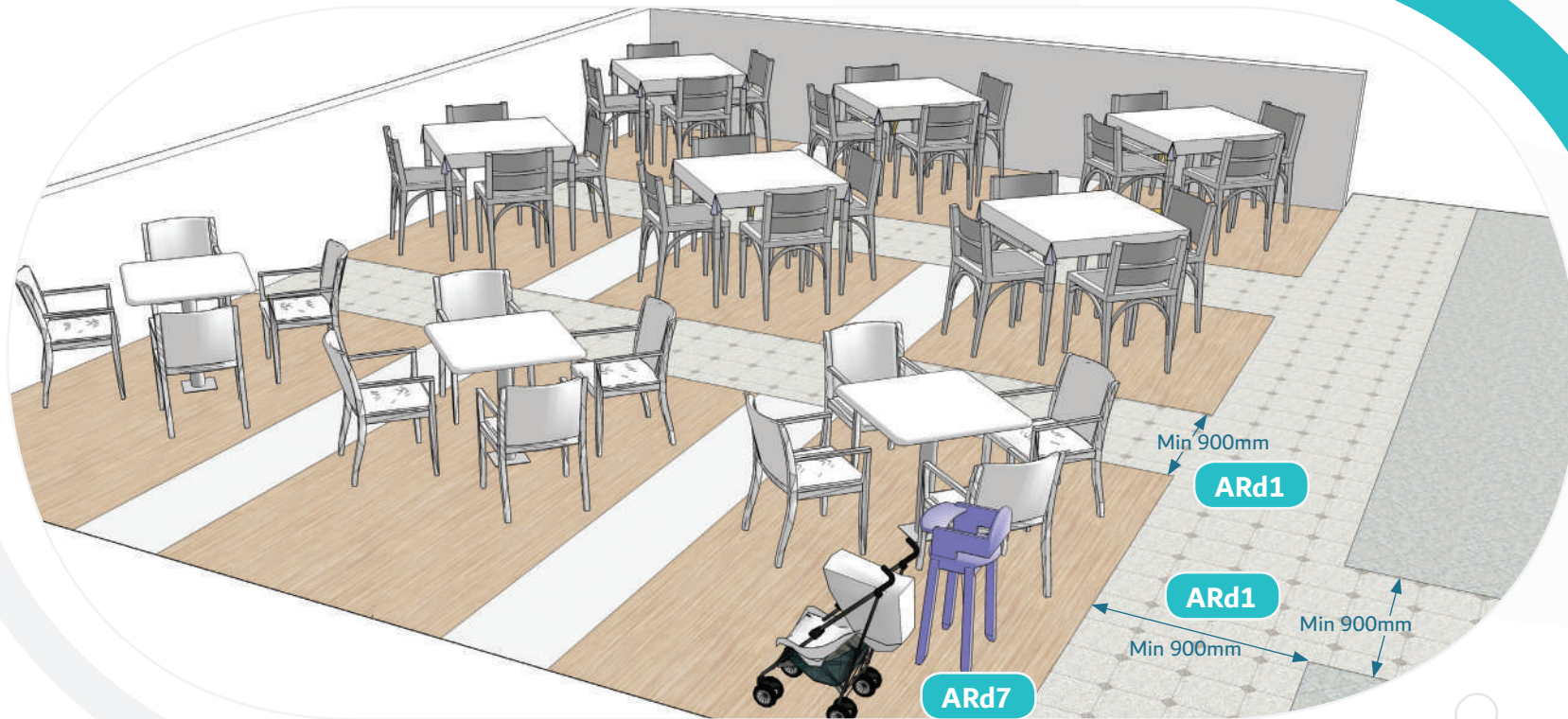


**ARd1** Accessible path of travel provided to half of dining area (900mm minimum)

**ARd5** The self service tables height located between 900 - 1200mm from the floor)

**ARd6** Minimum 900mm clear passage to all food service area





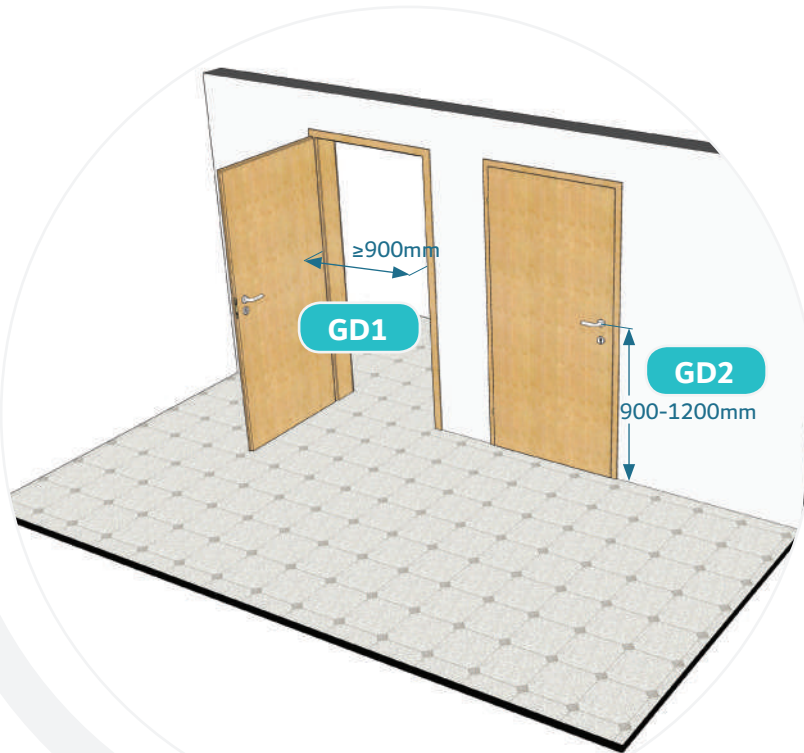
**ARd1** Accessible path of travel provided to half of dining area (900mm minimum)

**ARd7** Spaces for children strollers and mobility devices are provided, 10 seats are movable

**General**





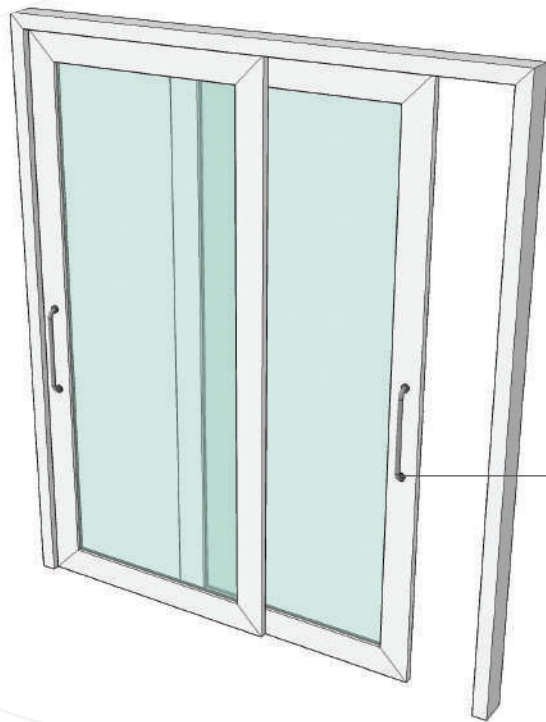


**GD1** Have a free passage width  $\geq 900\text{mm}$

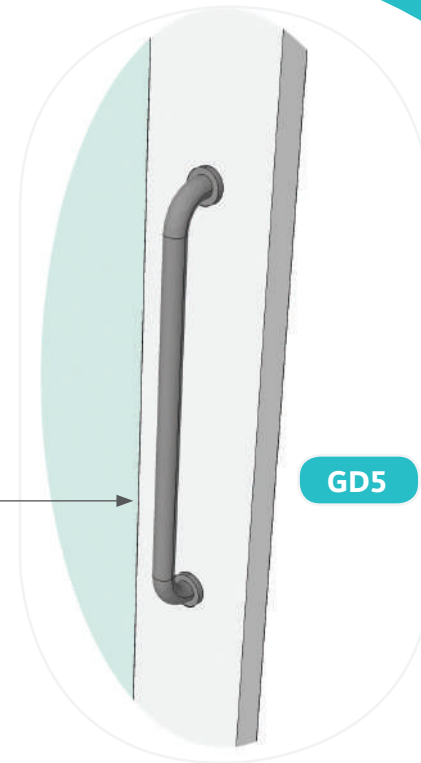
**GD2** 900-1200mm handle of opening mechanism height and operable by elbow or automatic

**GD3** 40mm free gap minimum between lever (handle) and the door surface

**GD4** No round knobs



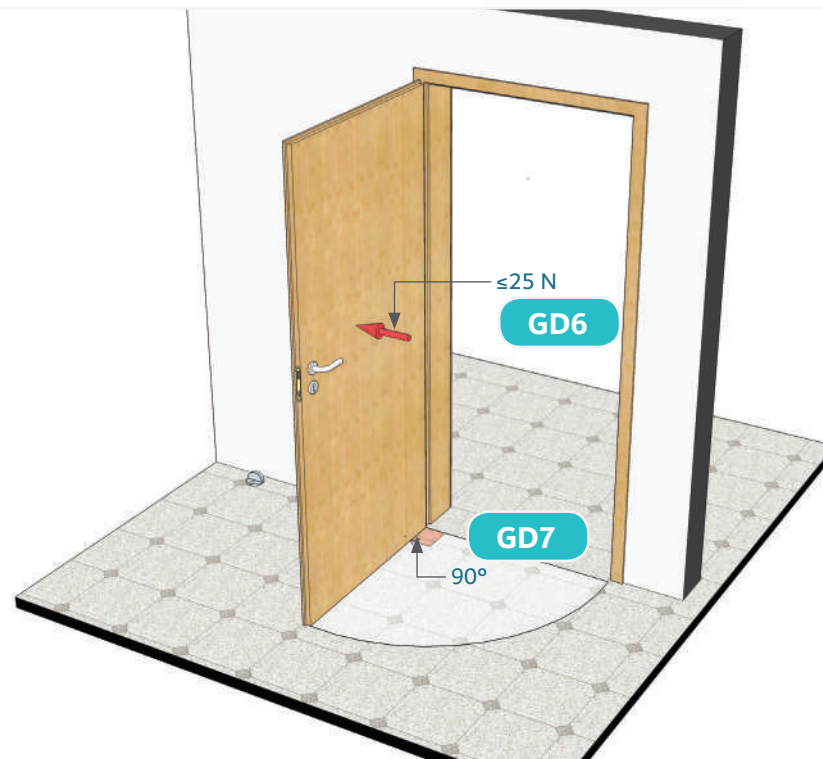
GD5



GD5

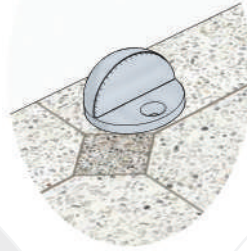
GD5

Sliding doors with vertical fixed opening bars



**GD6** Force to open the door  $\leq 25 \text{ N}$

**GD7** Swinging door open  $90^\circ$



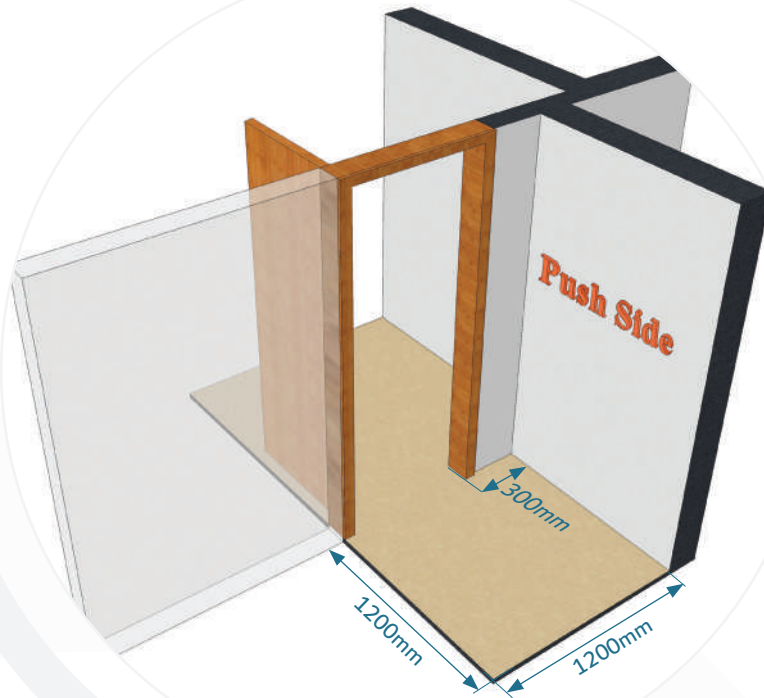
**GD8** Door stoppers provided

**GD9** 250mm height kick plate provided to doors in high use areas

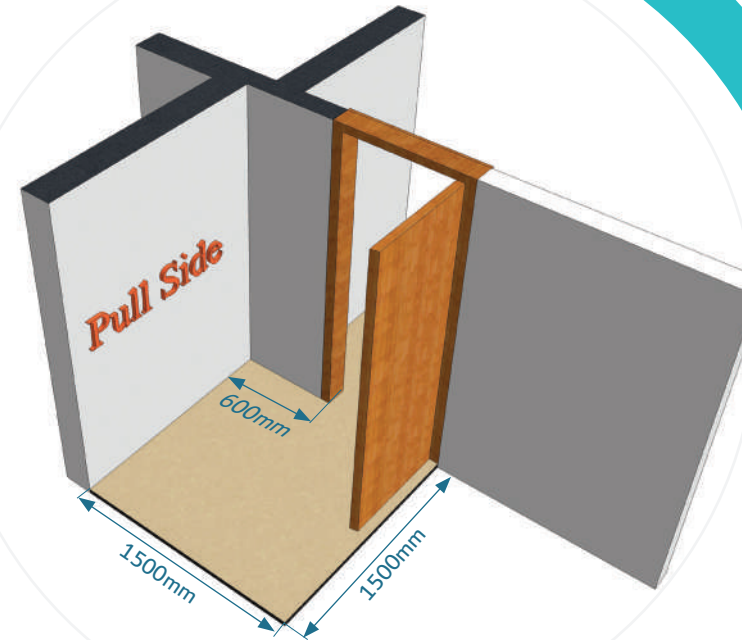


**GD10** Alternative door provided when there is a revolving door





GD11

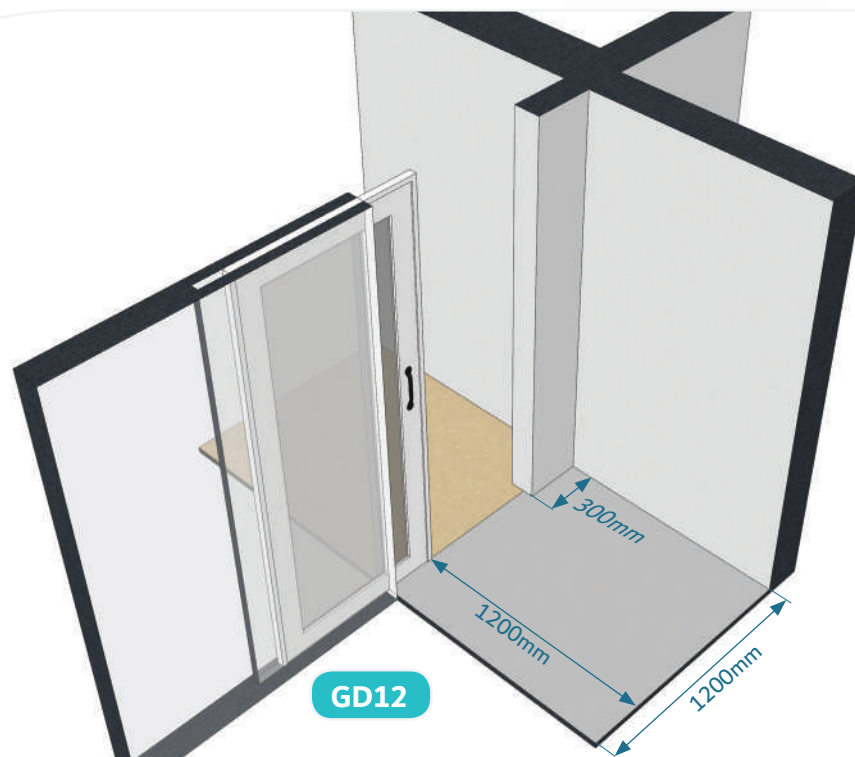


## GD11

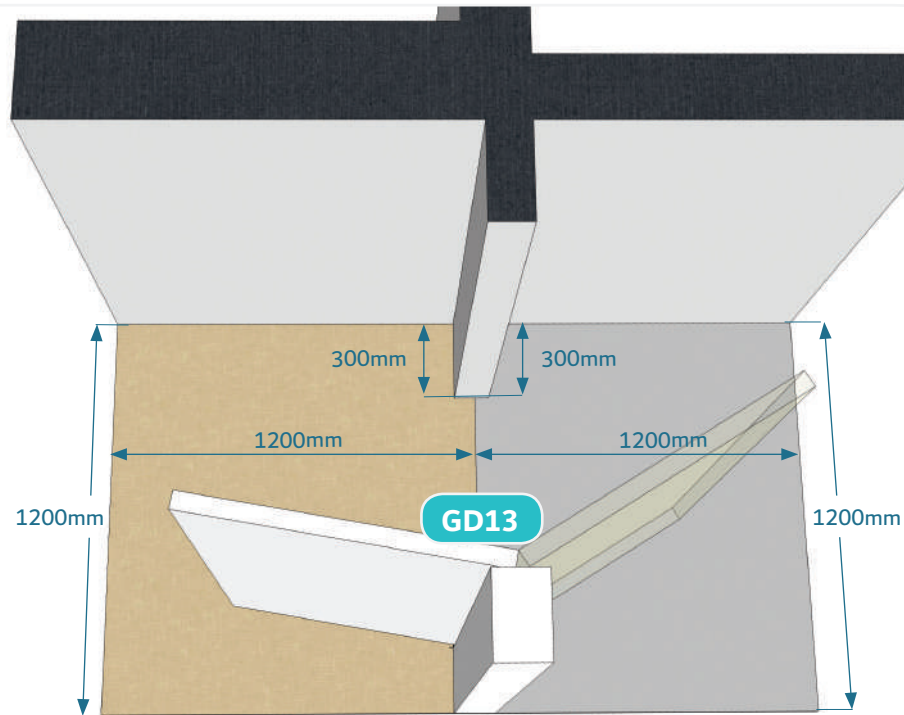
Dimensions of maneuvering spaces / one way swinging door comply:

On pull side – 600mm space adjacent to the leading edge and 1500 x 1500mm space

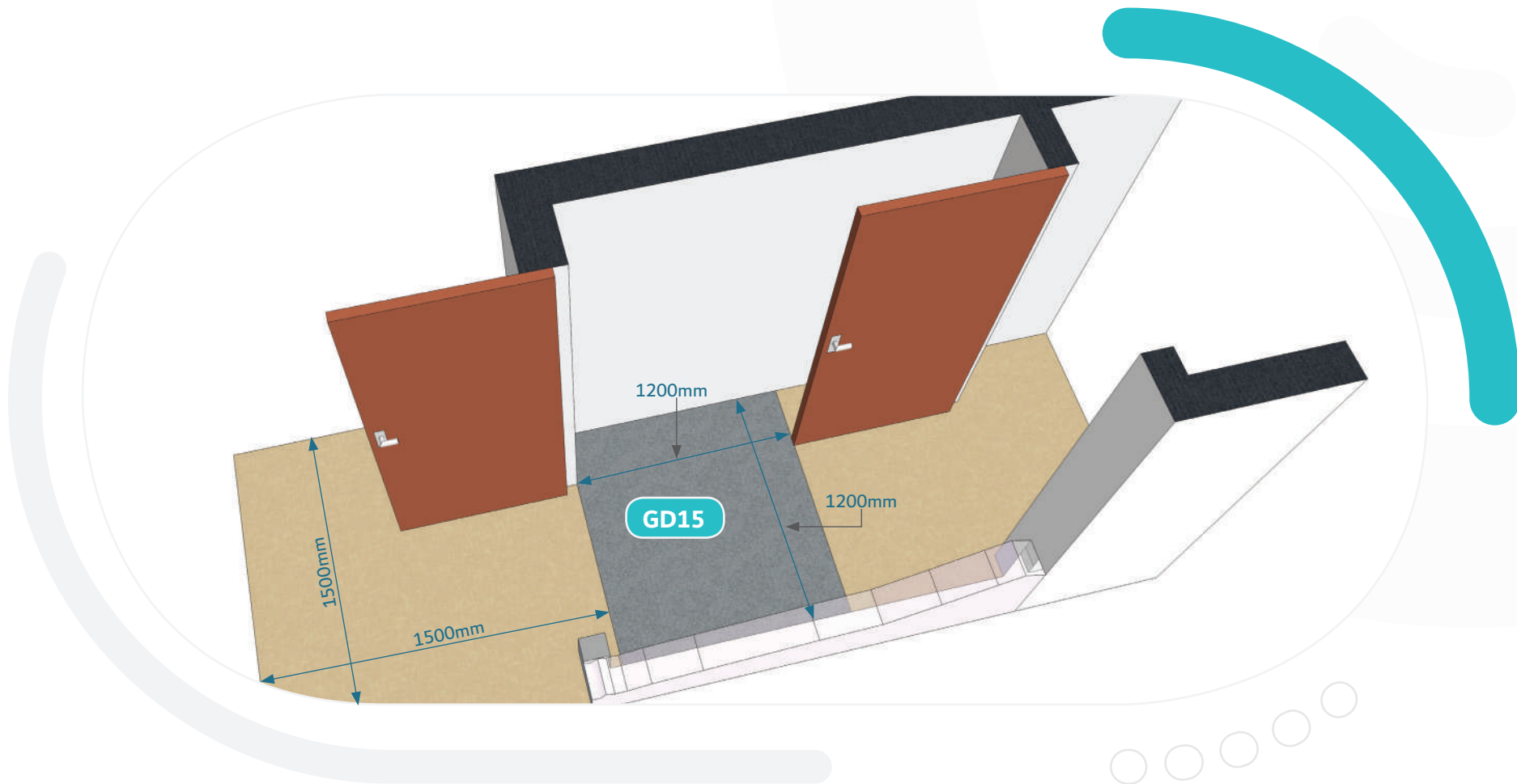
On push side – 300mm space adjacent to the leading edge and 1200 x 1200mm space

**GD12**

Dimensions of manoeuvring spaces comply:  
Sliding doors – 300mm space adjacent to the leading edge and 1200 x 1200mm space

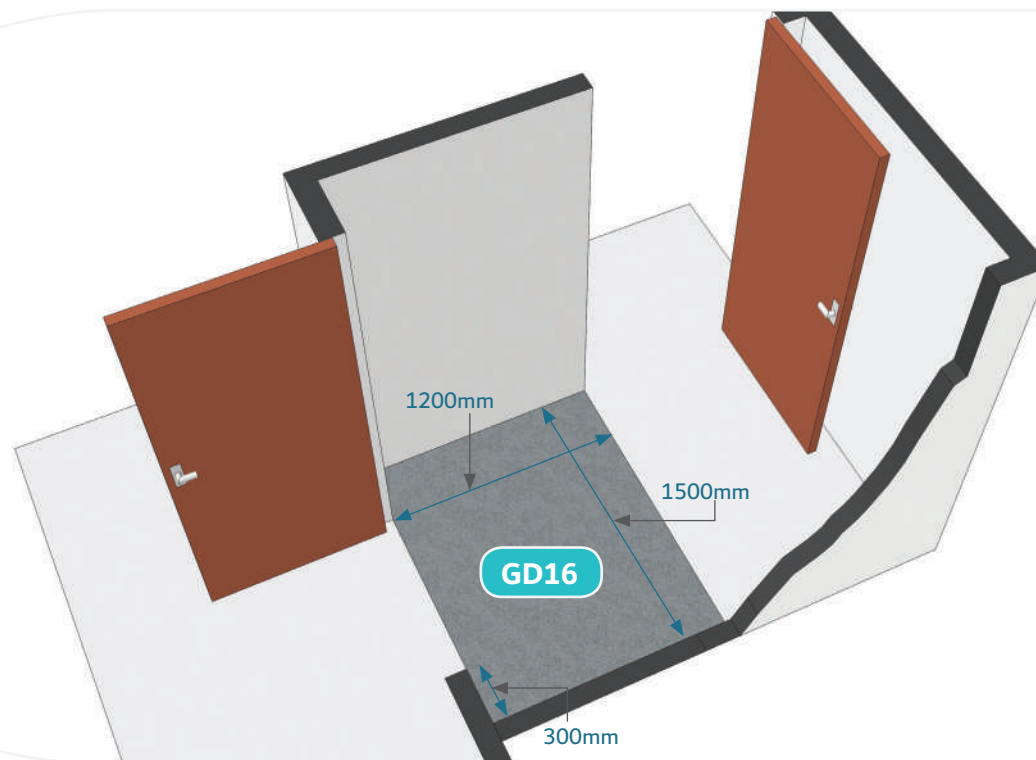
**GD13****Dimensions of manoeuvring spaces comply:**

Both side swinging door - 300mm space adjacent to the leading edge both sides and minimum clear floor space of 1200mm x 1200mm both sides



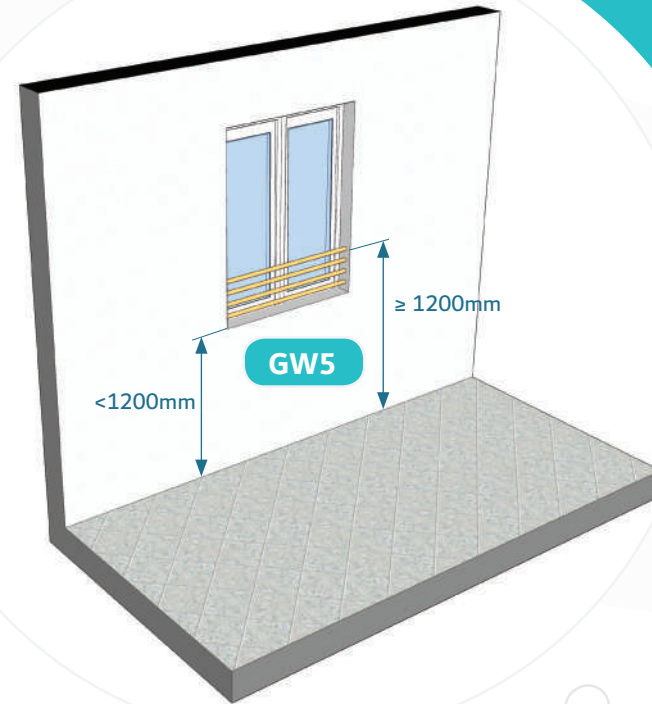
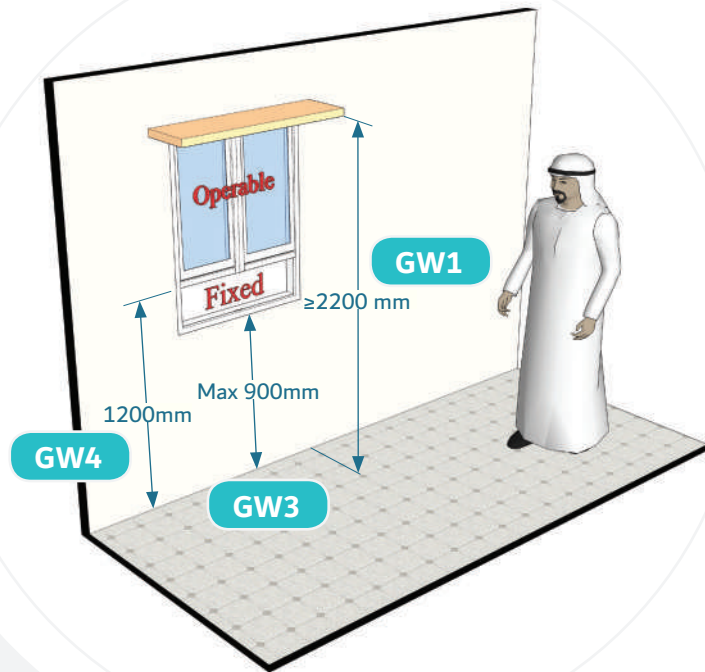
**GD14** Clear spaces without obstructions of other doors

**GD15** If two aligned doors in a series - minimum space of 1200mm x 1200mm clear between them

**GD16**

If two angled doors in a series - minimum space of 1200mm x 1500mm clear between them





**GW1** Without projections  $\leq 2200$  mm into the pedestrian area

**GW4** Operable window at 1200mm height

**GW3** Fixed glazing at maximum of 900mm height

**GW5** With guardrails if window opening  $< 1200$ mm



GW2

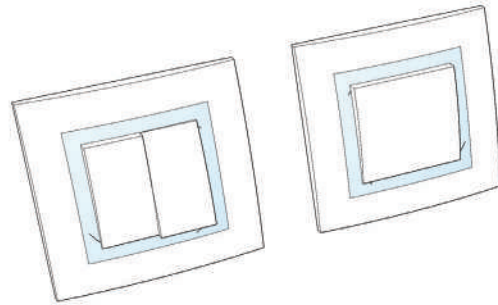


GW2

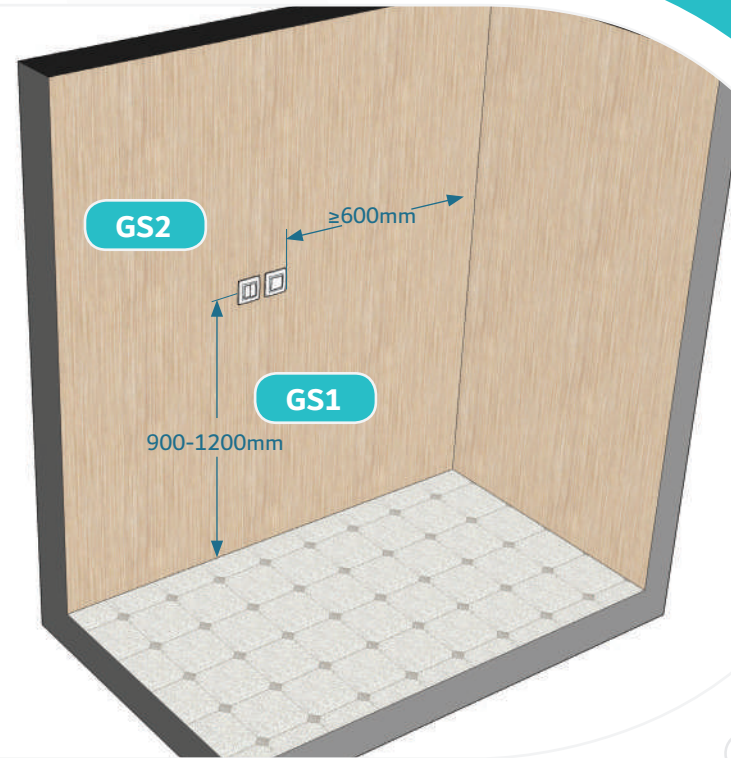


GW2

Opening mechanisms not require wrist turning



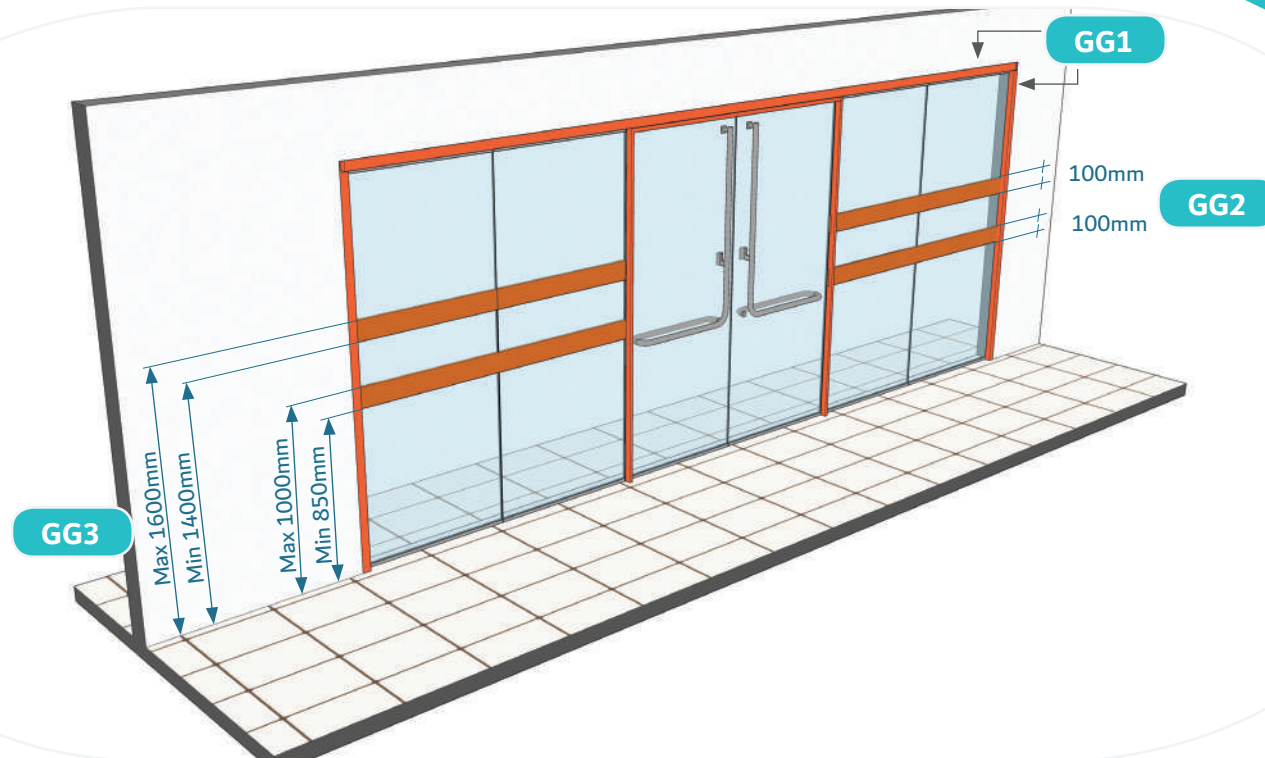
GS3



**GS1** Located between 900 – 1200mm height and located  $\geq 600\text{mm}$  from any corner

**GS2** Switch plates with contrast of 30 LRV against its background

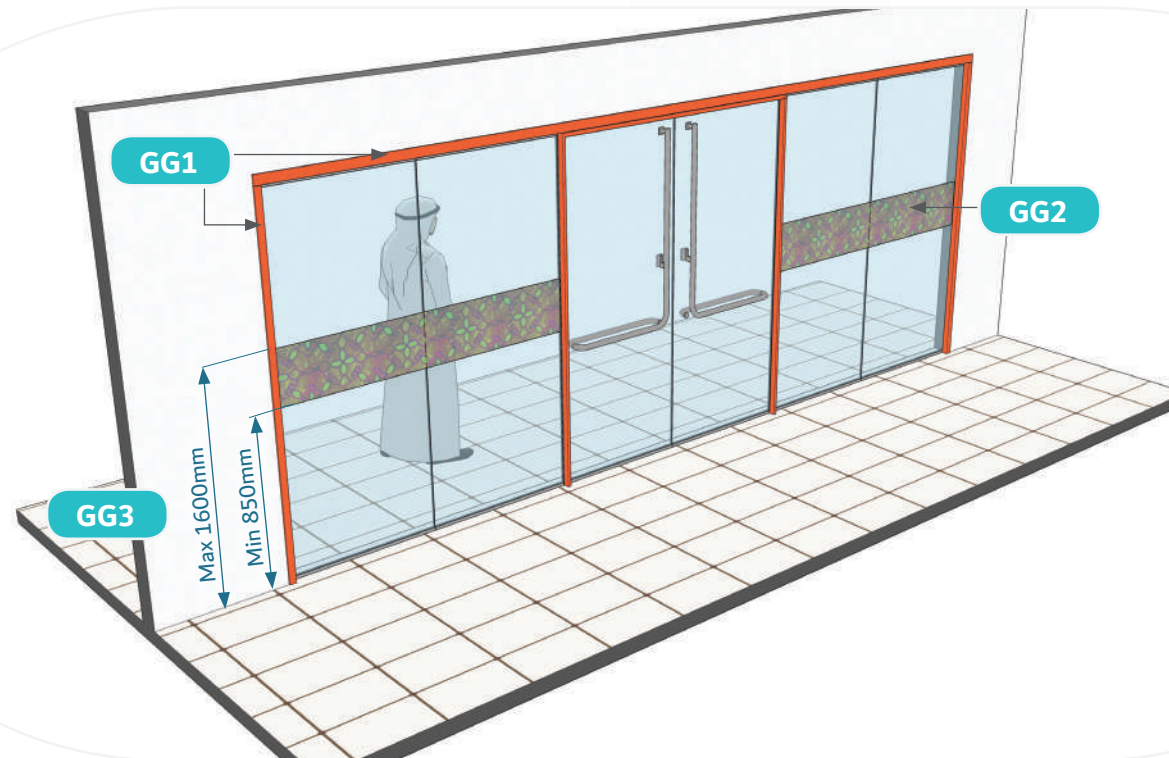
**GS3** Switches can be activated with the elbow



**GG1** Glazed surfaces are identified clearly from adjacent doors or other openings

**GG2** Presence of two horizontal bands of 100mm width with color of 50 LRV or any other pattern or design occupy 50% of the area between 850 - 1600mm, without empty space bigger than 500mm wide

**GG3** First horizontal band height between 1400 - 1600mm from the ground level  
Second horizontal band height between 850 - 1000mm from ground level

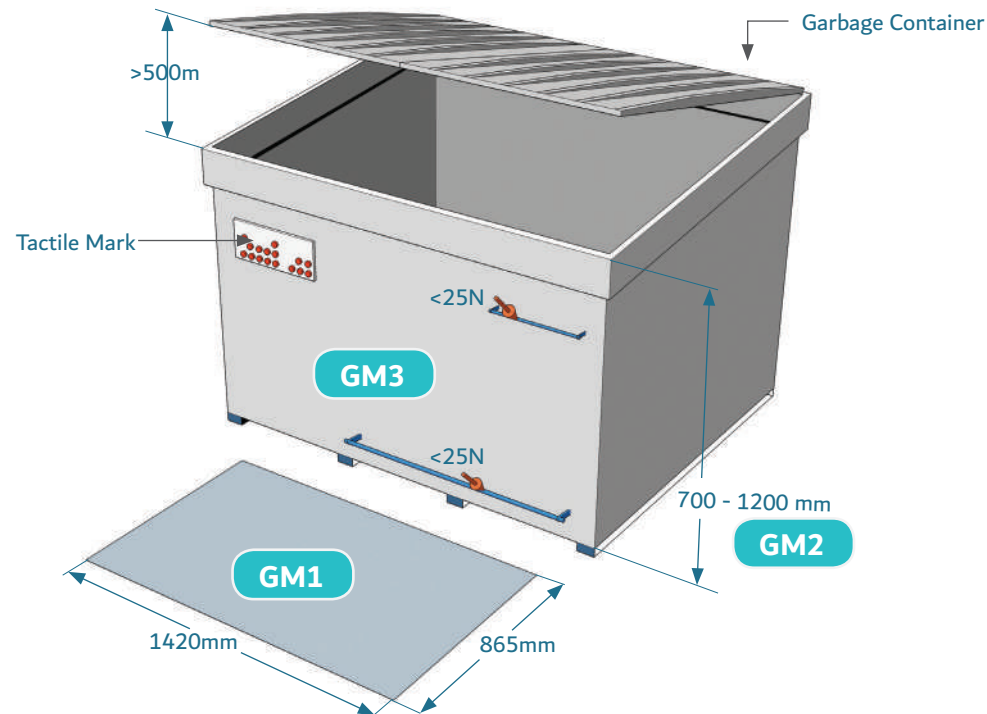


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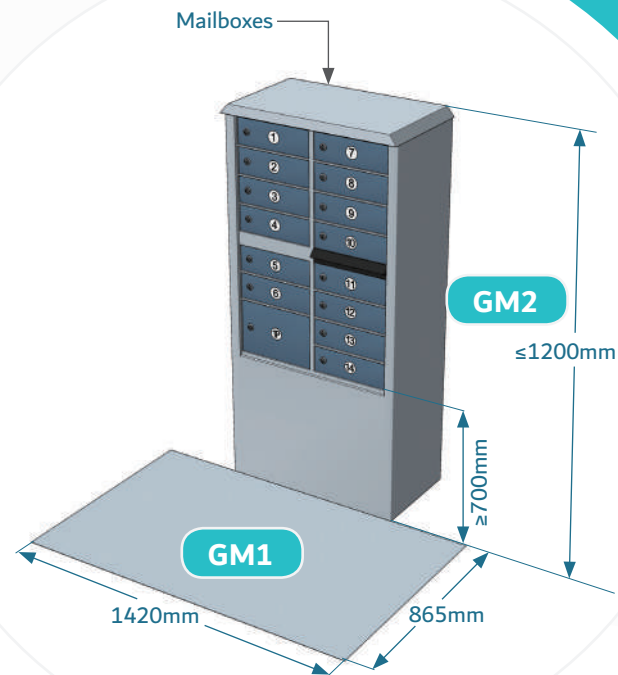




**GM1** With frontal or lateral interaction space 865 x 1420mm

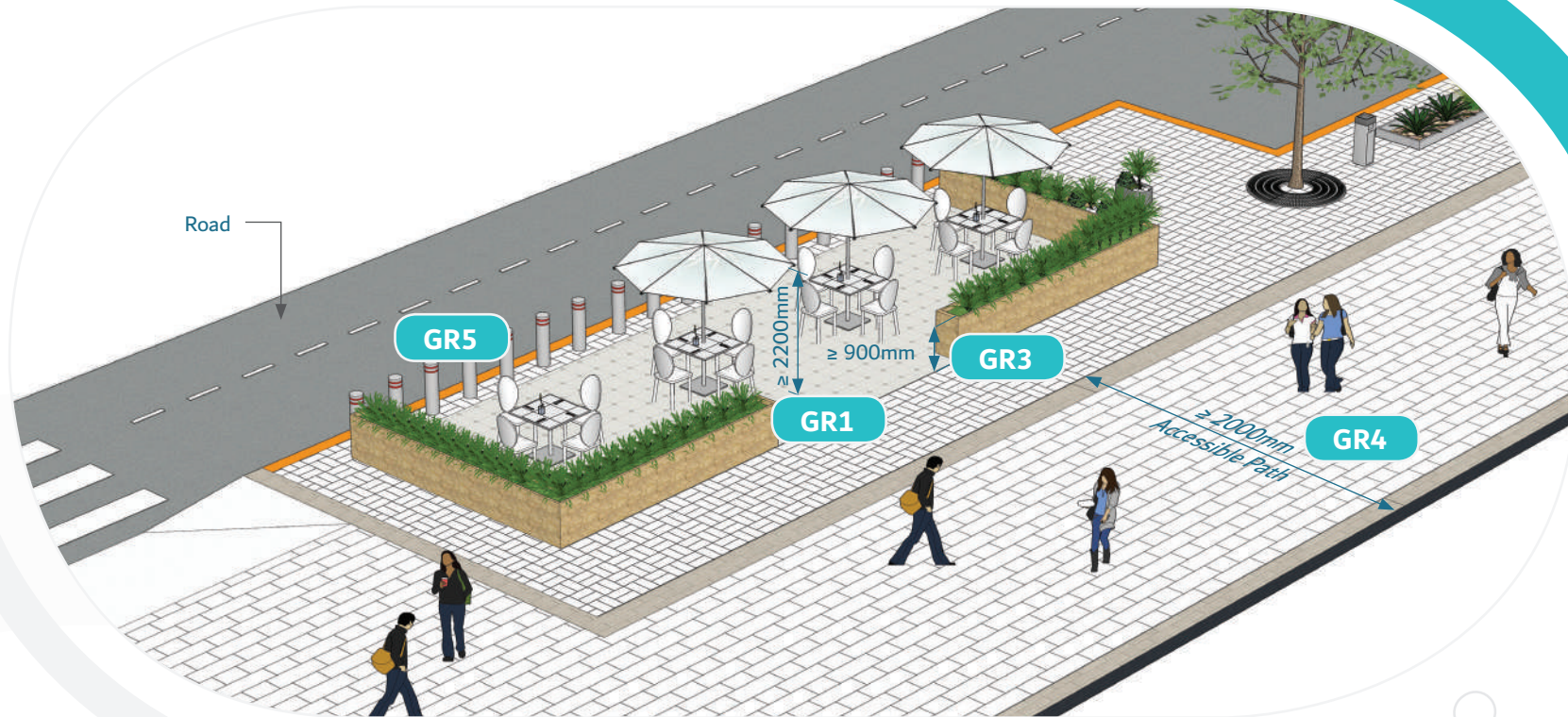
**GM2** Interaction mechanisms height between 700 - 1200 mm

**GM3** At least one garbage container can be opened with one hand and force  $< 25\text{ N}$



**GM1** With frontal or lateral interaction space 865 x 1420mm

**GM2** Interaction mechanisms height between 700 - 1200mm



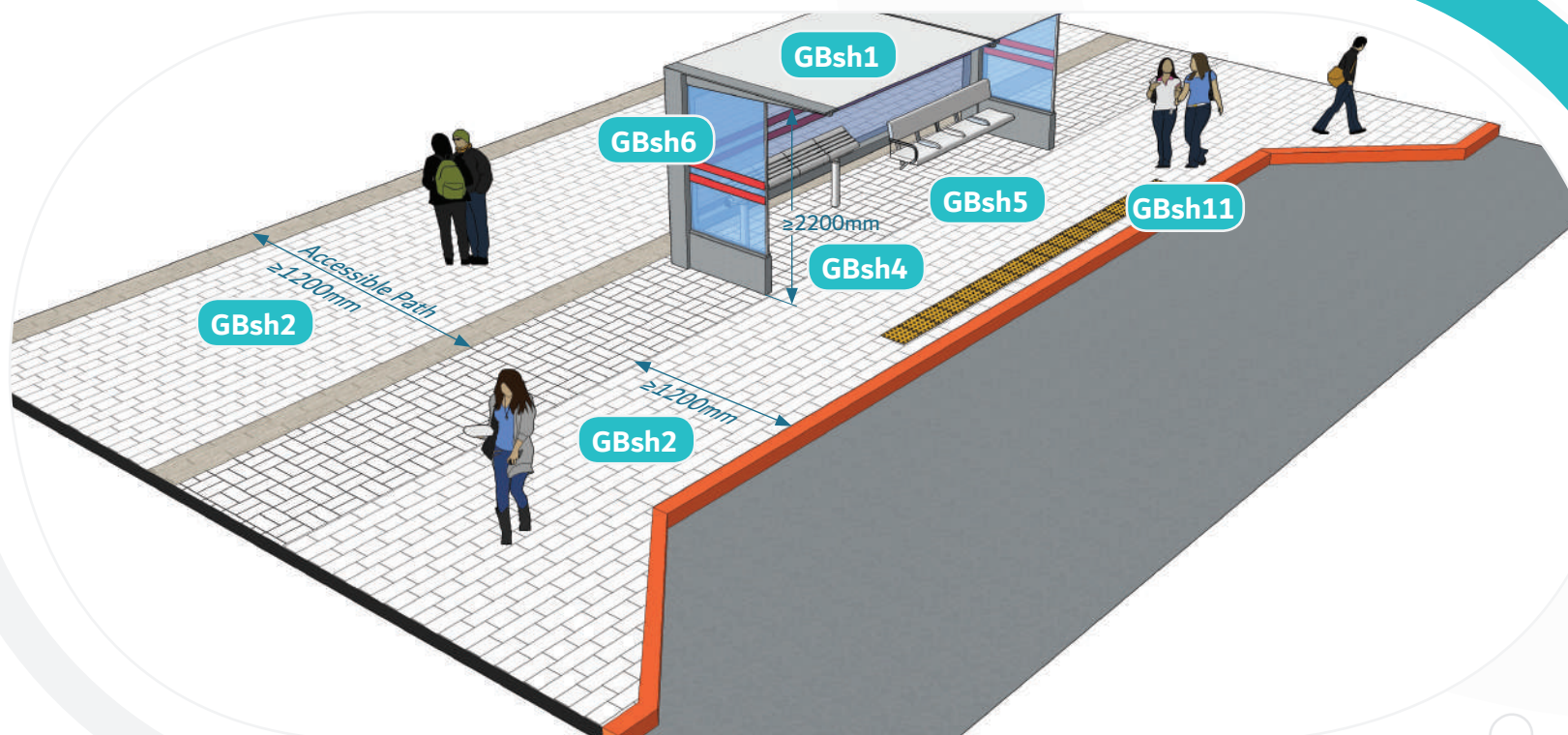
**GR1** No invading accessible path and headroom

**GR2** No interruption of guidance elements

**GR3** Protected by continuous element unless all features height  $\geq 900\text{mm}$

**GR4** Accessible path  $\geq 2000\text{mm}$  adjacent to the restaurant terraces

**GR5** Bollards between terraces and road every 1200 mm



**GBsh1** Not invading accessible path

**GBsh2** With a free of protruding obstacles path in both sides of at least 1200mm width

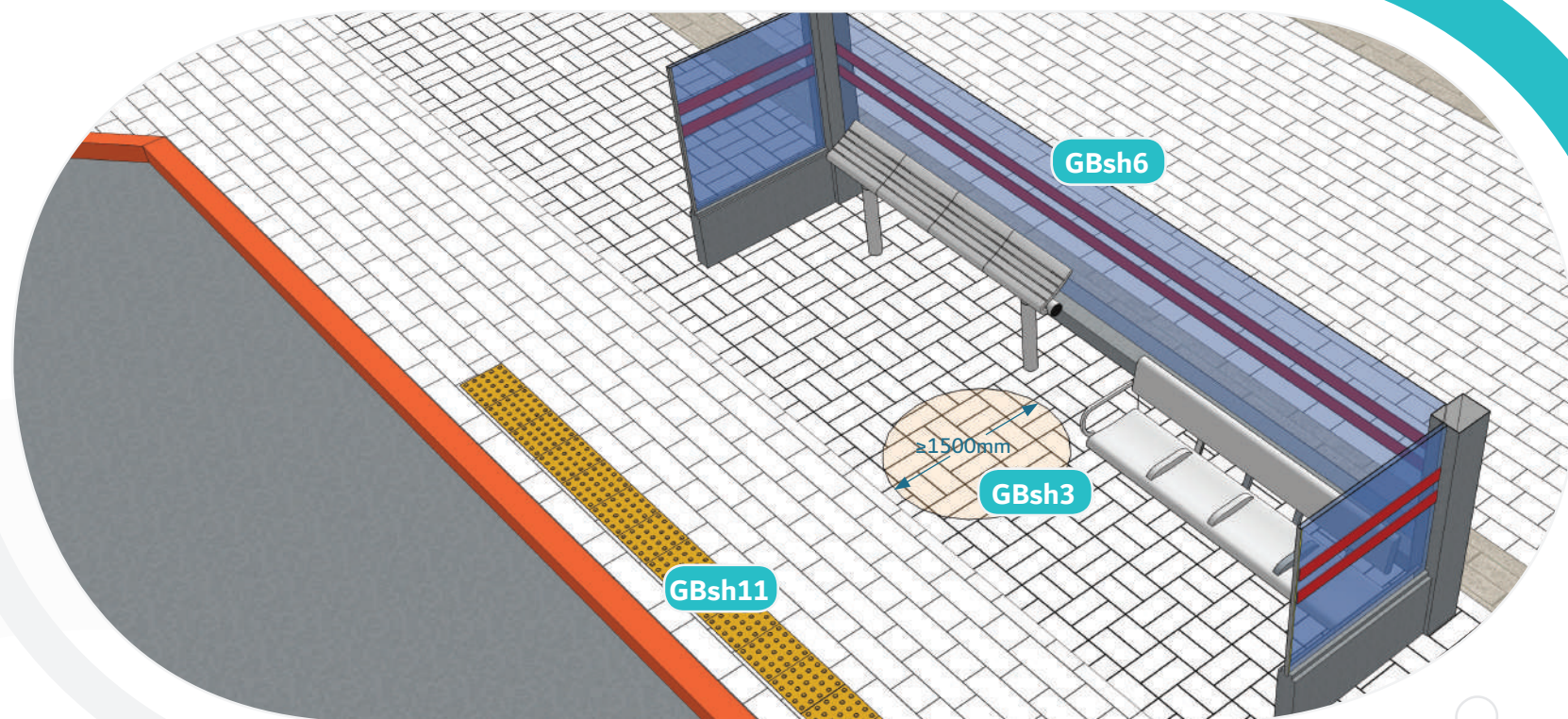
**GBsh4** Height  $\geq 2200\text{mm}$

**GBsh5** No obstacles between shelter and access to bus

**GBsh6** Glazed walls with indication and warning marks, if provided

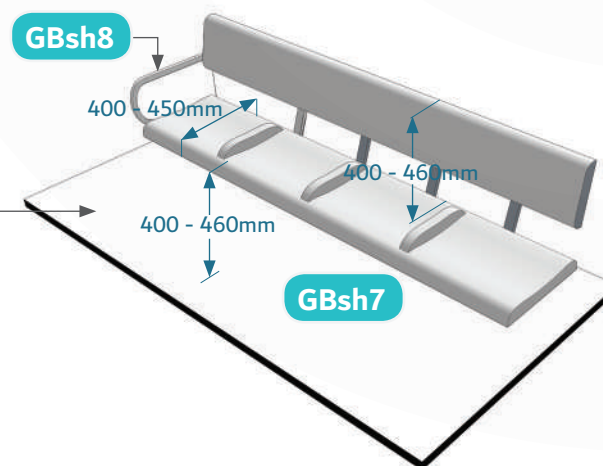
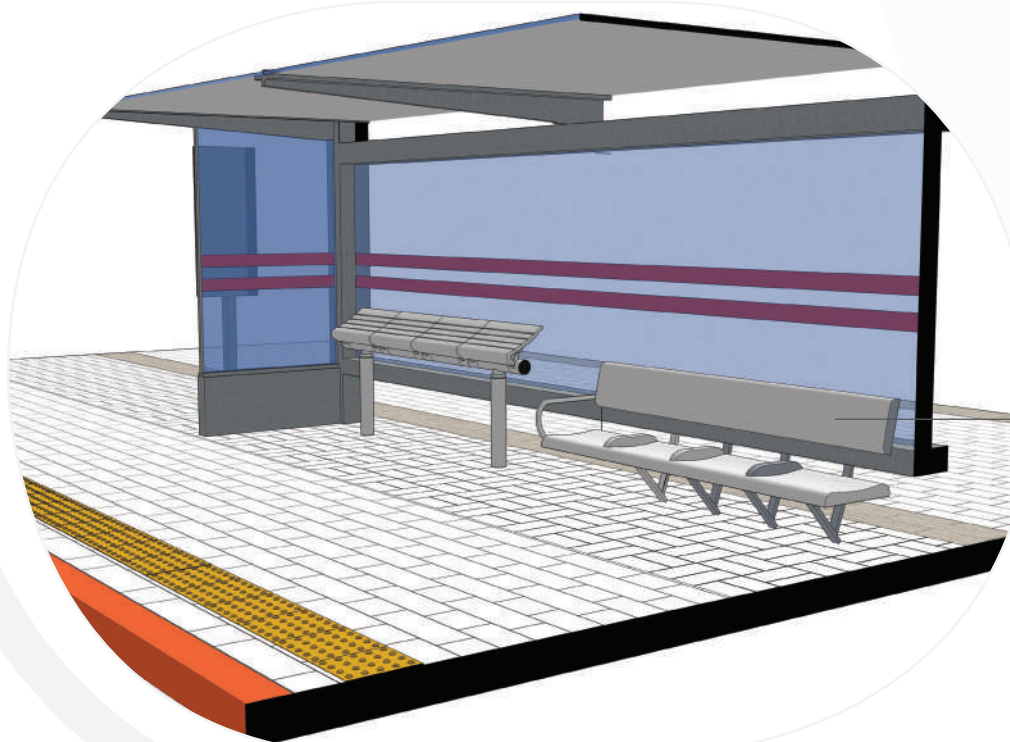
**GBsh11** Boarding area platform with tactile warning surface





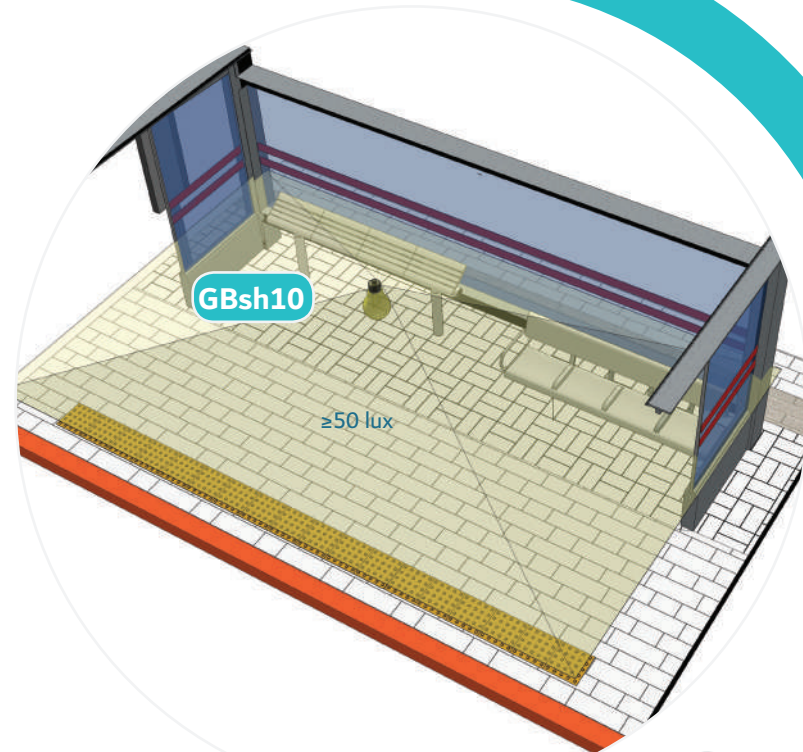
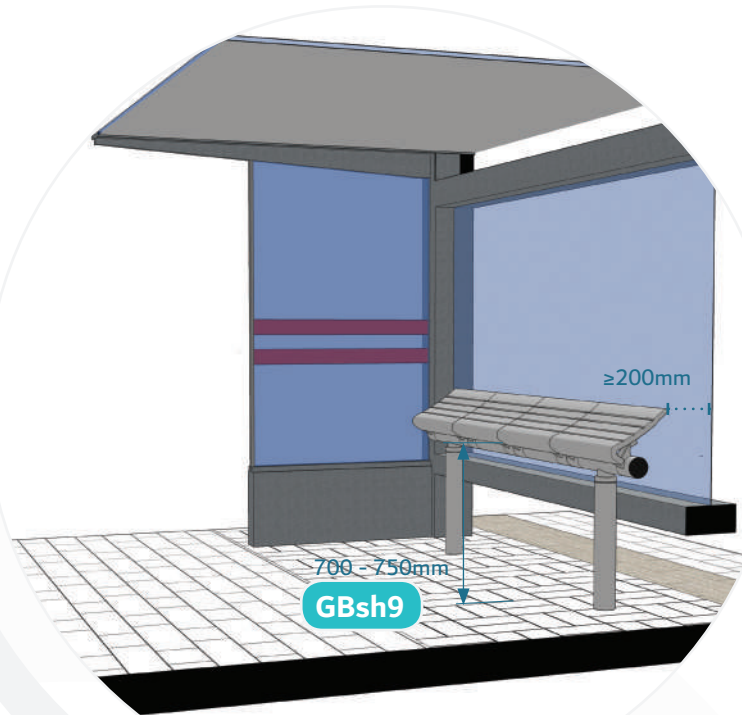
- GBsh3** Manoeuvring space  $\geq 1500\text{ mm}$  diameter inside the shelter
- GBsh6** Glazed walls with indication and warning marks, if provided
- GBsh11** Boarding area platform with tactile warning surface

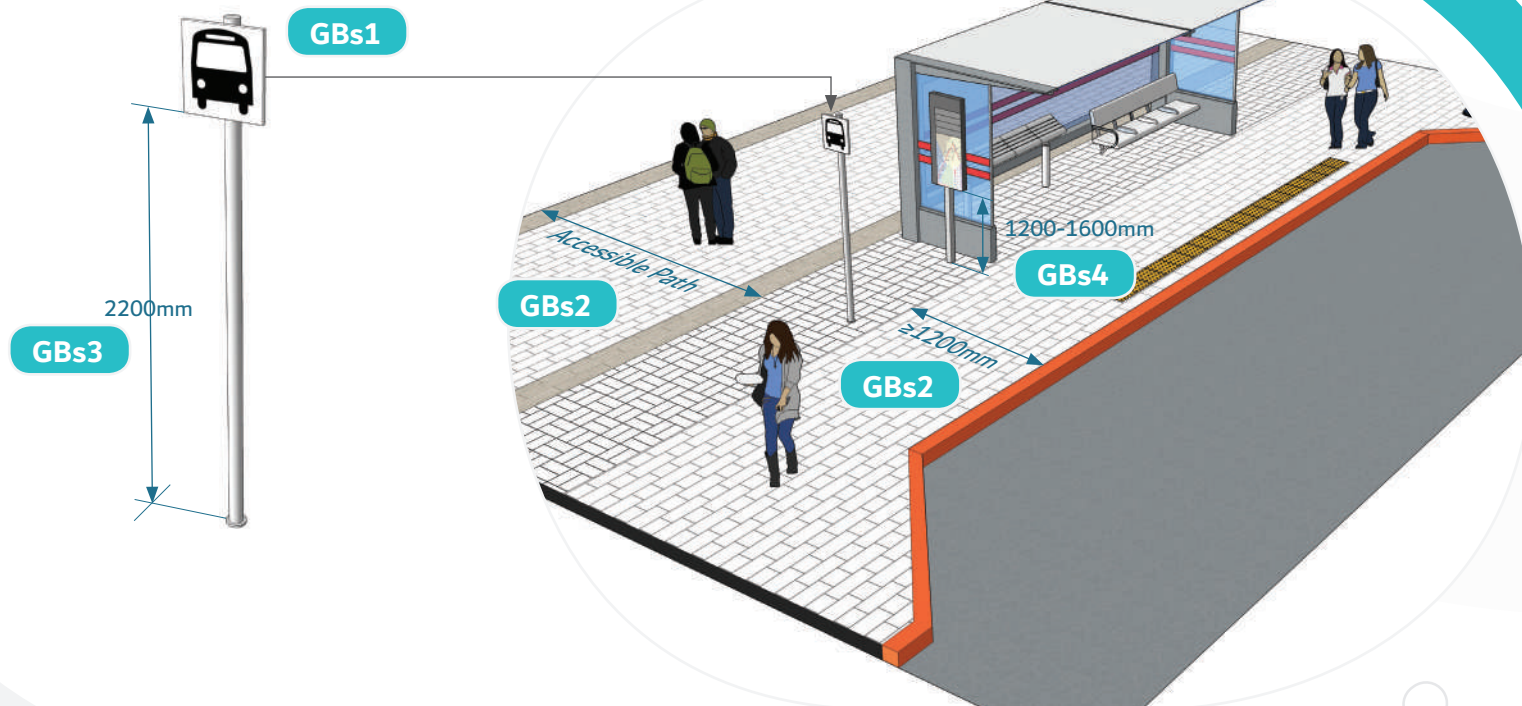




**GBsh7** With fixed bench + seat height 400 - 460mm, depth from 400 - 450mm, backrest  $\geq 400$ mm

**GBsh8** With armrest on one of its side

**GBsh9**With standing support (perch seat) of height between 700 - 750mm and separated  $\geq 200\text{ mm}$  from wall**GBsh10**Average illumination  $\geq 50\text{ lux}$ , and  $\geq 100\text{ lux}$  at boarding time

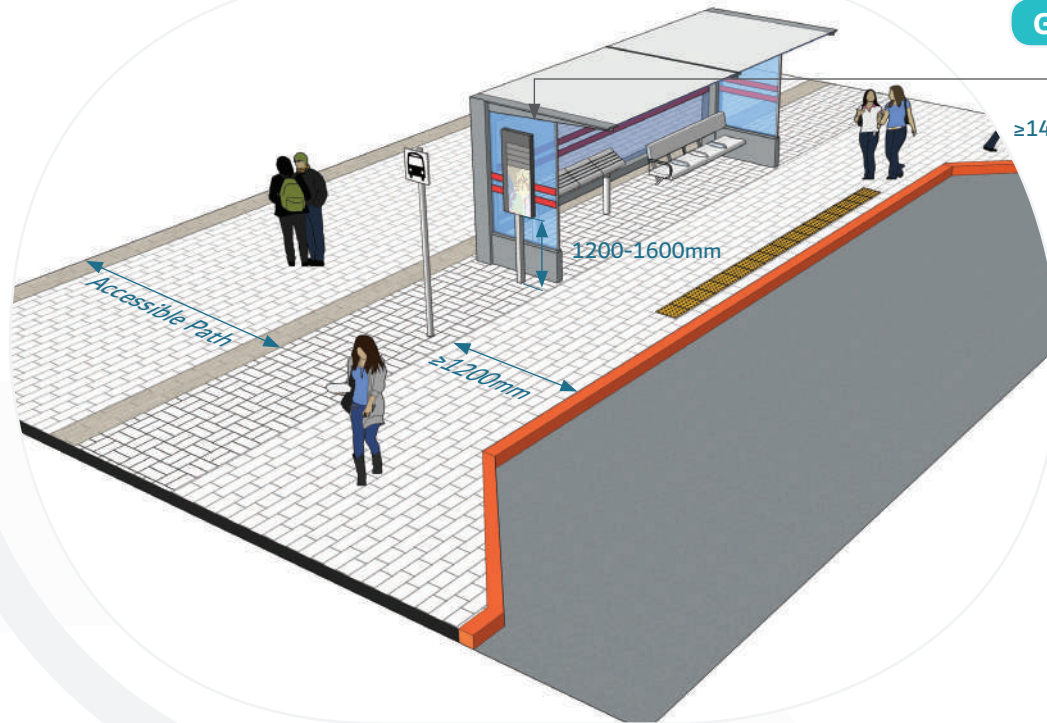


**GBs1** Sign post provided

**GBs3** Clearance height  $\geq 2200\text{mm}$  without protruding

**GBs2** Not obstructing the accessible path

**GBs4** Bus information height between 1200 - 1600mm



GBs5

≥140mm  
اب ت 16  
A B C D



GBs5

Bus line identification number with text height  $\geq 140\text{mm}$  and Tactile



## GAE

## General - Alarms And Means Of Egress

30 Flashes  
per second



**GAE1** Audio and visual emergency alarms provided

**GAE2** Visual Emergency alarm with 30 flashes per second

**GAE3** Accessible means of egress signage

**GAE5** Procedures for evacuation building including procedures for persons with activity limitation are posted

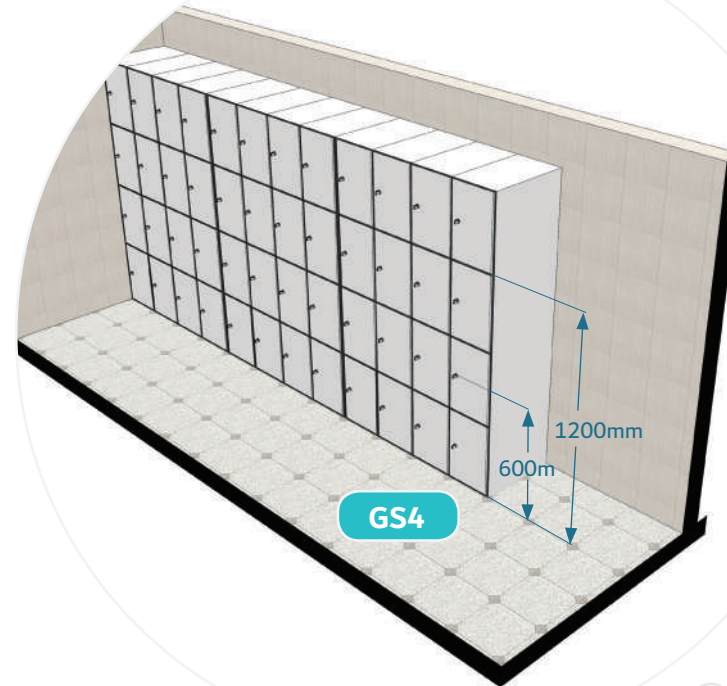
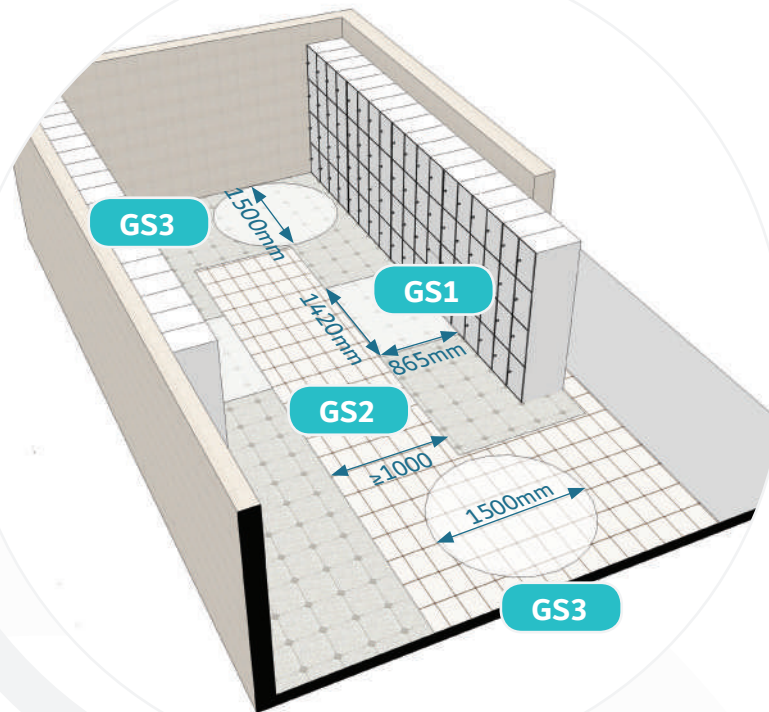
**GAE6** Procedures posted in 14 pt San serif font





- GAE7** Other evacuation solutions for persons with activity limitation with assistance of an evacuation devices including protected elevator or chair
- GAE8** Evacuation devices or chair are provided in every floor located near the evacuation stairwell
- GAE9** Fire personnel and persons with activity limitation are trained to use evacuation devices



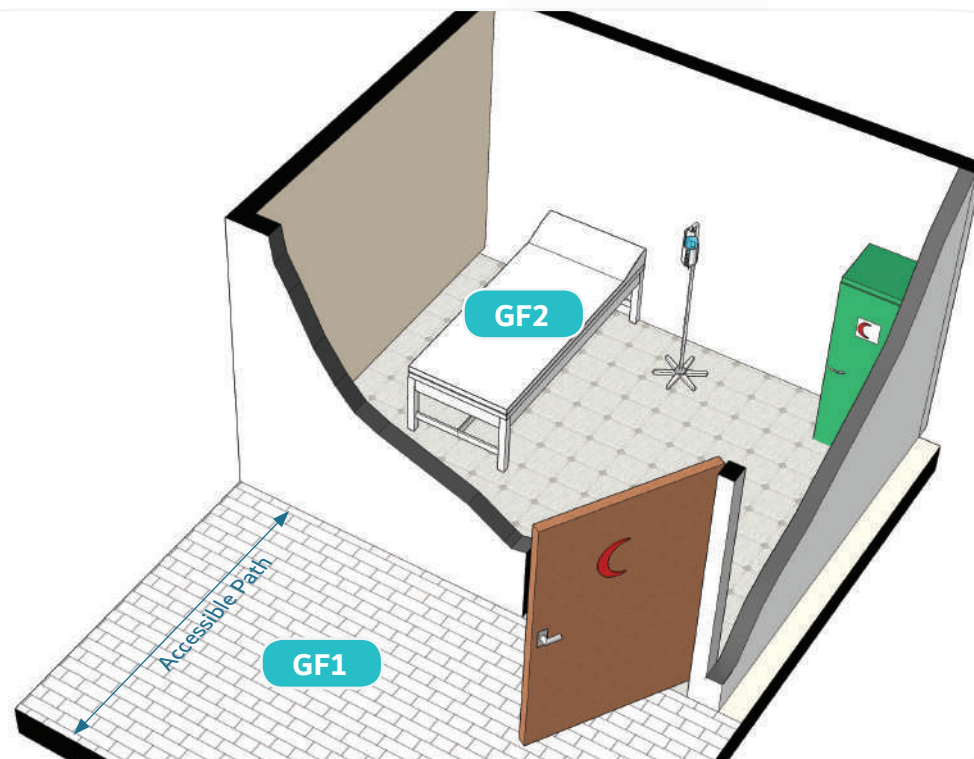


**GS1** Approaching space 1420 x 865mm

**GS3** Maneuvering turning space 1500mm

**GS4** 20% of shelves or lockers are in a reaching height distance between 600 - 1200mm

**GS2** Corridor width  $\geq 1000$ mm



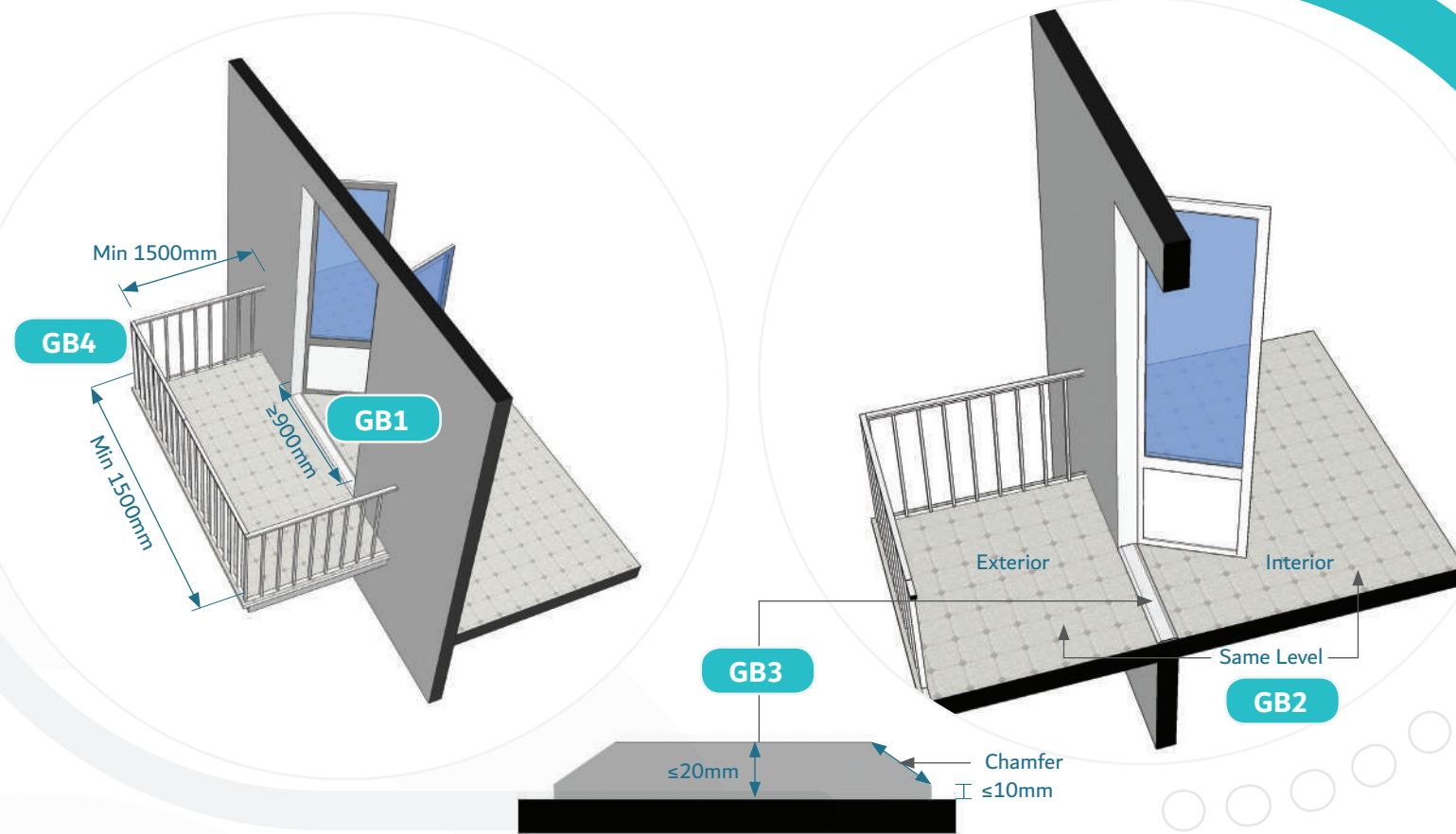
GF1

With an accessible door and path to the treatment area

GF2

With adult changing table





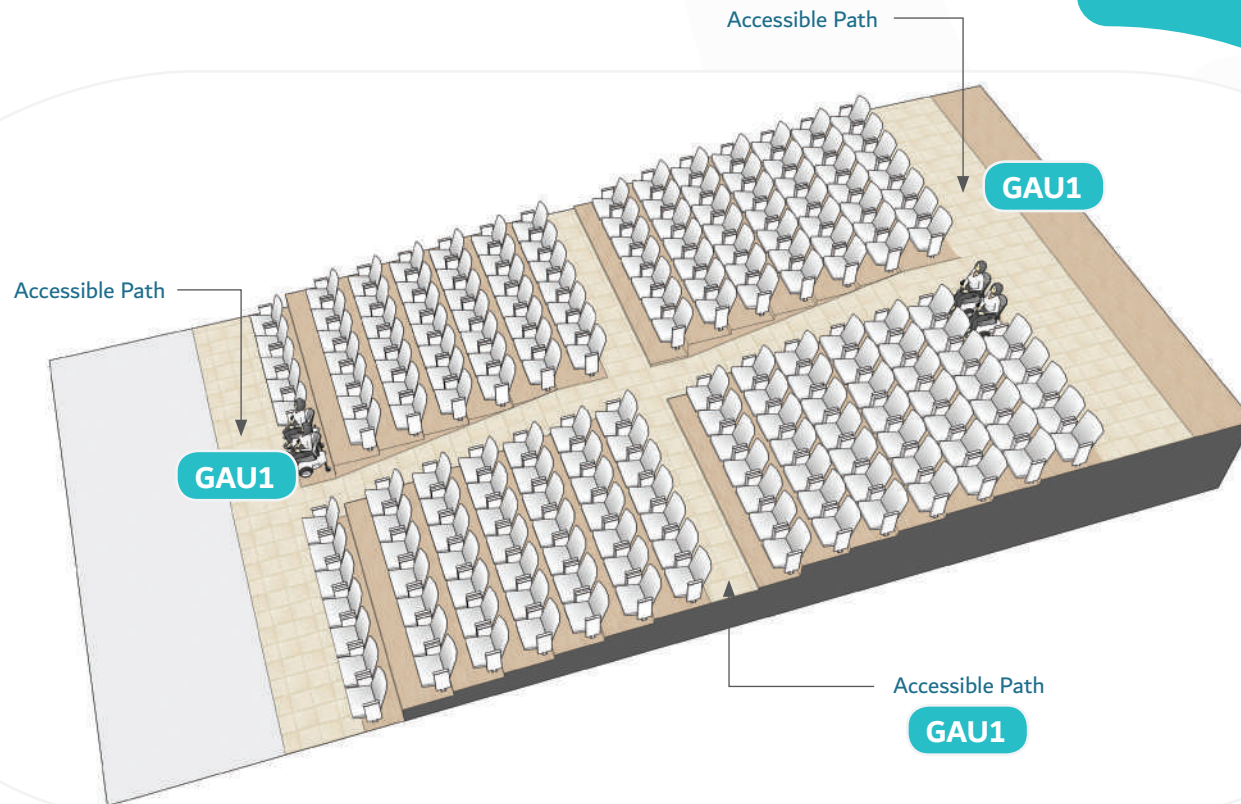
**GB1** Door Width  $\geq 900\text{mm}$

**GB2** Balcony exterior and interior level are the same

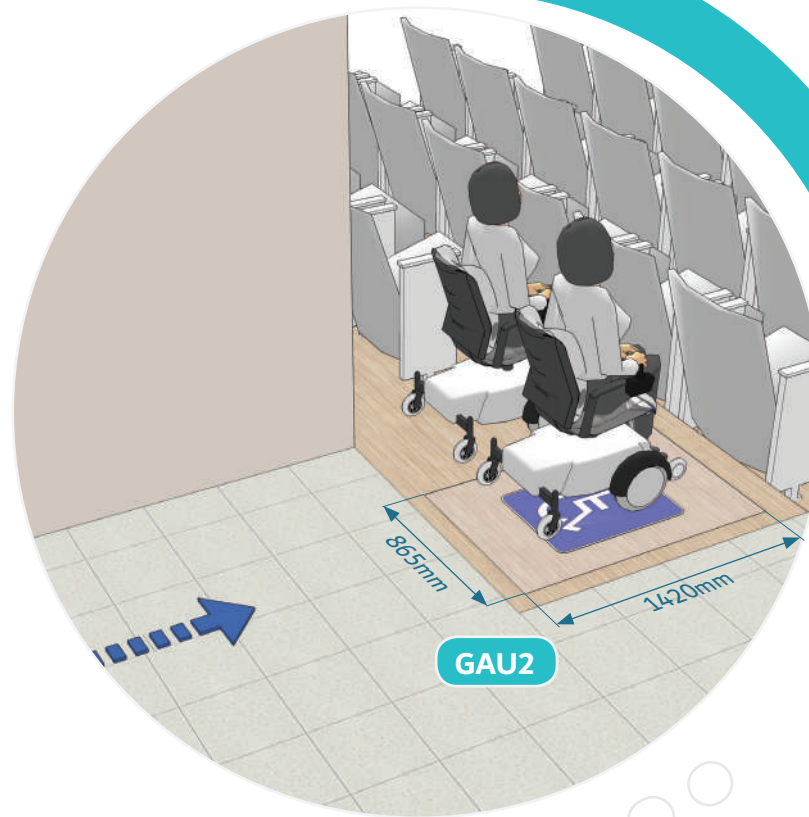
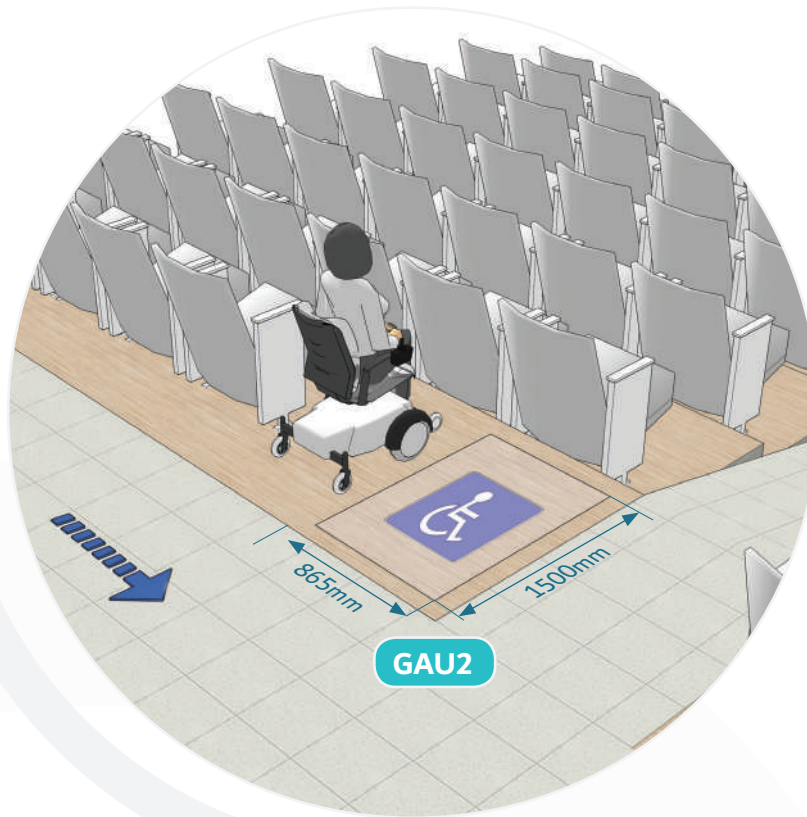
**GB3** Balcony door flush or with threshold height  $\leq 20\text{mm}$  and bevelled to  $\leq 10\text{mm}$  (Chamfered)

**GB4** Minimum dimension balcony  $1500 \times 1500\text{mm}$



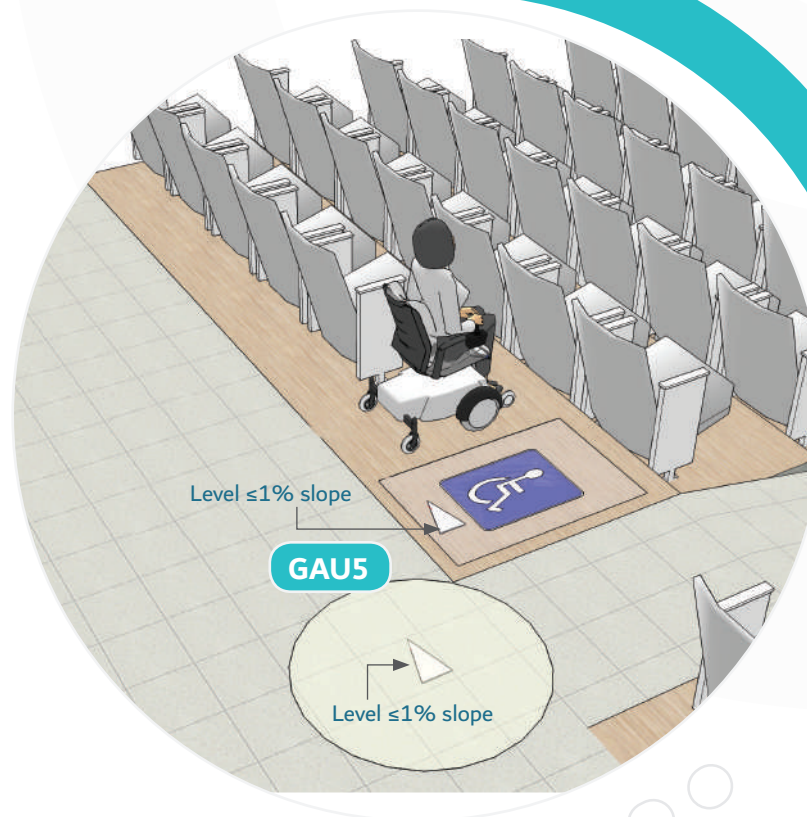
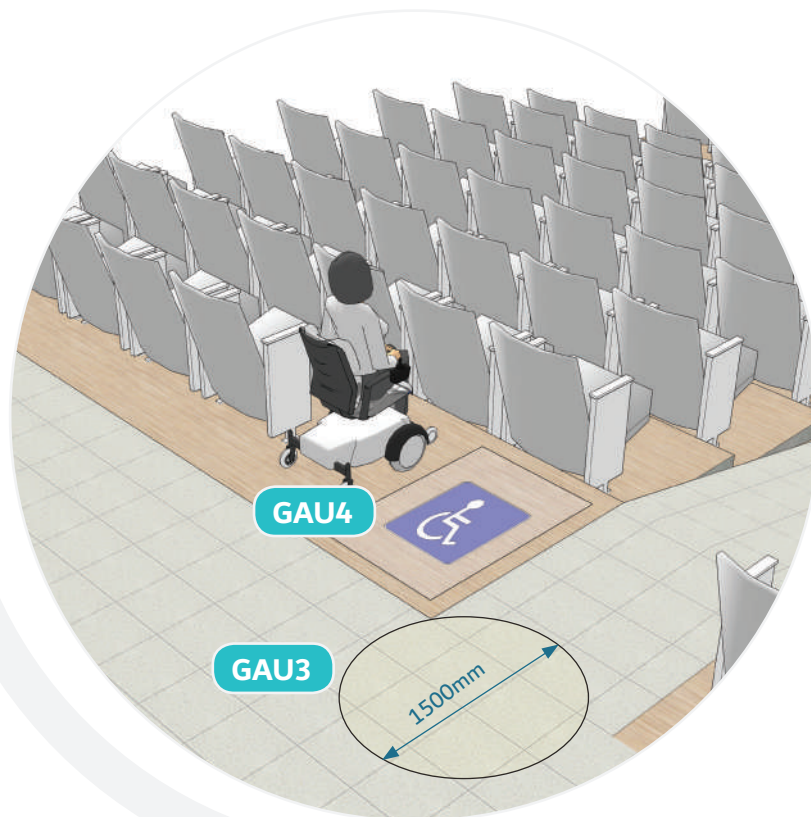
**GAU1**

Connected to accessible path, and accessible seatings places are permanently provided or removable seats



GAU2

Dimension of wheelchair seating space 865 x 1420mm if frontally approached or 865 x 1500mm if laterally approached

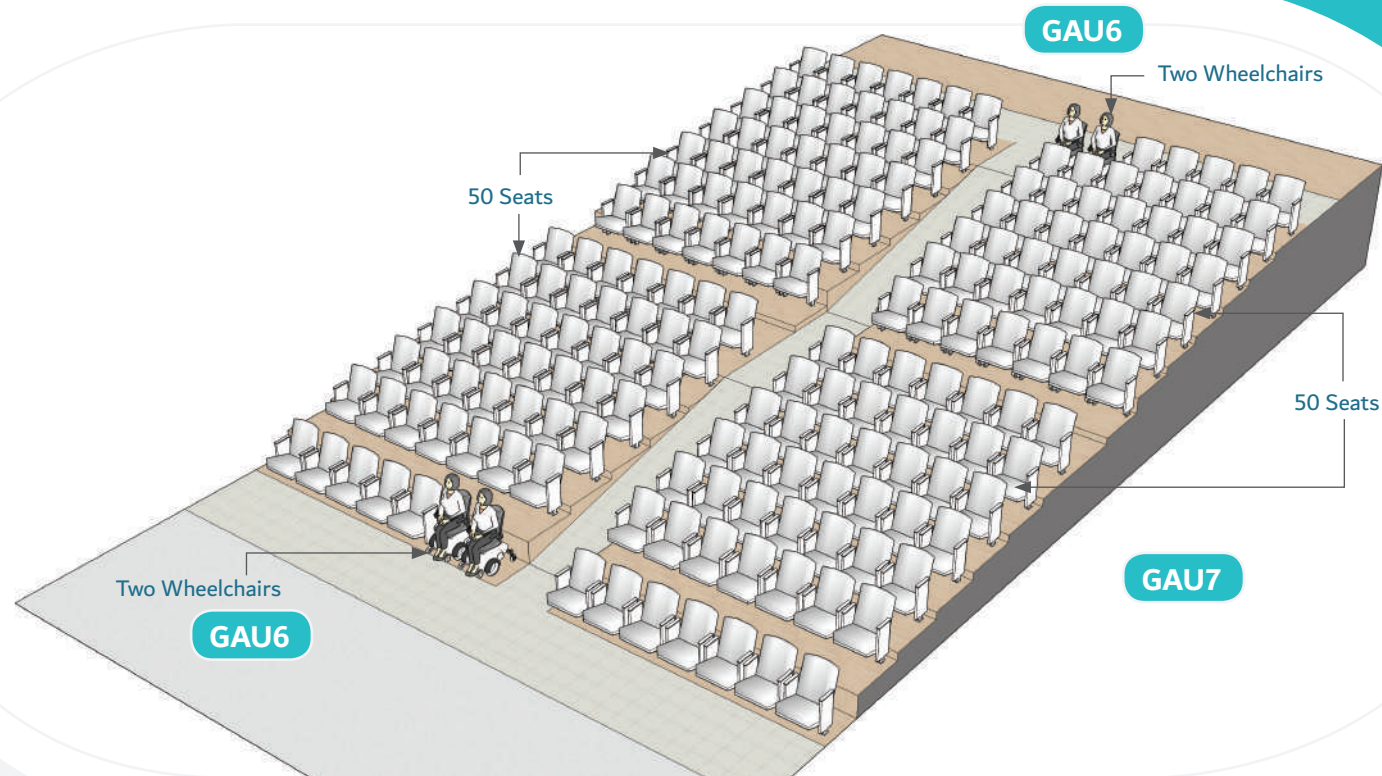


**GAU3** With Manoeuvring level space of 1500 x 1500mm

**GAU4** With international symbol of access (ISA)

**GAU5** Maximum longitudinal gradient 1% for wheelchair and manoeuvring space





GAU6

Wheelchair spaces are arranged into groups of two spaces with equal numbers of fixed seats in every group row

GAU7

Number of reserved seats: one reserved wheelchair space for every 50 seats or fraction thereof and beyond 500 seats, one more every 100 seats of fraction thereof



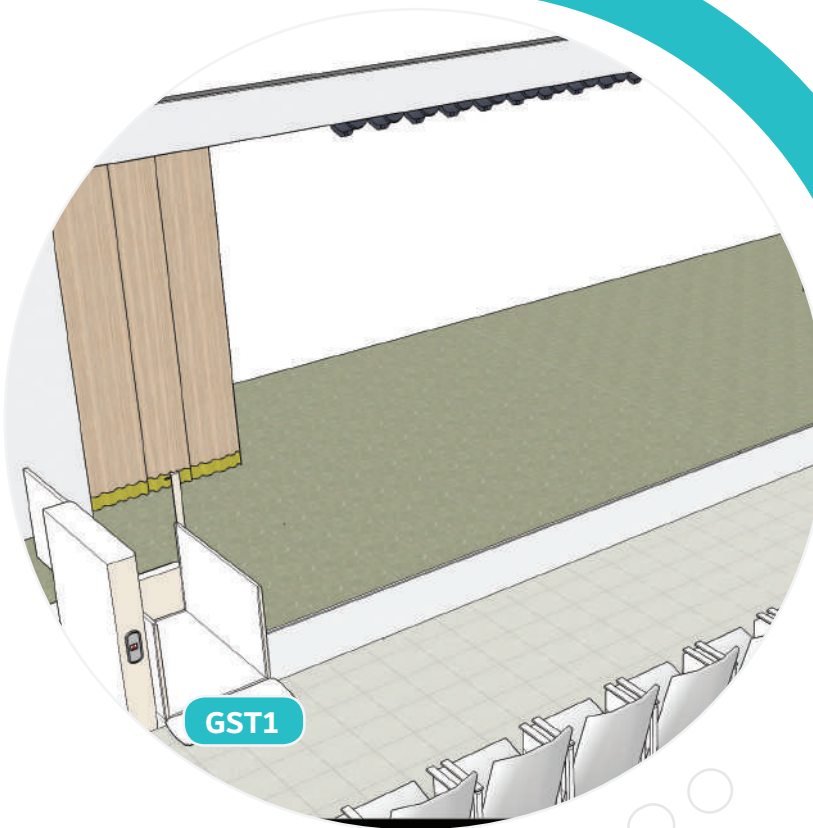
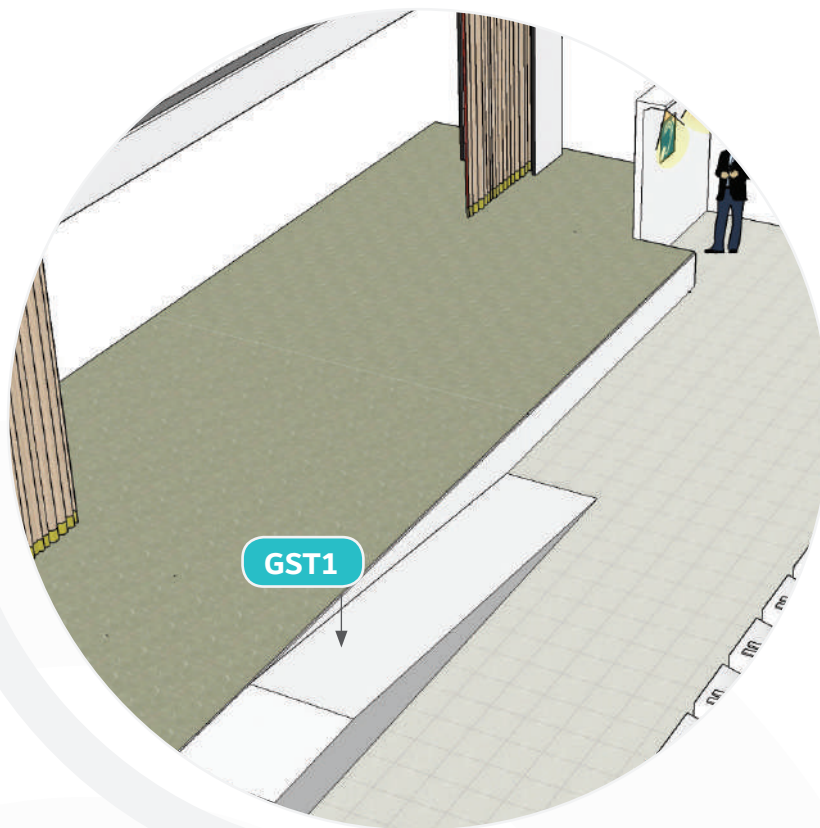
**GAU8** Clearly visible space for sign language interpreter with overhead light

**GAU9** Designated accessible seats for people with hearing impairments in front of the sign language interpreter

**GAU10** Aisle seats and its adjacent have foldable armrests

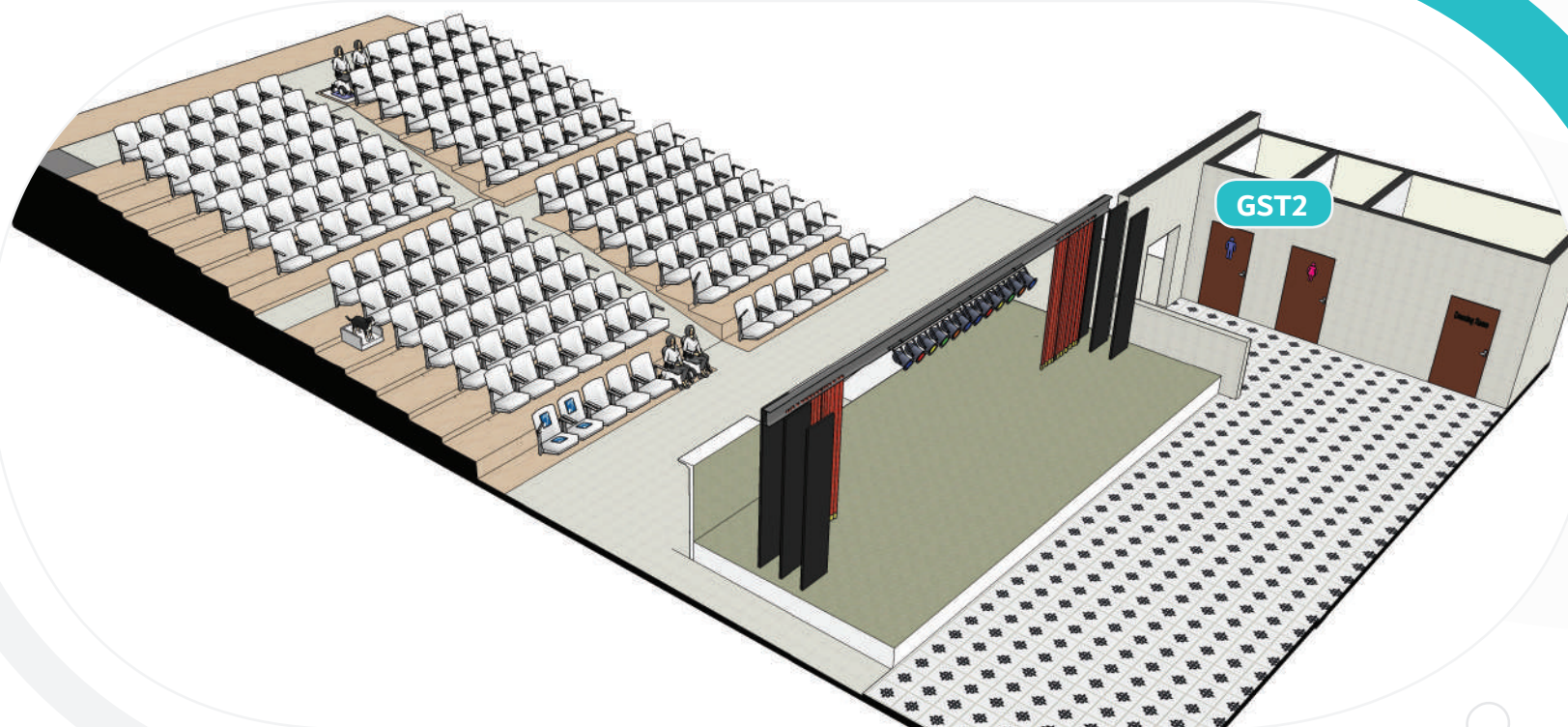
**GAU11** Some seats have spaces to serve pets

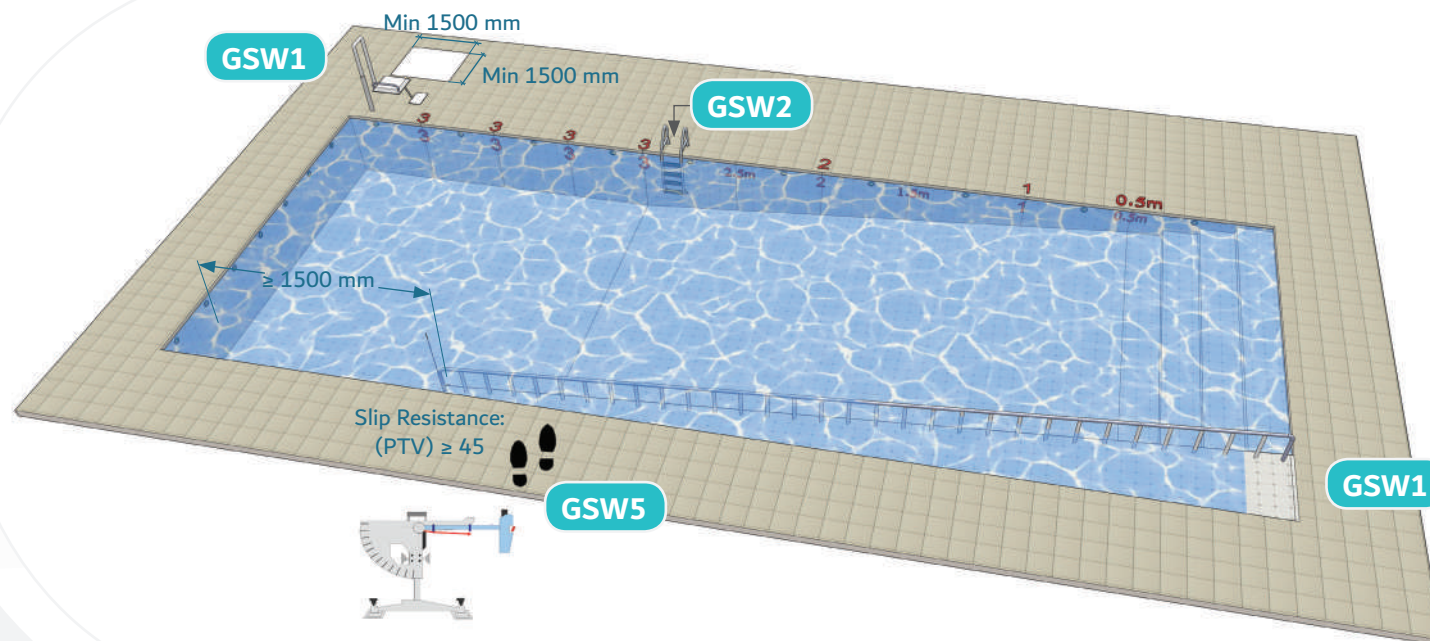




GST1

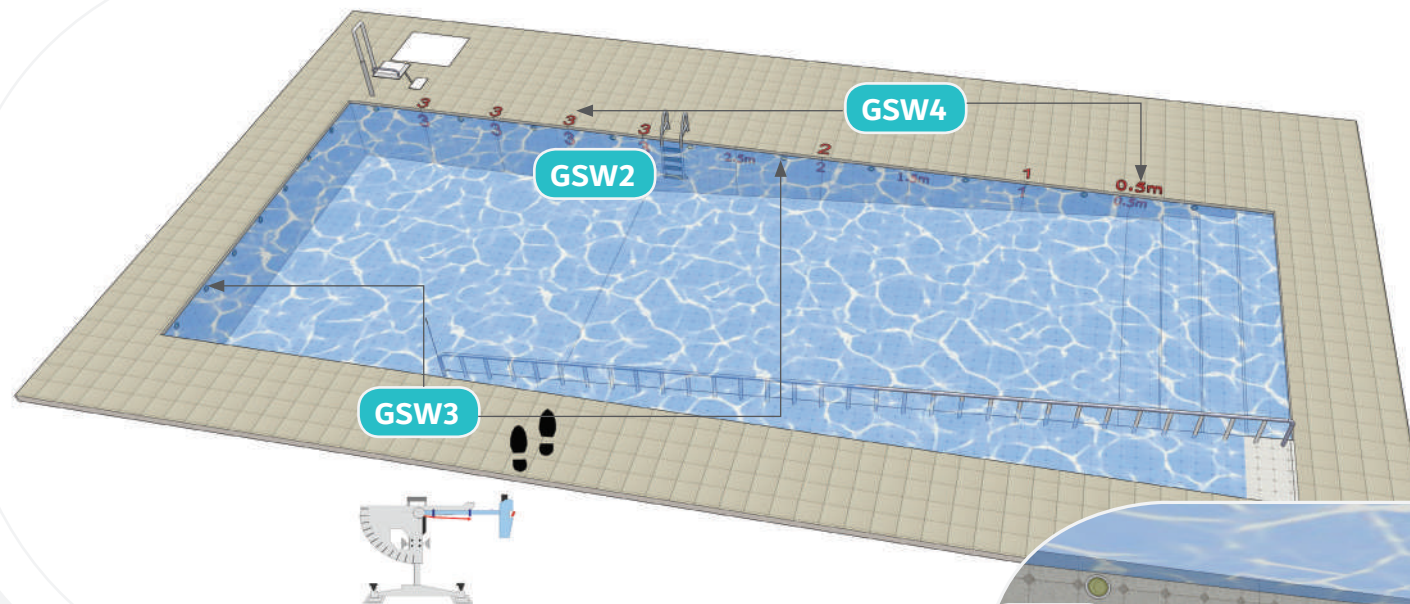
Stage is accessible via ramp or lift





- GSW1** With accessible entrance, chair lift, ramp or hoist
- GSW2** With safety ladder
- GSW5** Pendulum test value  $\geq 45$  of the floor surface of the swimming pool area





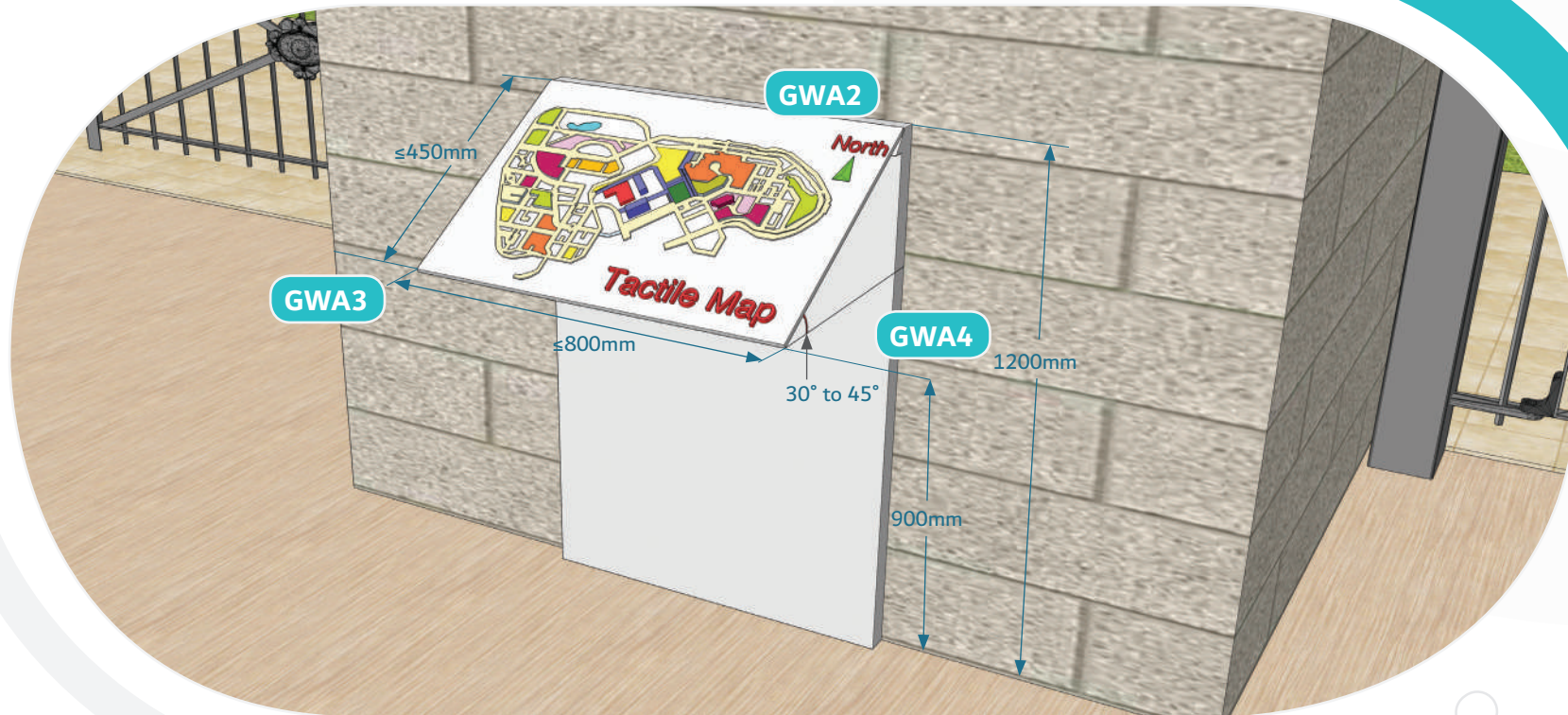
**GSW3** With underwater illumination if night use is foreseen

**GSW4** With depth scale sign according to font size and reading distance standards

**GWA1**

All parks entrances shall display a visual and tactile map of the main facilities, displaying the North symbol at the top of the map with oral information, if required





**GWA2** Tactile maps in required buildings

**GWA3** Dimension of the tactile map  $\leq 800 \times 450\text{mm}$  and the font size  $>20\text{mm}$  San serif type

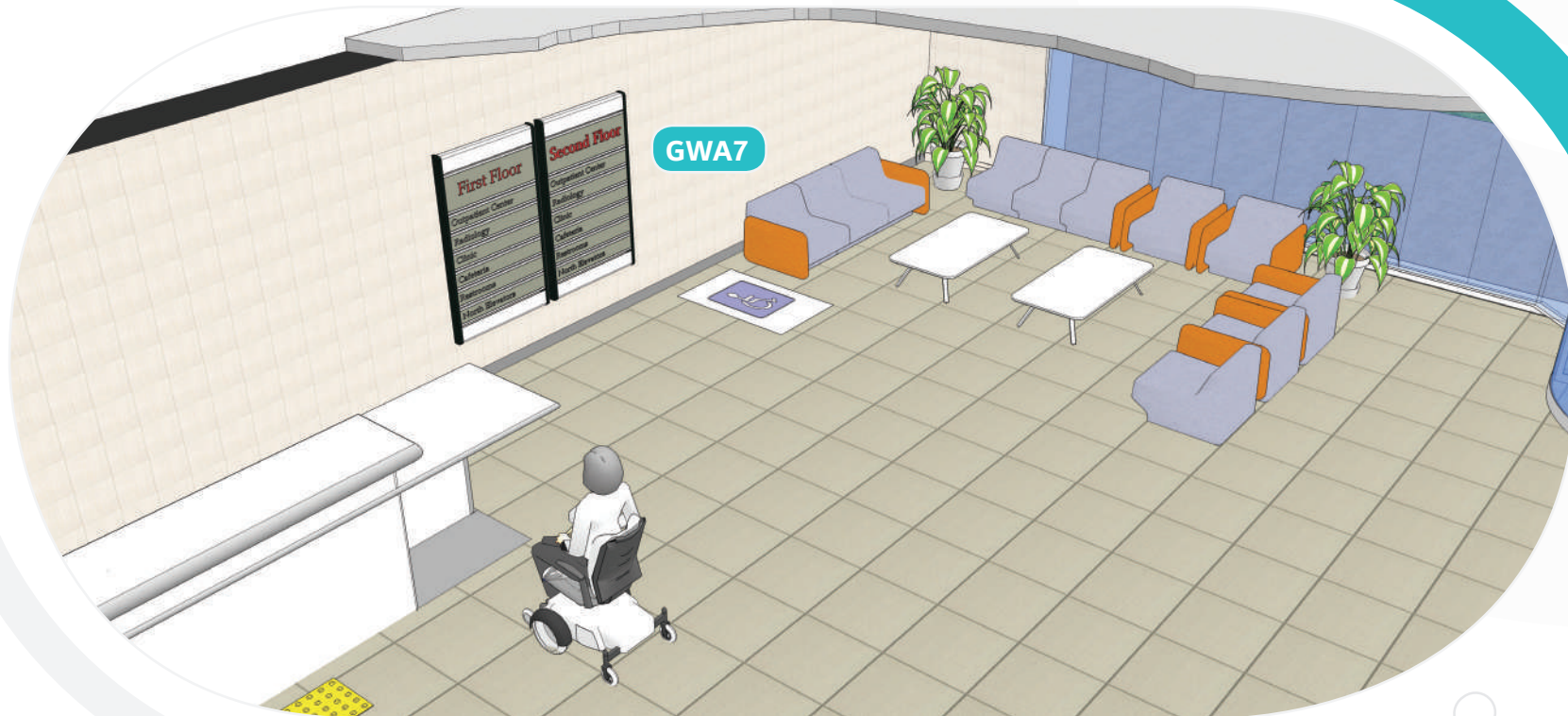
**GWA4** The height of tactile map horizontal or inclined from the floor  $900\text{--}1200\text{mm}$  and the inclination between  $30^\circ$  to  $45^\circ$



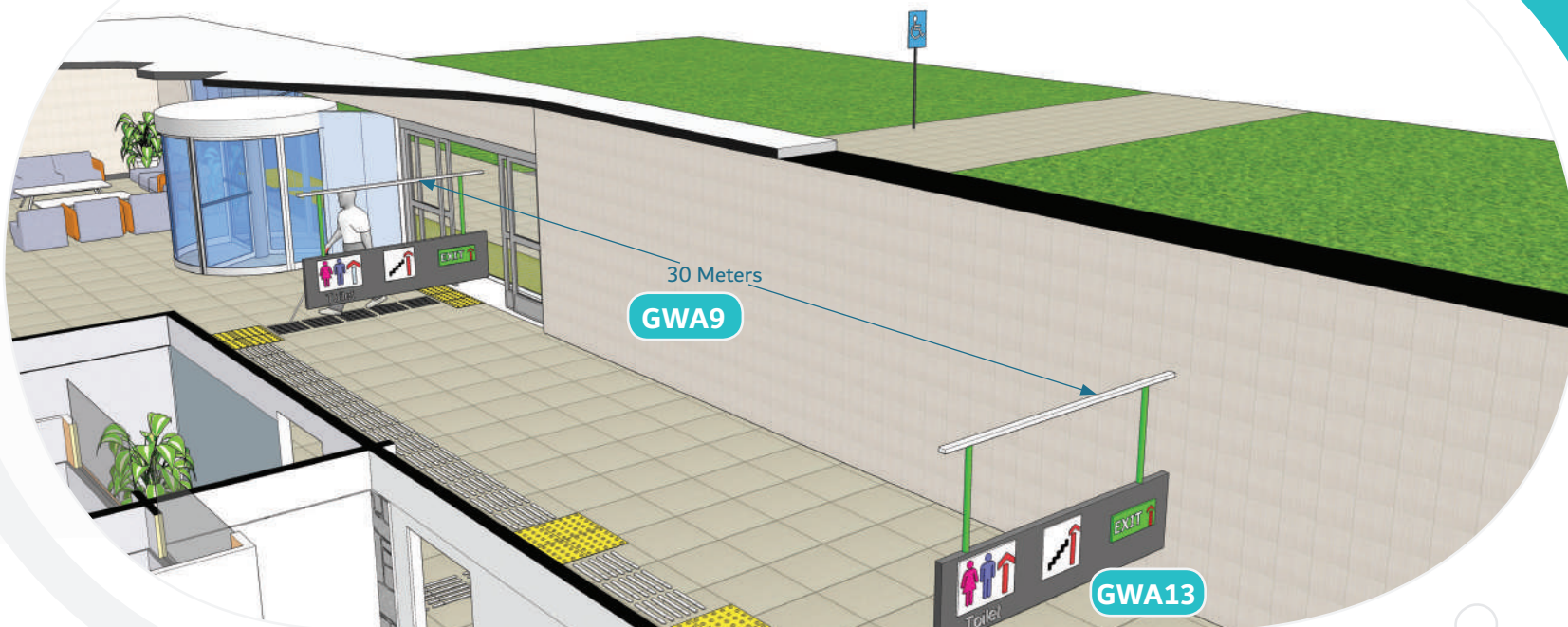
**GWA5** If fixed vertically, located between 1250 - 1750mm

**GWA6** The location of the tactile map on the right side near the door within 1000mm and near the stair or elevator in the multistory building





**GWA7** All public buildings have the name and Makani number on façade and directory inside the lobby



**GWA9** In buildings, orientation signs every 30 meters, including exit and toilets and other services

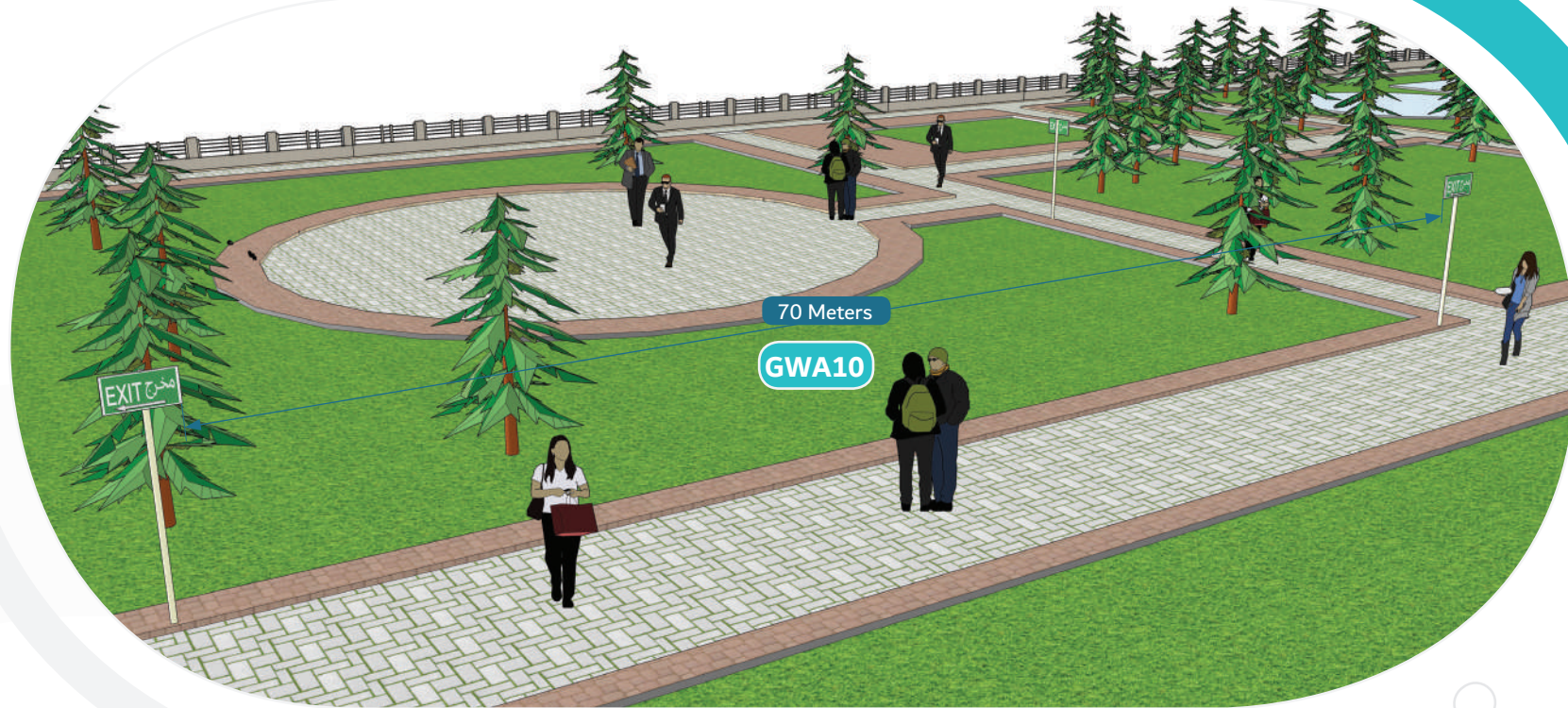
**GWA13** Directional signs are simple, clearly visible, good shape and well organized with no duplicated information and with reflectance contrast  $\geq 50$  LRV





**GWA10** In parks and open spaces orientation sign every 70 meters for nearest exit and nearest toilets





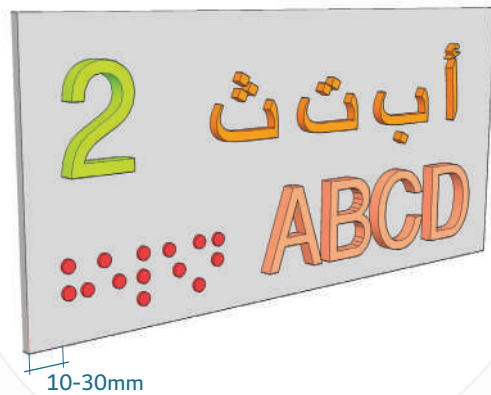
**GWA10** In parks and open spaces orientation sign every 70 meters for nearest exit and nearest toilets



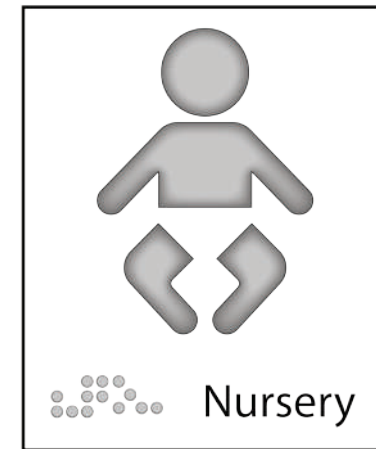
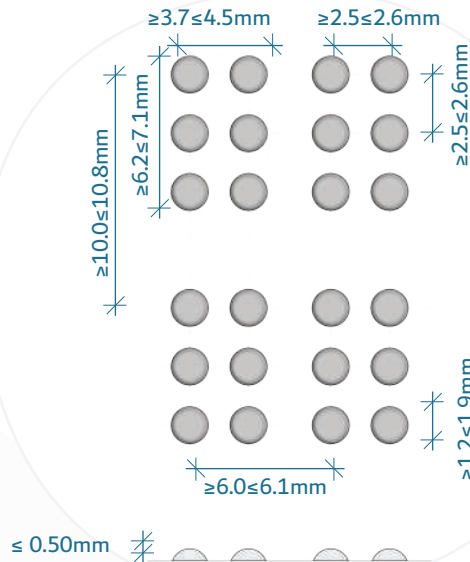
**GWA8** All door frames with information signs in public buildings

**GWA11** Letters, numbers, symbols and pictographs are not glare and high reflectance contrast

**GWA12** Includes both Arabic and English languages



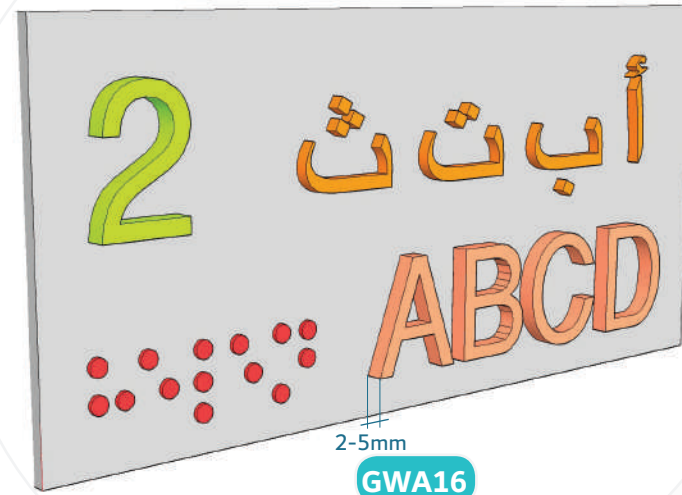
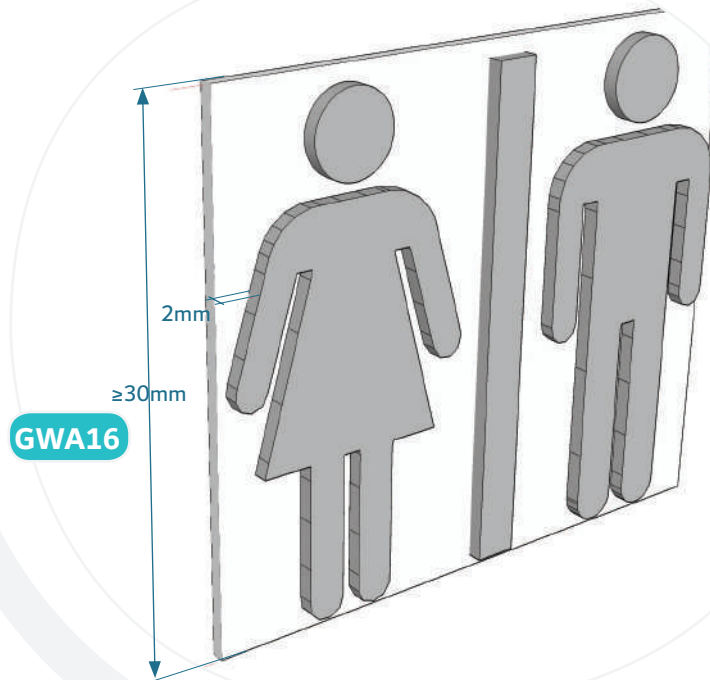
GWA14



GWA15

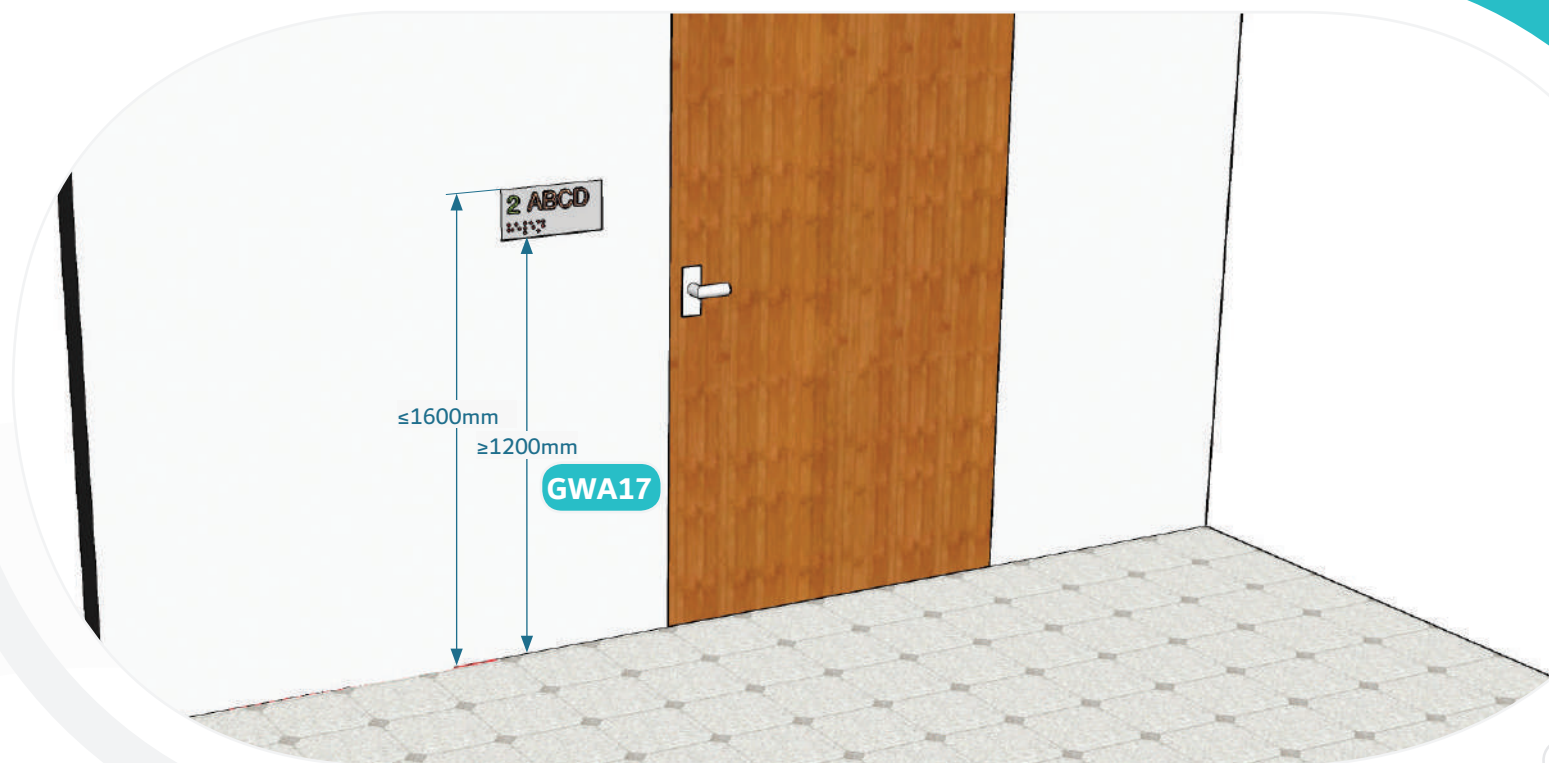
**GWA14** Braille character located at the bottom left of the destination sign at distance of 10 - 30mm, according to ISO 7000 : 2004 standards

**GWA15** Pictograms and symbols follow ISO 7000 : 2004 standards



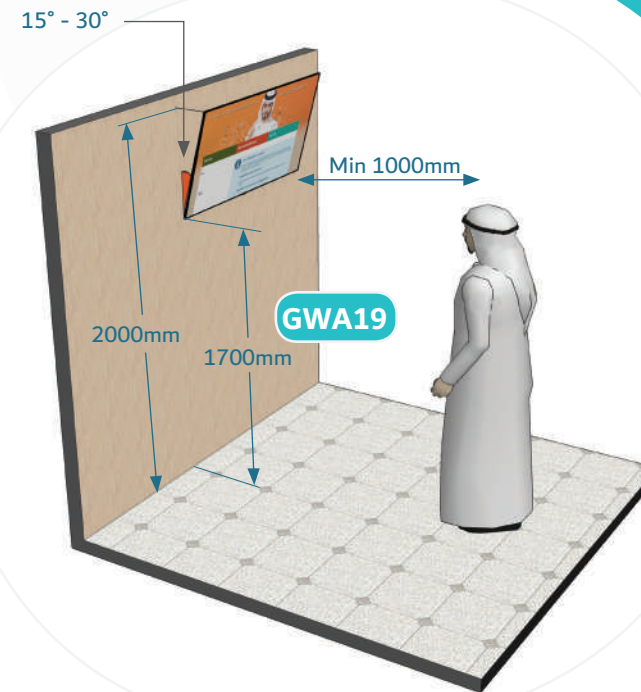
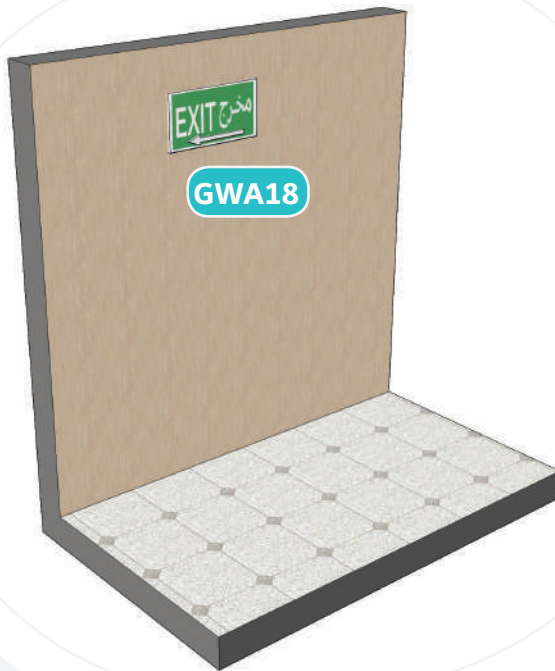
**GWA16** Symbol height  $\geq 30\text{mm}$  and thickness 2 - 5mm for letters and 2mm for symbols





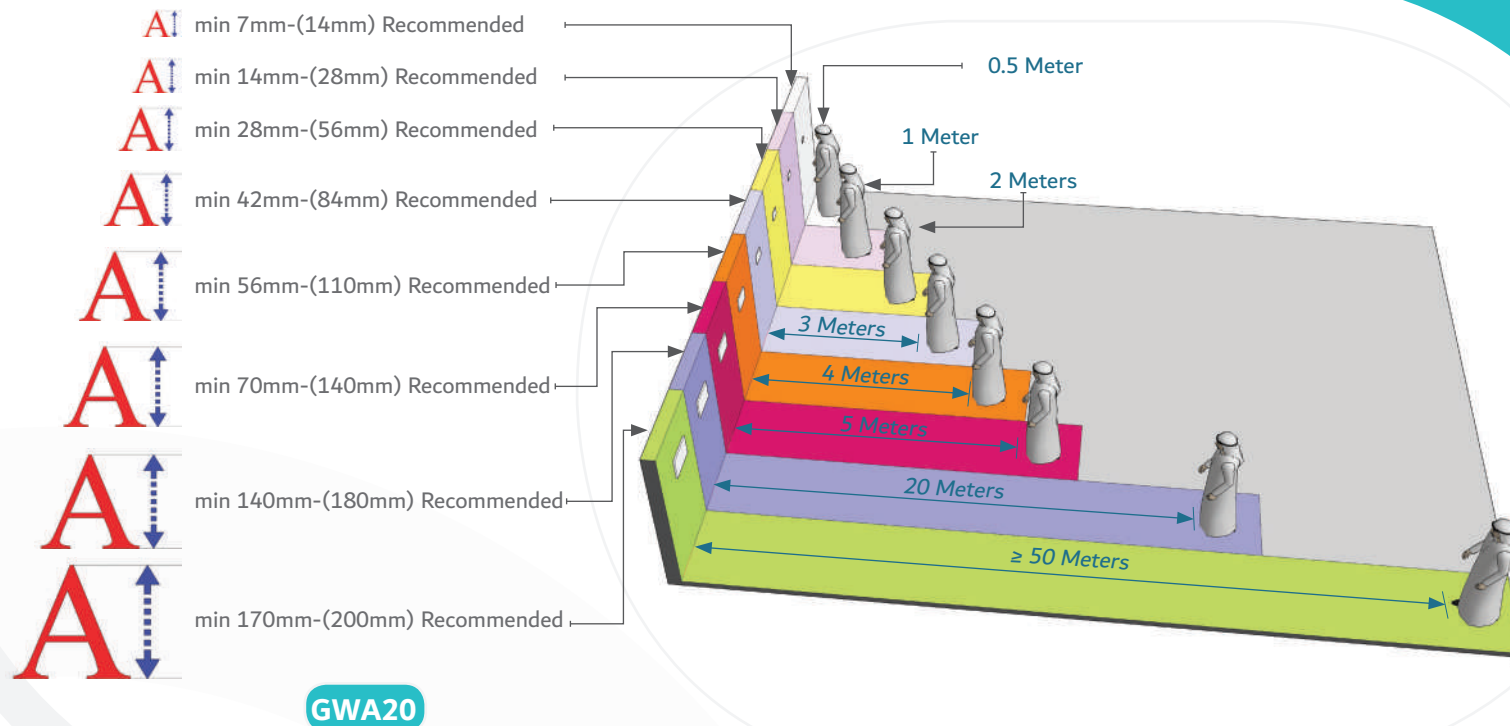
**GWA17** Signs at walls located at height 1200 - 1600mm on the left side of the door





**GWA18** Exit and evacuation pictogram according to ISO 3864 - 1 : 2002

**GWA19** Digital screens located at height 1700-2000mm, with slight inclination (15° - 30°) and visible from a minimum distance of 1000mm



**GWA20** Signs Font size according to reading distance

According to reading distance:

GWA20		
Reading <i>distance</i>	Minimum <i>Font Size</i>	Recommended <i>Font Size</i>
≥50 meters	170mm	200mm
20 meters	140mm	180mm
5 meters	70mm	140mm
4 meters	56mm	110mm
3 meters	42mm	84mm
2 meters	28mm	56mm
1 meters	14mm	28mm
0.5 meters	7mm	14mm



**GWA21** Signs out of the accessible path and clear headroom  $\geq 2200$  mm









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