



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.

The background is a solid teal color. On the left side, there are several stylized, darker teal silhouettes of people. Some are standing, some are sitting or kneeling. A white dotted line starts from the top left and curves downwards and to the right, passing behind the silhouettes. The word "Index" is written in white, sans-serif font in the lower-left area.

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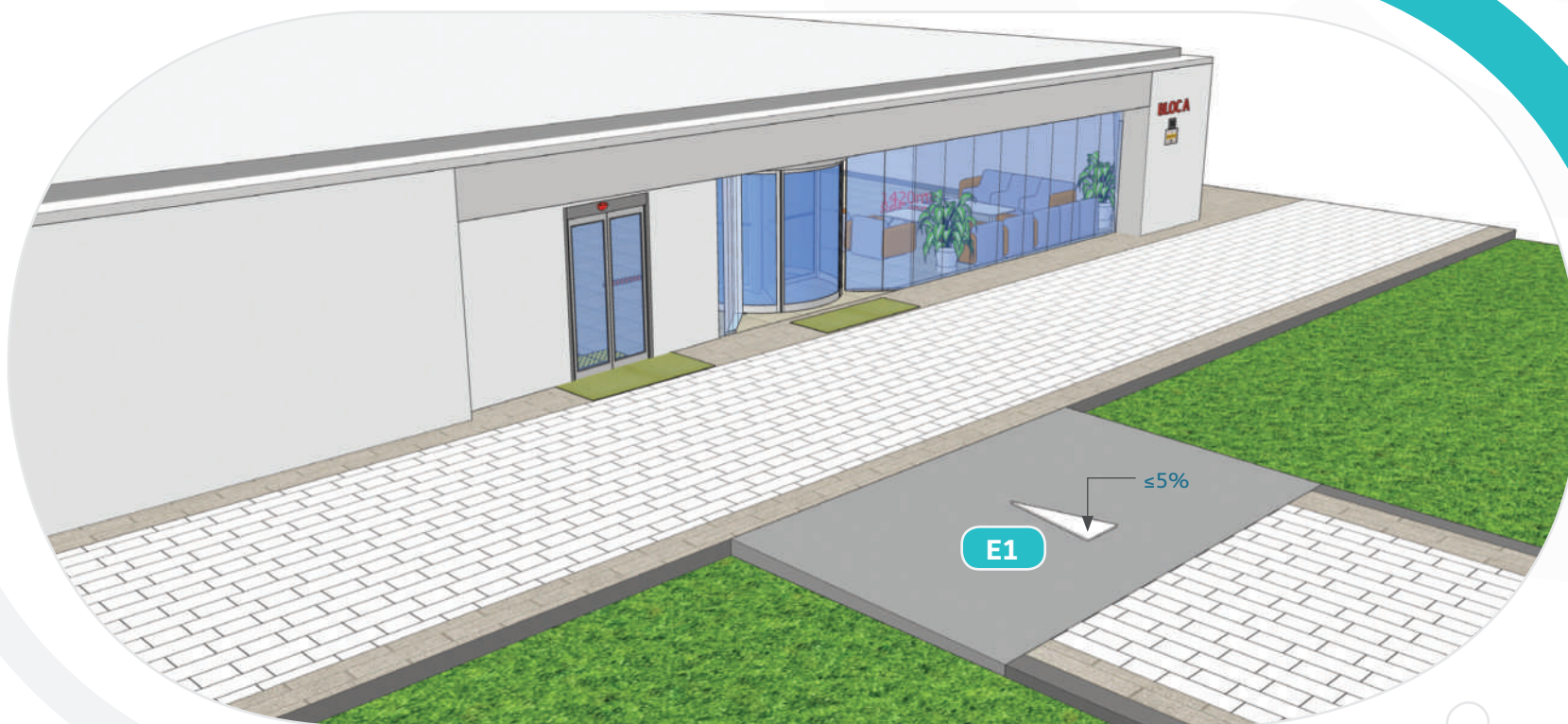
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Entrance





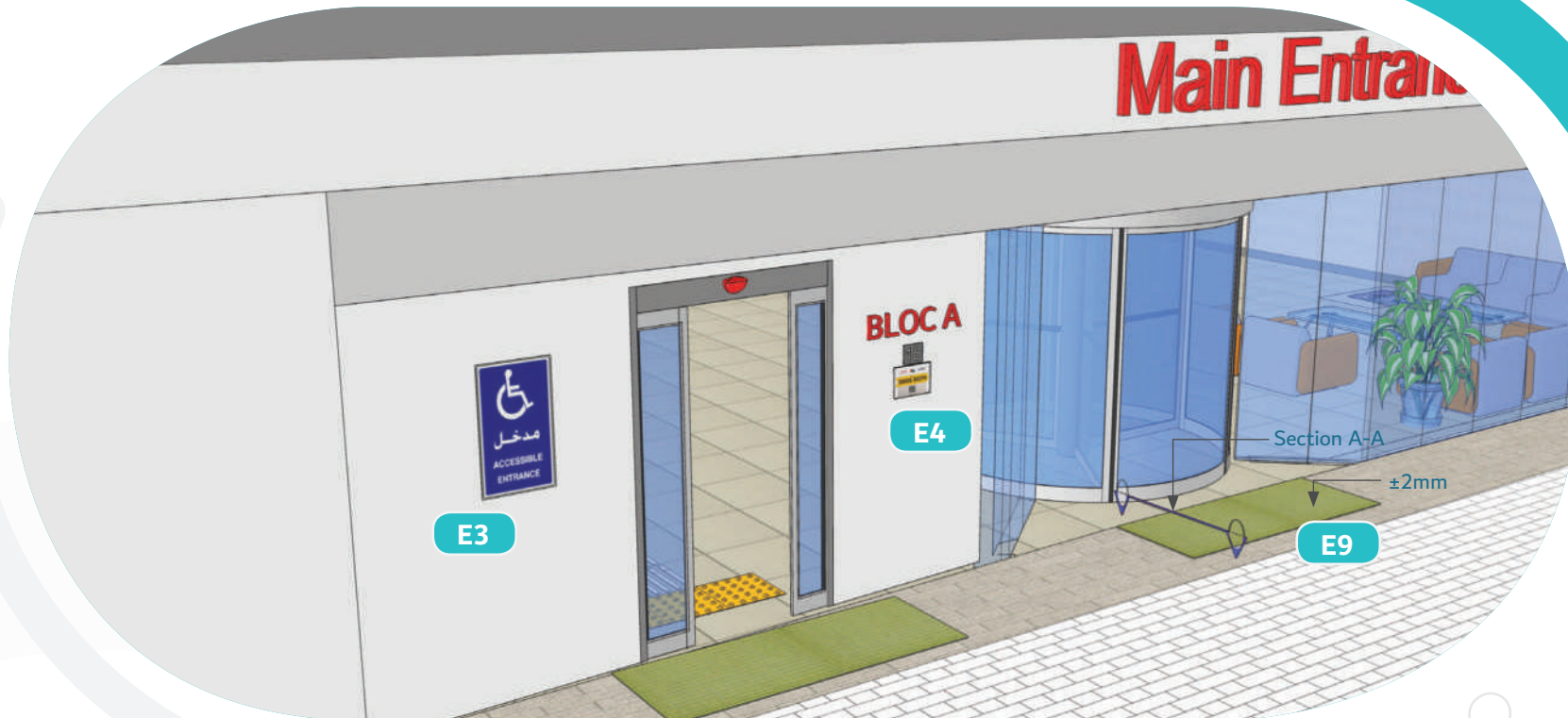
E1 Gradients of entrances $\leq 5\%$



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



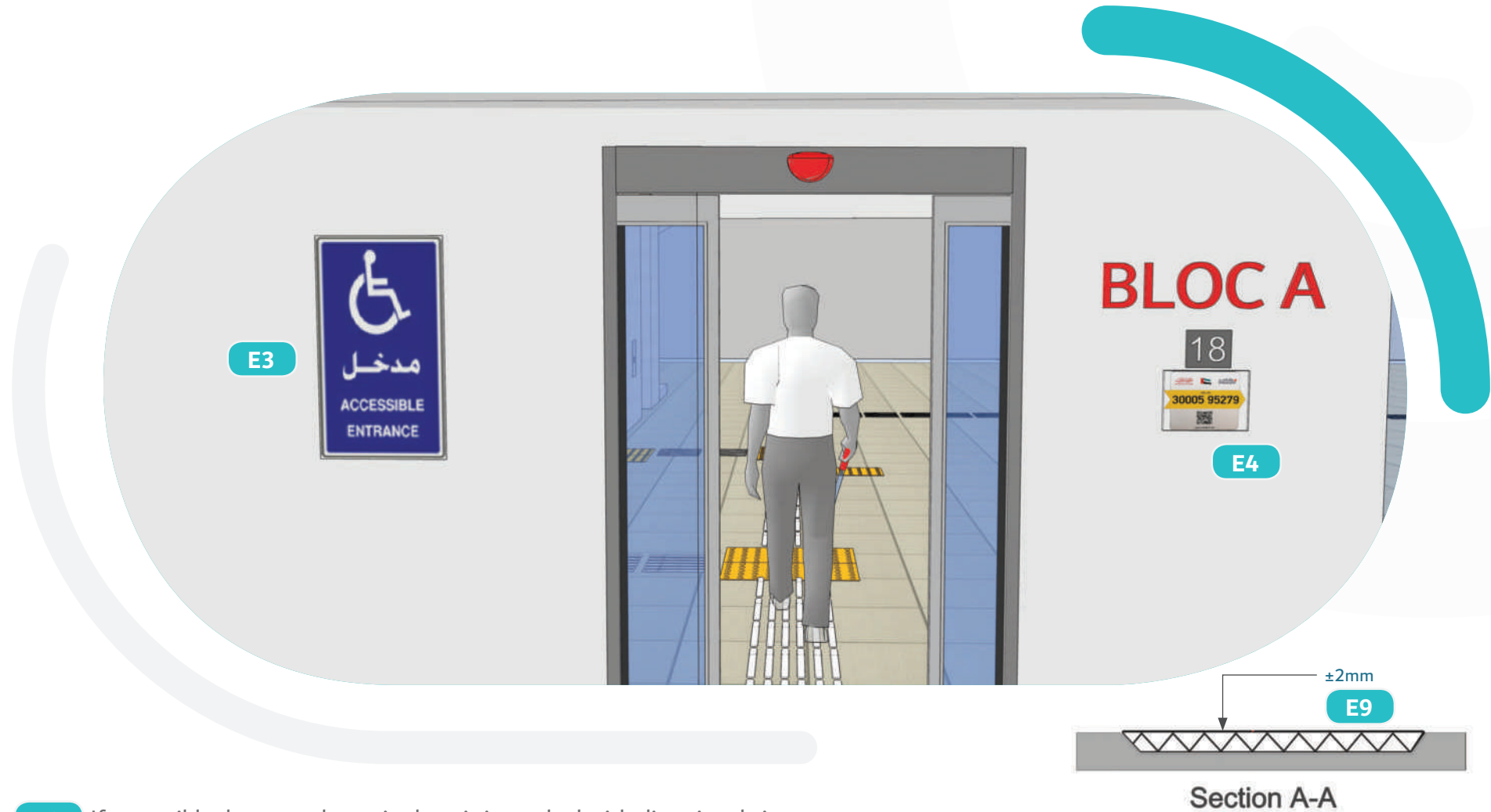
E3 If accessible door not the main door, it is marked with directional sign



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

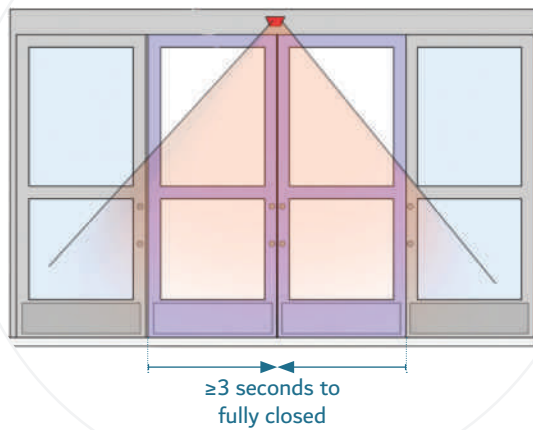
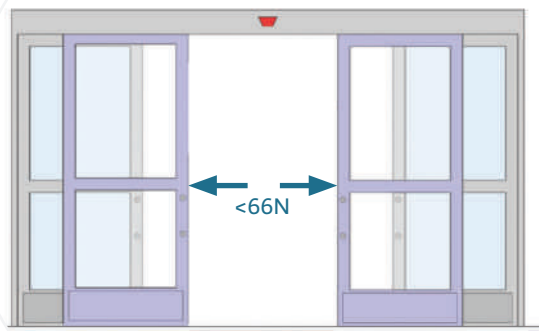
E9 Doormats levelled with $\pm 2\text{mm}$



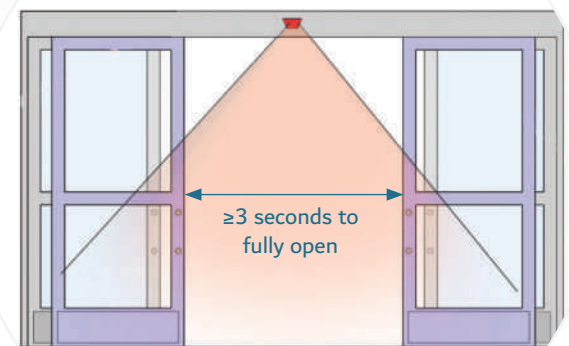
E6 Dimensions of the doors $\geq 900\text{mm}$ width x 2100mm height

E7 Automatic door

E8

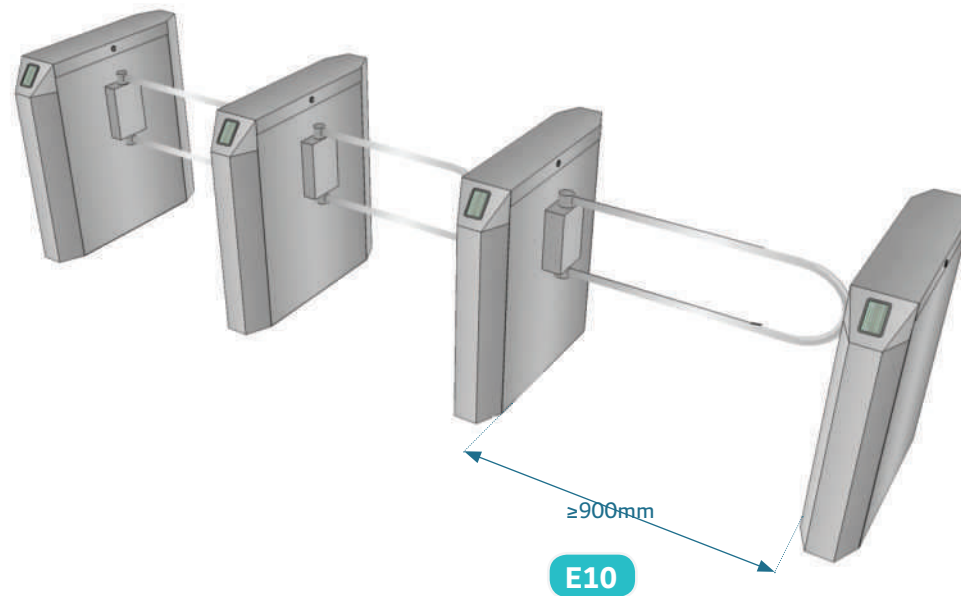


≥5 seconds
remaining open

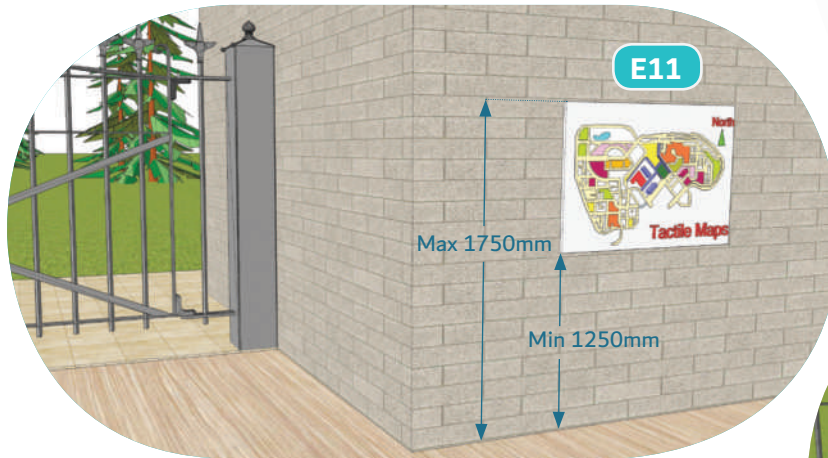


E8

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



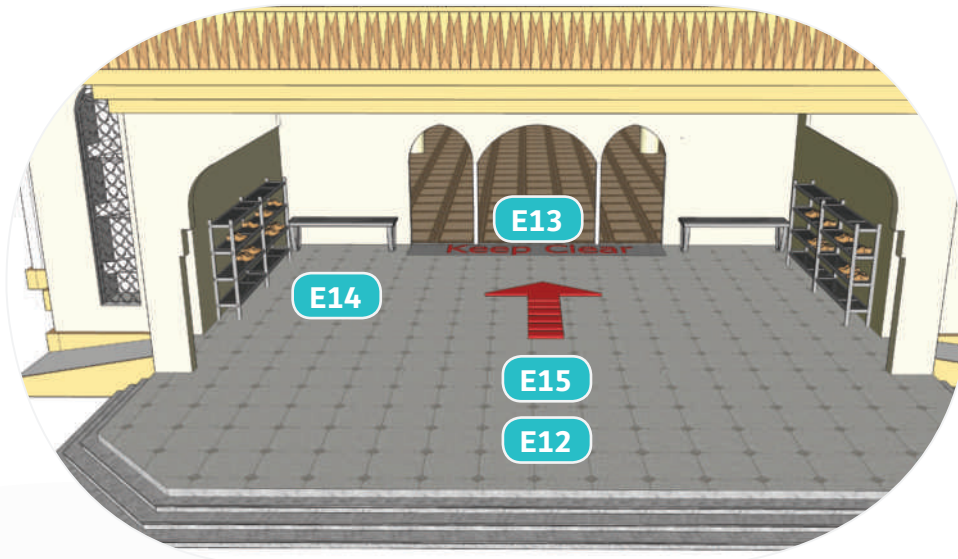
E10 Access controls barriers with at least one barrier with width $\geq 900\text{mm}$ if provided

E**Entrance: In Parks & Where Required**

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

E

Entrance: In Mosques

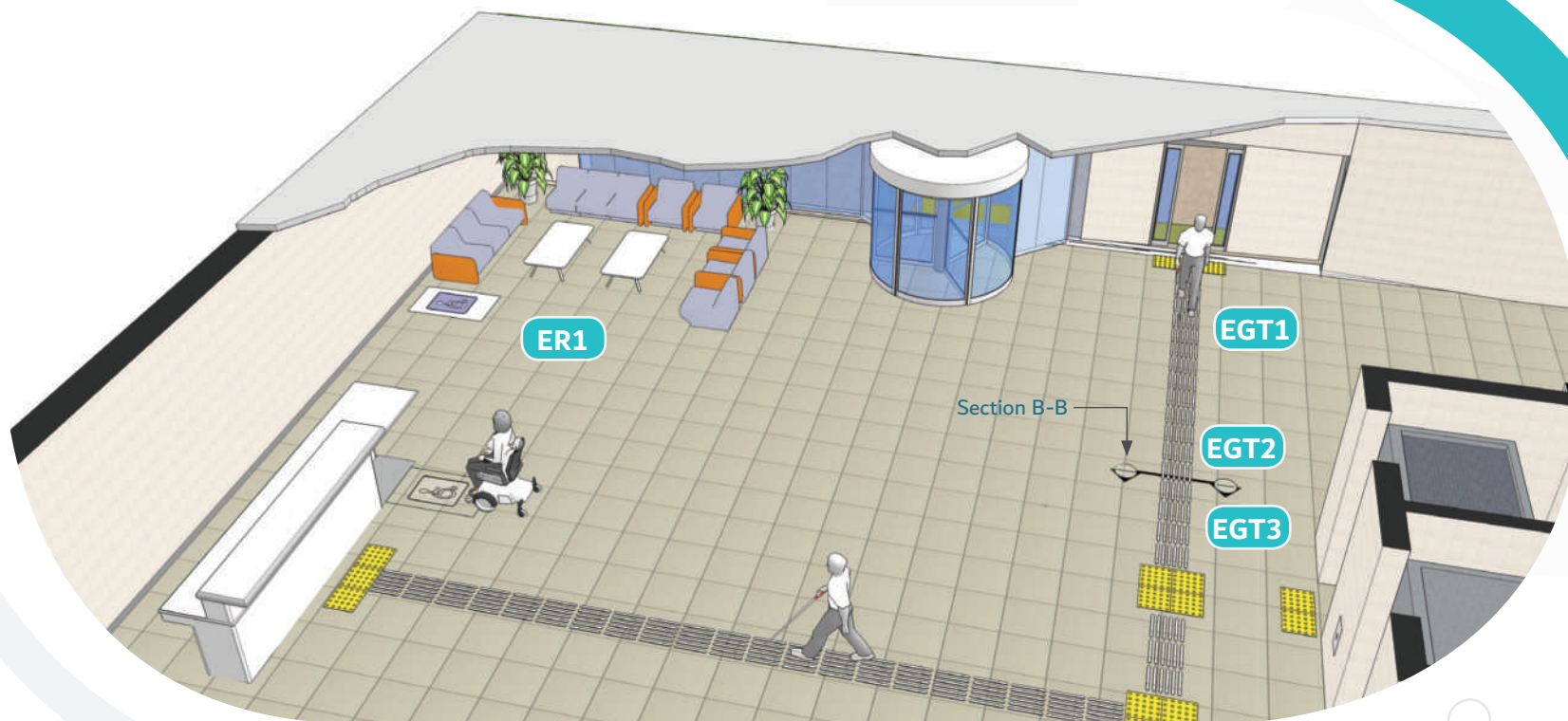


E12 A clear Area provided at the entrance to prevent shoes from blocking the accessible path

E13 keep clear mat in front the entrance

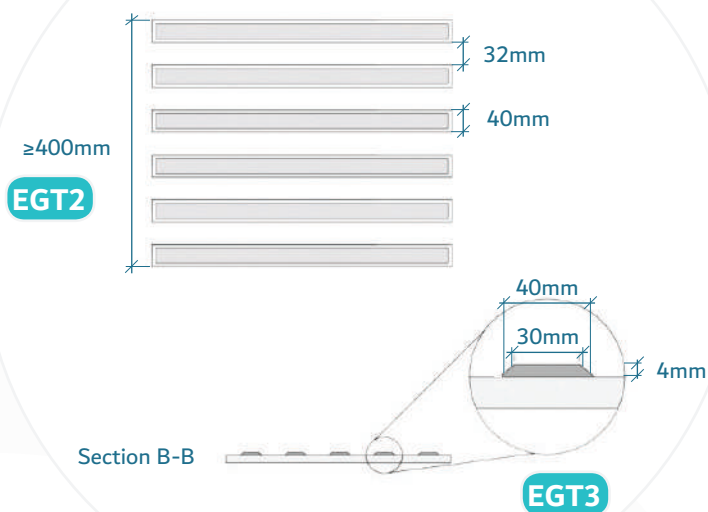
E14 Seats provided at the entrance toilets ablution areas and at other locations where people are required to remove their shoes

E15 An accessible entrance is provided



E5 In public use buildings, reception desk near the entrance

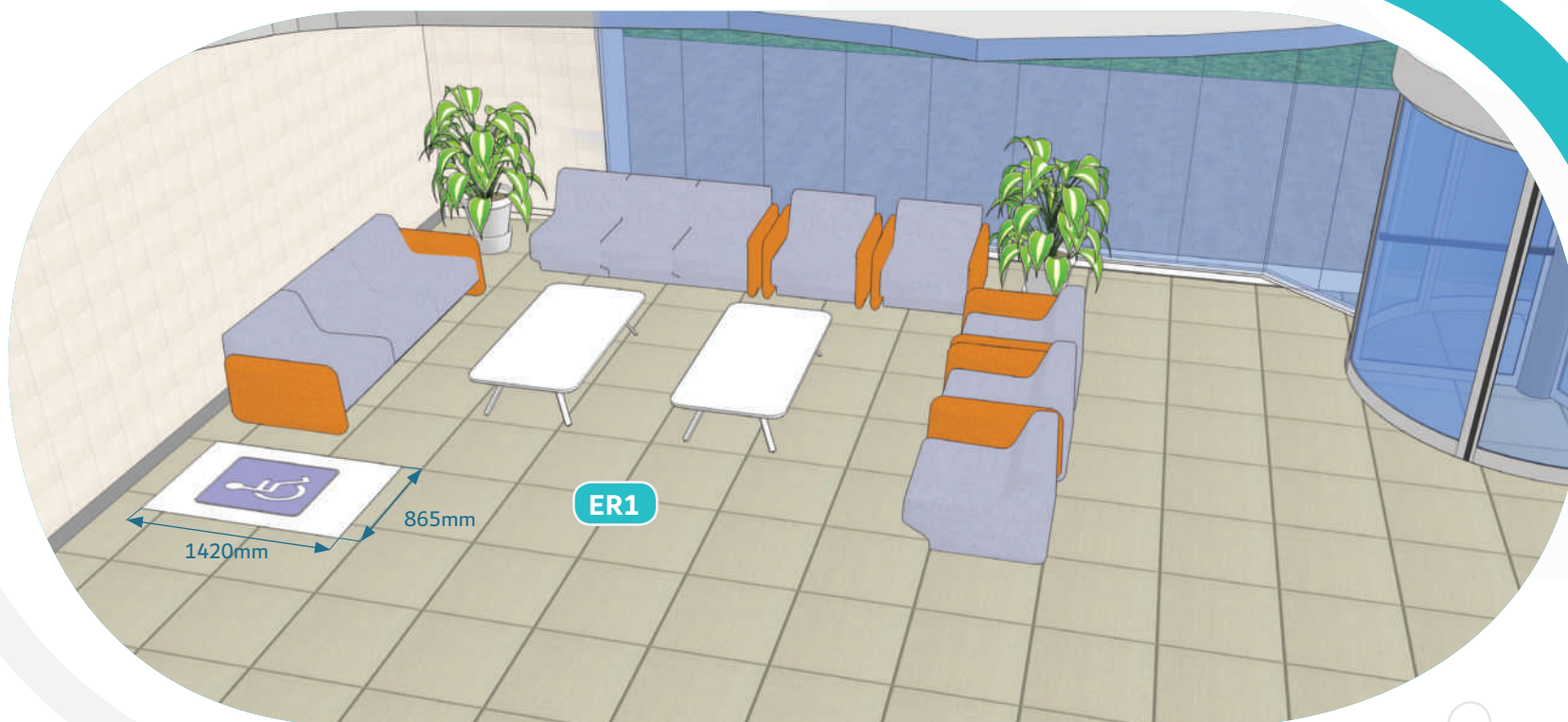
EGT1 Guiding tactile pavement from building entrance to information desk or reception in administration buildings and where required



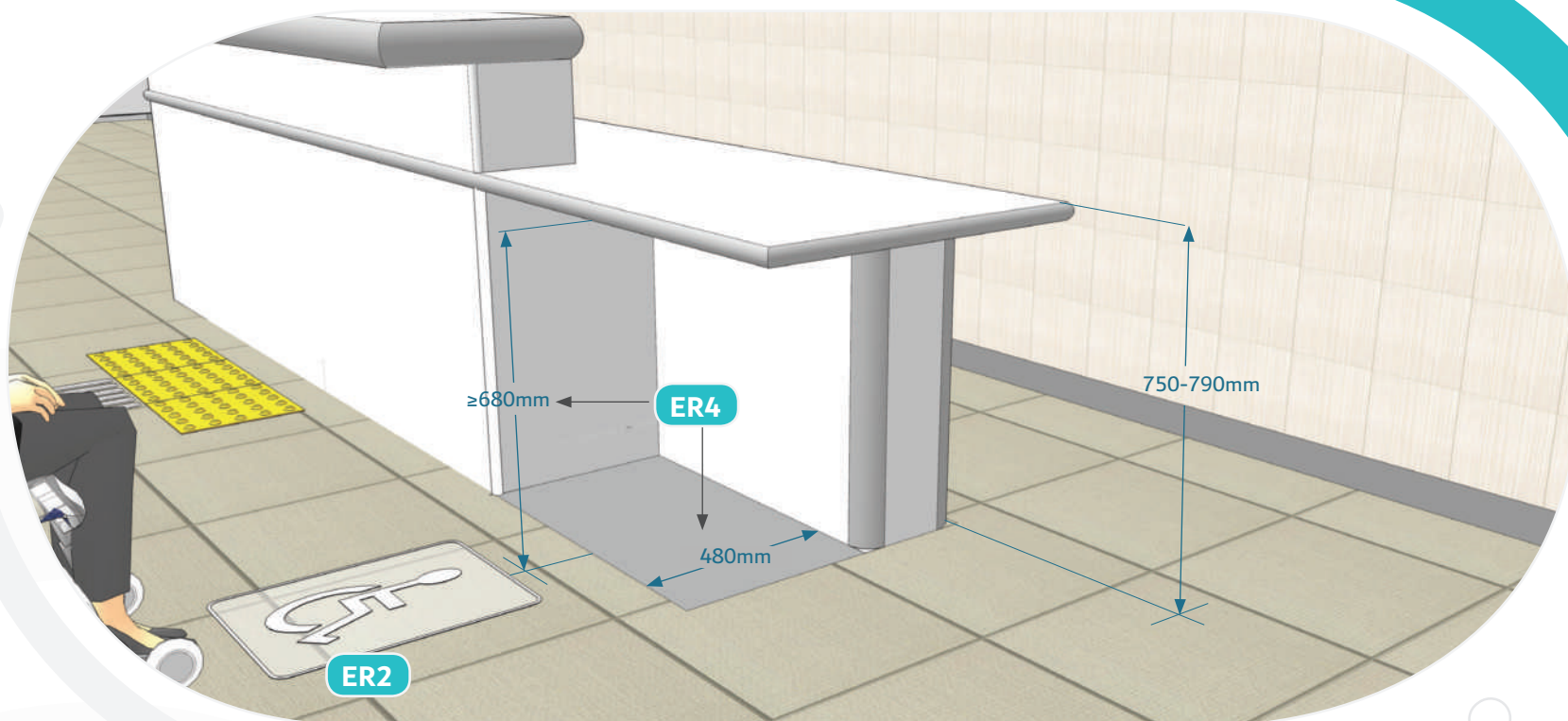
EGT2 Guiding tactile pavement width $\geq 400\text{mm}$

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

EGT4 Non glare or shiny or slippery

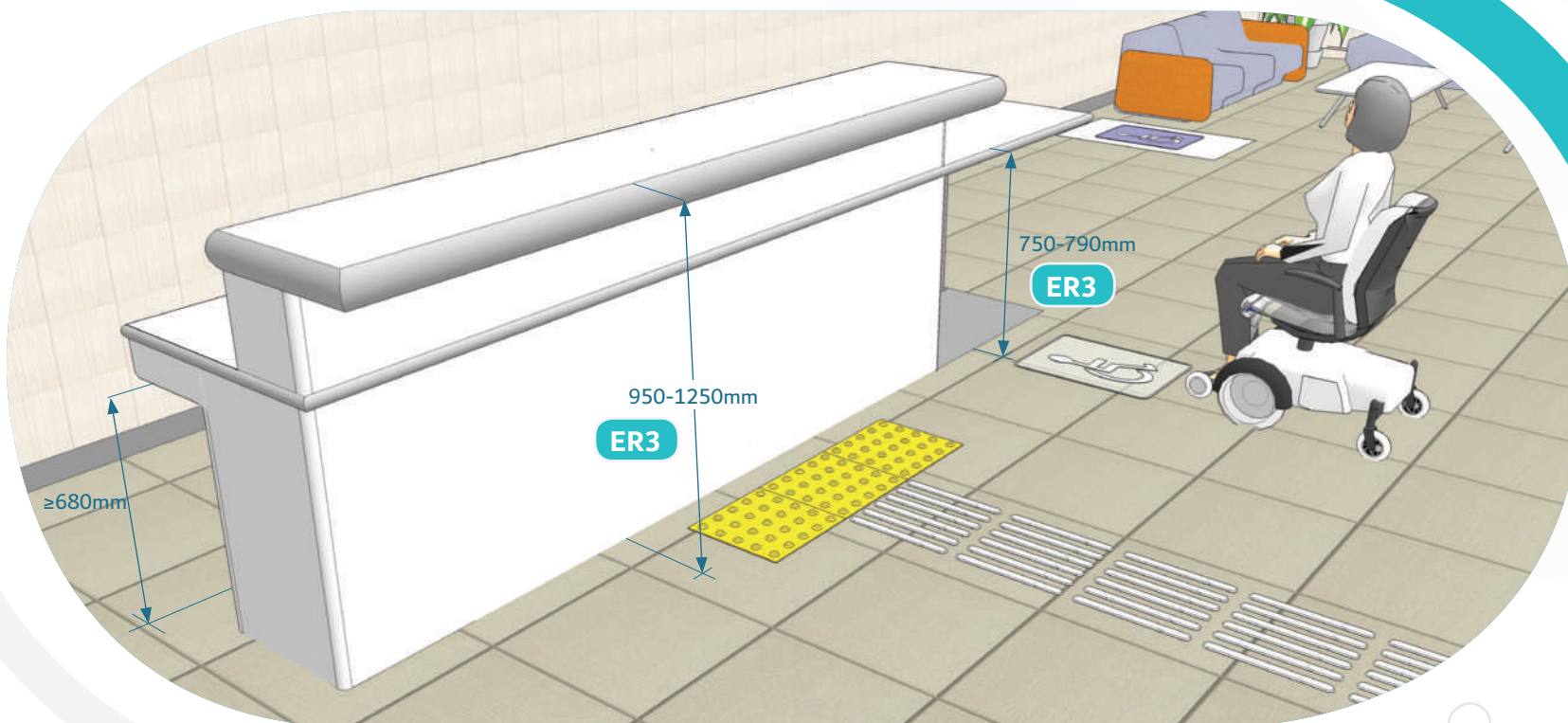


ER1 Reception areas with seating places and interaction spaces

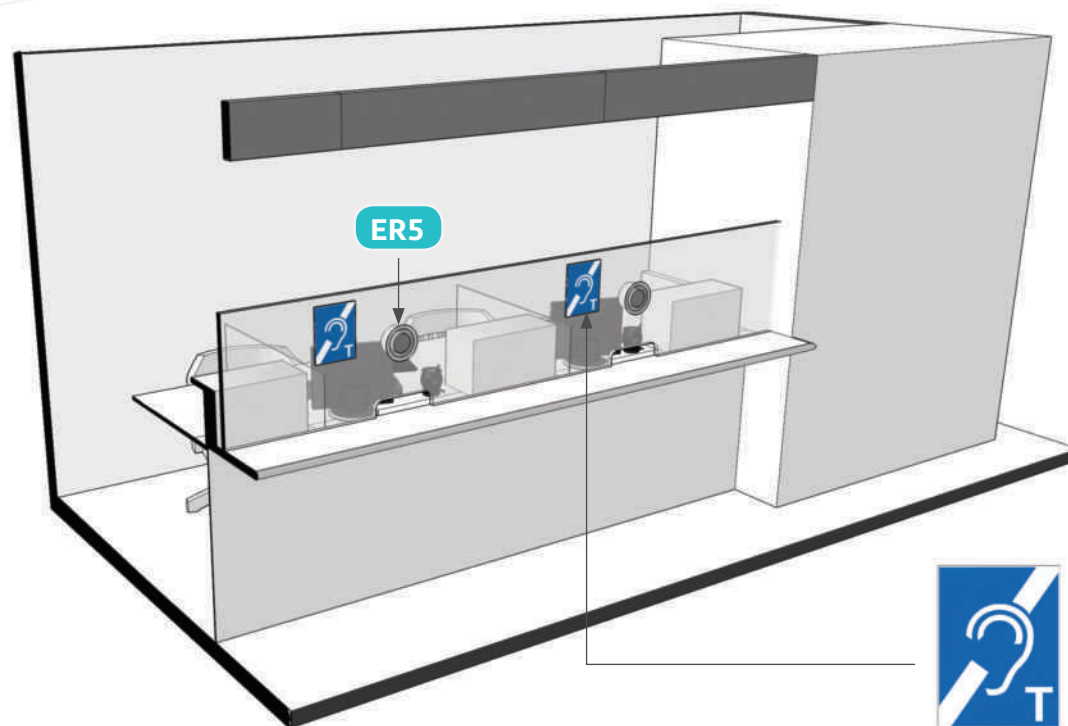


ER2 Front desks with accessible interaction space

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

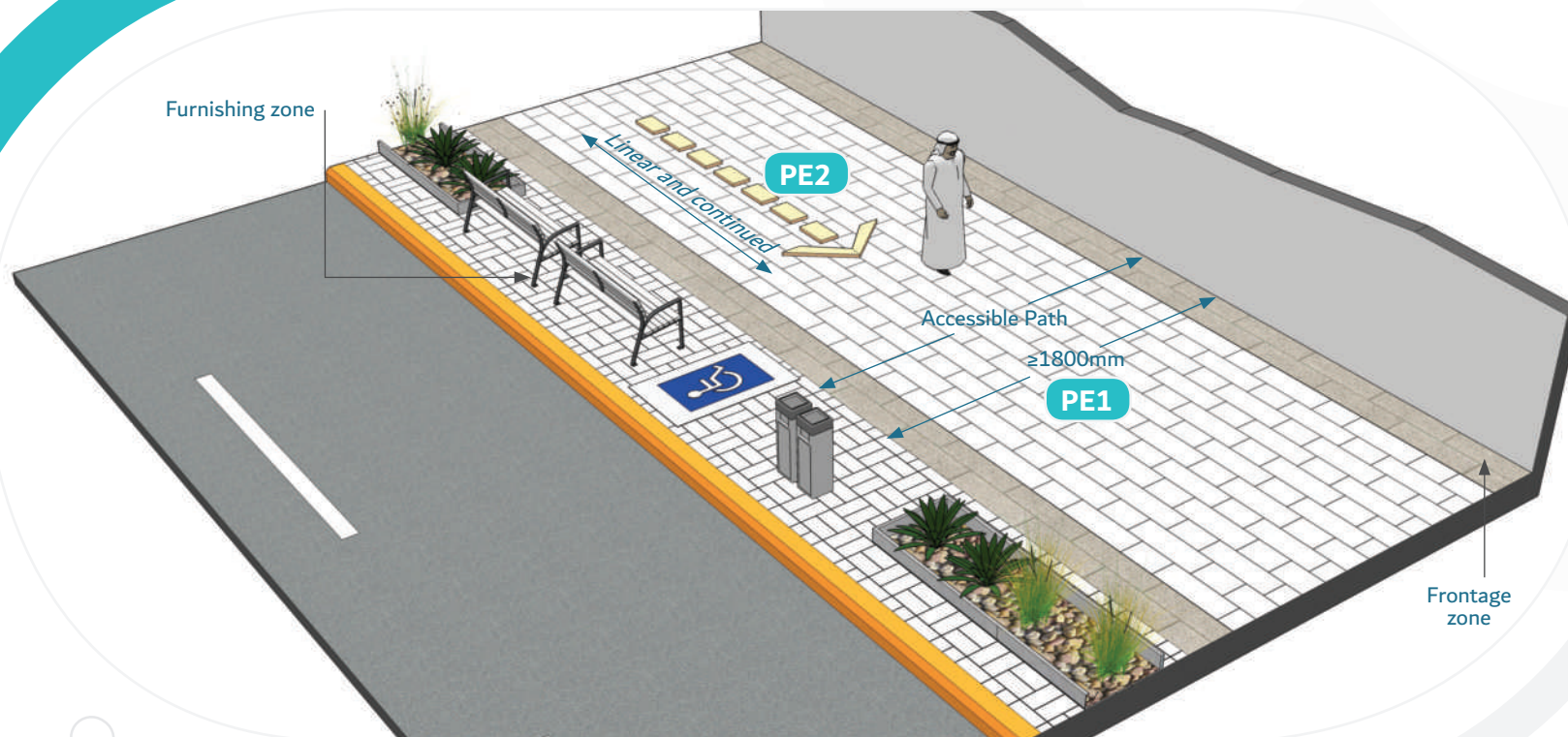


ER5 When required, hearing enhancement systems using induction loop, infrared and radio frequency are provided

ER6 With international symbol if access for hearing loss

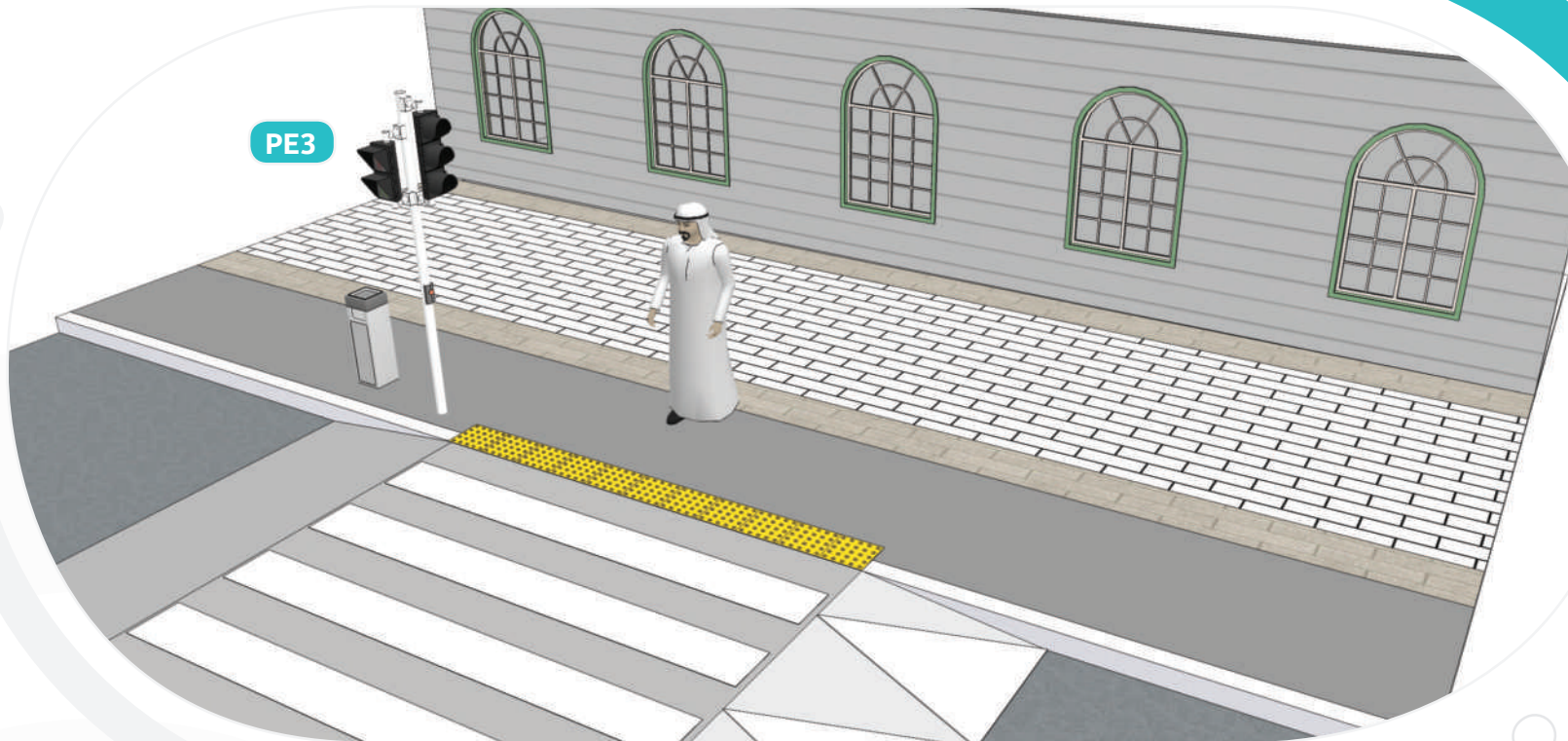
Path





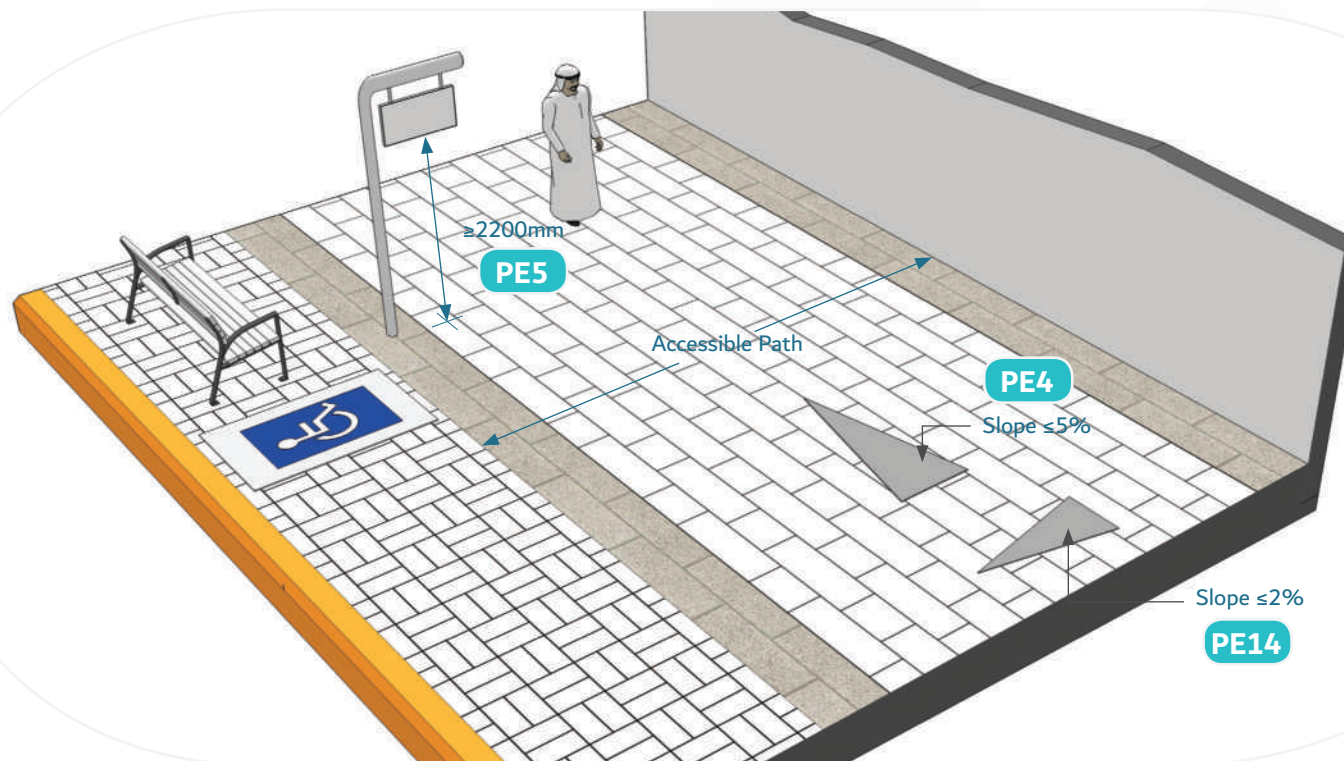
PE1 1800mm width without obstacle, from the parking to the entrance, segregated from traffic circulation

PE2 Linear and continued



PE3

Intersections clearly visible with signs or lights

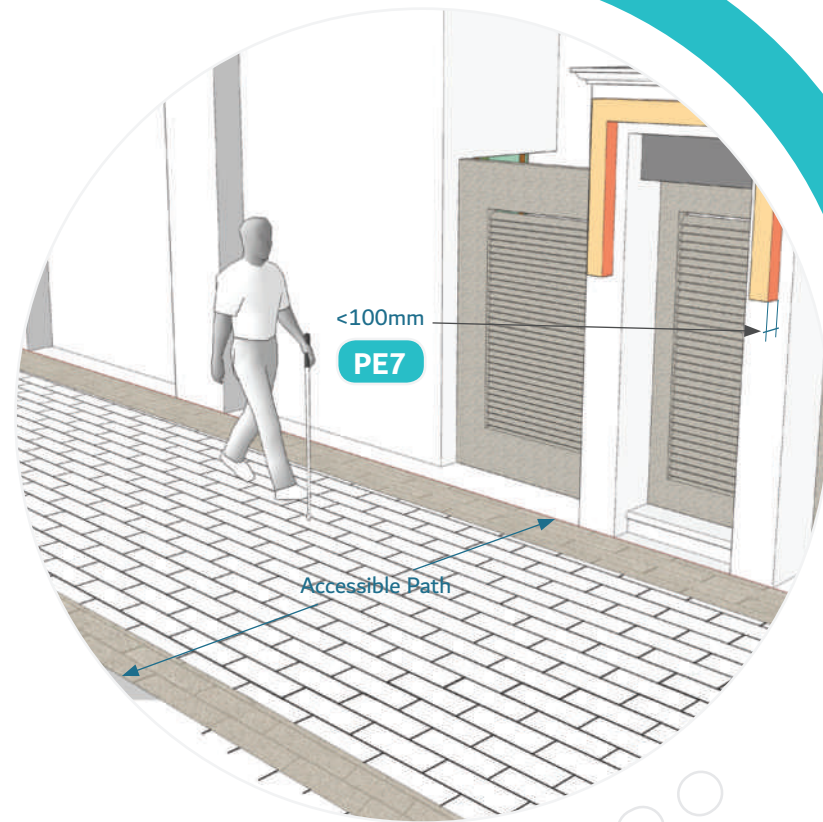
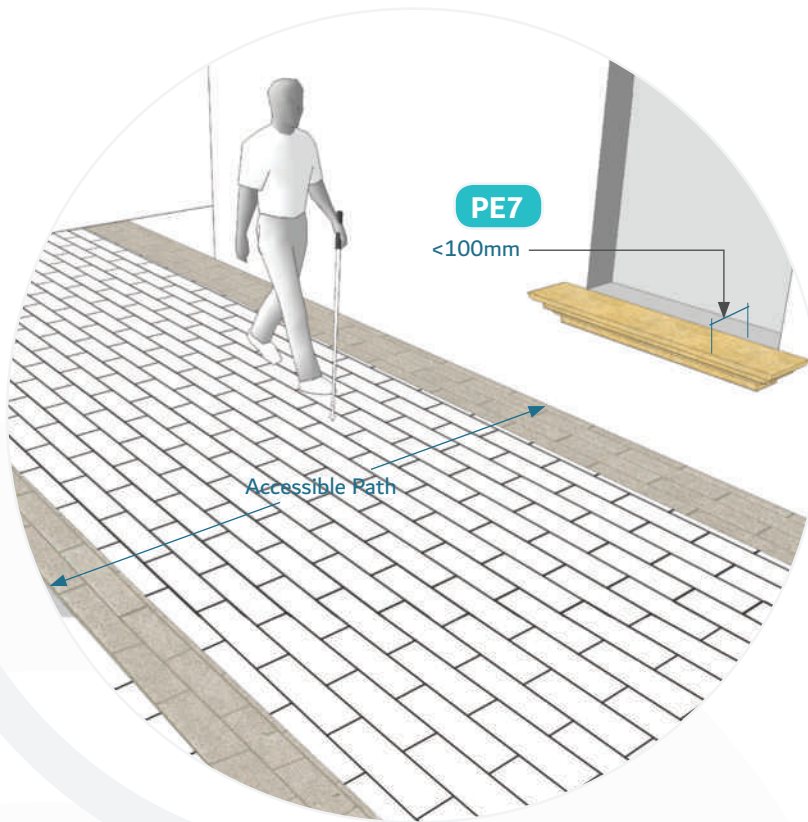


PE4 Gradient $\leq 5\%$

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

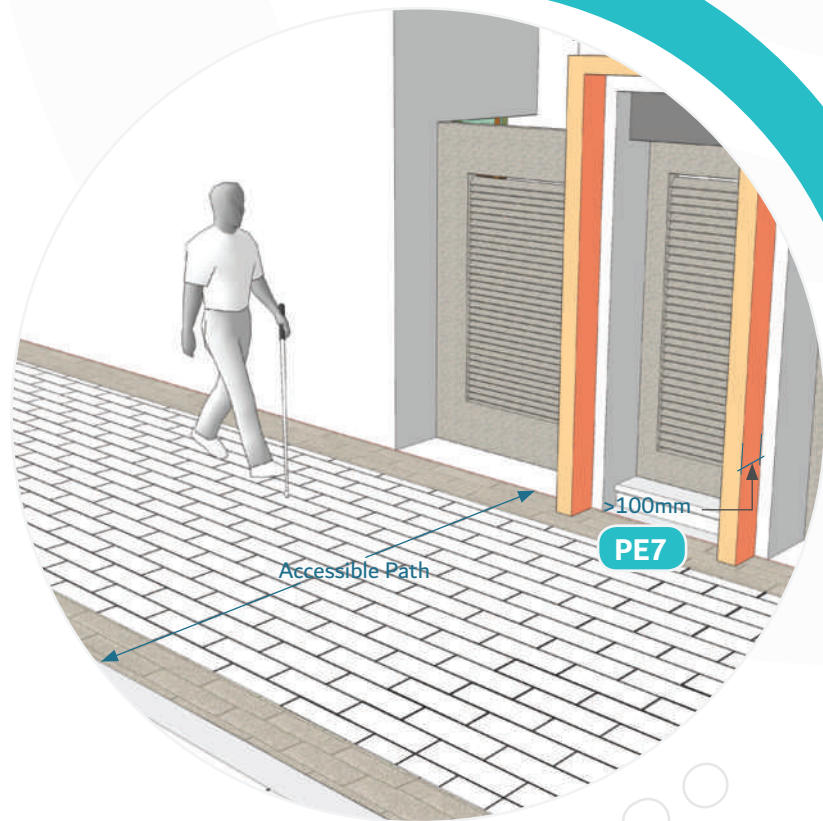
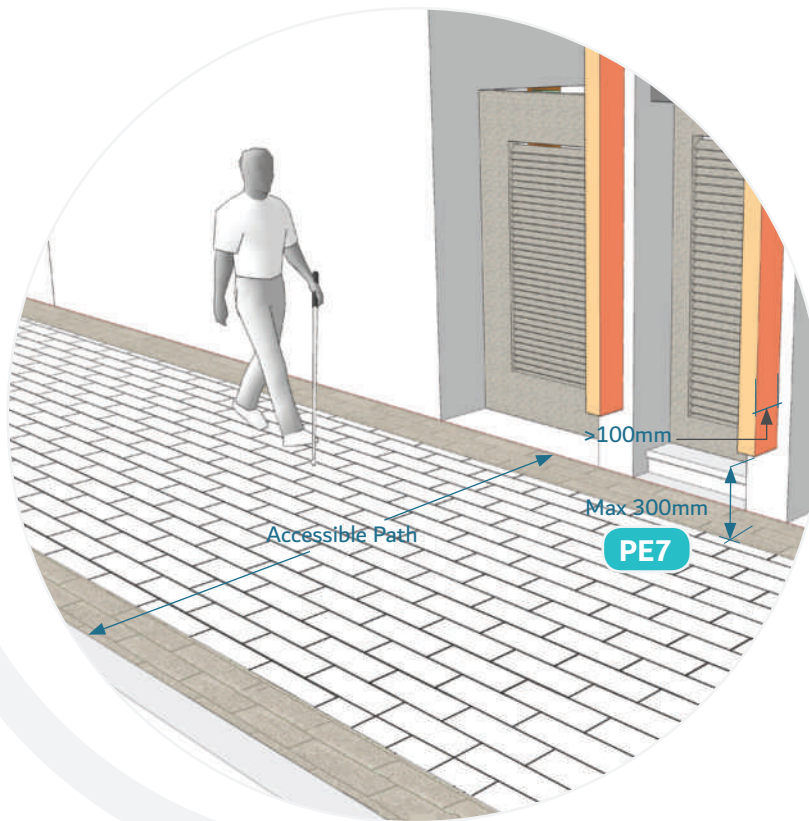
PE6 Absence of uneven surfaces - irregularities $\leq 5\text{ mm}$

PE14 Cross slope gradient $\leq 2\%$

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

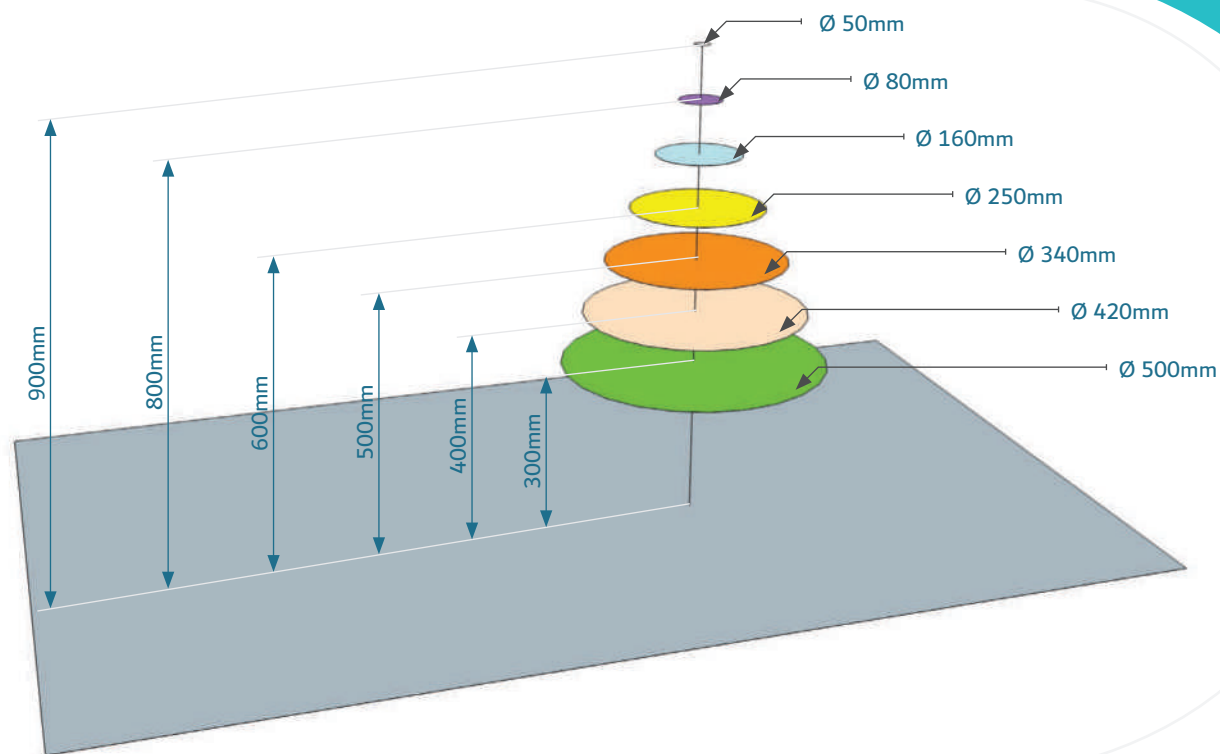
1-Objects protruding less than 100mm from façade

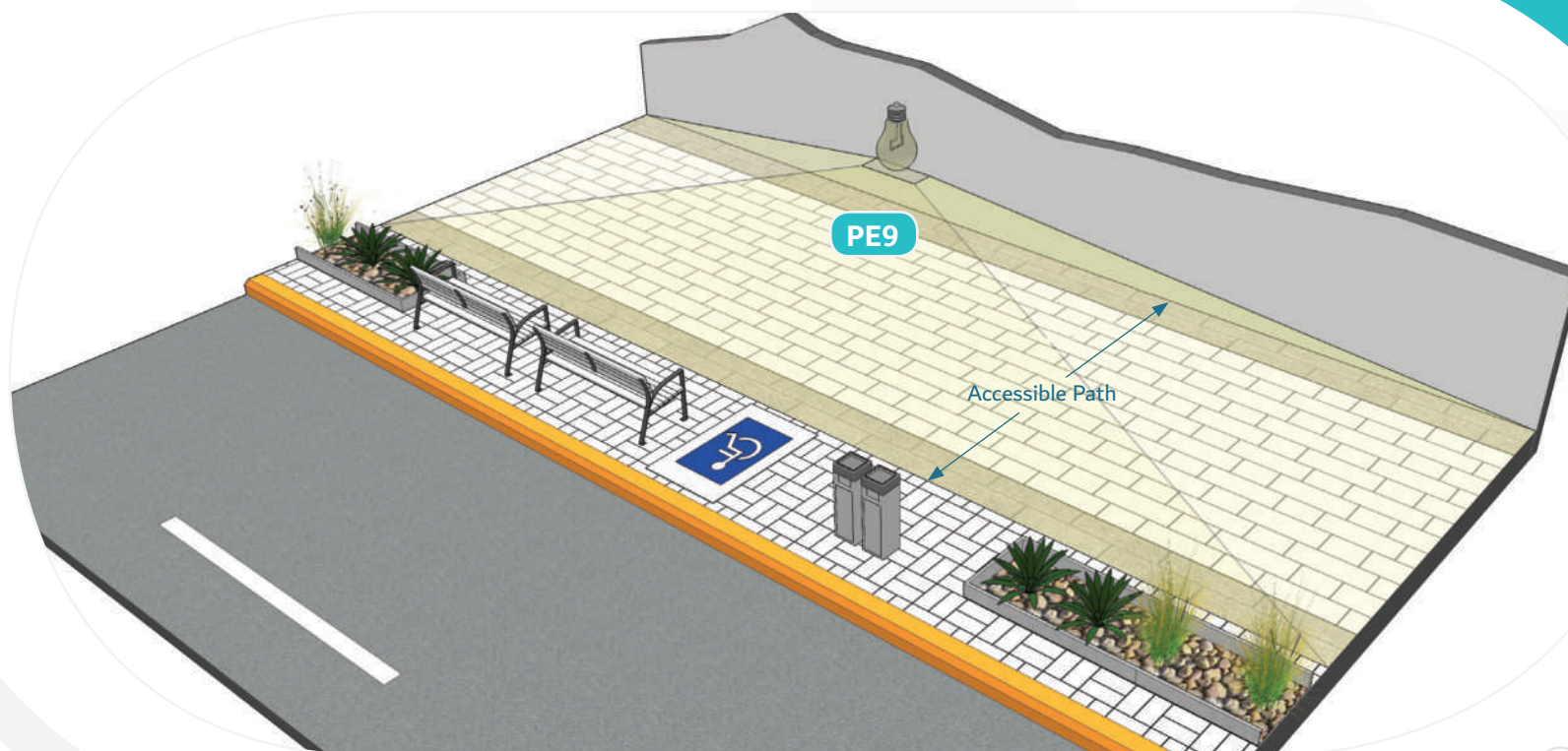
2-Objects protruding more than 100mm, extends to the floor surface or above the floor level by maximum 300mm

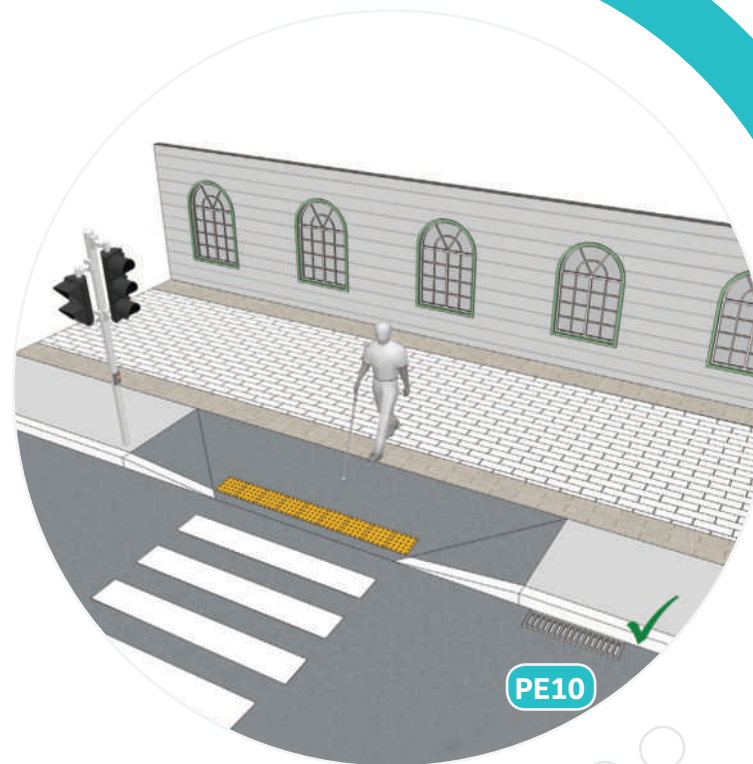
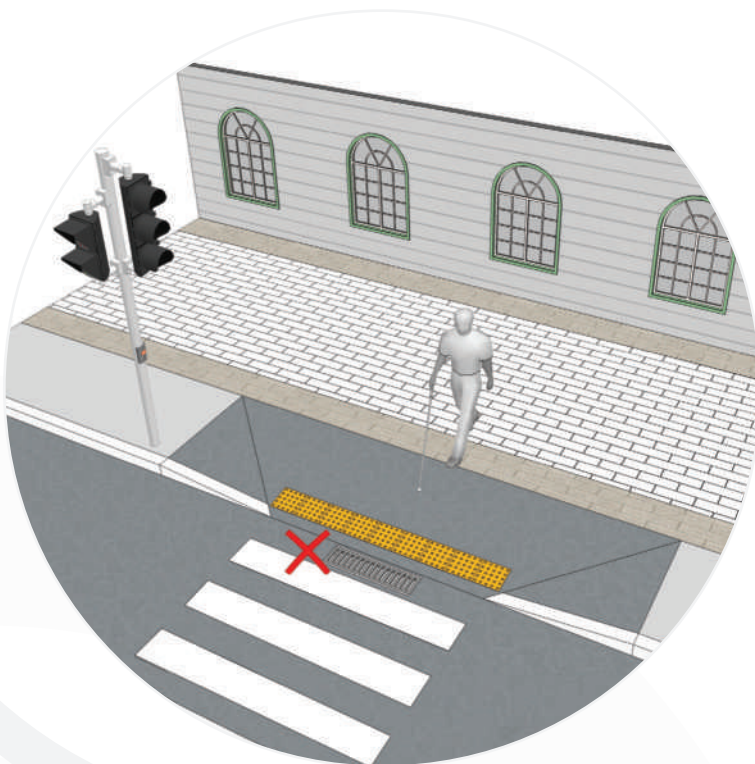
**PE7****Absence of protruding objects:**

1-Objects protruding less than 100mm from façade

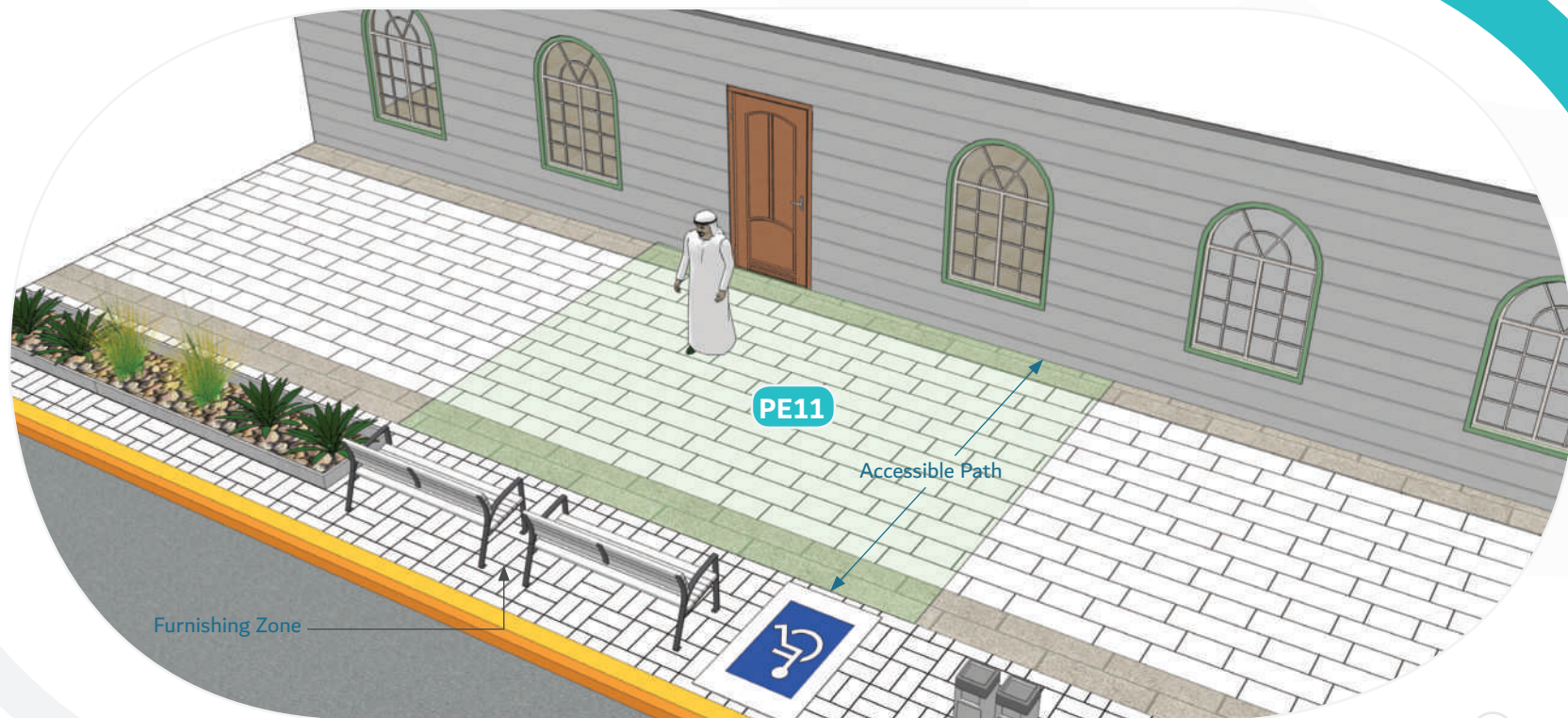
2-Objects protruding more than 100mm, extends to the floor surface or above the floor level by maximum 300mm







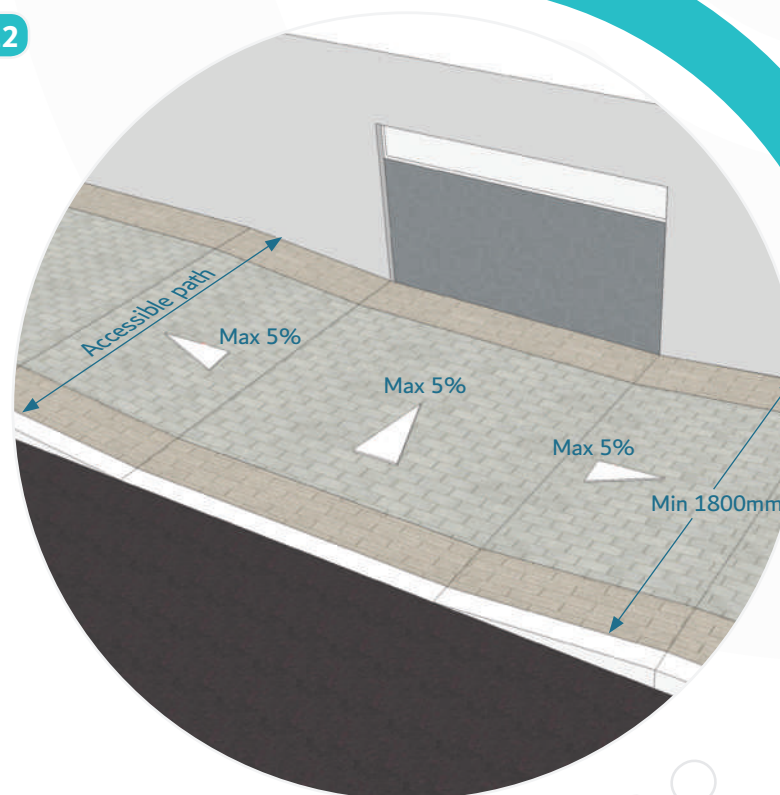
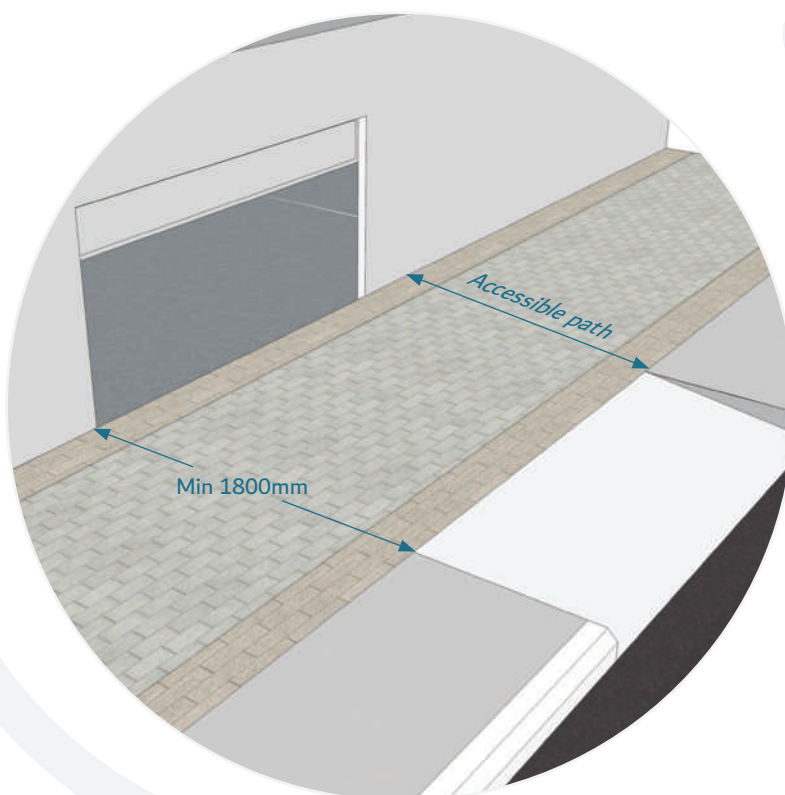
PE10 No drain grids on accessible crossings (outside the intersection)



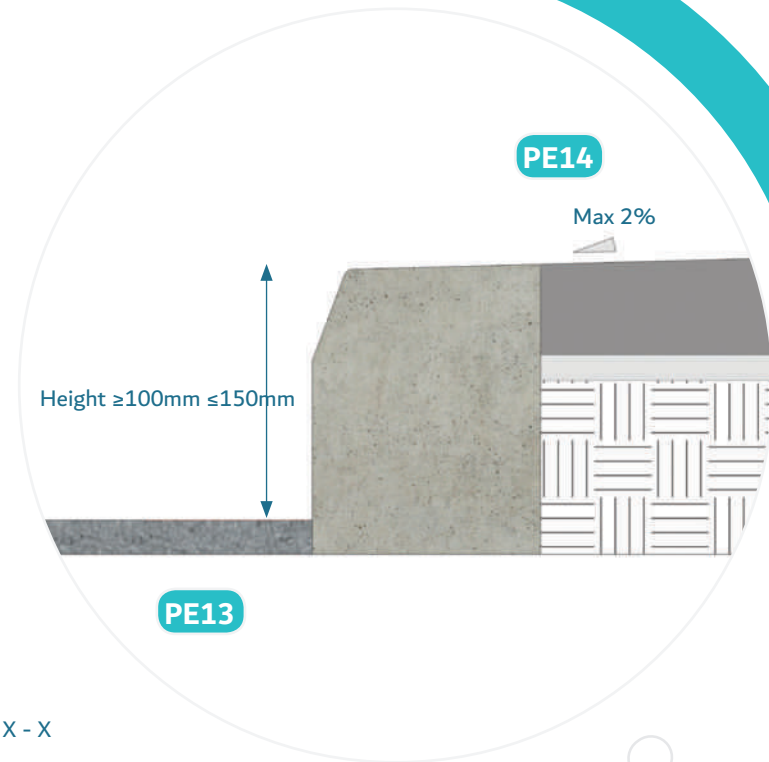
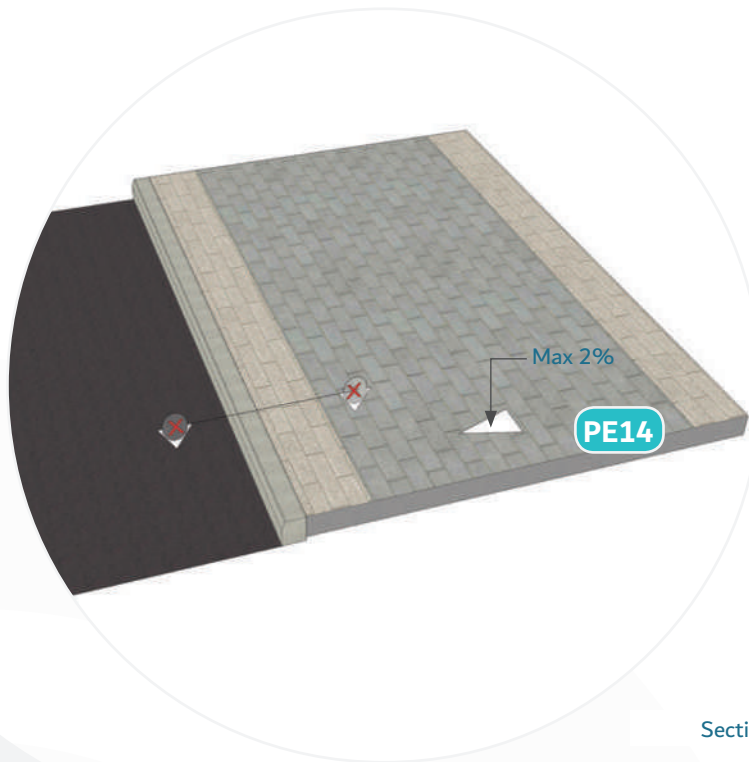
PE11 Free of obstacles and located between the building's façade and the furniture zone



PE12



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

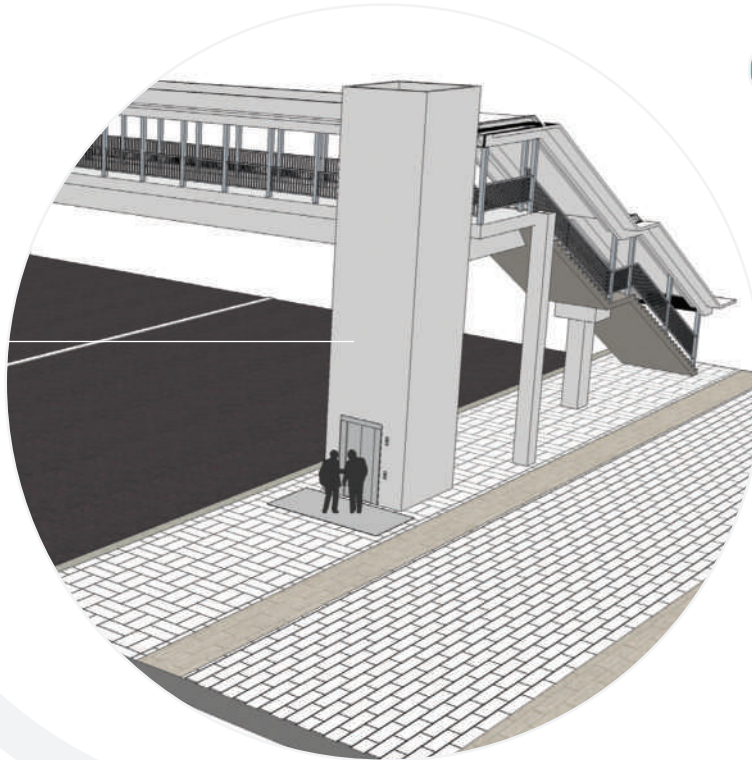


Section X - X

PE13 Curb height between 100mm and 150mm

PE14 Cross Slope Gradient $\leq 2\%$

Elevator

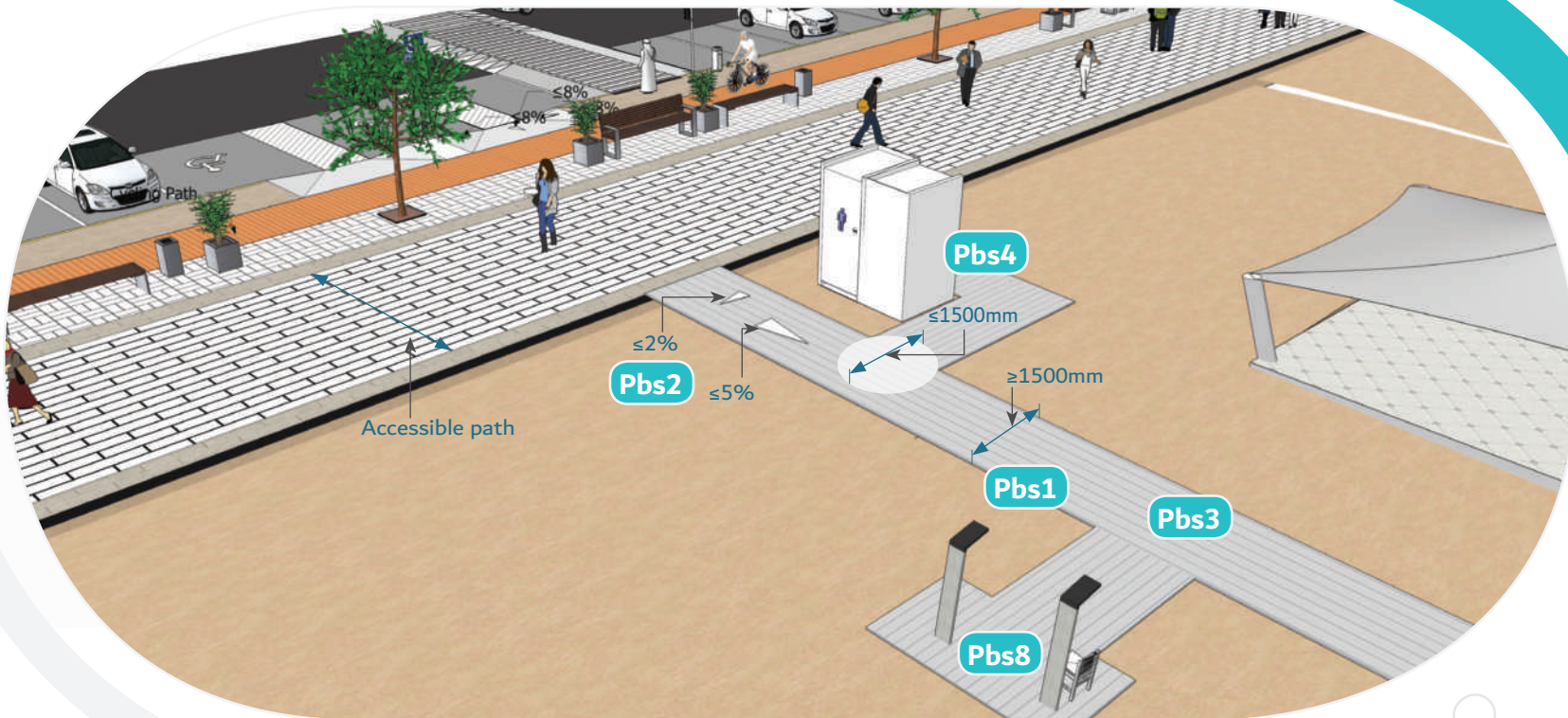


PE15

Sun and rain protection



PE15 Pedestrian bridges with ramps or elevators if provided



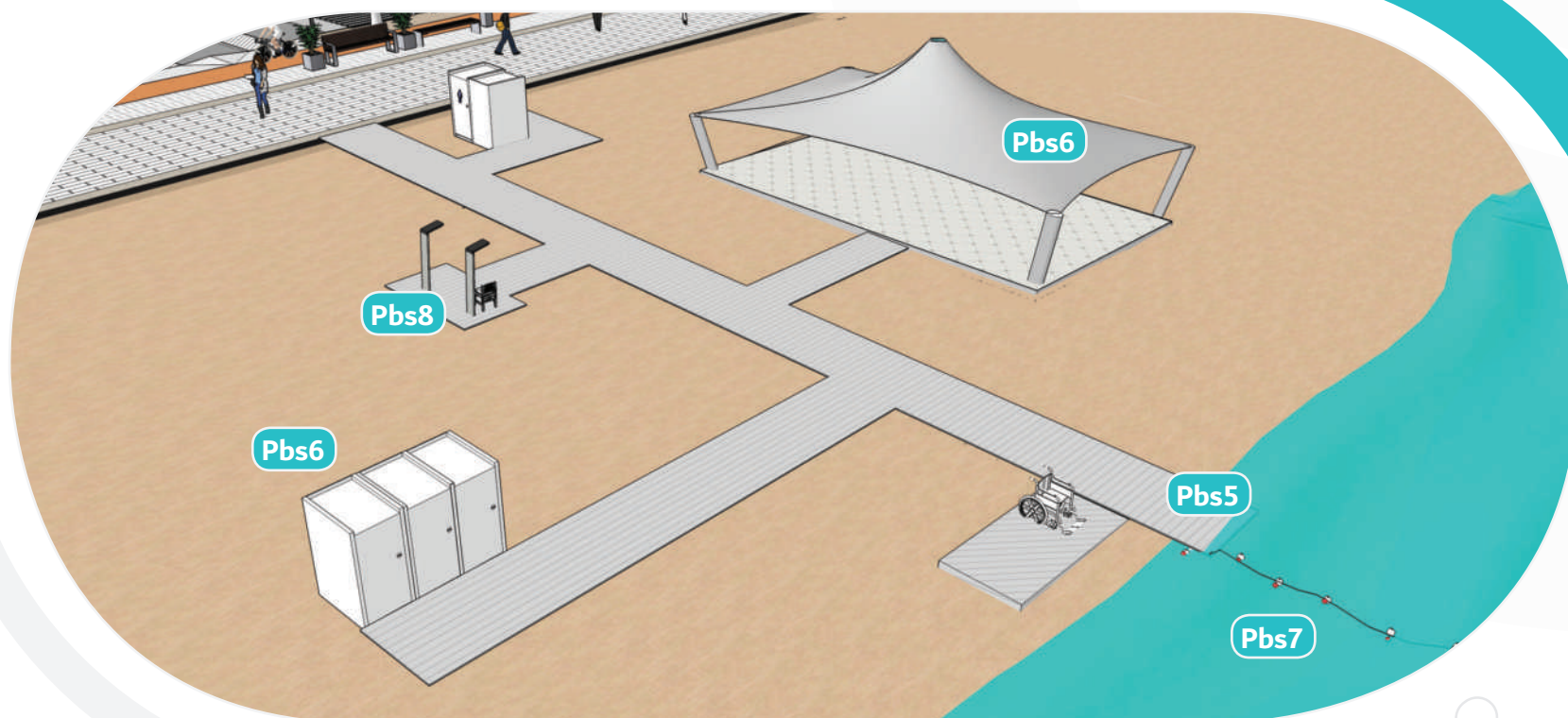
Pbs1 Width $\geq 1500\text{mm}$

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

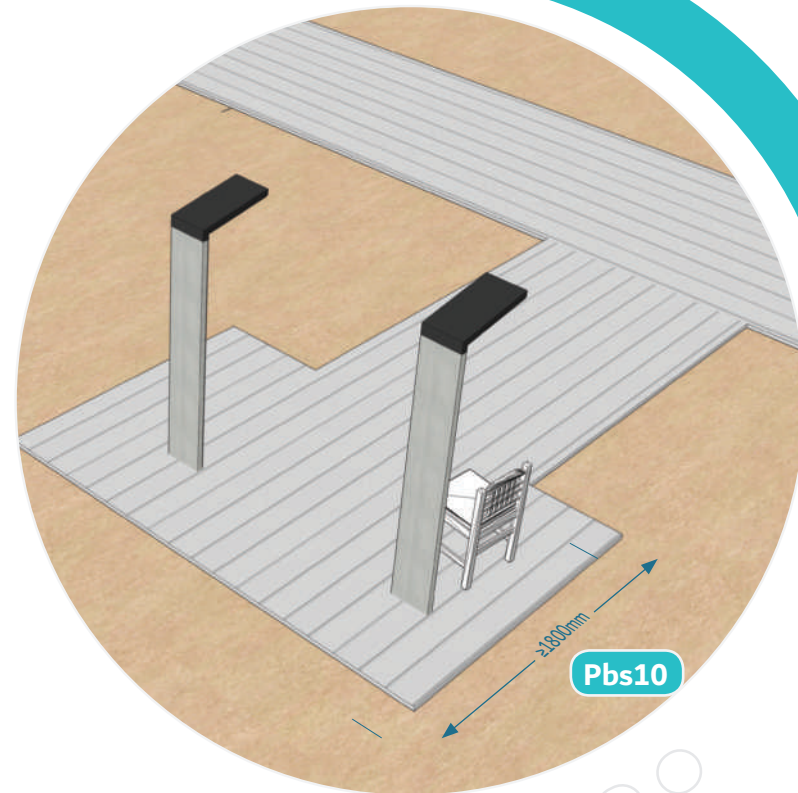
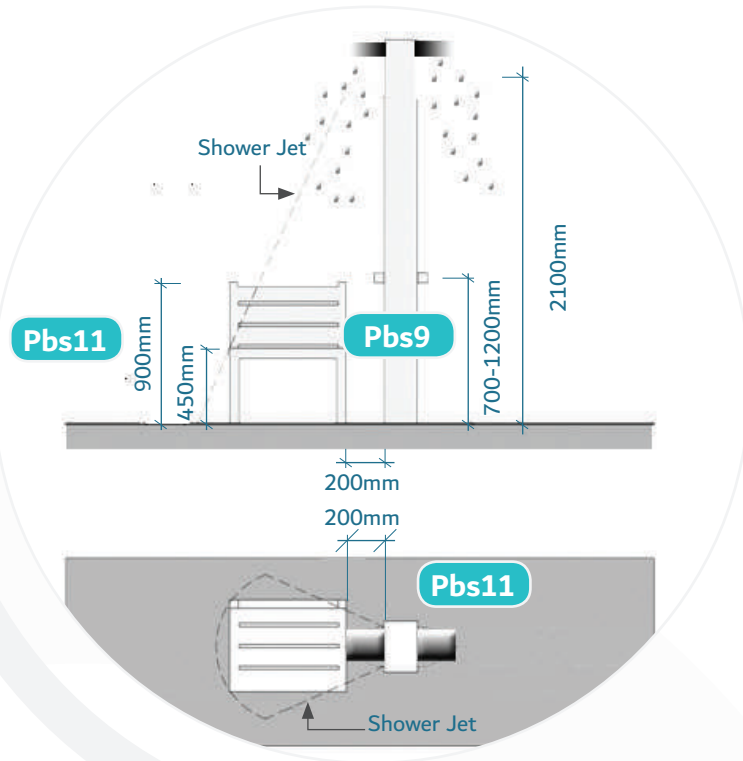


Pbs5 Reaching the water edge

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

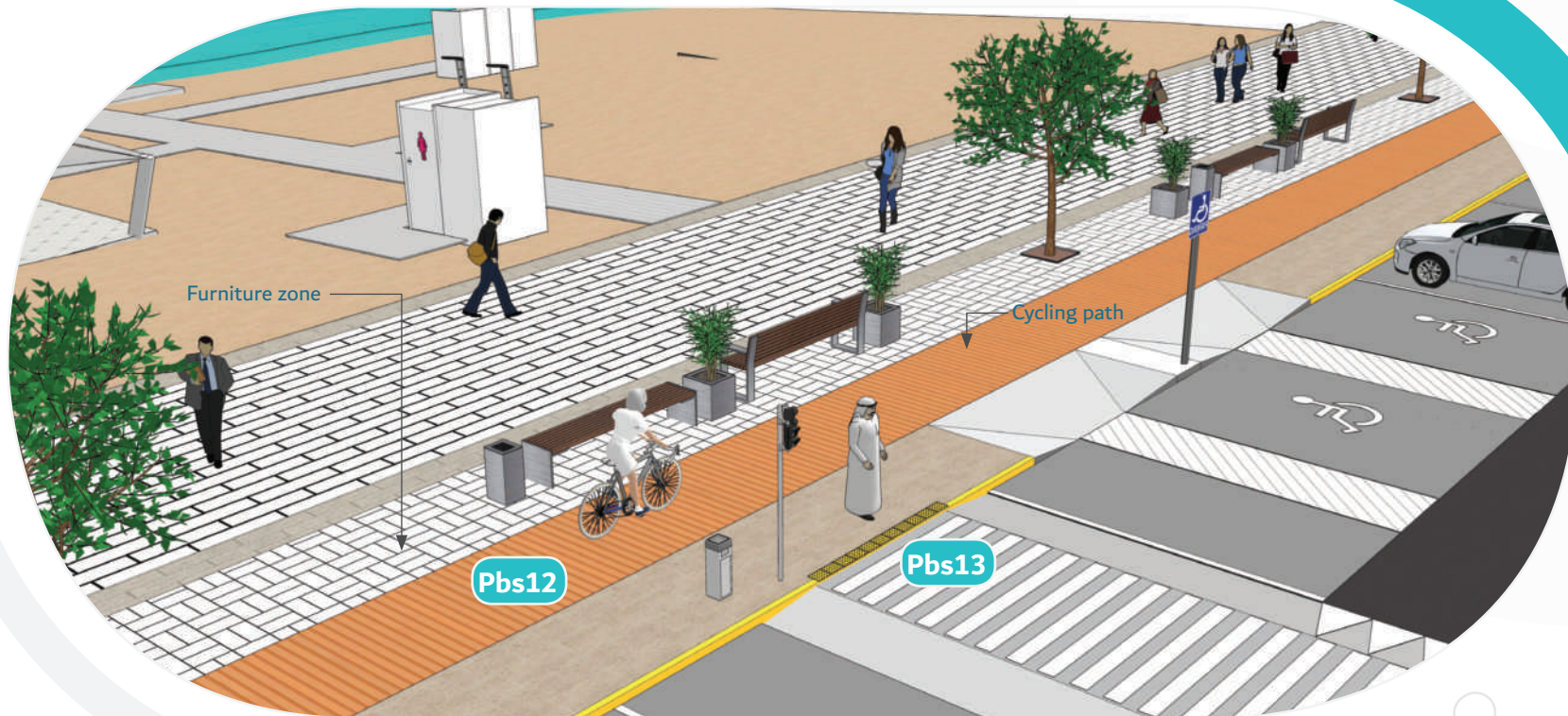
Pbs8 With accessible showers in beaches



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

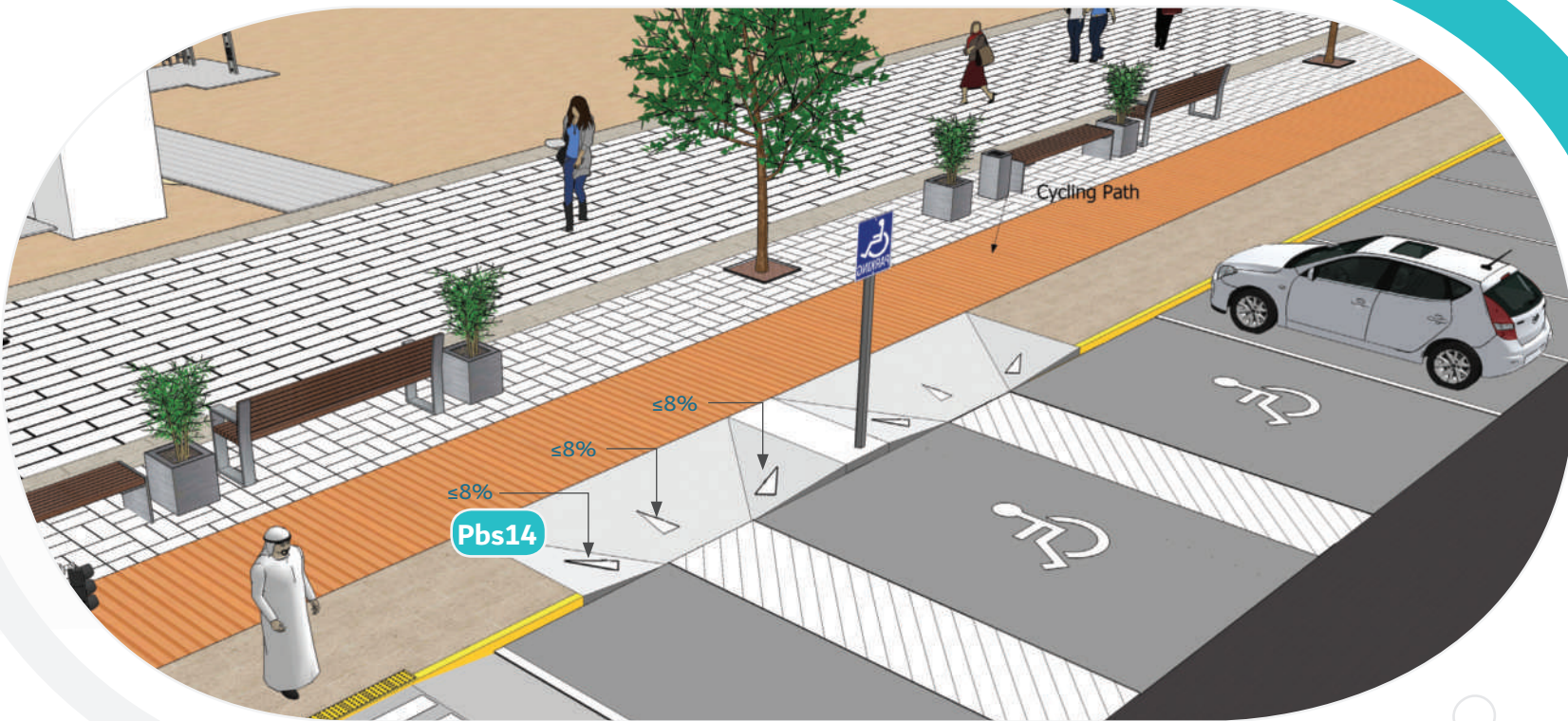
Pbs10 Shower area width $\geq 1800\text{mm}$

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

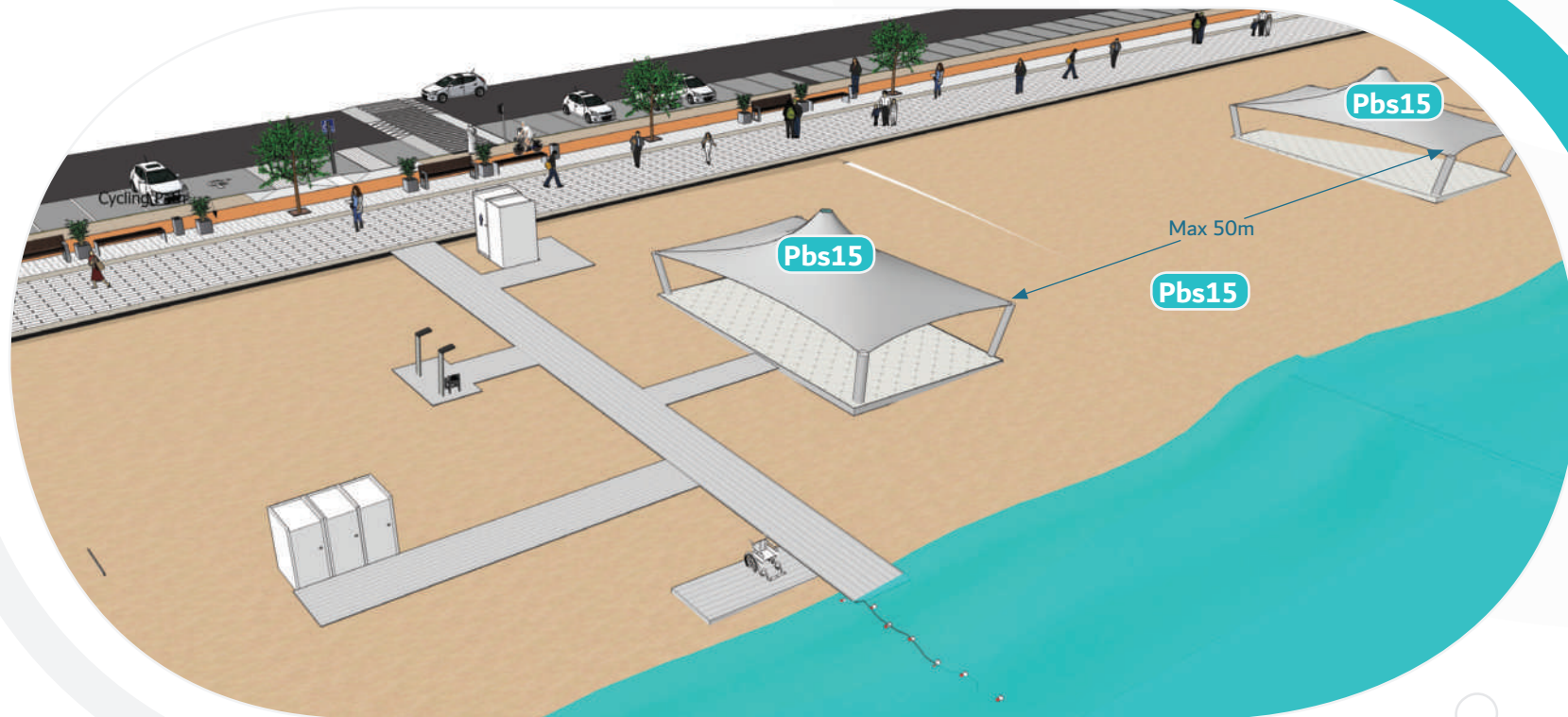


Pbs12 If there is a cycling paths it's between urban furniture and curb

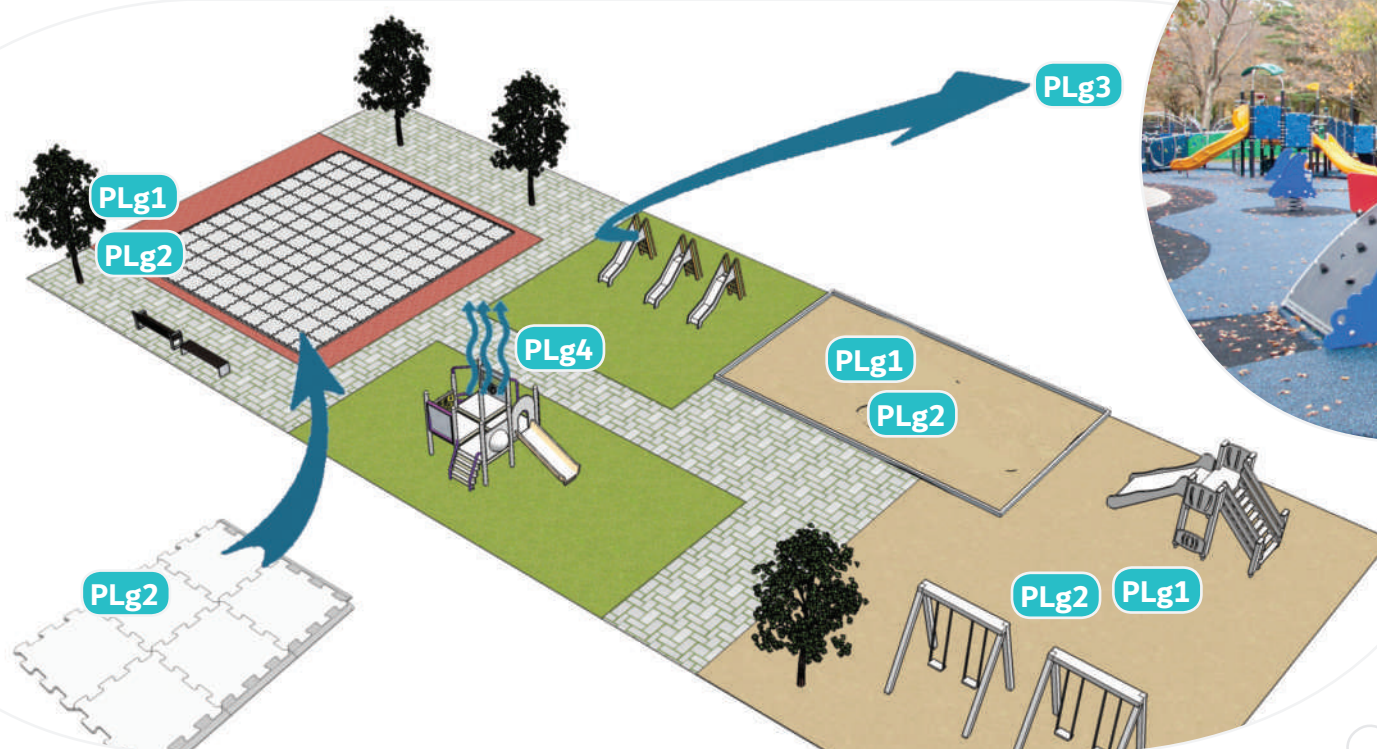
Pbs13 Pedestrian crossings are preceded by tactile warnings



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



Pbs15 At least shaded zones are provided every 50m max



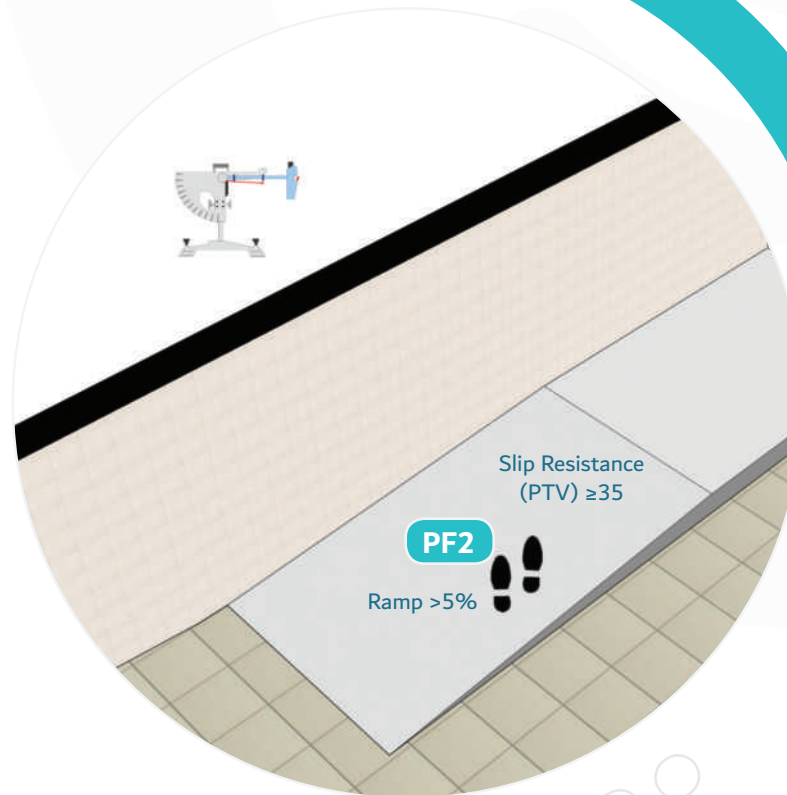
PLg1 Floor surface of rubber or compacted sand

PLg2 Smooth and soft floor surface for children play area

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

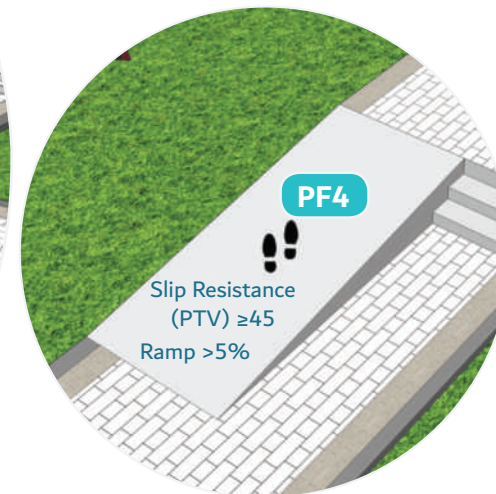
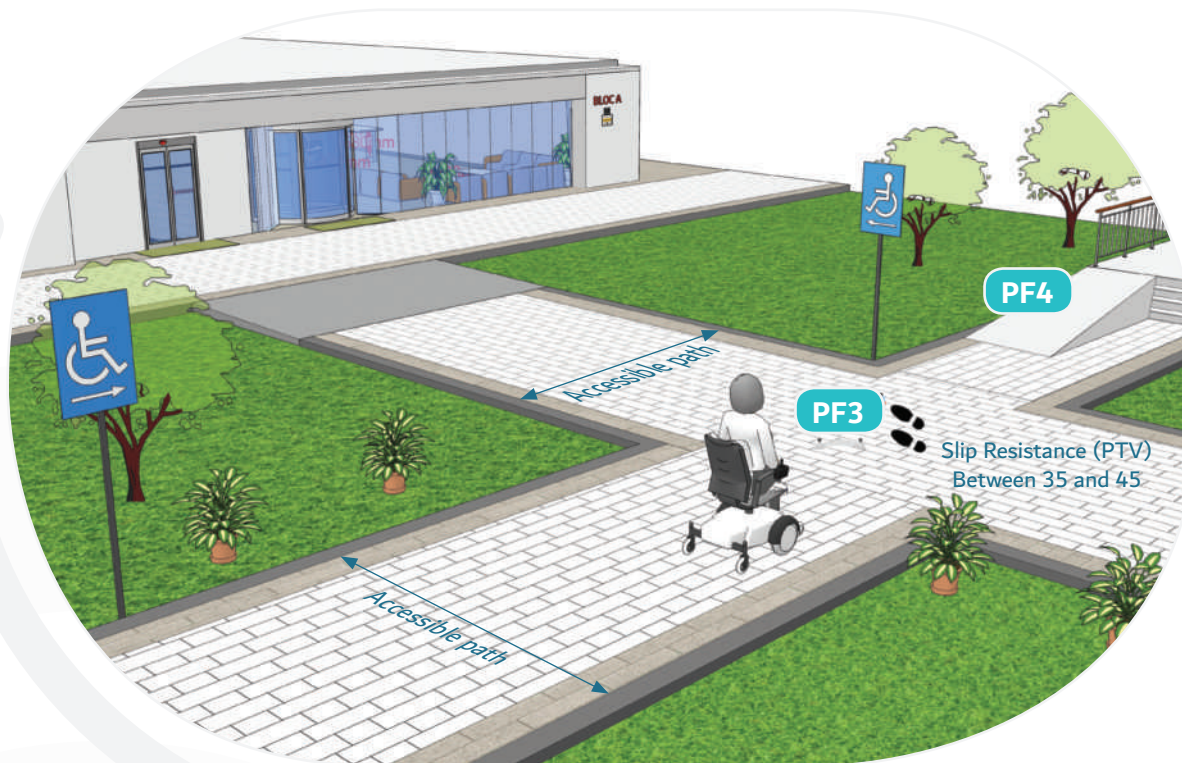
PLg4 Low heat transmission materials of play activities

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) ≥ 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) ≥ 45



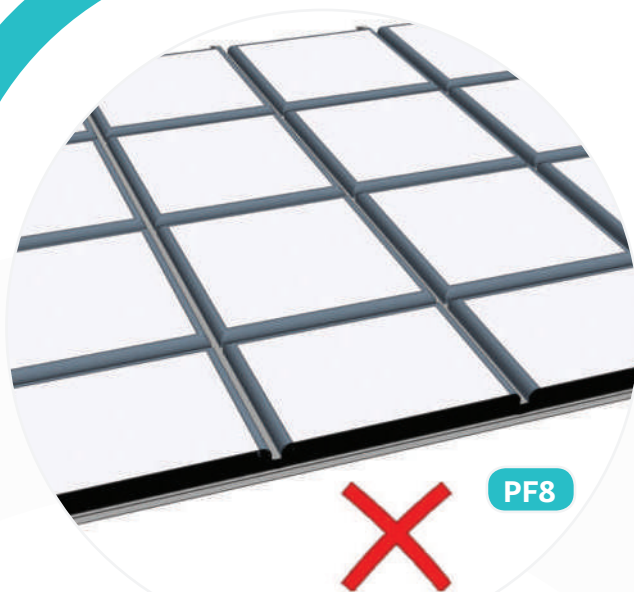
PF5 Street pavement, swimming pools and showers, (PTV) ≥ 45



PF6 Ground pavement without loose elements



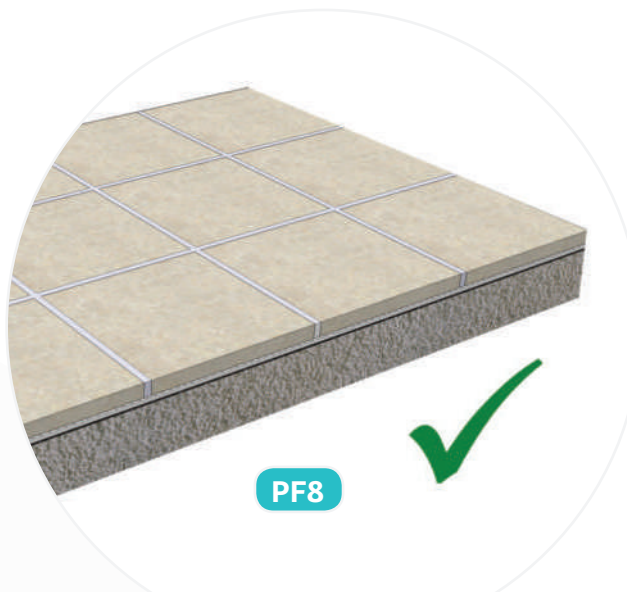
PF7 Rugs and carpets are firmly fixed and do not increase the strength required to roll over a ceramic pavement by $\geq 25\%$



PF8

PF8

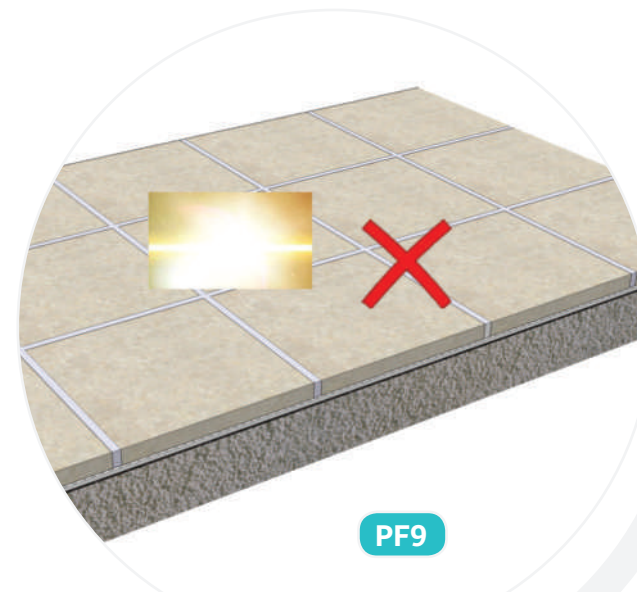
Without rounded edges and excessive joints



PF8

PF9

Not producing glare



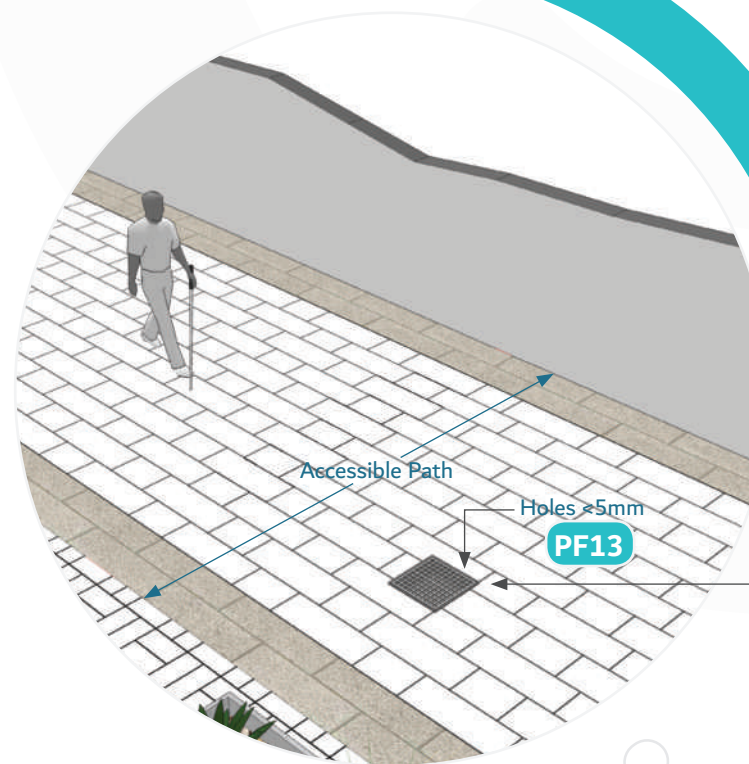
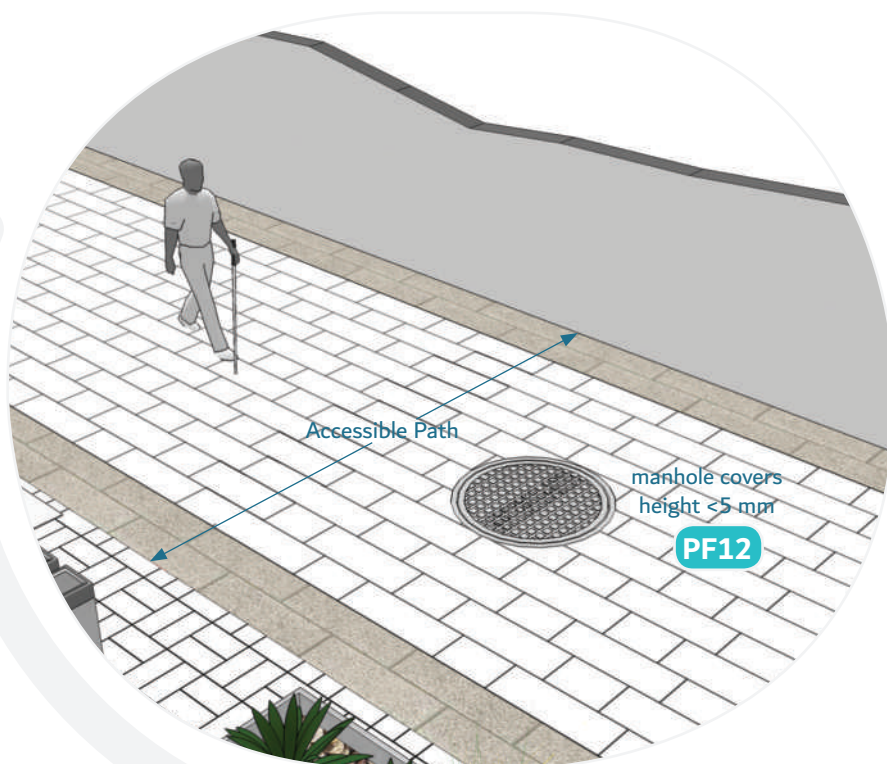
PF9



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

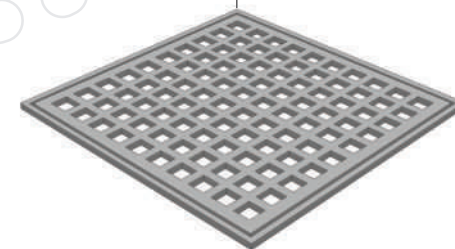


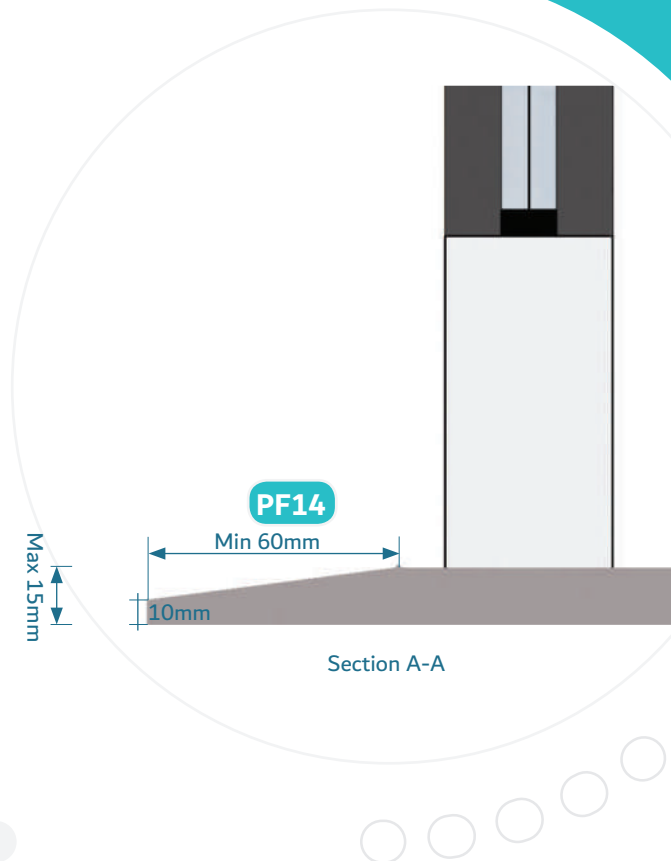
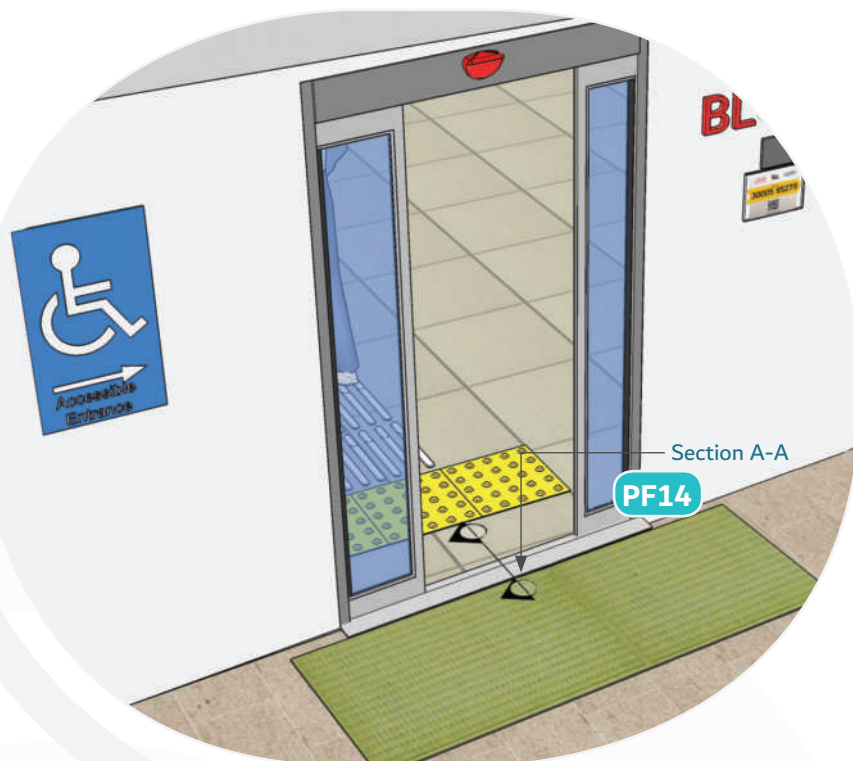
PF11 Lighting in floor (Flooring Light) not produces glare and excessive heat



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

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

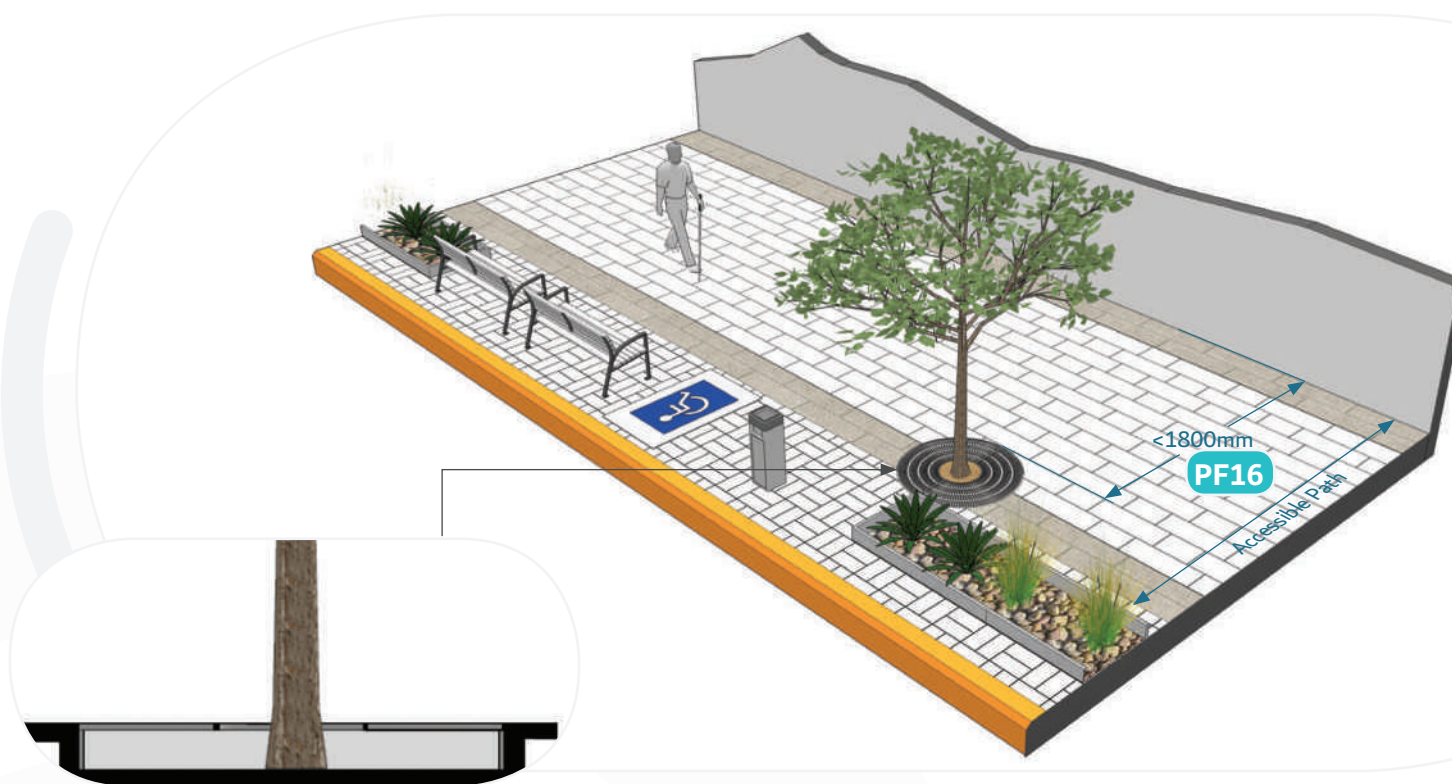




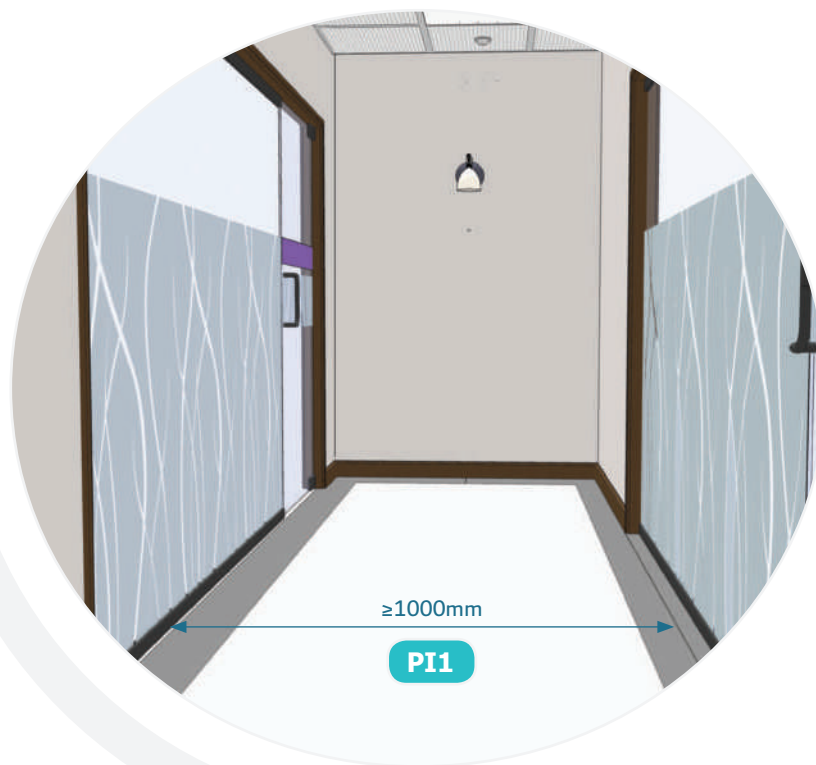
PF14 Change of pavement level $\leq 15\text{mm}$, with $\leq 25\%$ gradient slope (chamfered)



PF15

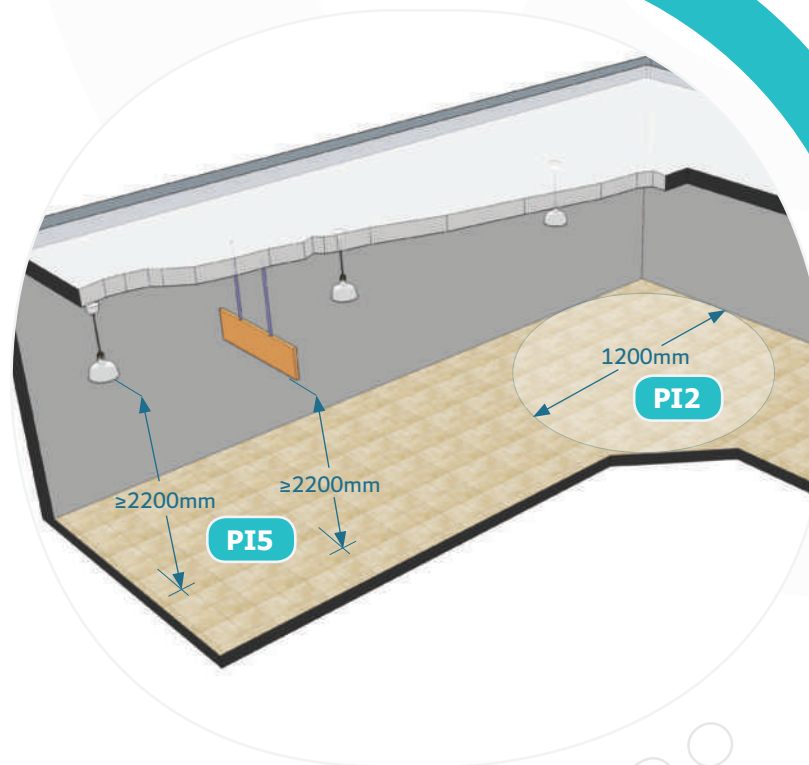
**PF16**

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

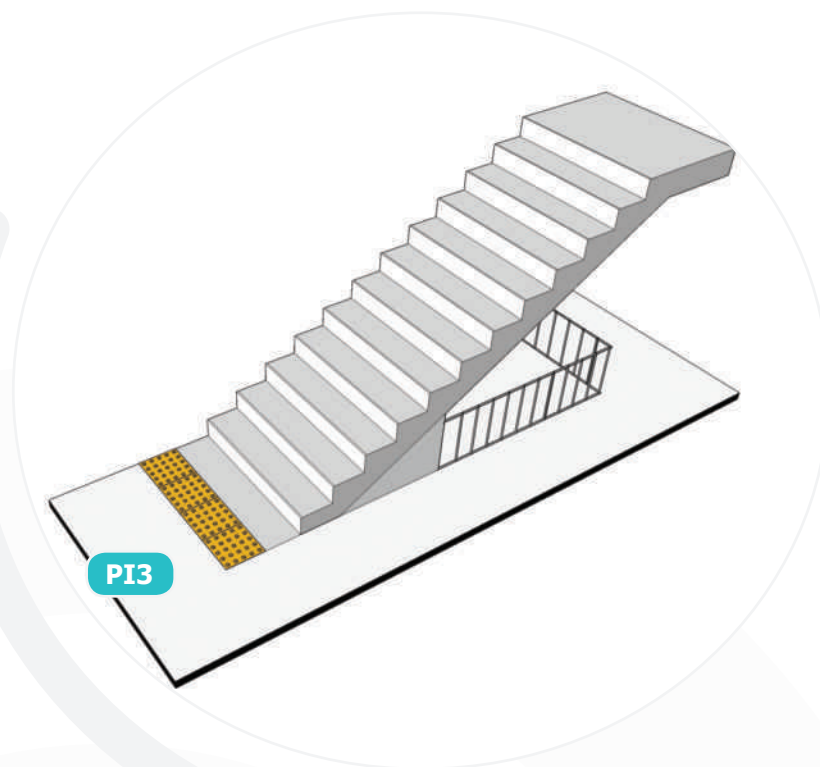
PI**Path - Internal Corridors**

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

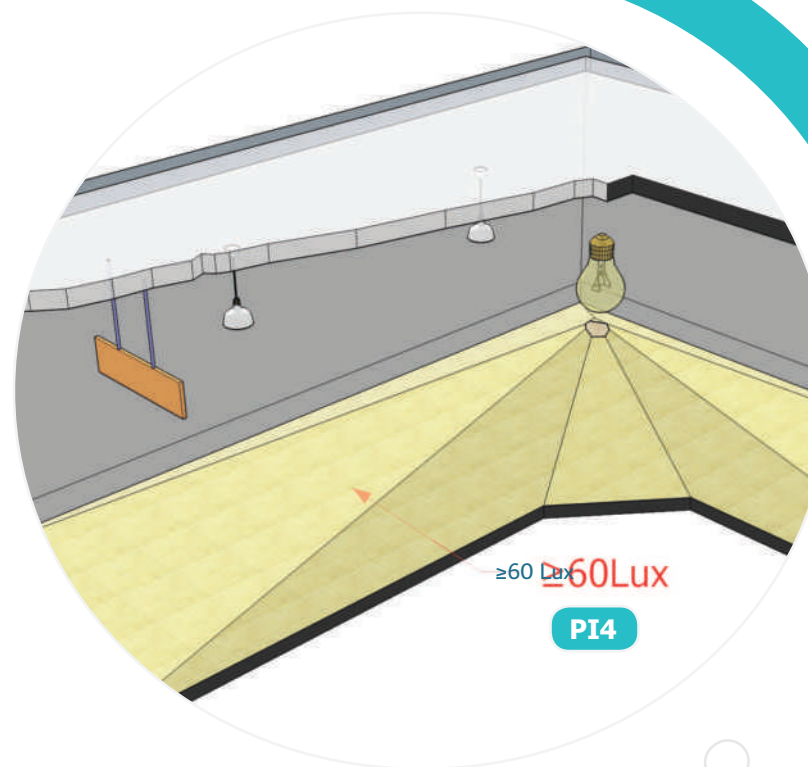
PI5 Clear headroom $\geq 2200\text{mm}$



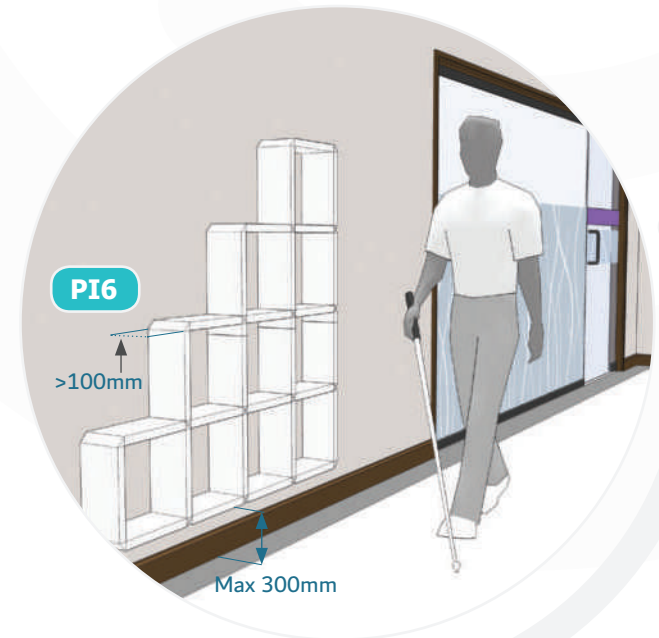
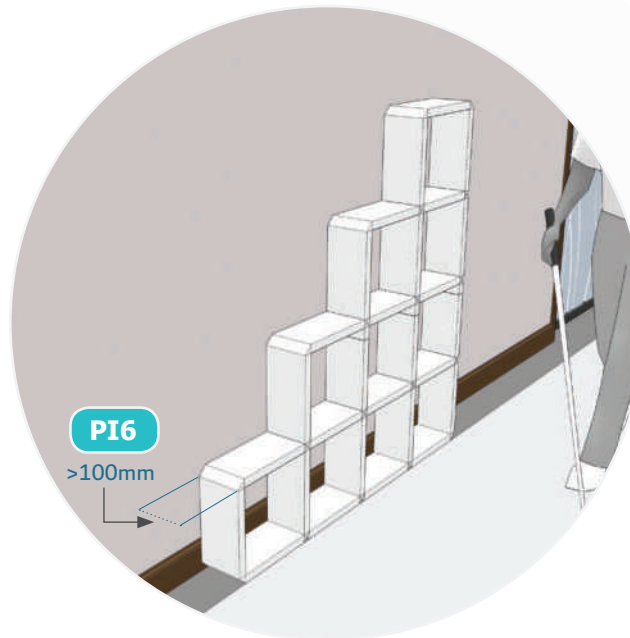
PI2 In direction changes a maneuvering space of 1200mm



PI3 Tactile warning surface in any change of level



PI4 Illumination ≥ 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 $\geq 500\text{mm}$

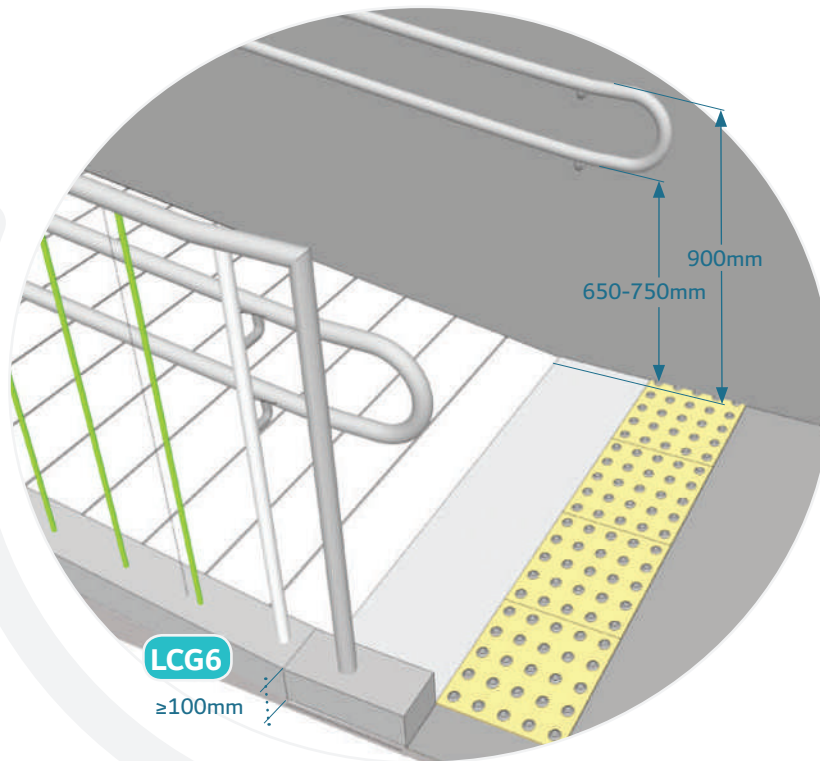
LCG3 With sufficient strength and stiffness to withstand horizontally uniformly distributed force of 3 kN/m

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



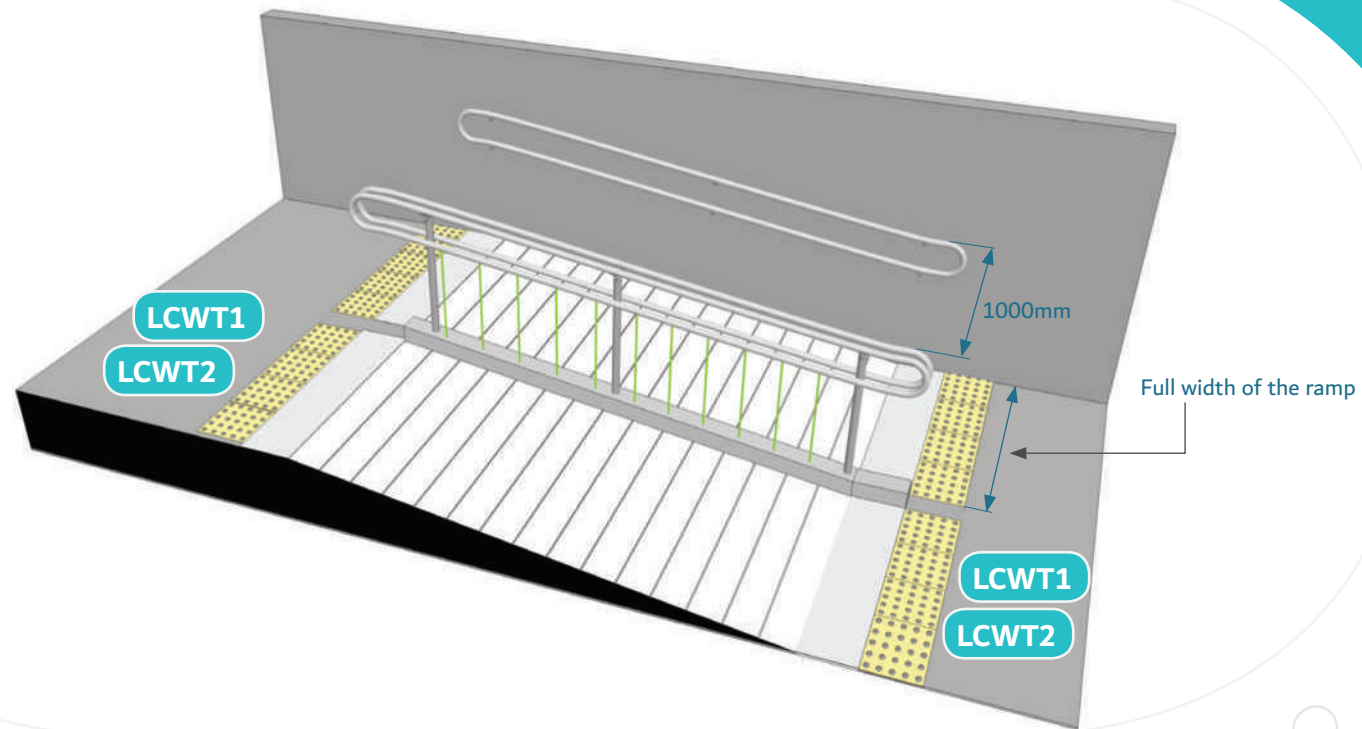
LCG4 Can not be climbable

LCG5 Width of horizontal and vertical openings ≤100mm



LCG6

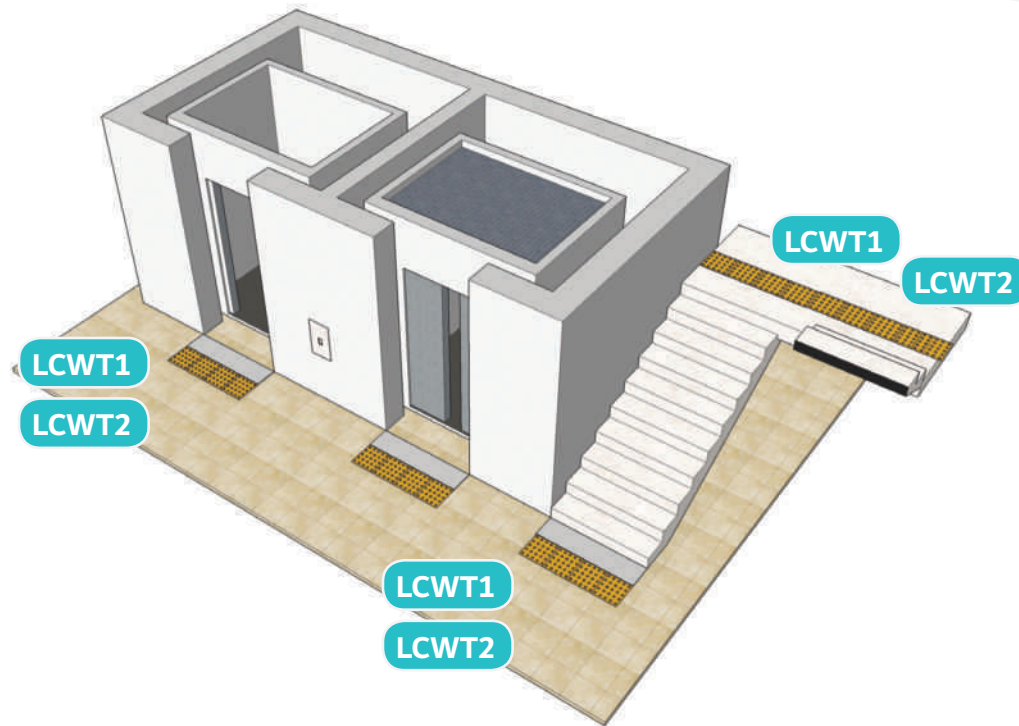
- 1- Availability of continuous base on the entire open side length
- 2- Continuous base $\geq 100\text{mm}$ high from the floor surface for ramps & stairs

**LCWT1**

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

LCWT2

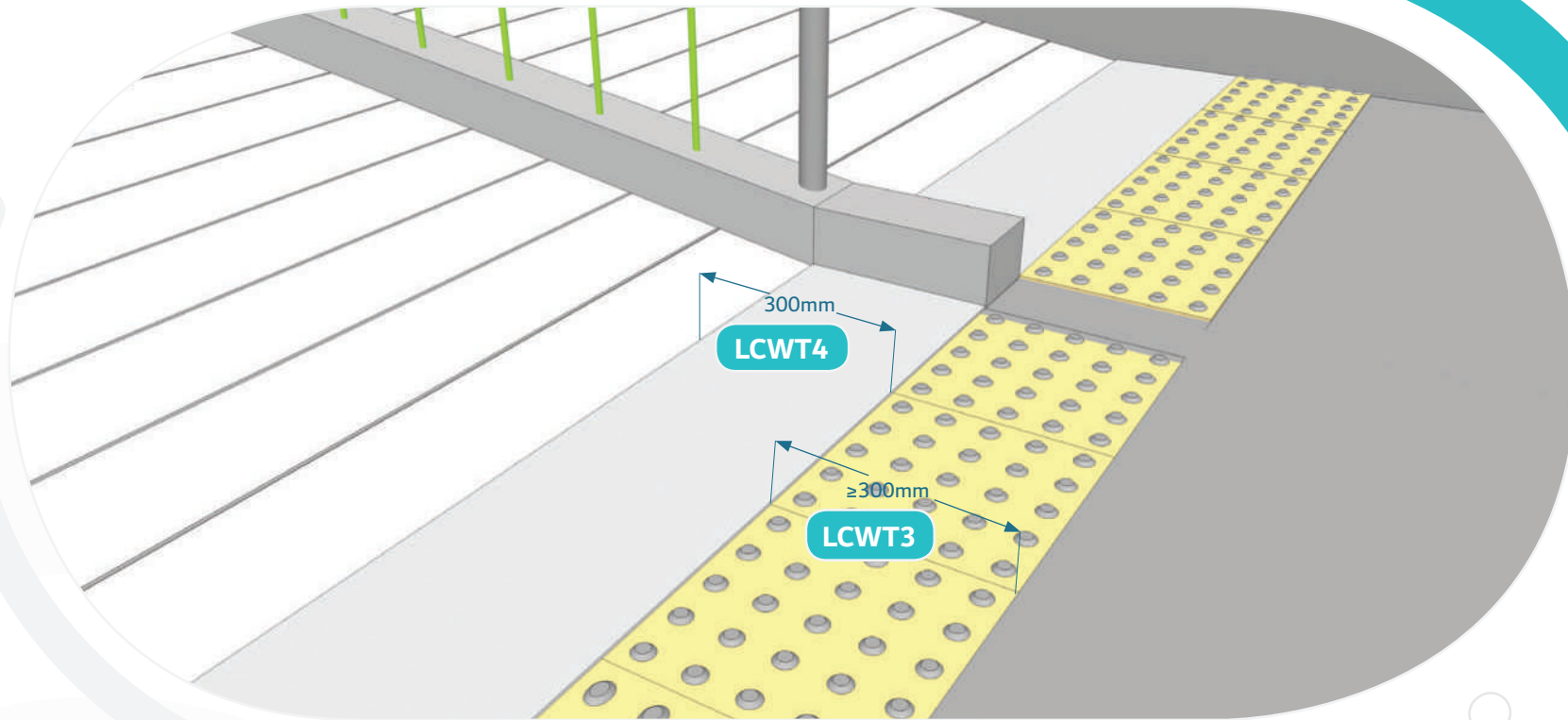
Installed along the entire width of the element

**LCWT1**

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

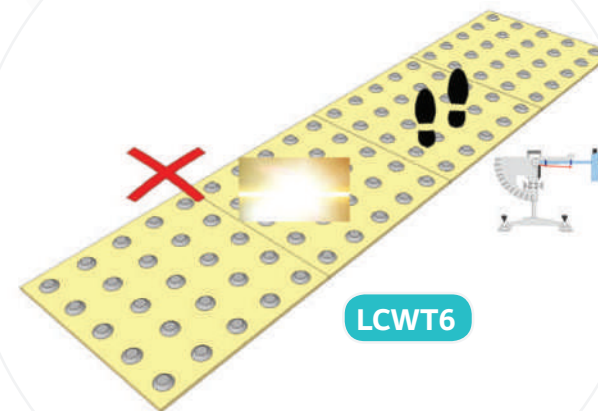
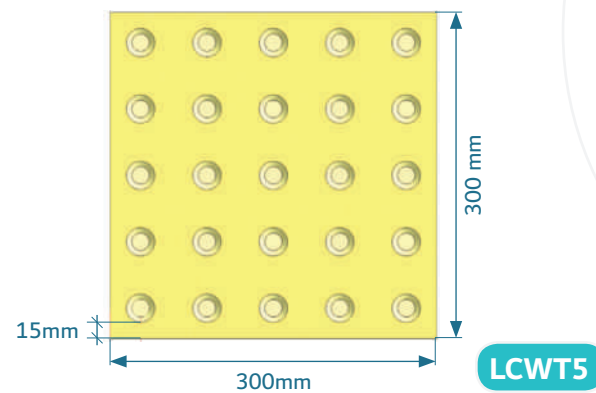
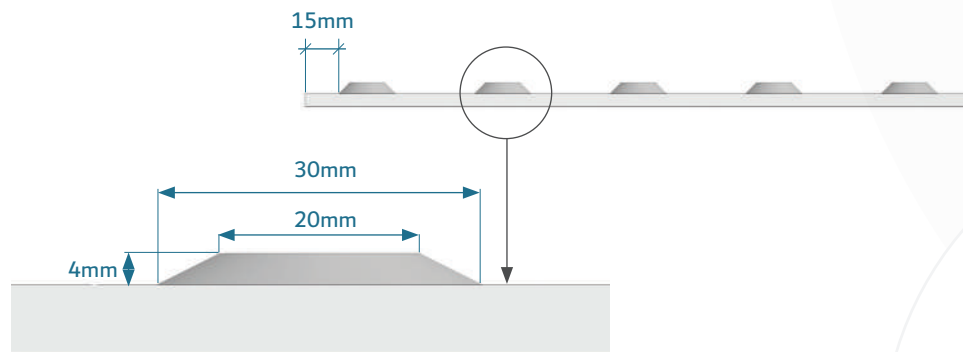
LCWT2

Installed along the entire width of the element



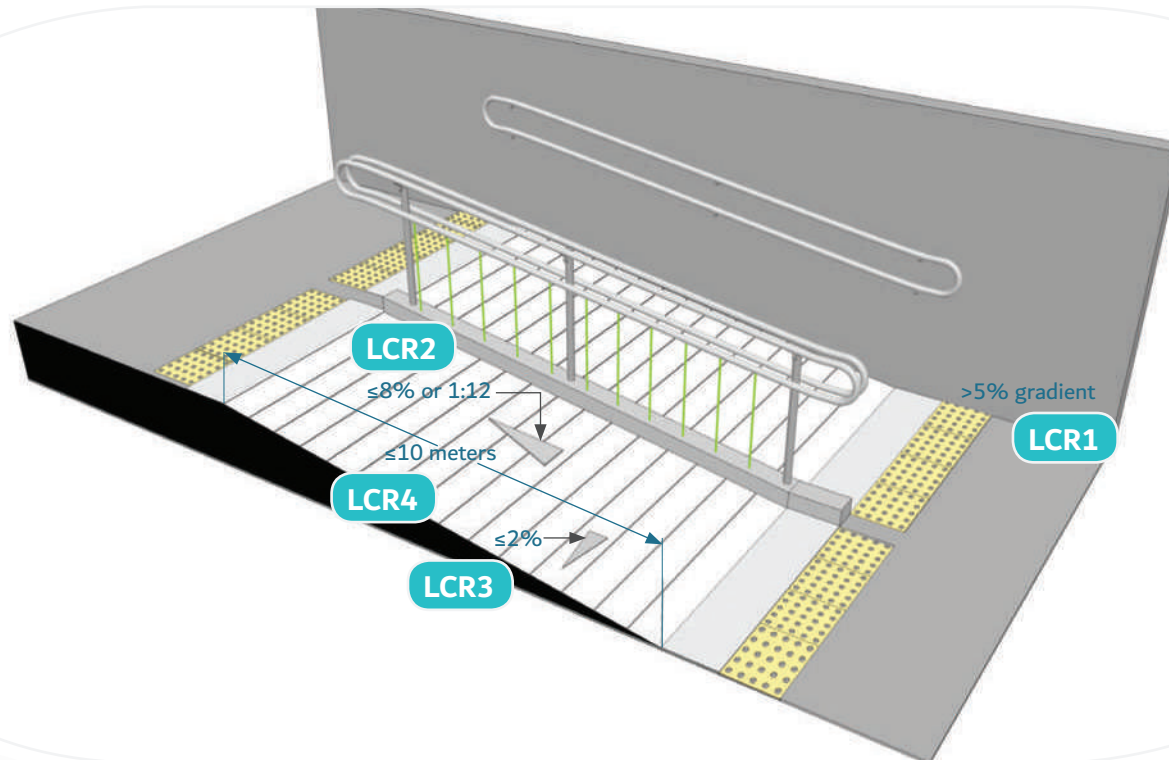
LCWT3 The width $\geq 300\text{mm}$

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

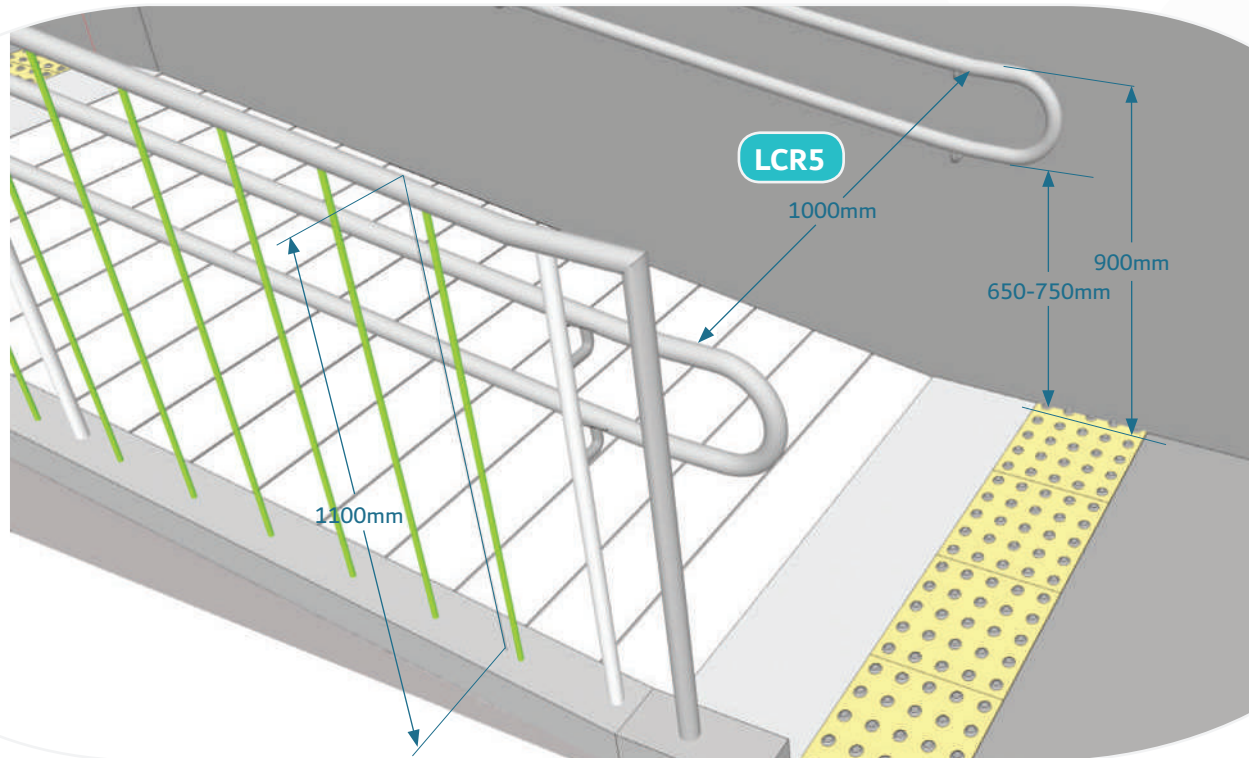


LCR1 Ramps used only when gradient of level $> 5\%$

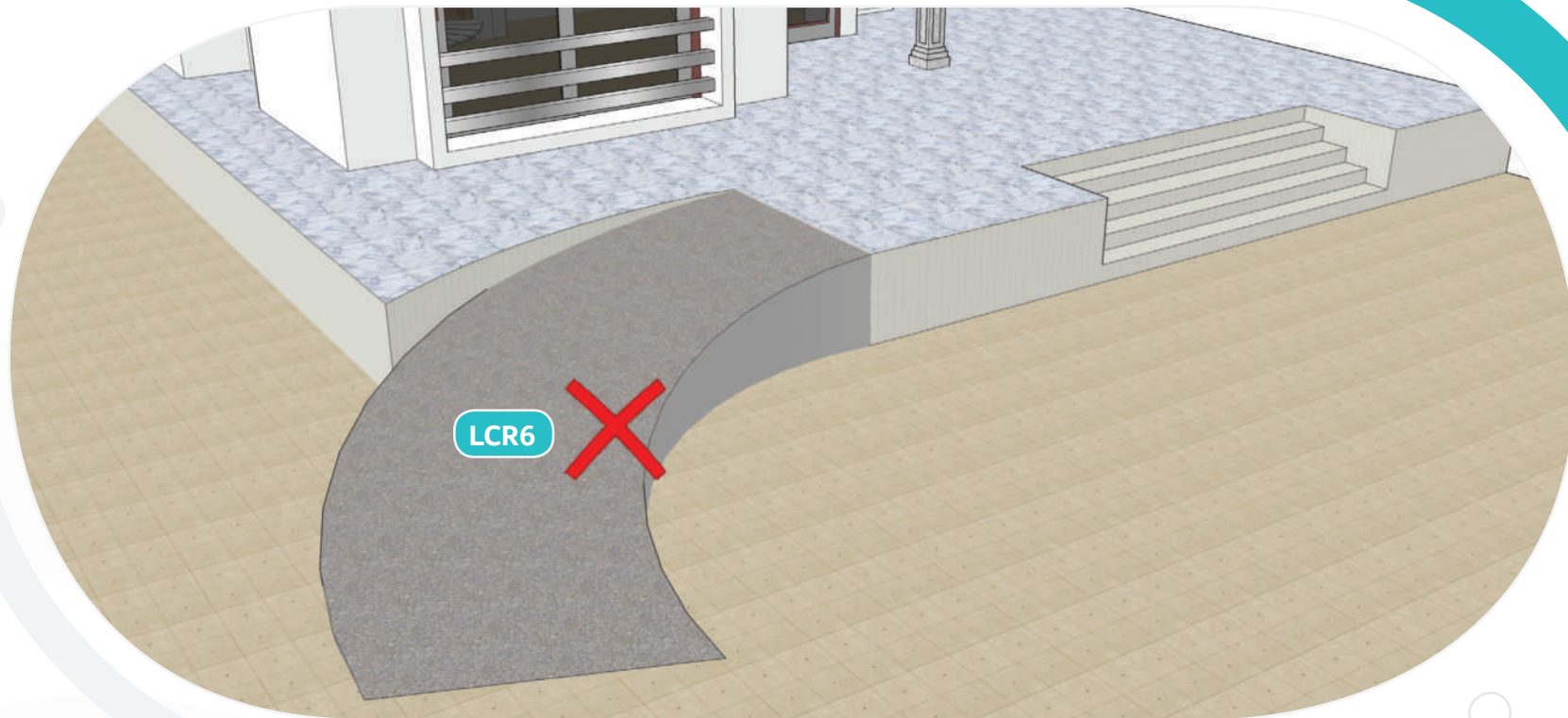
LCR2 Slope is $\leq 8\%$ or 1:12

LCR3 Cross fall gradient $\leq 2\%$

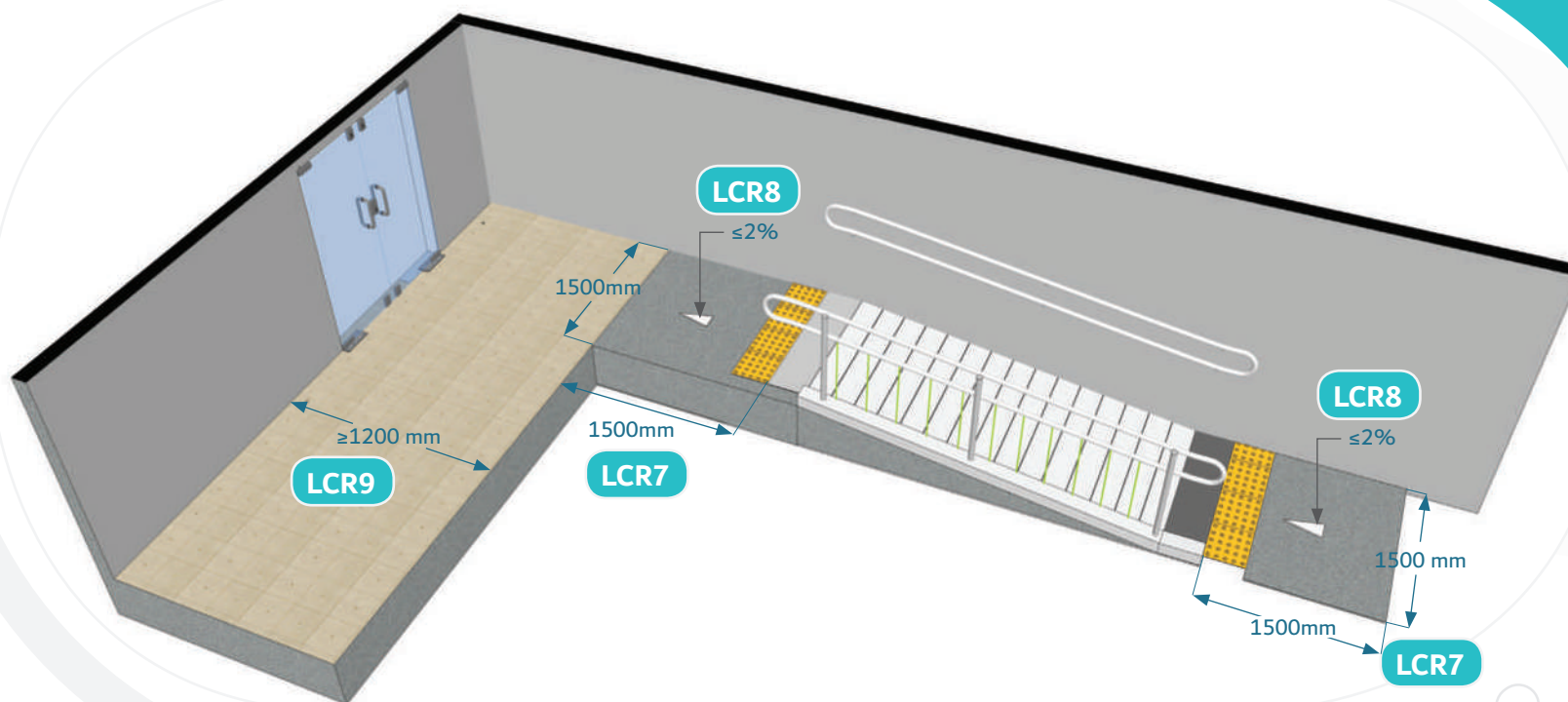
LCR4 Run length ≤ 10 meters



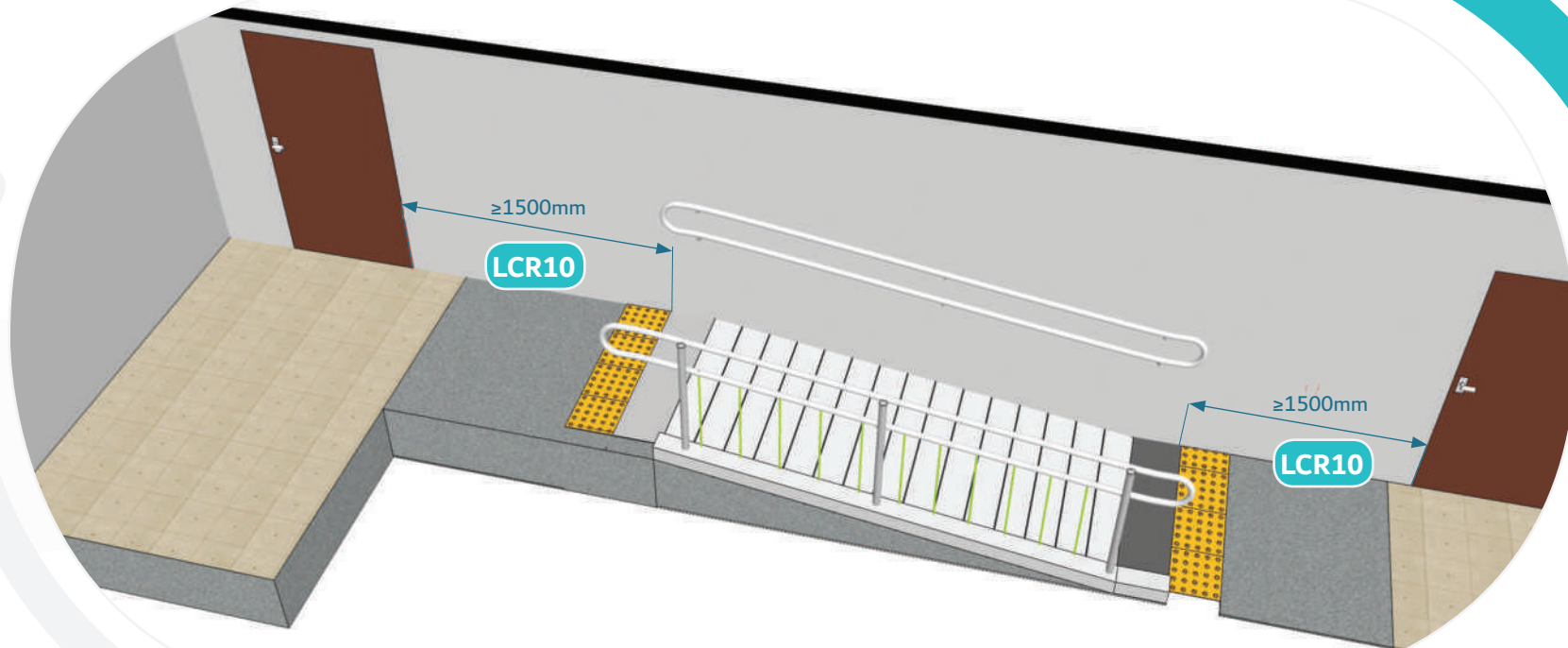
LCR5 Run width = 1000 mm between handrails



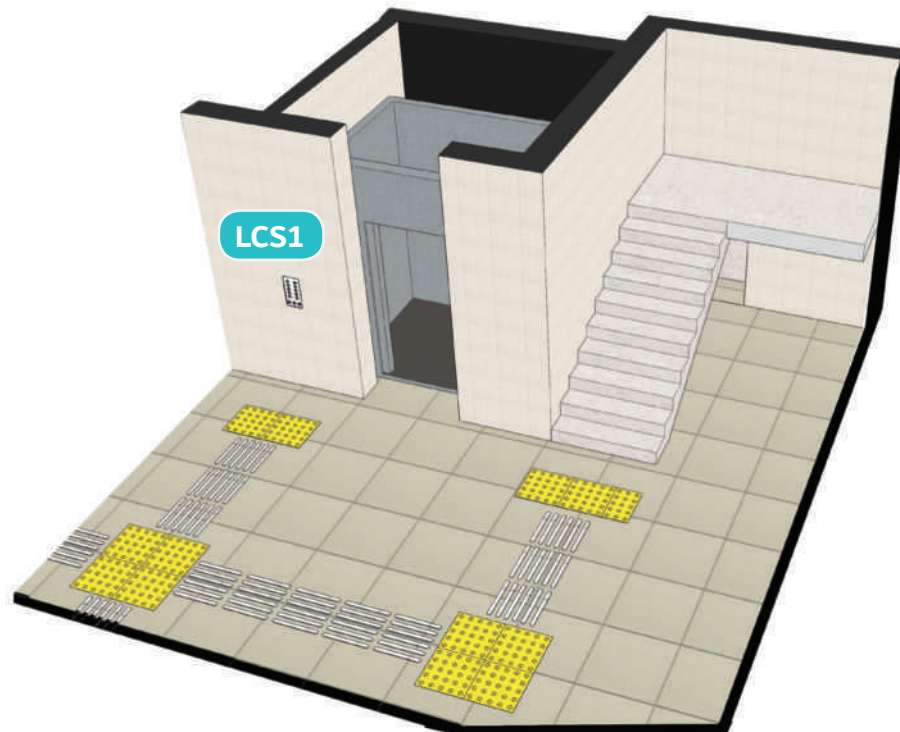
LCR6 No curved ramps



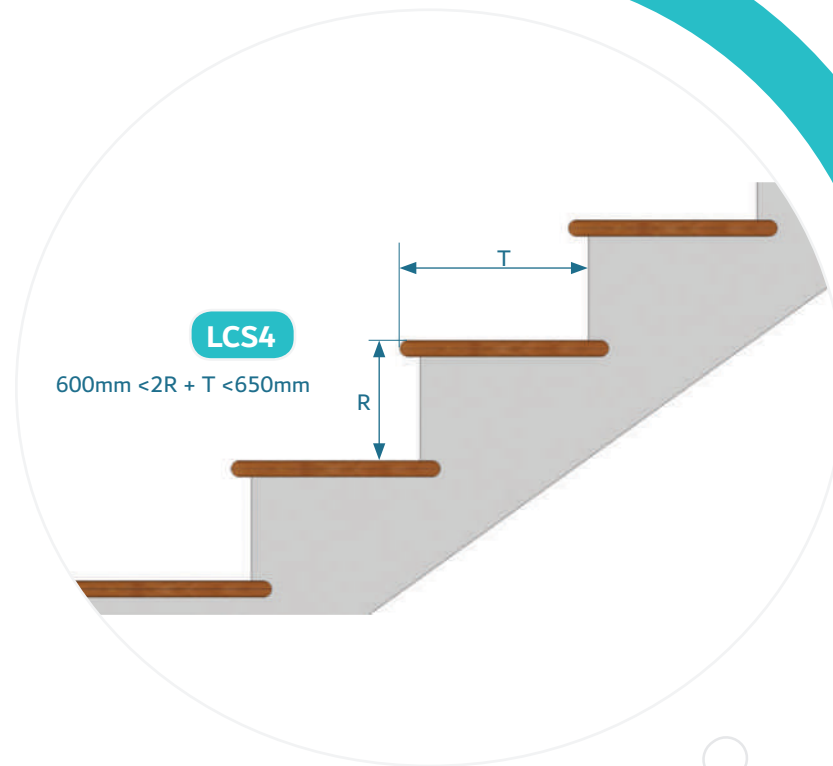
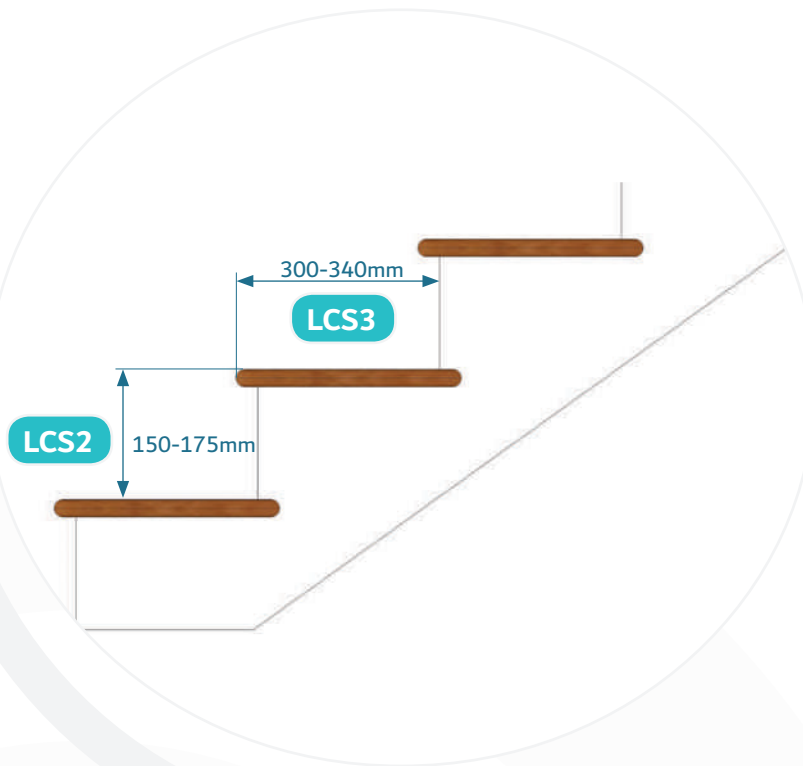
- LCR7** Landings at the beginning and end of every run -surface 1500mm x 1500mm
- LCR8** Level landings or $\leq 2\%$
- LCR9** Corridors in landings width ≥ 1200 mm width



LCR10 No door located at $\leq 1500\text{mm}$ from start and or end of each ramps



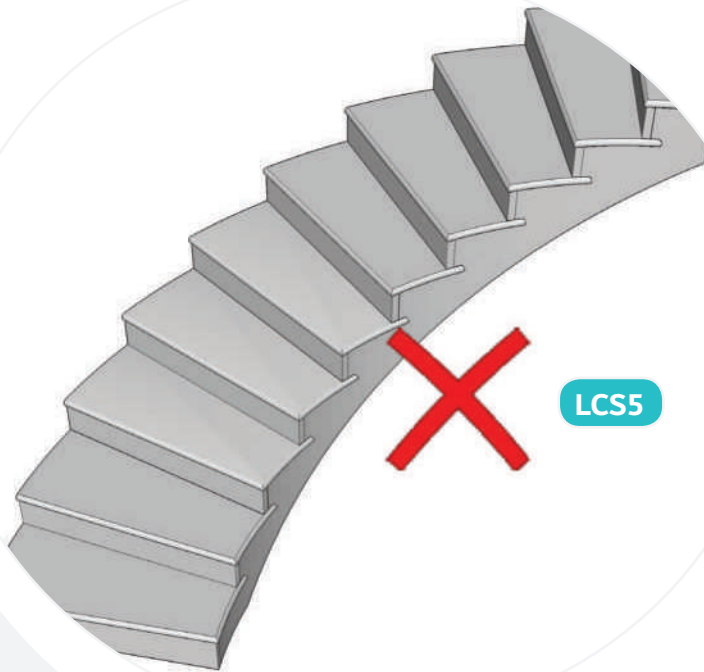
LCS1 Availability of alternative elevator accompanied with internal staircase in more than one story building



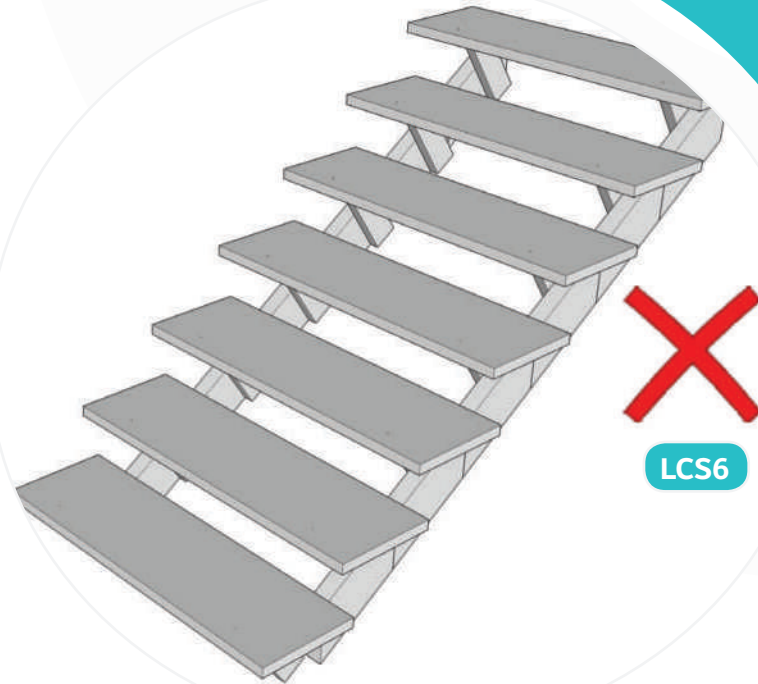
LCS2 Steps rises between 150 - 175mm

LCS3 Steps stair treads between 300 - 340mm

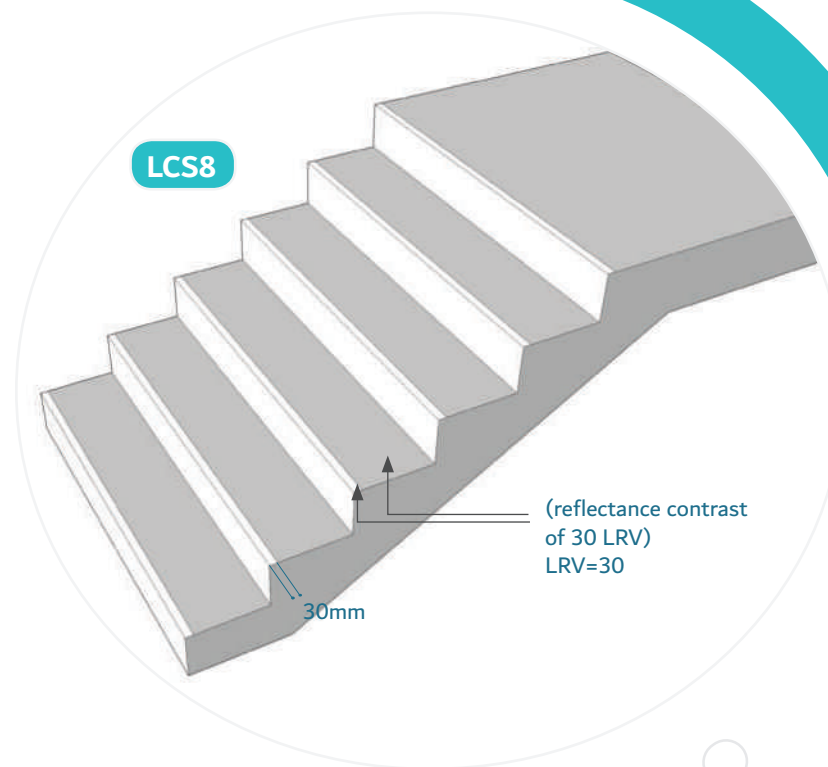
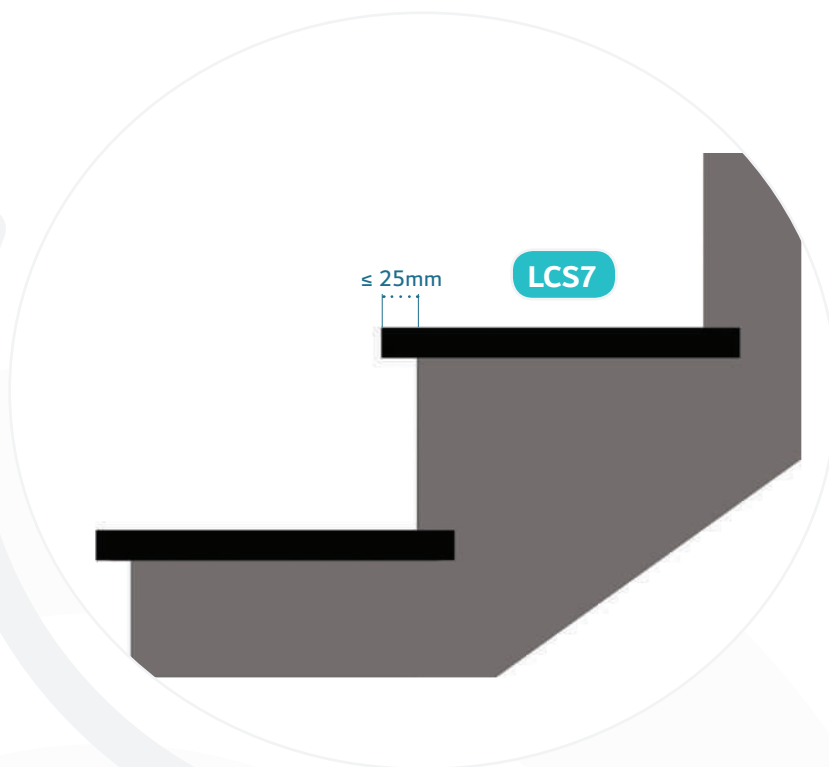
LCS4 Steps rise (R) and Tread (T) fulfil: $600\text{ mm} < 2R + T < 650\text{mm}$



LCS5 No curved stairs



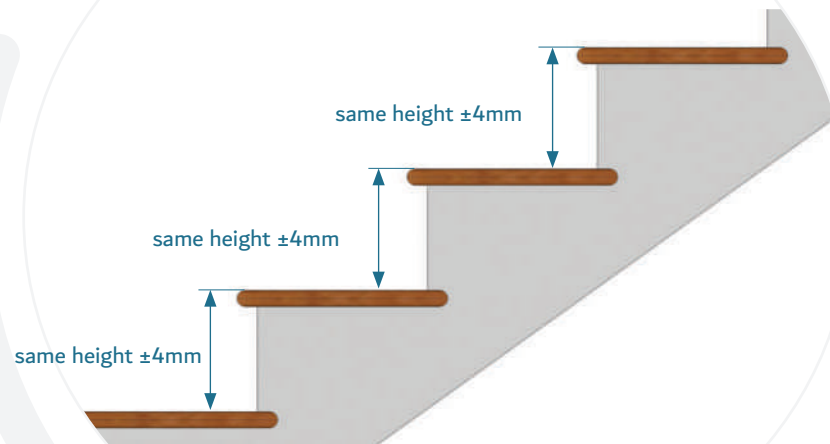
LCS6 No open risers or discontinued treads



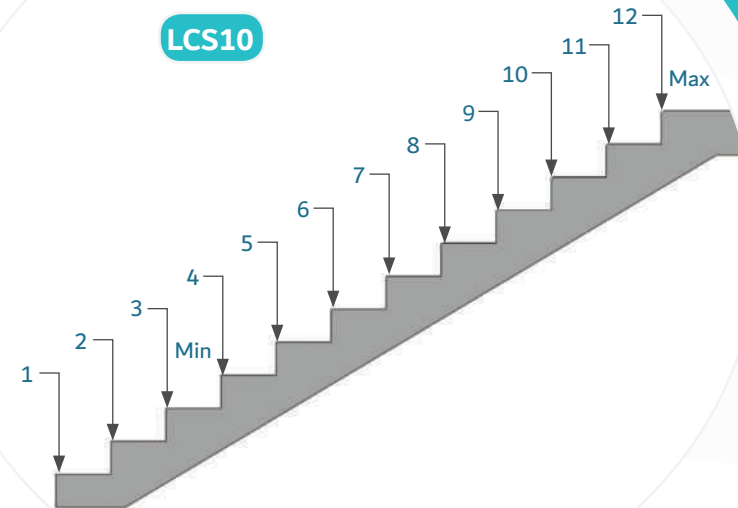
LCS7 Steps with nosing ≤ 25 mm

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

LCS9

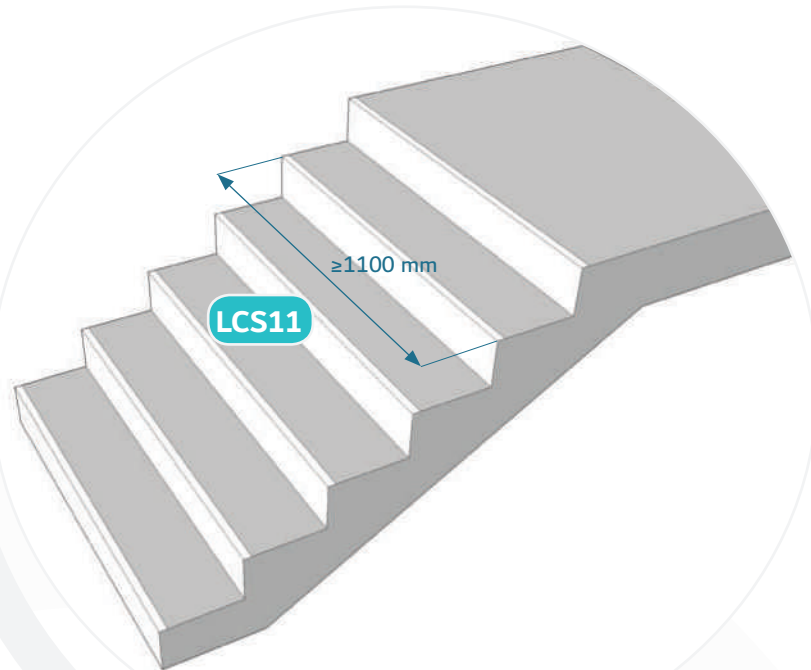


LCS10

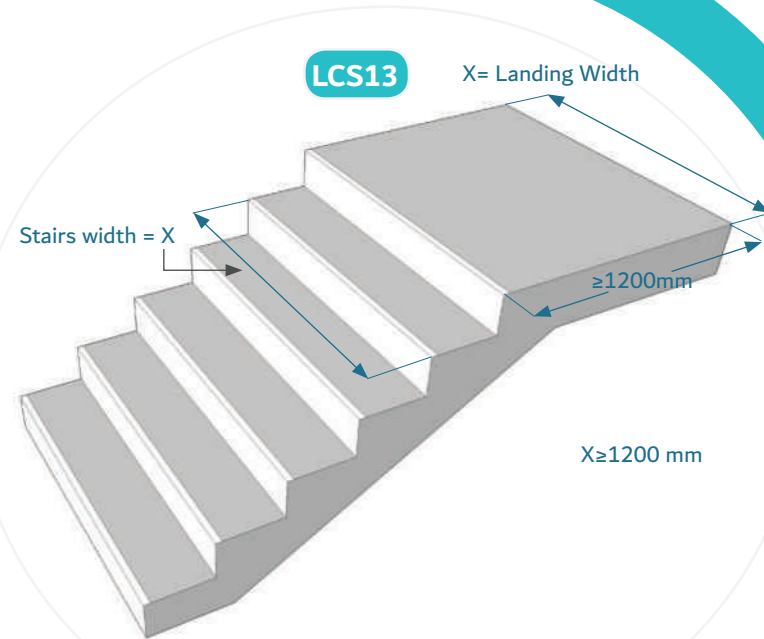


LCS9 Steps with same height with a $\pm 4\text{mm}$ tolerance

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 $\geq 1200 \text{ mm}$



Diagram illustrating the illumination of a staircase. A light source is positioned at the top of the flight, casting a beam of light (indicated by a yellow cone) down the stairs. The label $\geq 200\text{lux}$ points to the light source.

$\geq 200\text{lux}$

LCS12



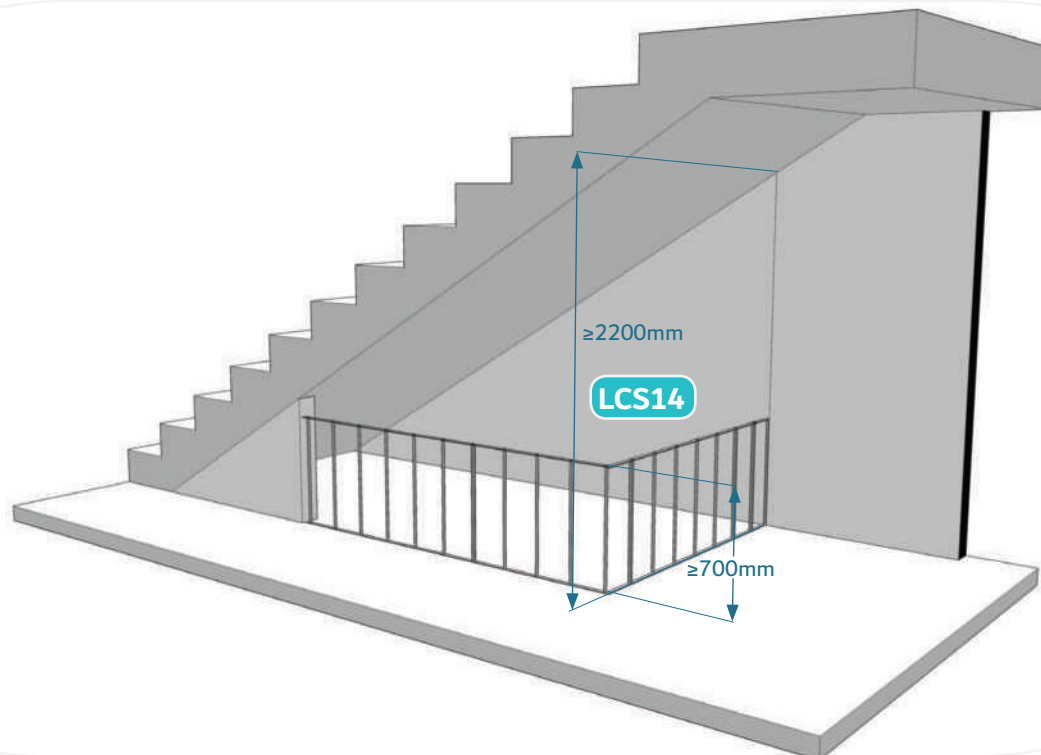
Diagram illustrating the illumination of a staircase. Two light sources are positioned at the top and bottom of the flight, casting beams of light (indicated by yellow cones) down the stairs. The label $\geq 200\text{lux}$ points to the light source at the top.

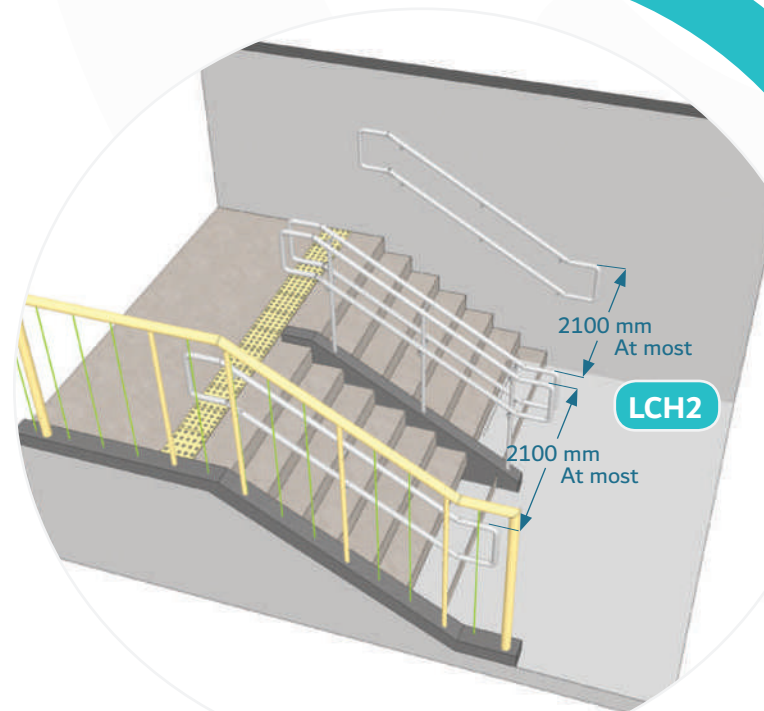
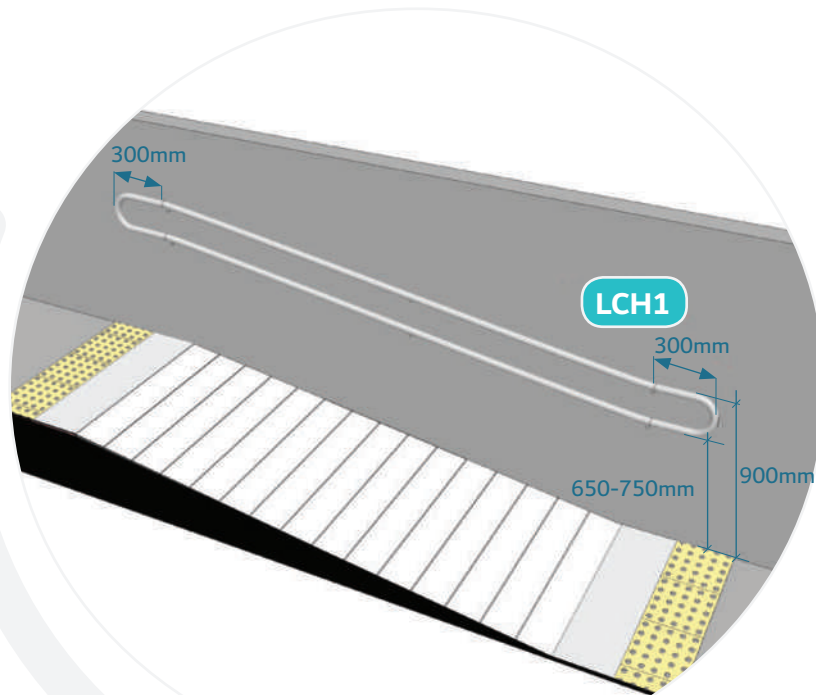
$\geq 200\text{lux}$

 $\geq 200\text{lux}$

LCS12

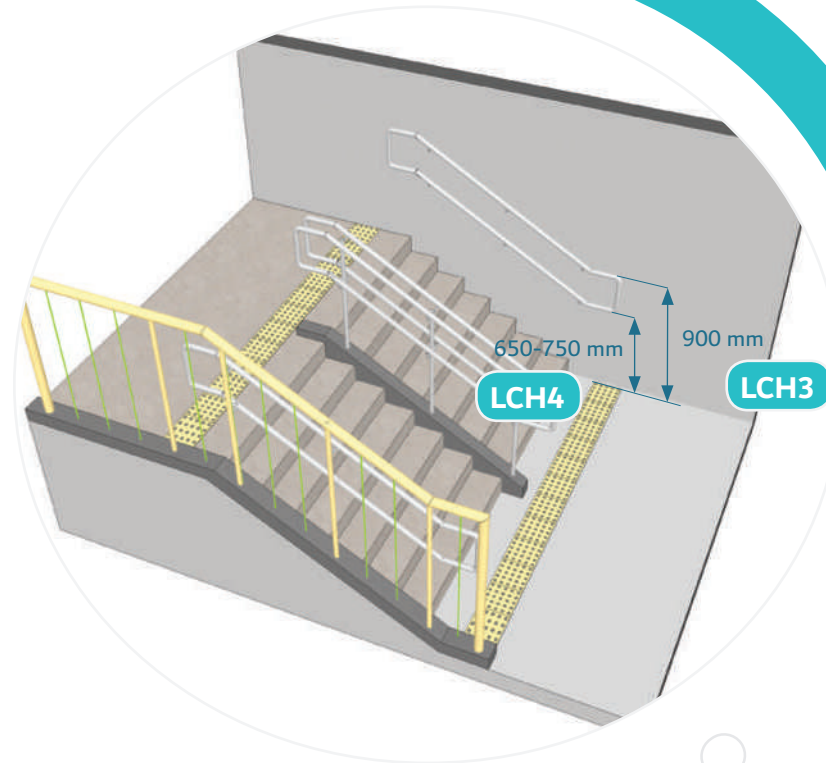
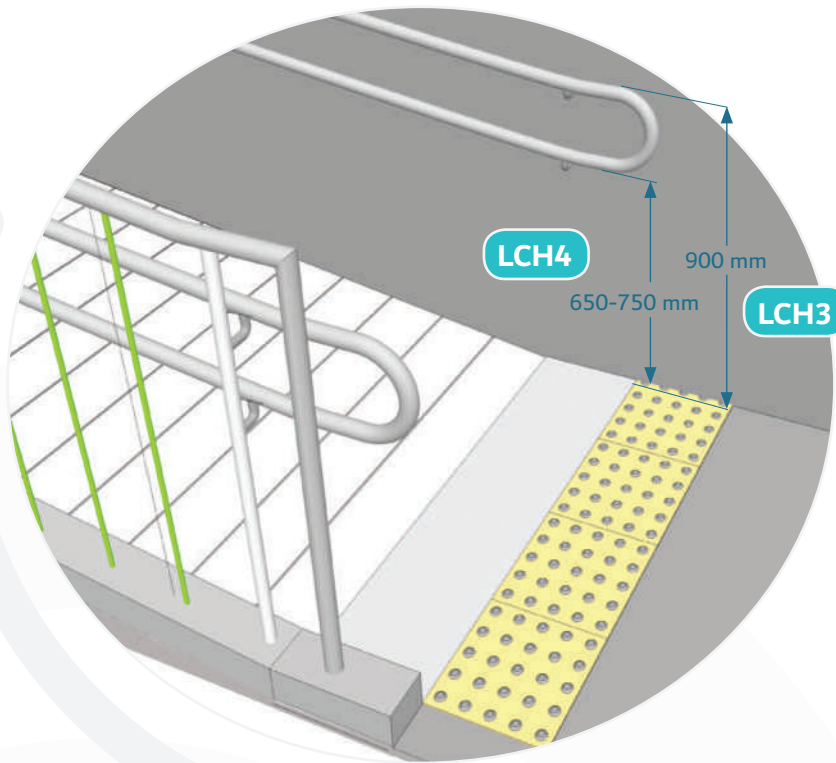
Illumination at top and bottom of the flight $\geq 200\text{lux}$

**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

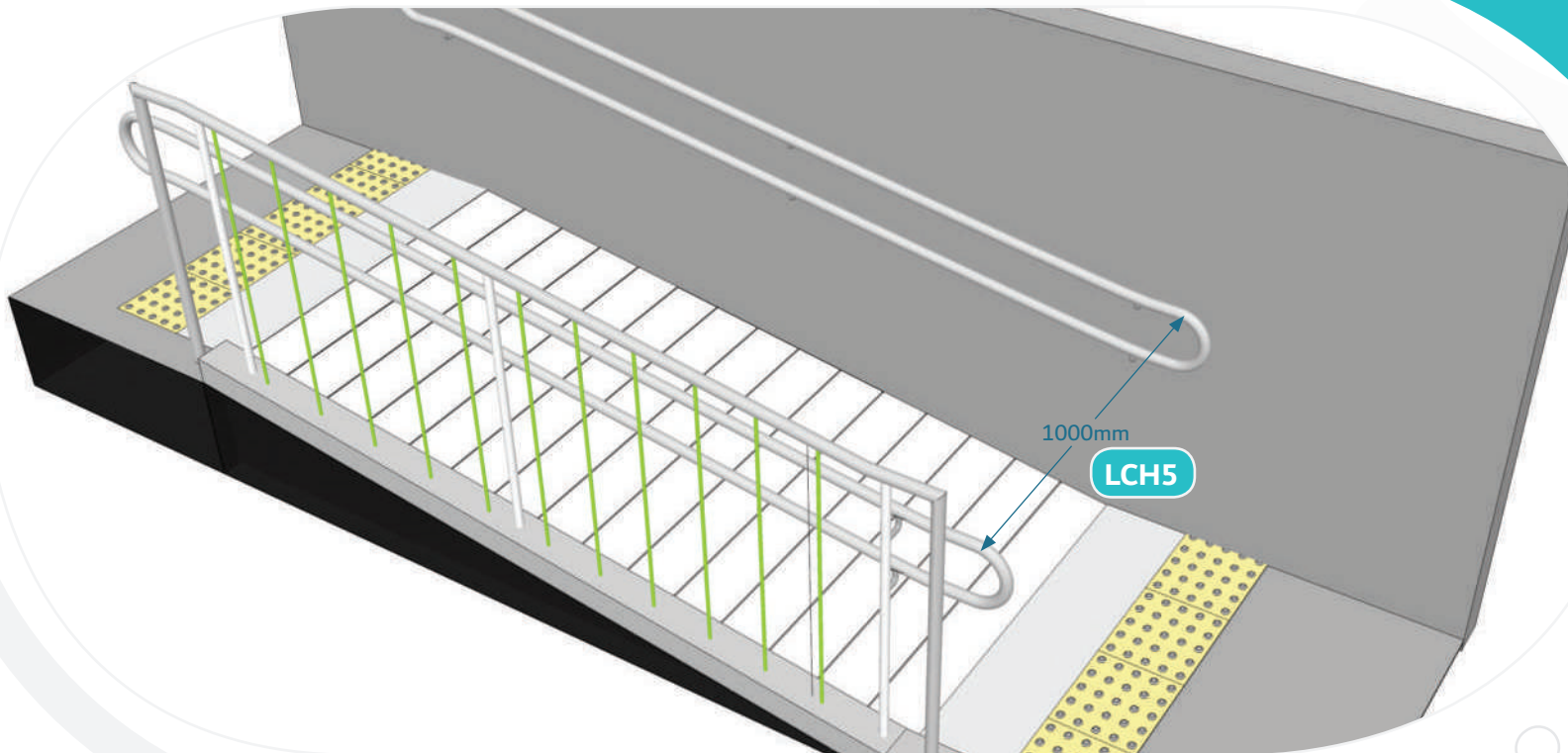


LCH3

Mounted at height of 900mm

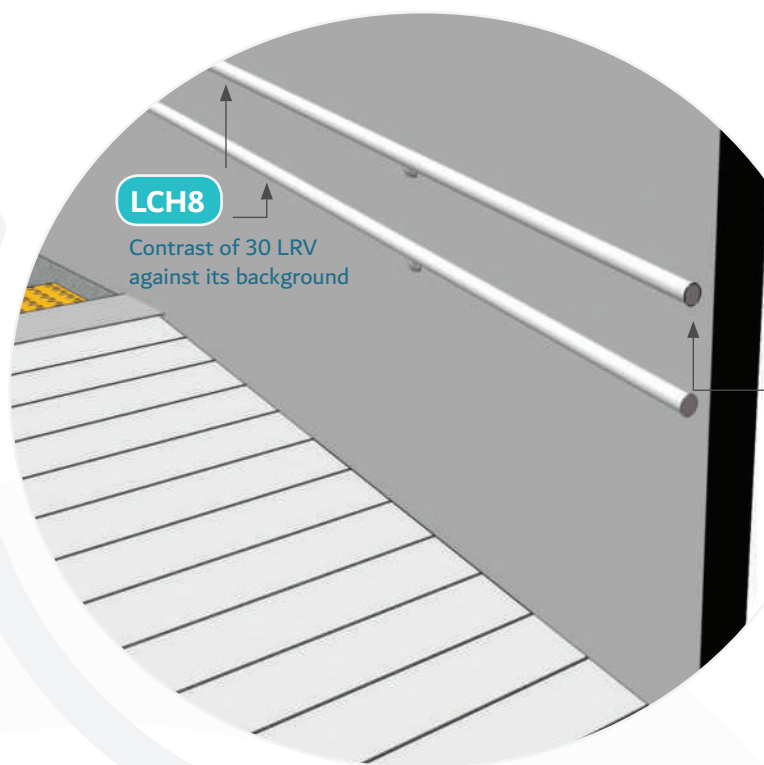
LCH4

Additional handrail at a height between 650 - 750mm

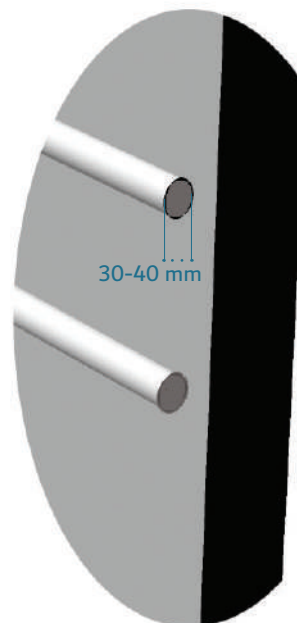


LCH5

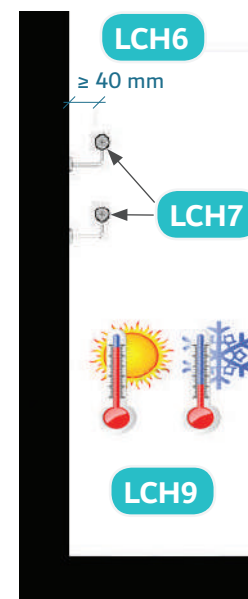
The distance between both sides of handrails is 1000mm



LCH6



LCH6



LCH9

LCH6

Rounded section of 30 - 40 mm separated from the wall with a distance ≥ 40 mm

LCH8

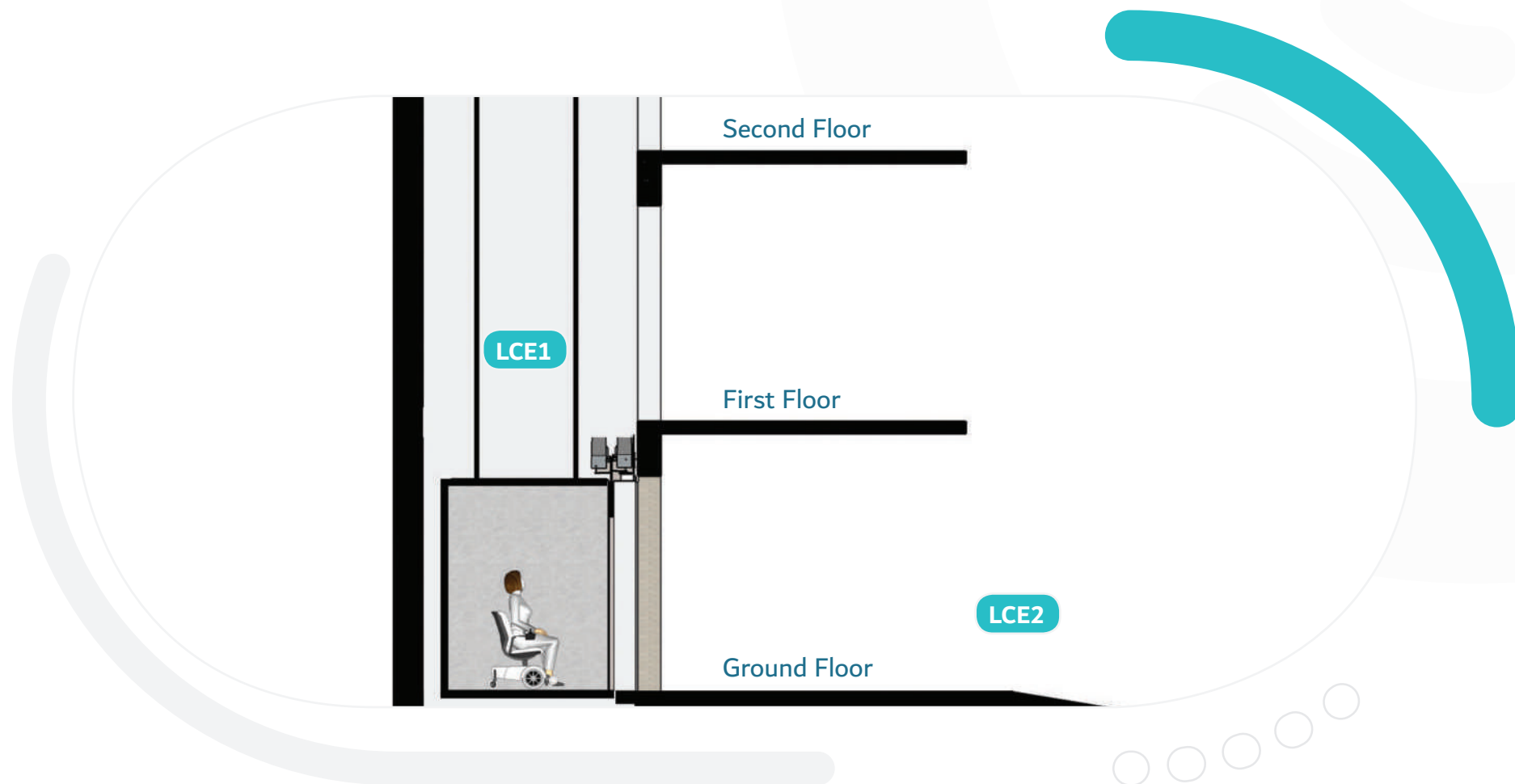
Contrast of 30 LRV against its background

LCH7

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

LCH9

Handrails made of comfortable materials against heat and coldness

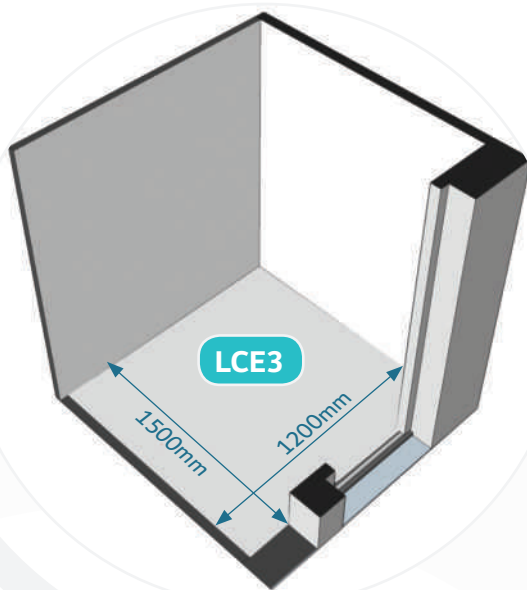


LCE1

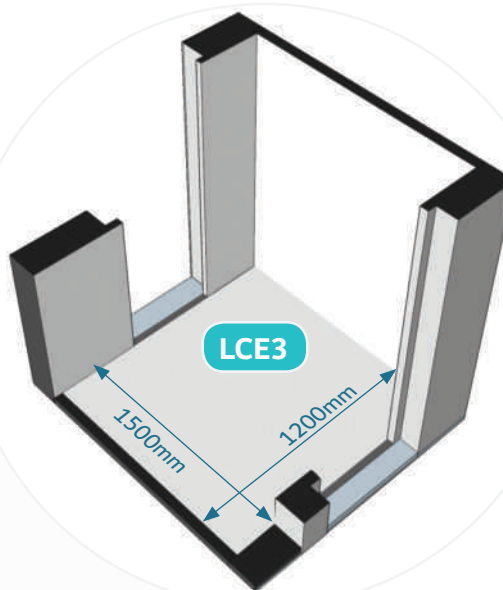
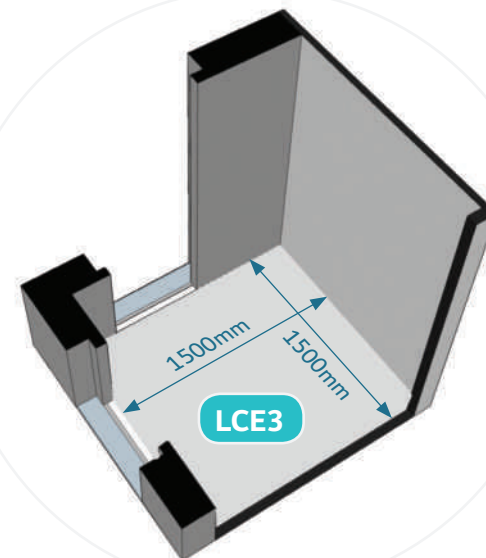
Present in buildings with more than one floor

LCE2

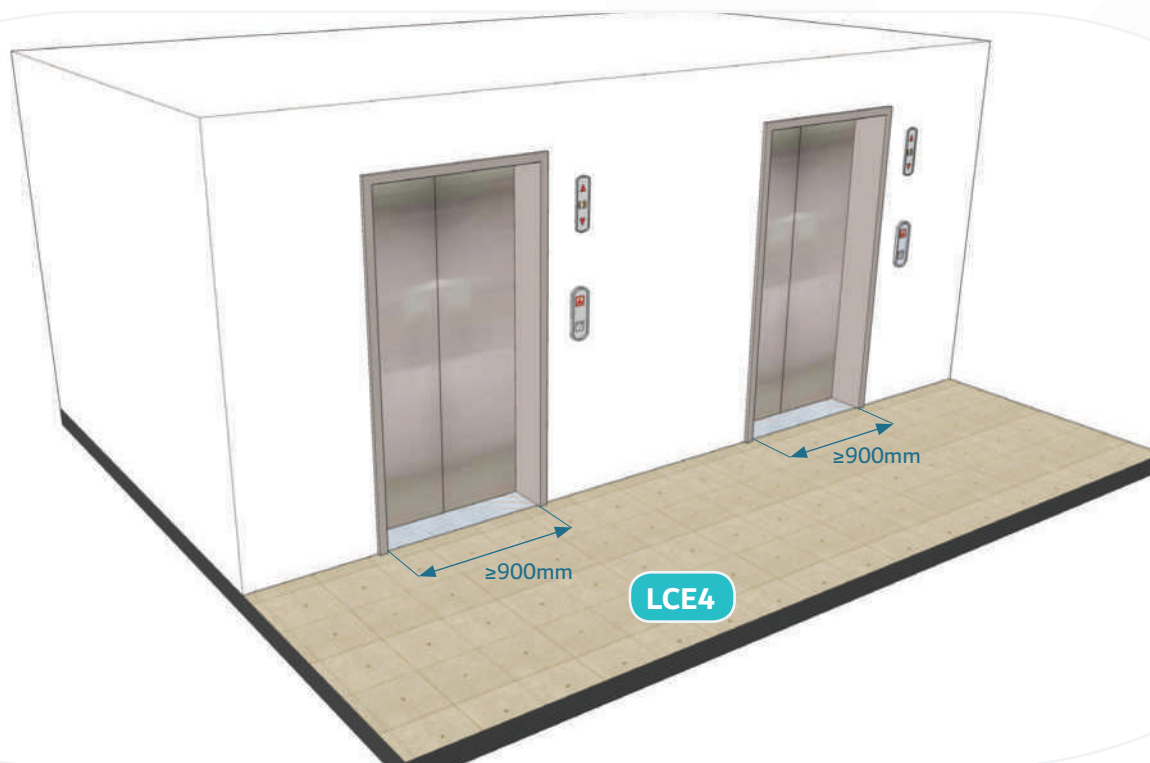
Accessible from ground floor in public areas



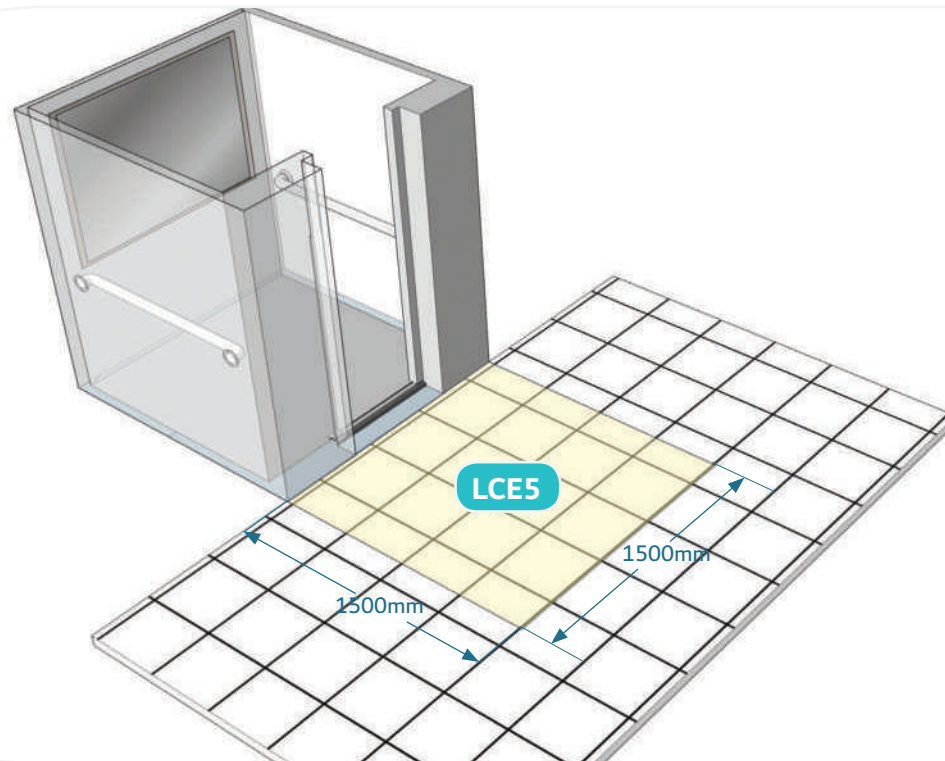
One door

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

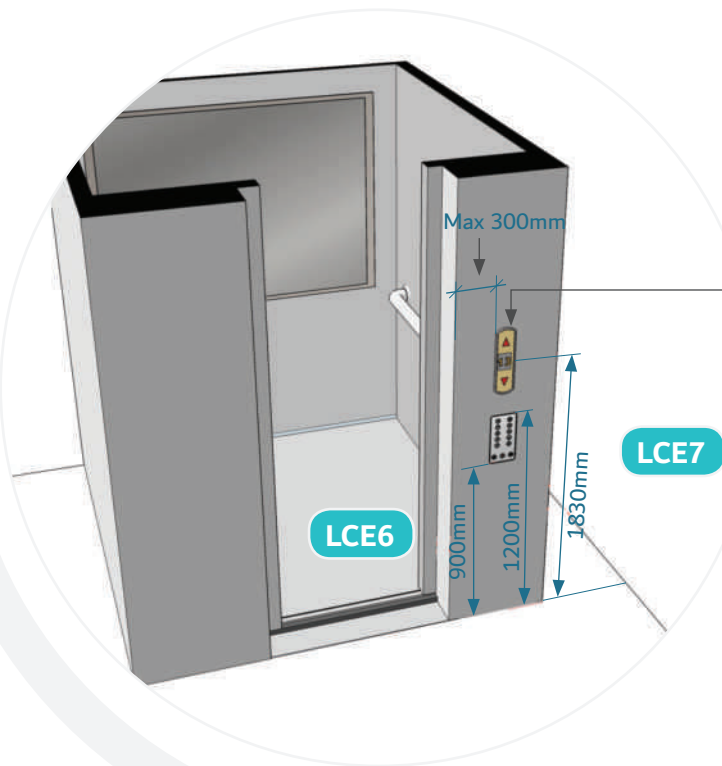
Dimensions shall comply: One door $\geq 1200 \times 1500\text{mm}$ - Two opposing doors $\geq 1200 \times 1500\text{mm}$
- Two doors in $90^\circ \geq 1500 \times 1500\text{mm}$



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

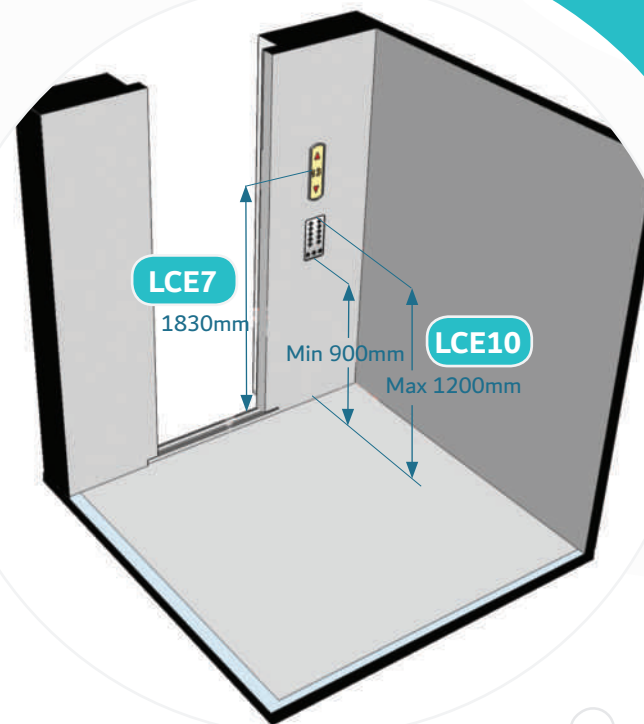
**LCE5**

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

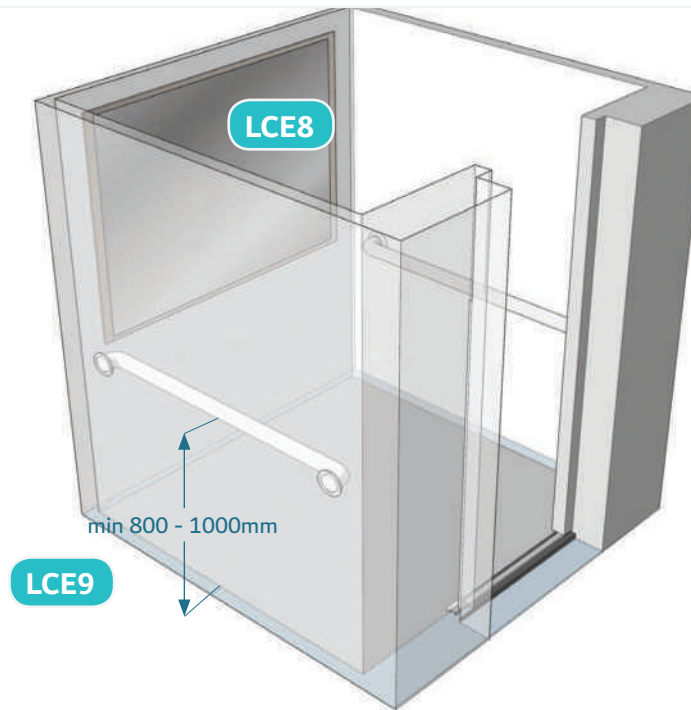


LCE6 Elevator calling buttons height between 900 - 1200mm

LCE10 Inside the cabin buttons height between 900 - 1200mm



LCE7 Floor indicator located at 1830mm

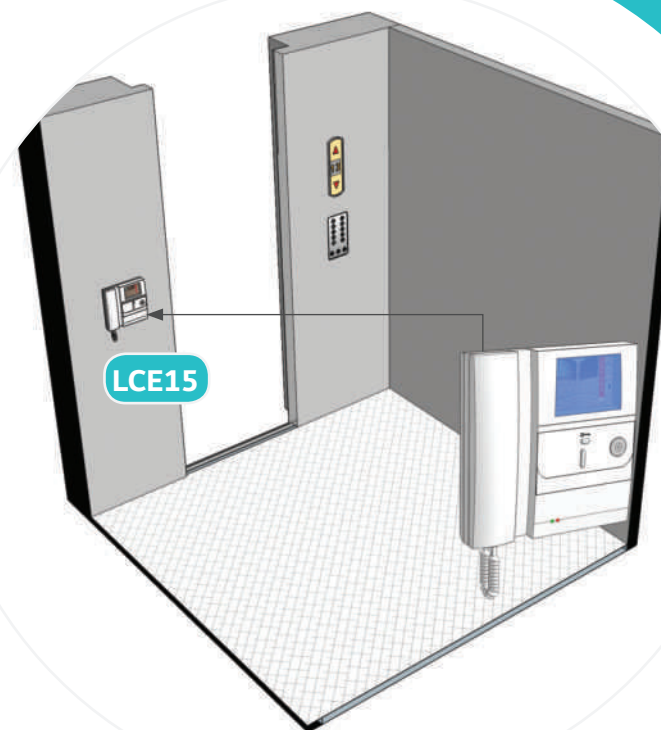
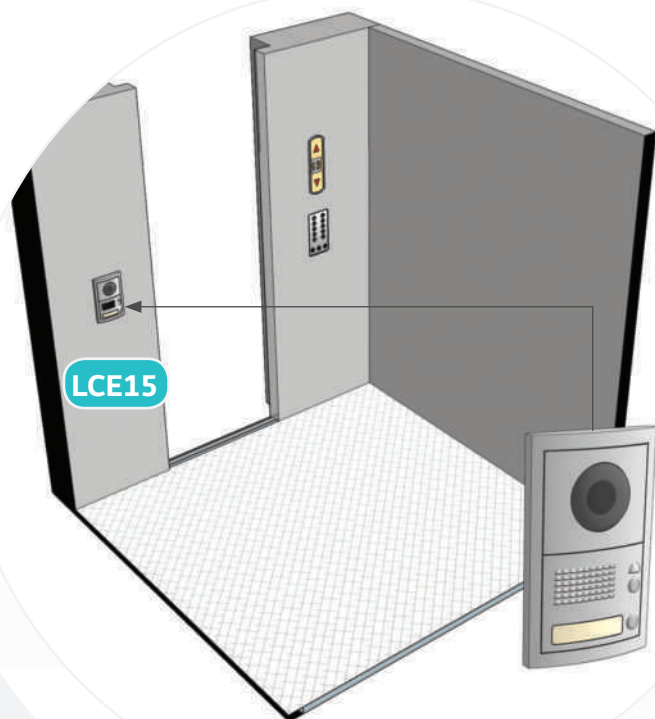


LCE8 Only one mirror inside the cabin on the wall opposite to the door over the handrail level

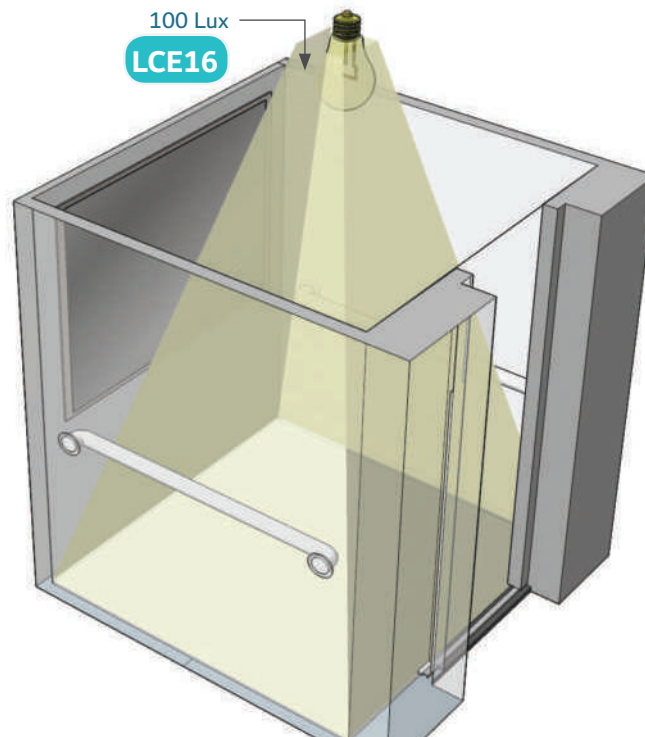
LCE9 Inside the cabin, minimum two handrails at a height of 800 mm to 1000mm from the floor



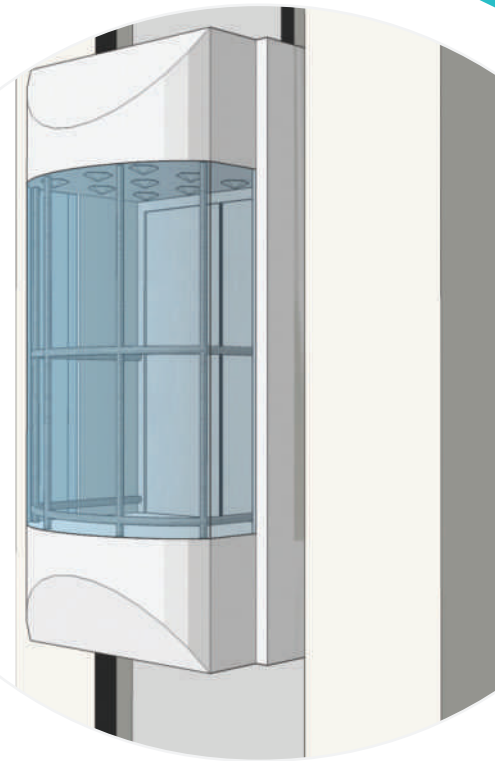
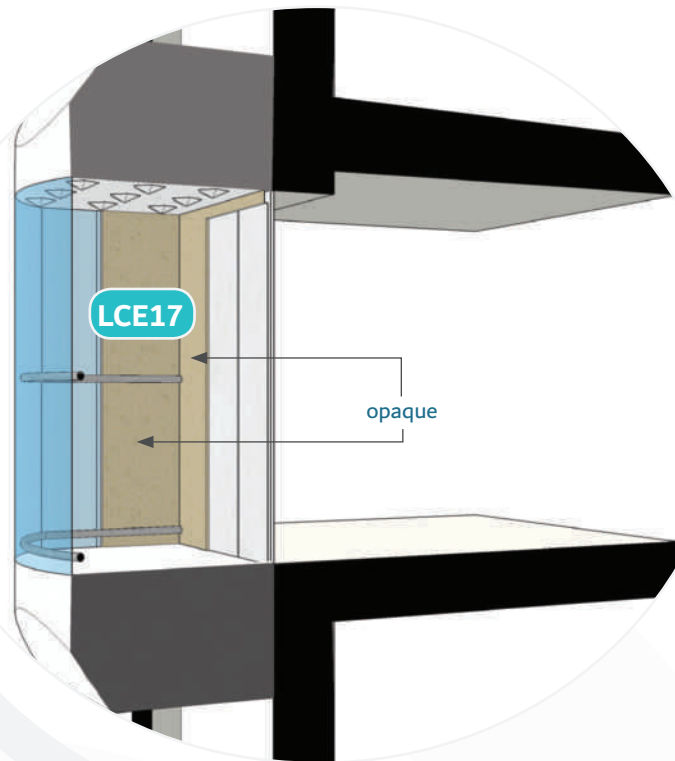
- LCE11** The ground floor button protruded ≥ 3 mm distinguished with a green color
- LCE12** Call buttons distinguished with icons and color contrast against background
- LCE13** Buttons provide two-channel feedback/ visual & acoustic OR visual & tactile
- LCE14** Emergency phone number is indicated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



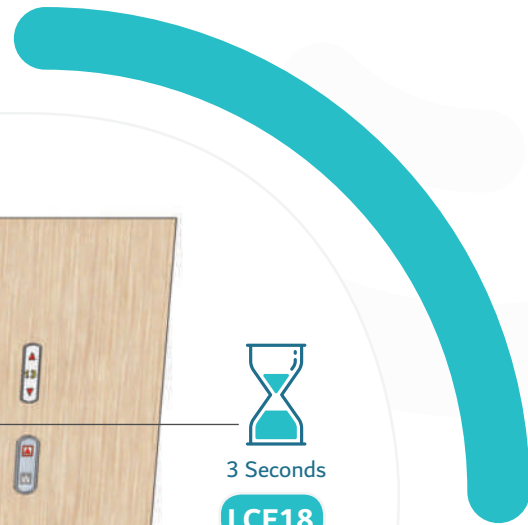
LCE15 CCTV or intercom or alternative system



LCE16 Light on the ceiling only with 100 lux

**LCE17**

In panoramic elevators, an opaque wall or corner is provided

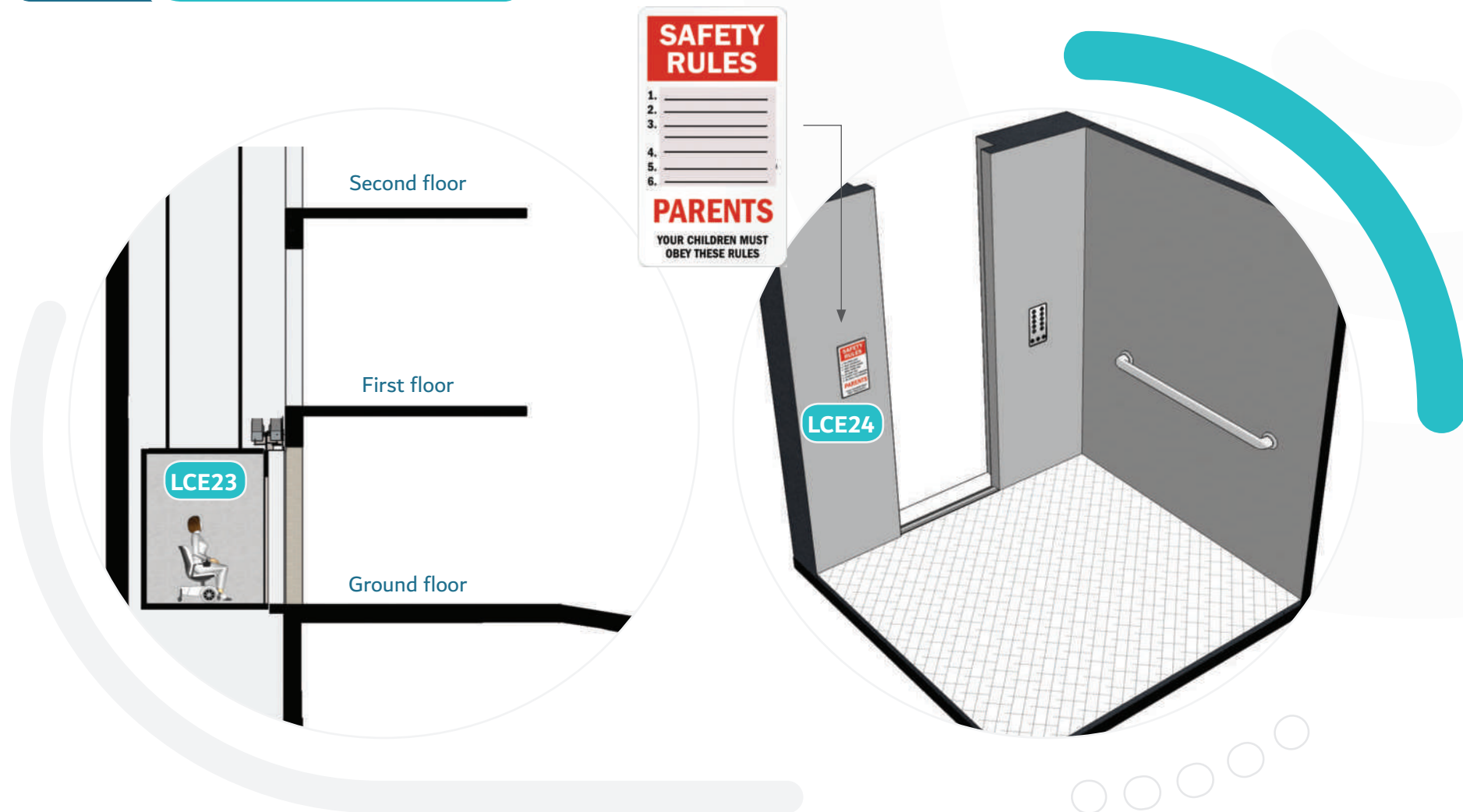


LCE19 Doors provided with sensors at two levels open automatically

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

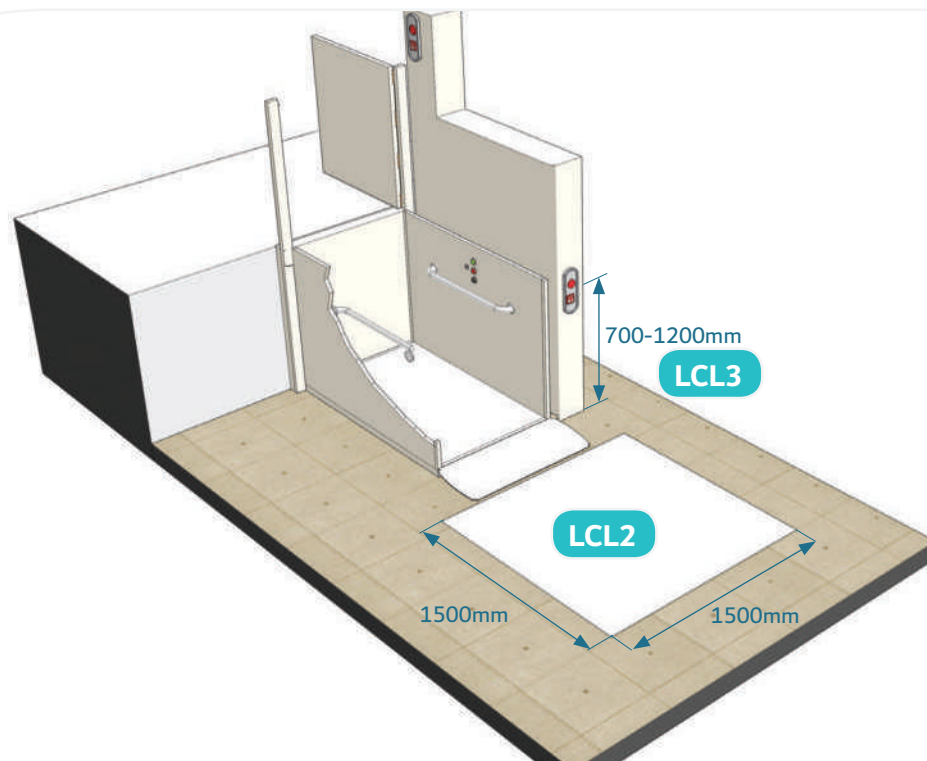
**LCE21**

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



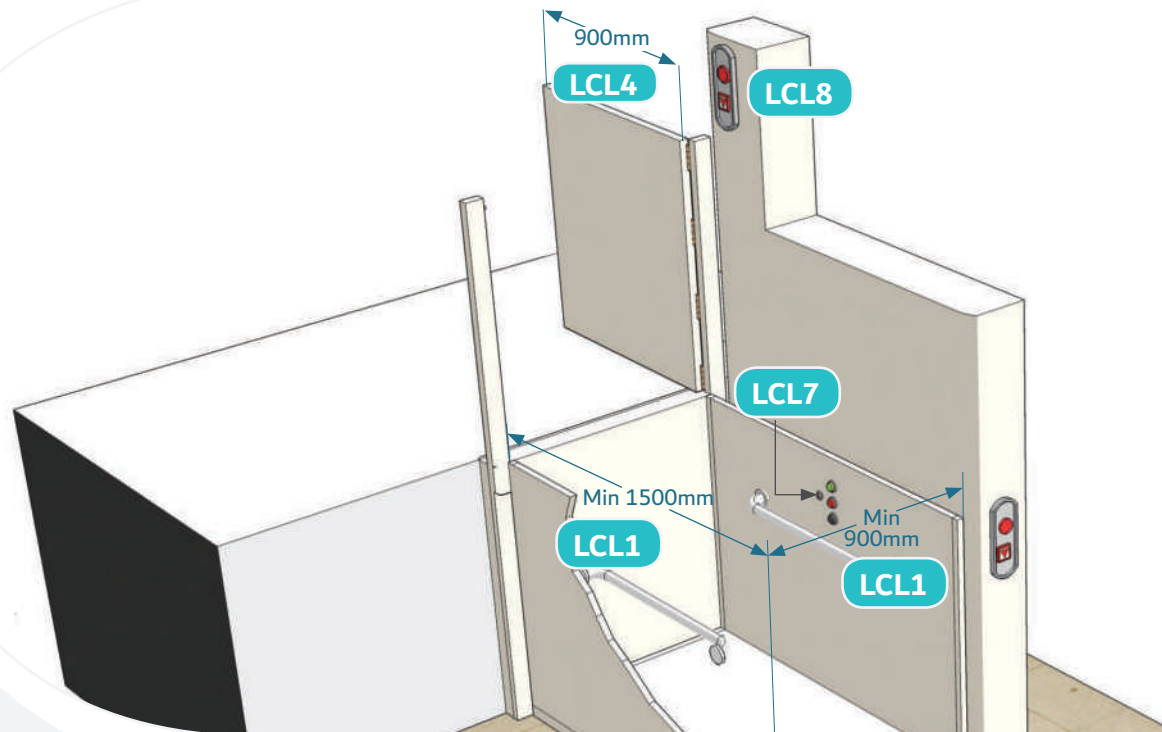
LCE23 Audible signal or voice announcement when reaching each floor

LCE24 Advisory signs indicating safety procedures and other regulatory information

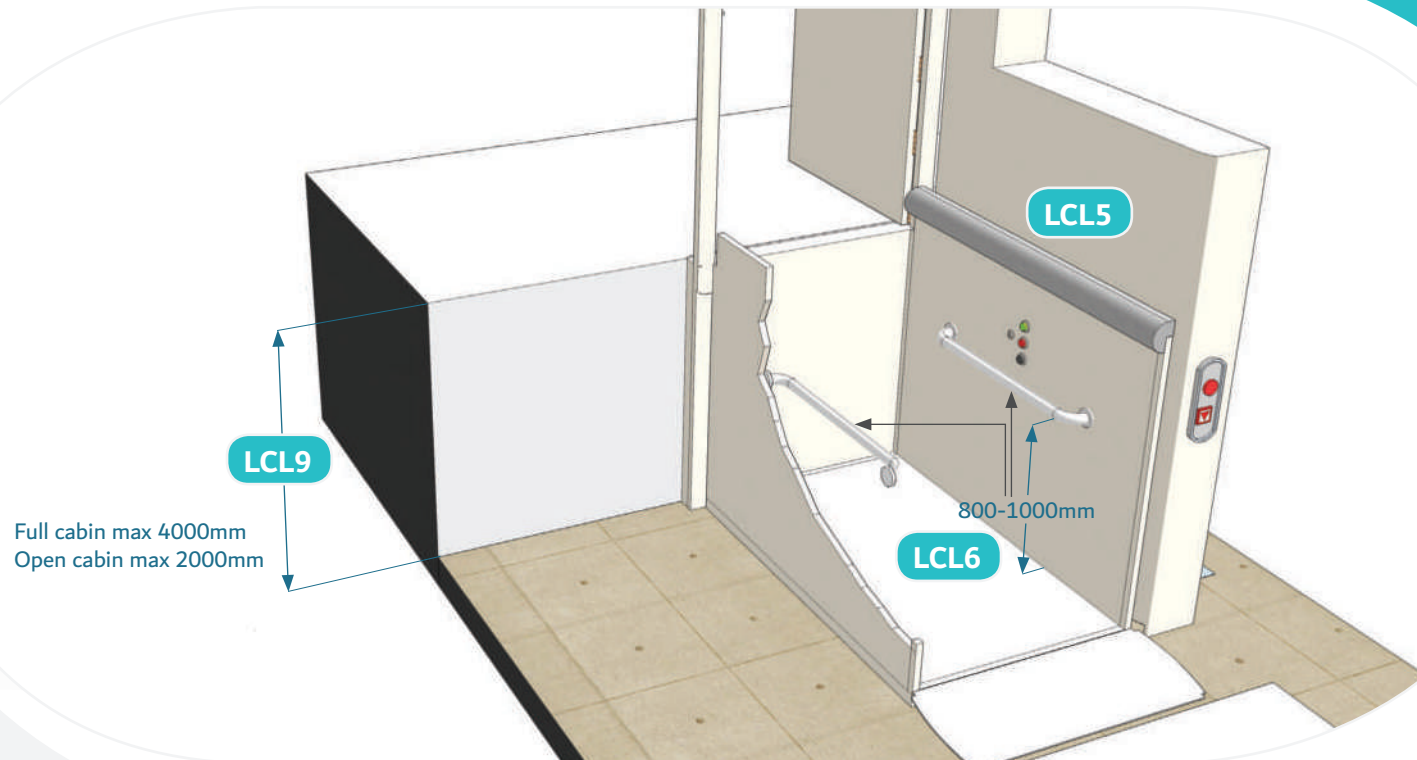


LCL2 Manoeuvring space of 1500 x 1500mm in front the lift access

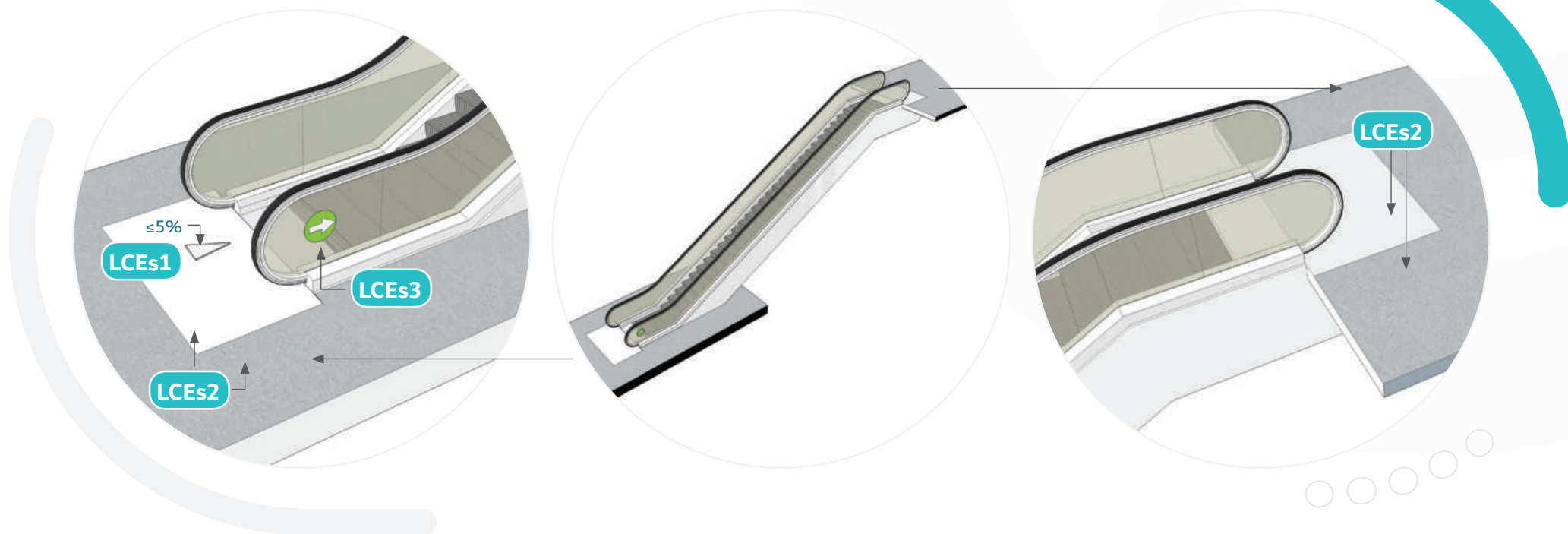
LCL3 Calling button height between 700 - 1200mm



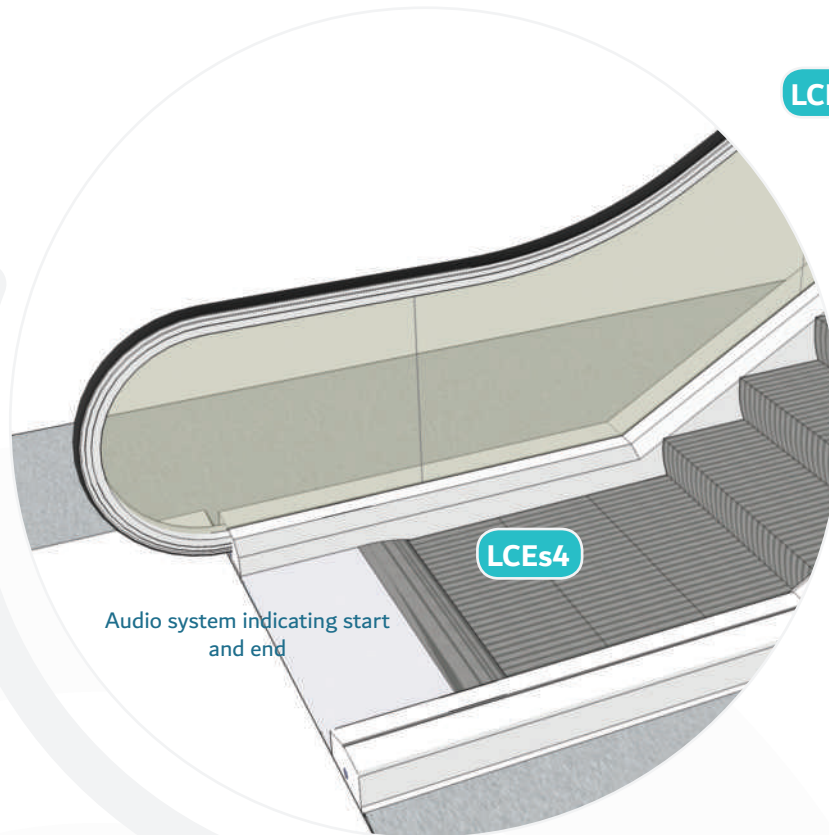
- LCL1** Dimensions of the cabin on min. 900 x 1500mm
- LCL4** Doors width of 900mm
- LCL7** Inside the cabin, continuous pressing buttons operable with the elbow
- LCL8** Additional external control by authorized person



- 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

Audio system indicating start and end



LCEs4

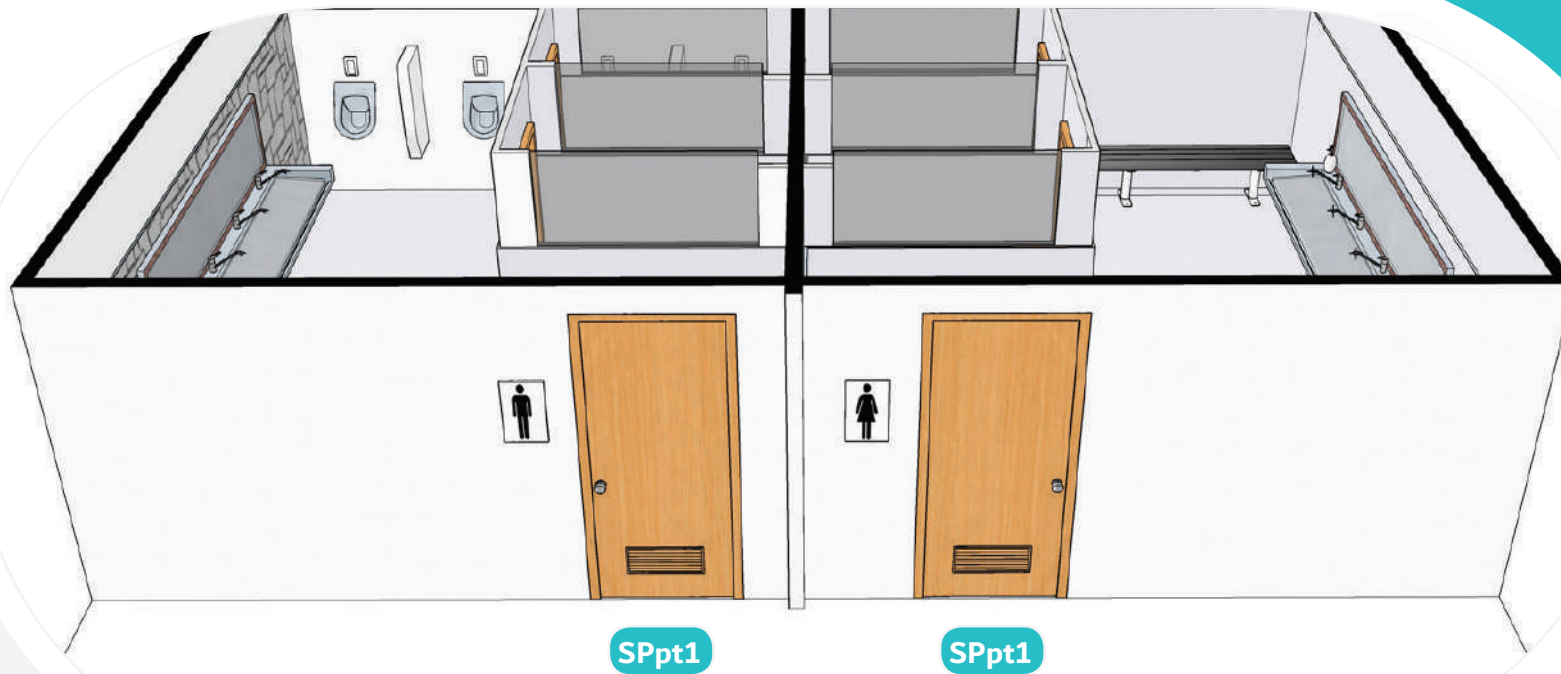
Audio system indicating start and end

LCEs4

Audio system indicating start and end

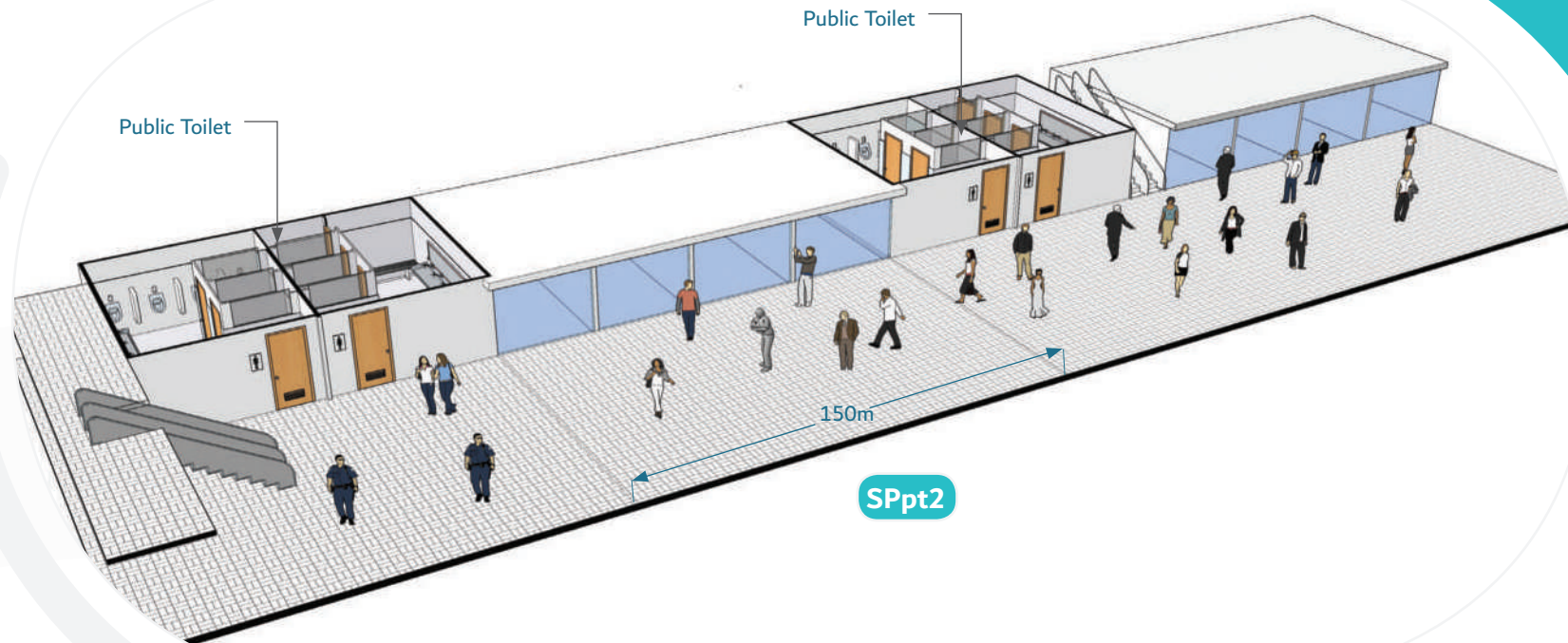
Sanitary Provisions





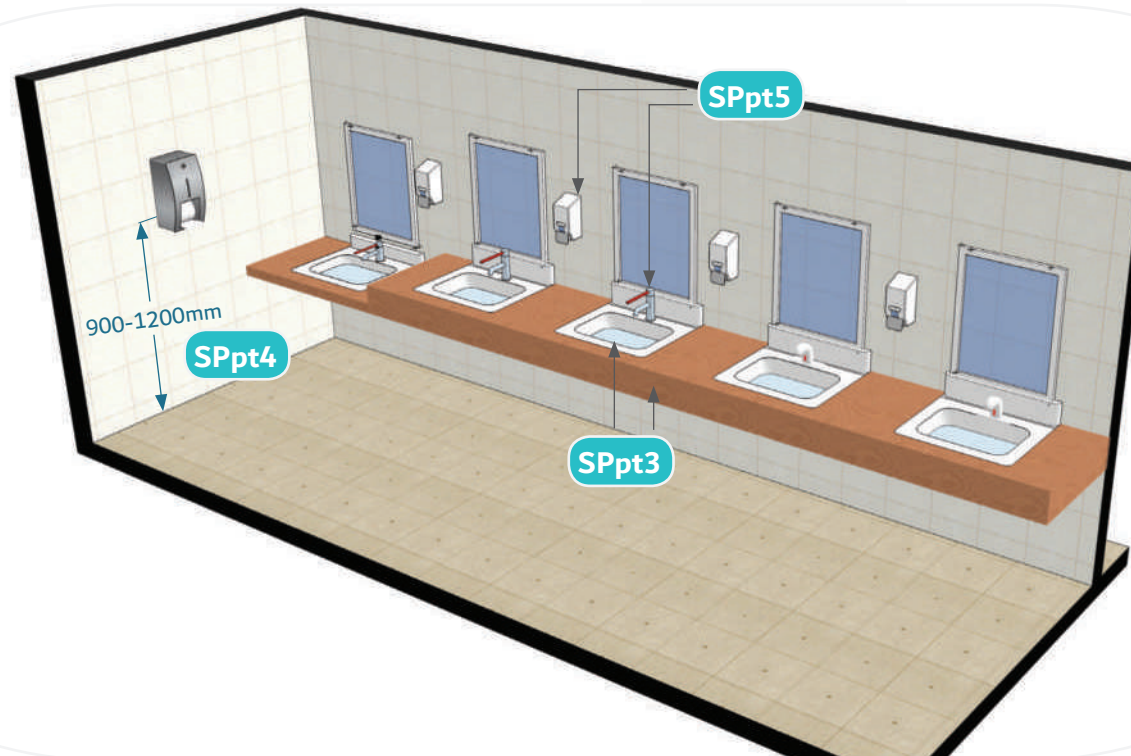
SPpt1

Public toilets for male and female provided

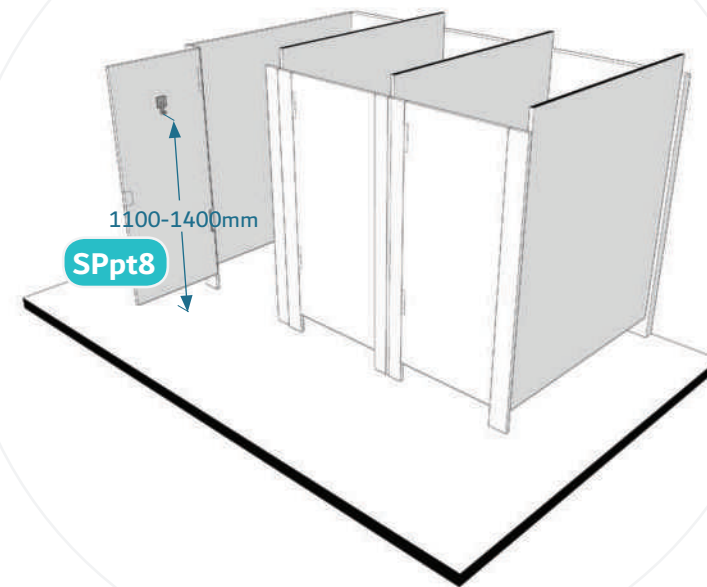
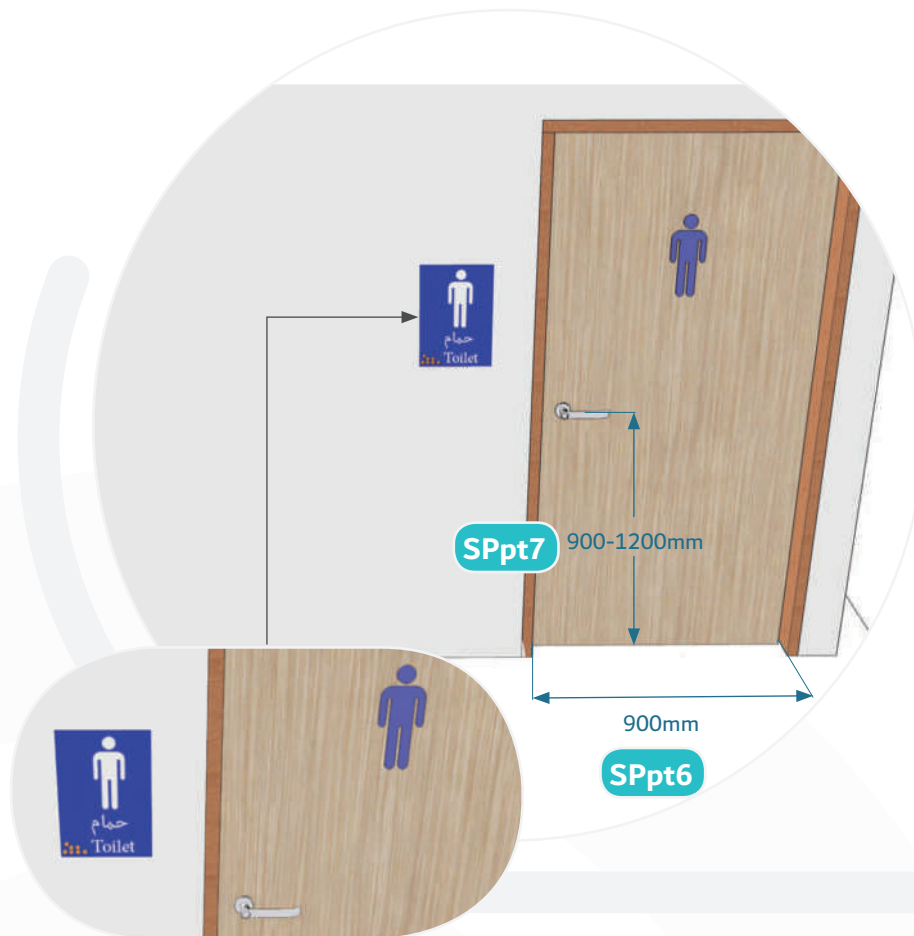


SPpt2

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

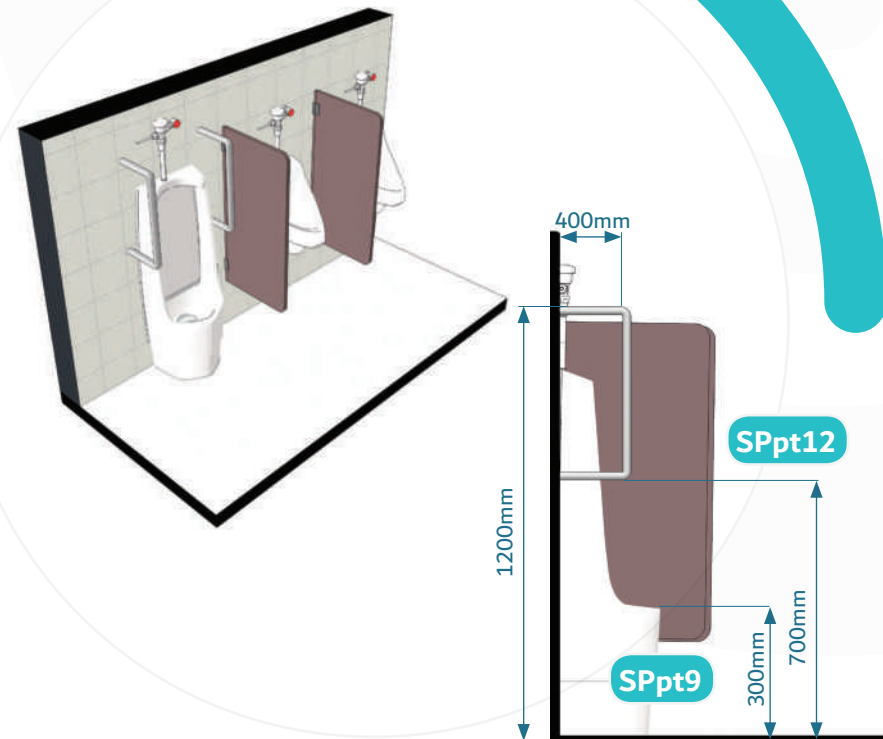
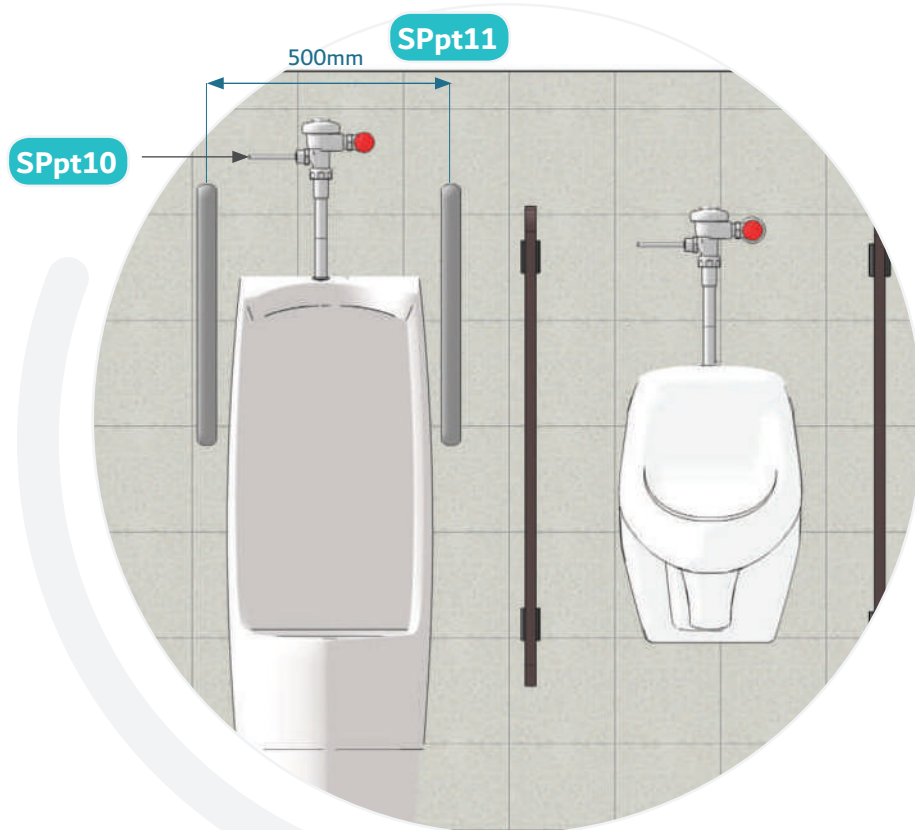
Door clear width 900mm and comply door requirements

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

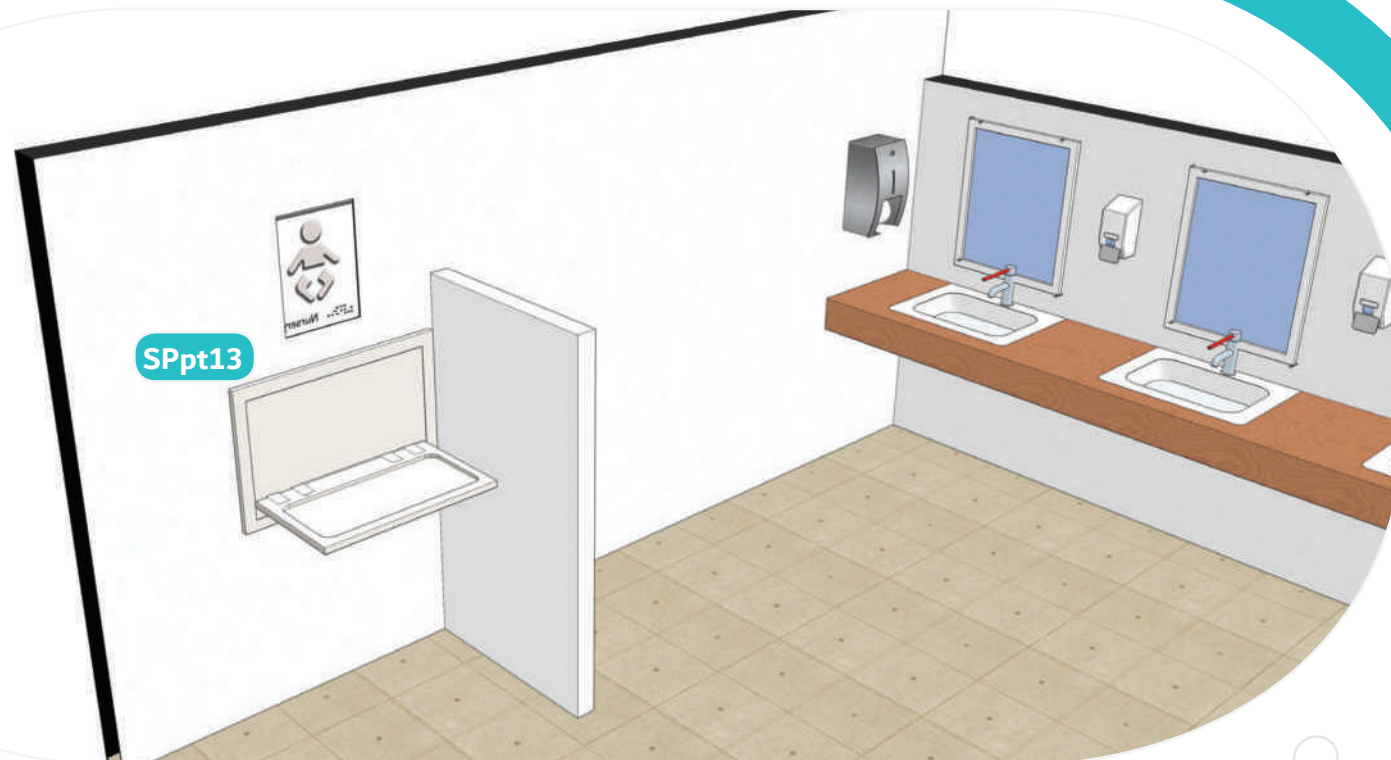


SPpt9 If 2 or more urinals, 1 with usable height at 300mm and with grab bars

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

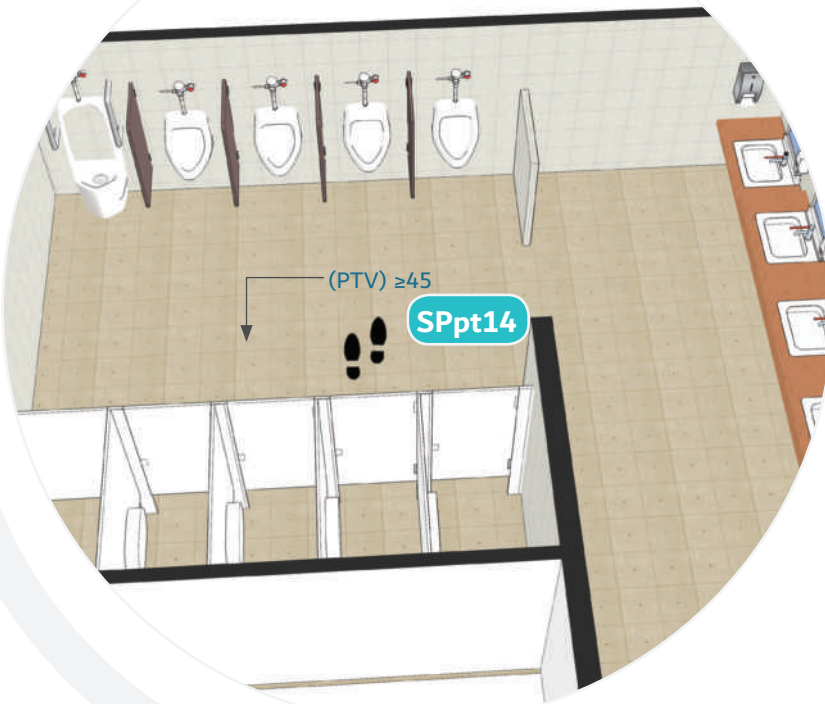
SPpt11 Distance between the grab bars is 500mm

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



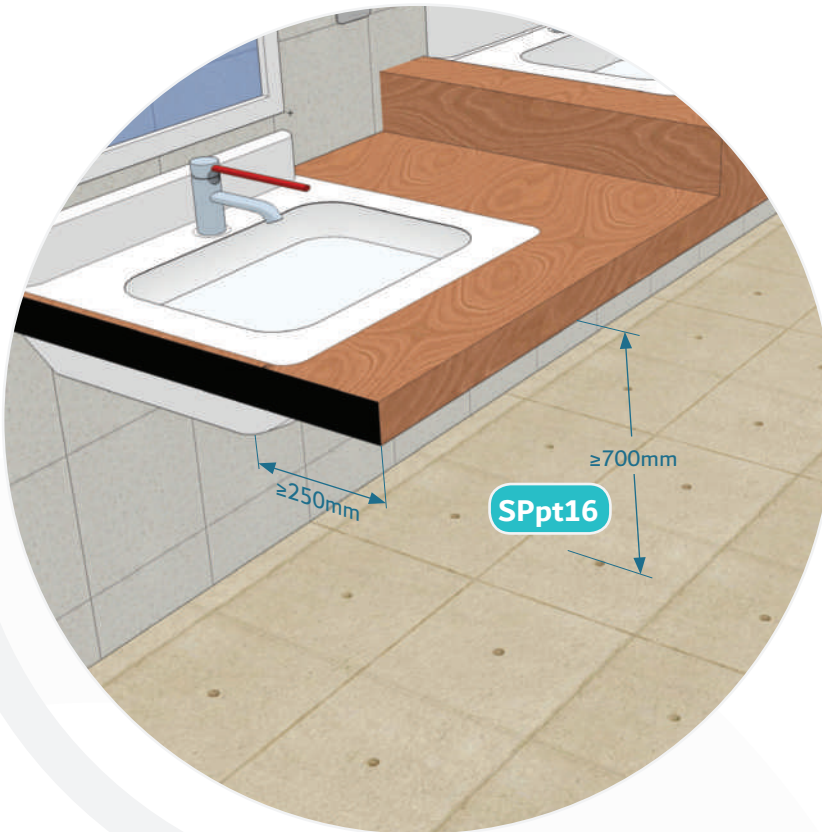
SPpt13

In each toilet block a baby changing board is provided



SPpt14 Non slippery floor surface with Pendulum Test Value (PTV) ≥ 45

SPpt15 With wash basins in a row, 1 is accessible



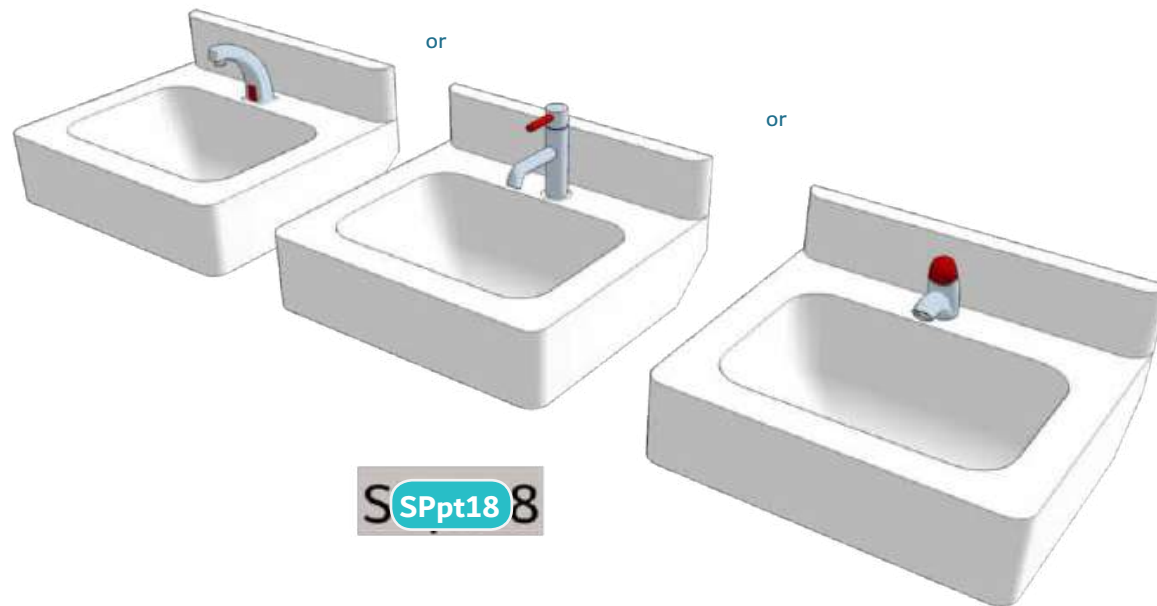
SPpt16

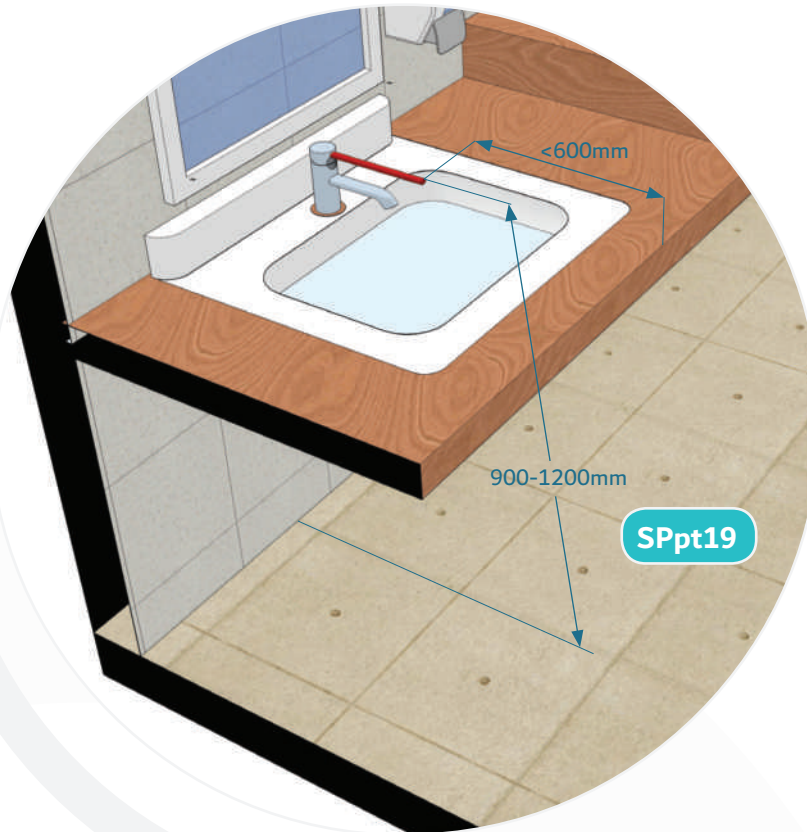


SPpt17

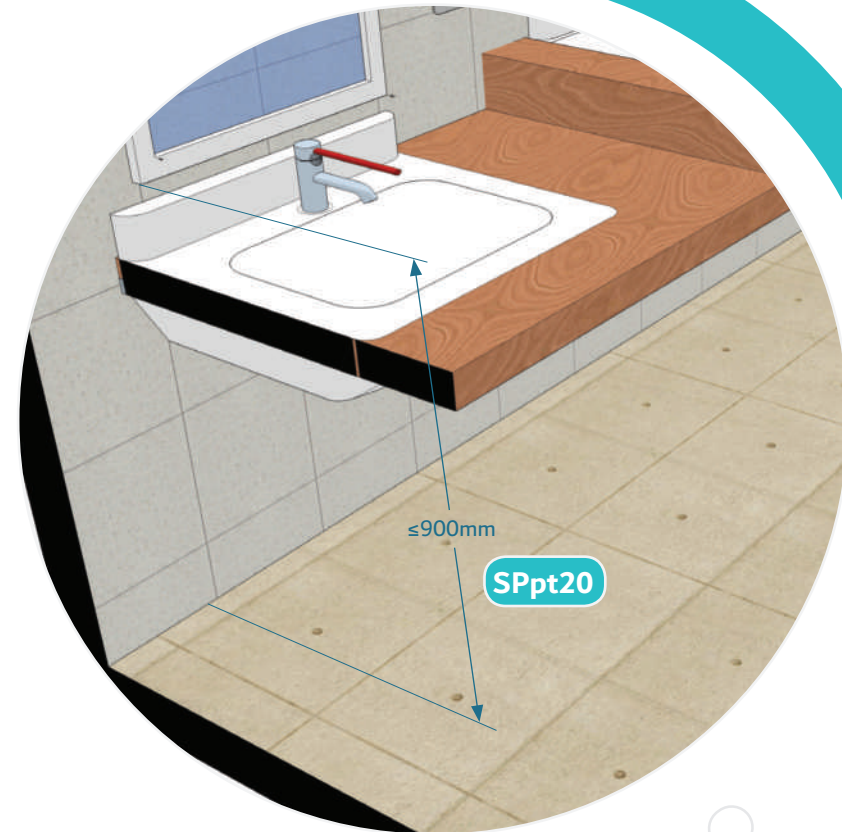
SPpt16 Accessible wash basin clearance from ground surface space $\geq 700\text{mm}$ high and $\geq 250\text{mm}$ deep

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





SPpt19



SPpt20

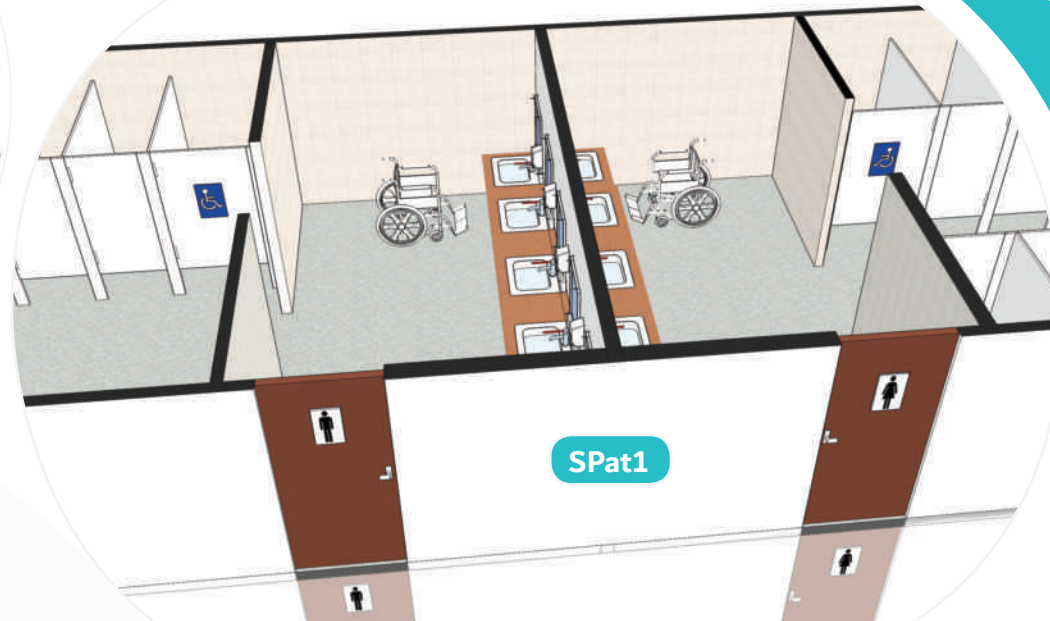
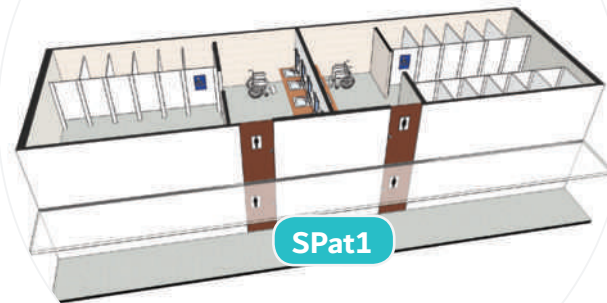
SPpt19 Distance to the faucet (water tap) shall be less than 600mm and vertical between 900mm and 1200mm.

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

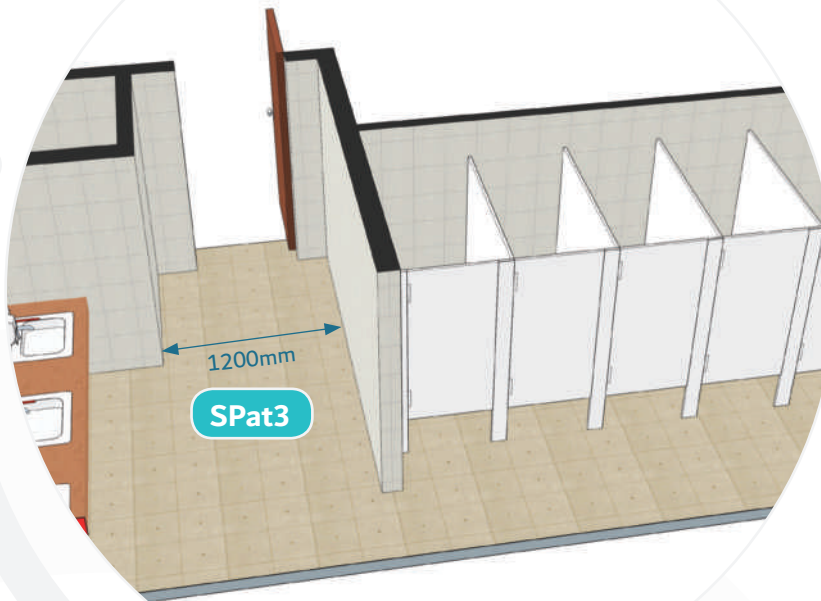


SPat1

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

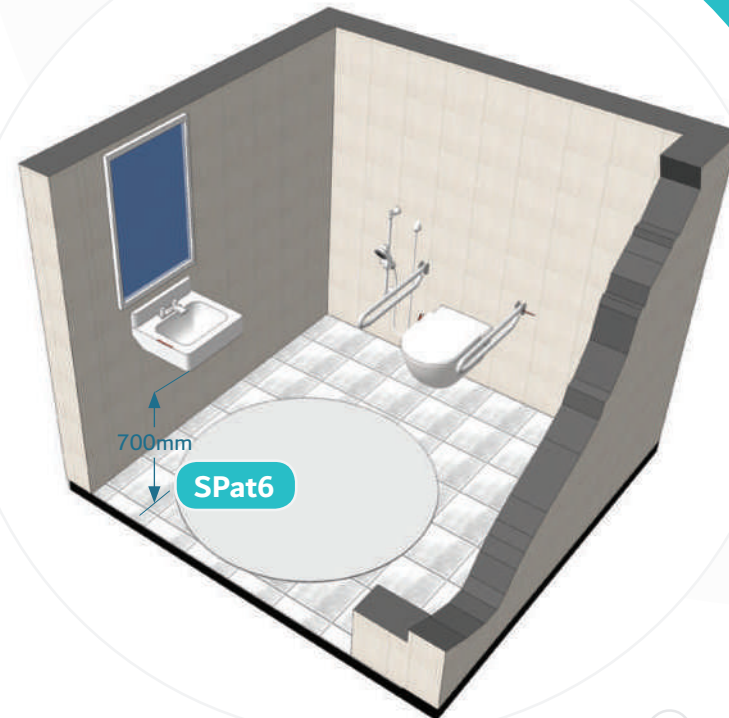
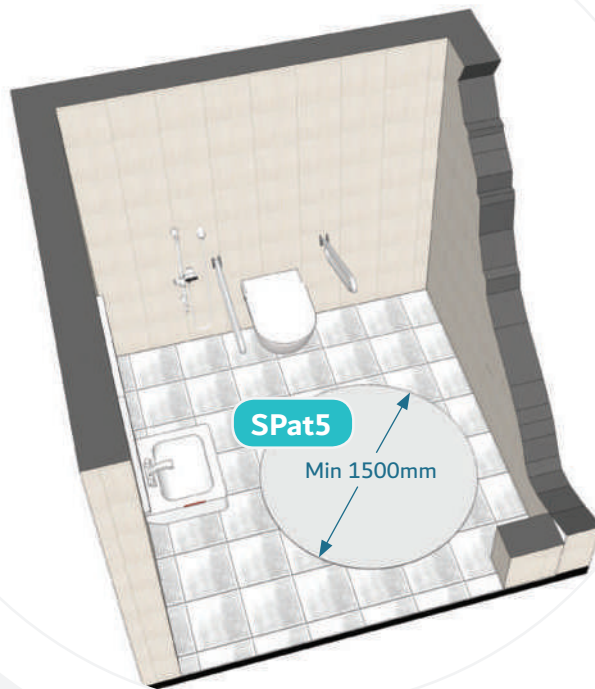


SPat2 One accessible toilet within a 150m distance from any part of the building



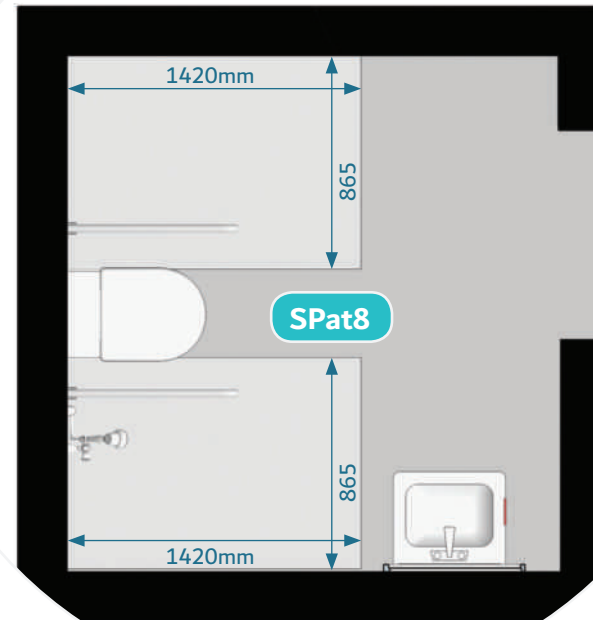
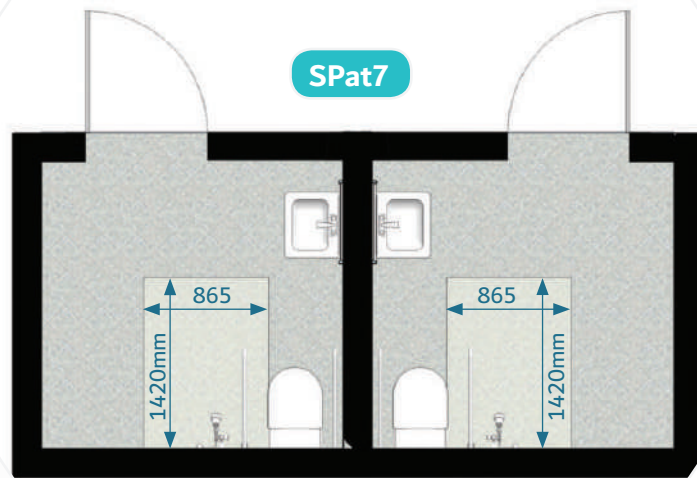
SPat3 Corridors width in toilets, showers, lockers spaces of 1200mm

SPat4 Maneuvering turning space diameter of 1500mm in circulations



SPat5 Maneuvering space diameter of 1500mm inside the toilet

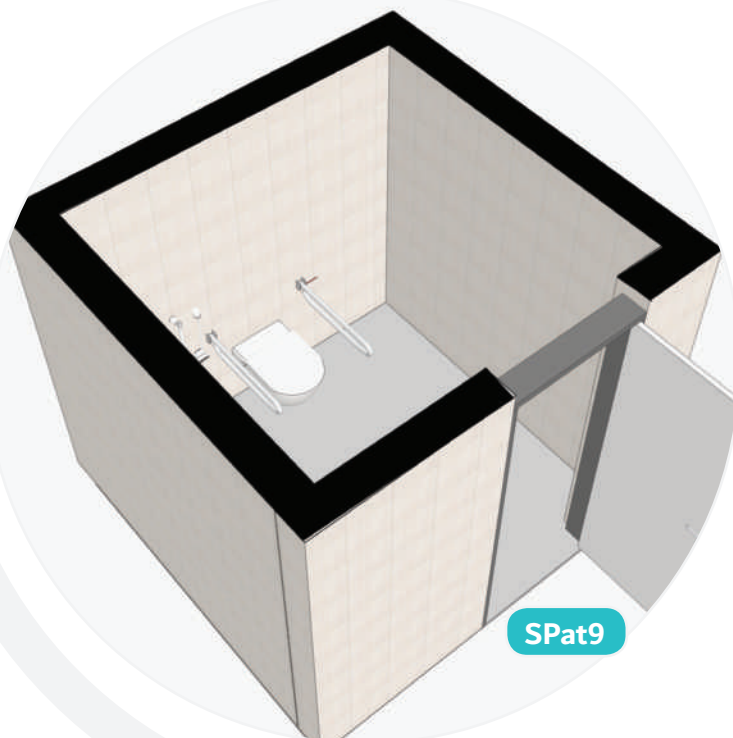
SPat6 Maneuvering space height between 0 to 700mm free of obstacles

**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

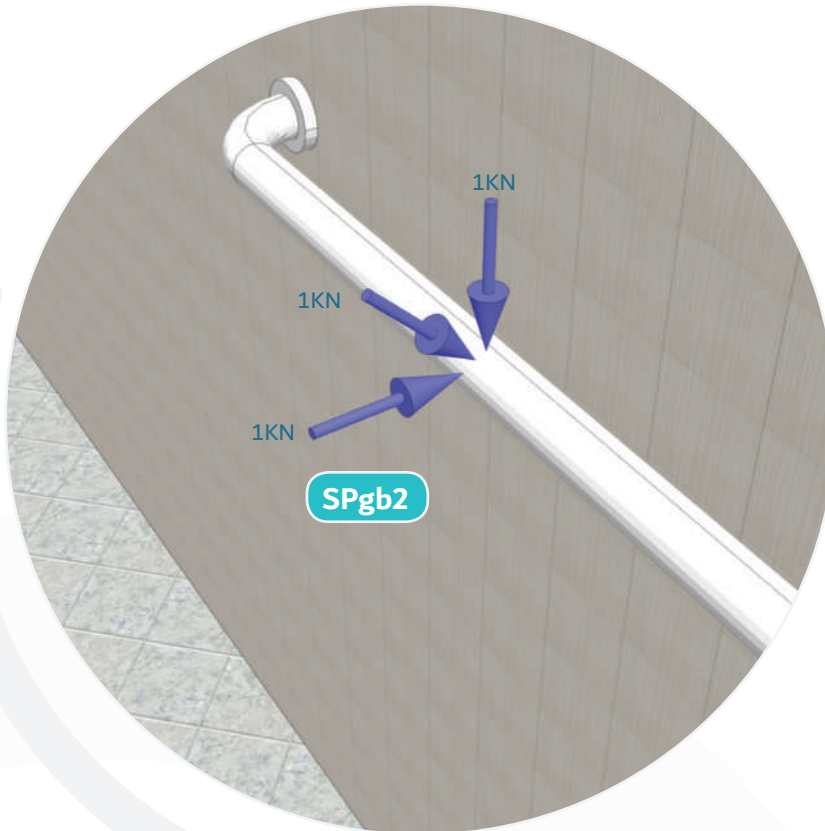


SPat9 Door open outwards or sliding

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



SPgb1

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

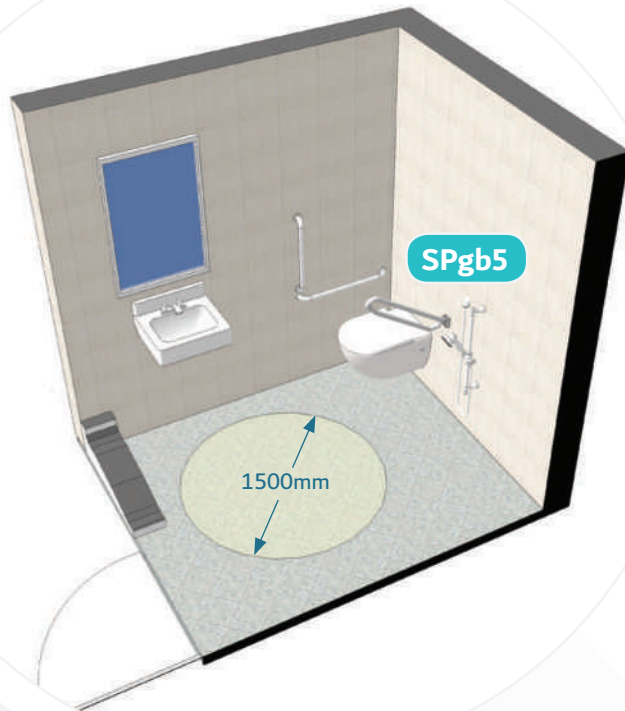
SPgb2

Withstand a force of 1 kN in any direction



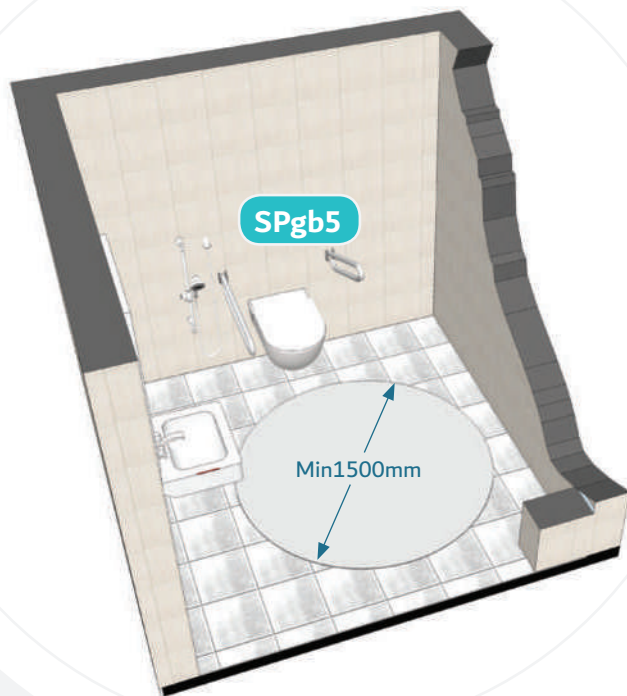
SPgb3 Circular diameter between 30 - 40mm

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



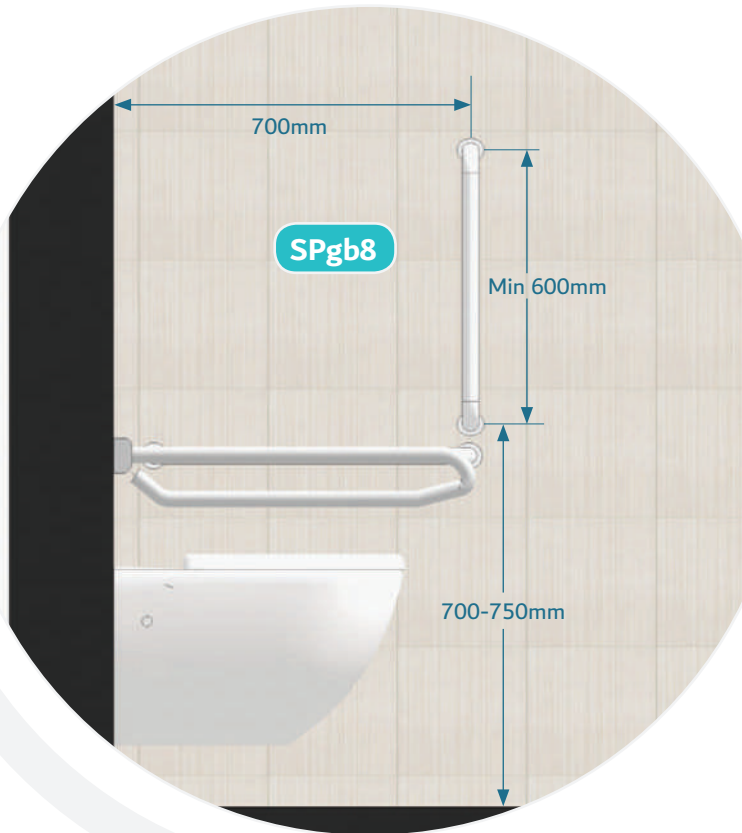
SPgb5 Bars mounted in the transfer space must be foldable

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



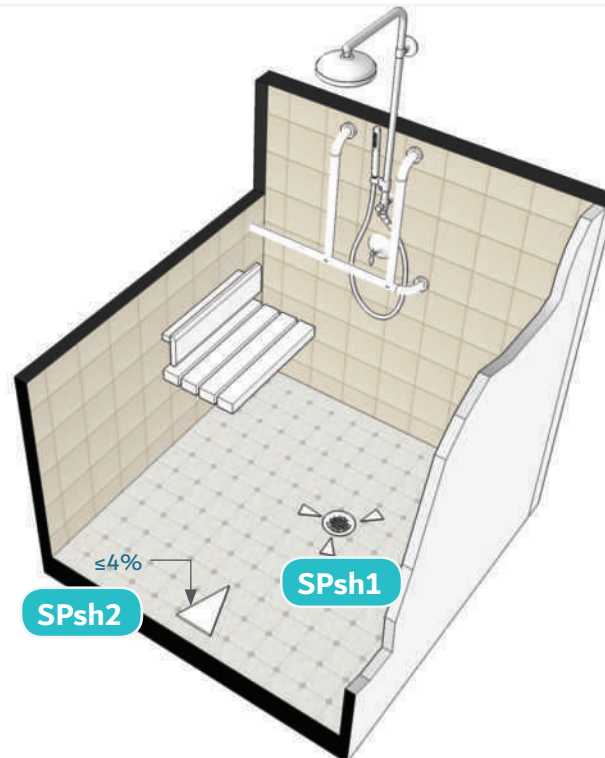
SPgb7

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



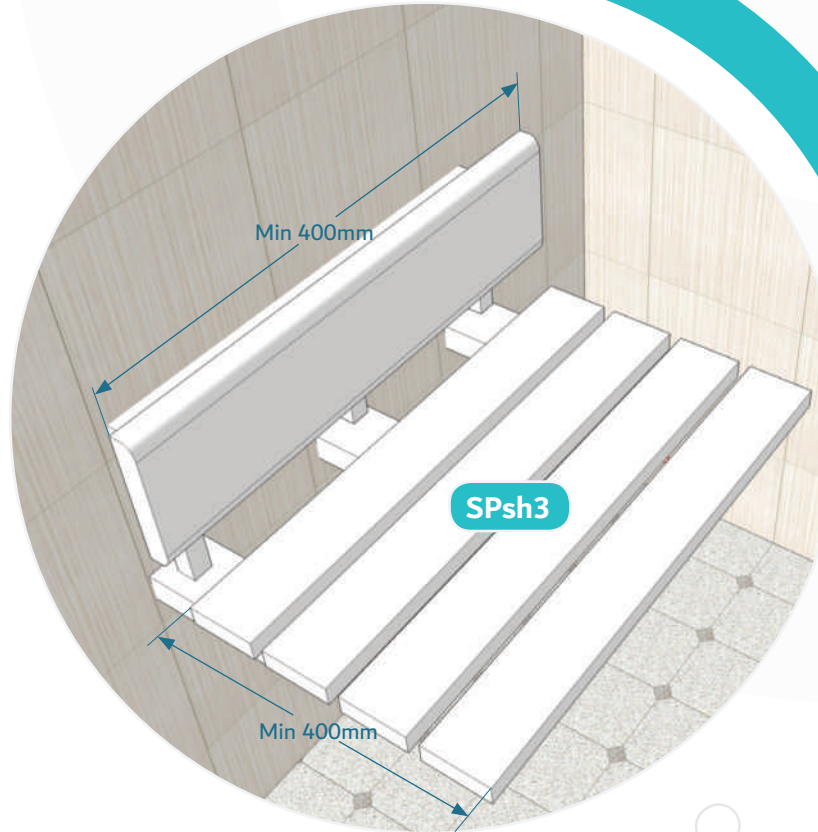
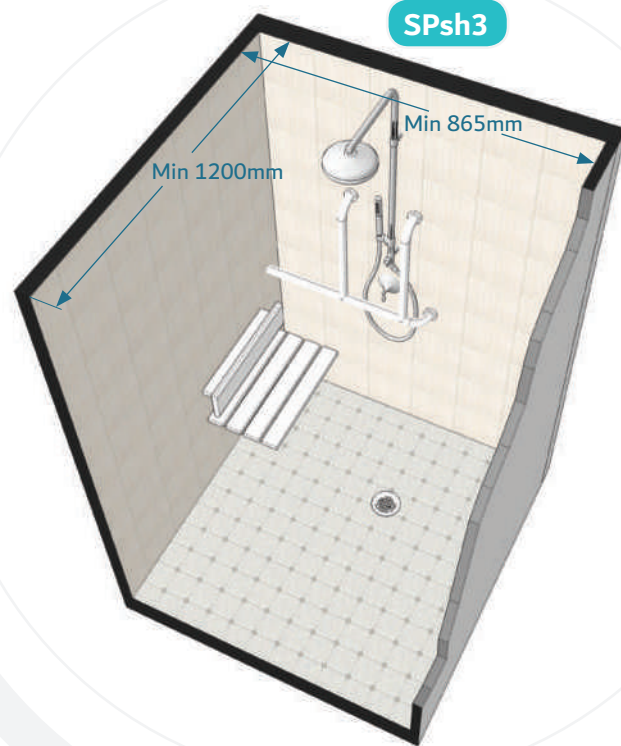
SPgb8 600mm vertical bar mounted 700 - 750mm from ground away 700mm from the wall

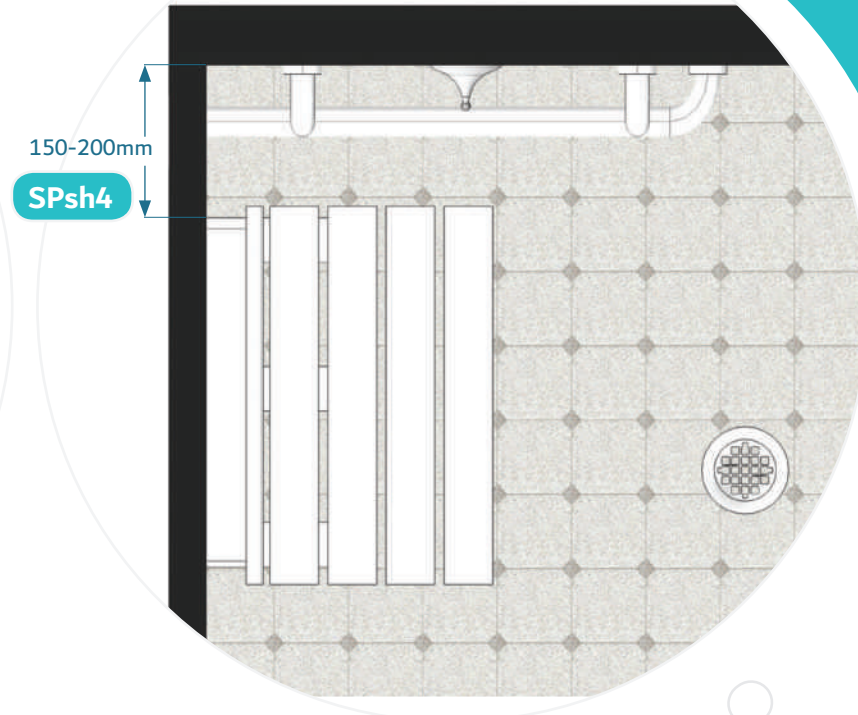
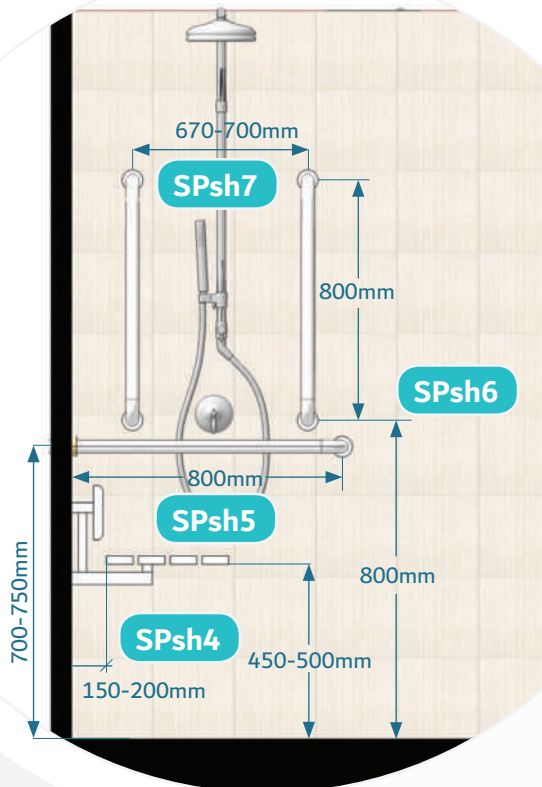
SPgb9 Toilet height between 450 - 500 mm



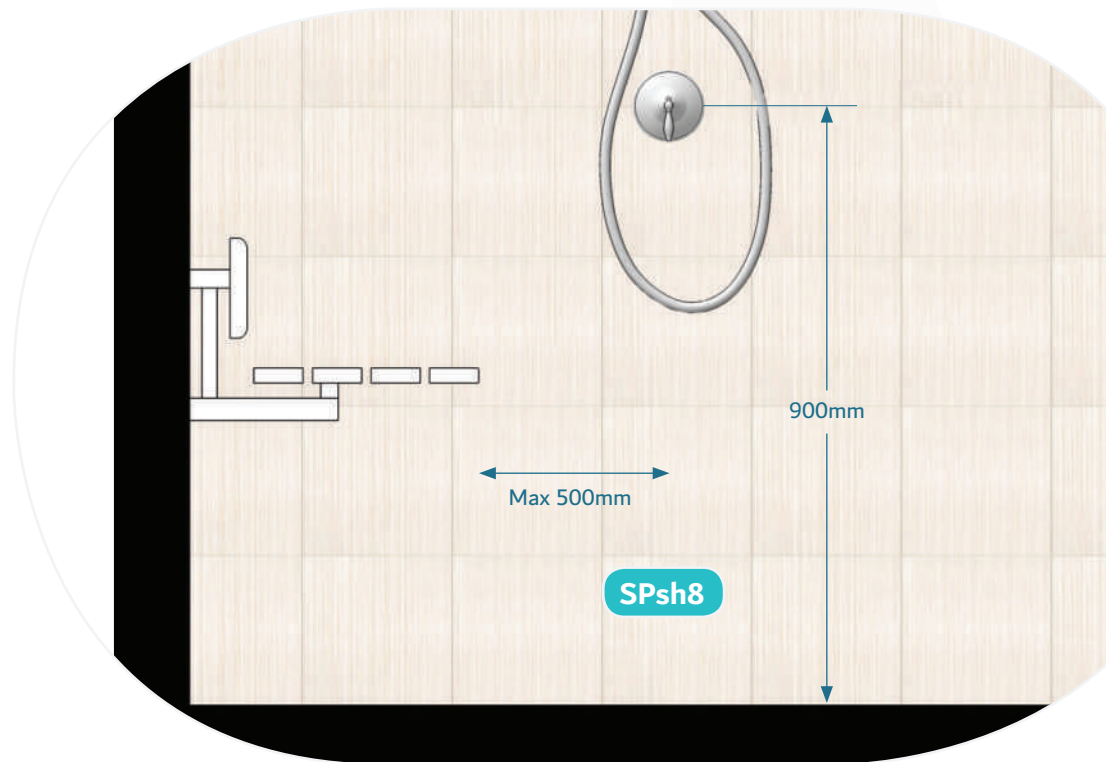
SPsh1 Shower floor surface at same floor level with surrounding area

SPsh2 Drain water slope $\leq 4\%$

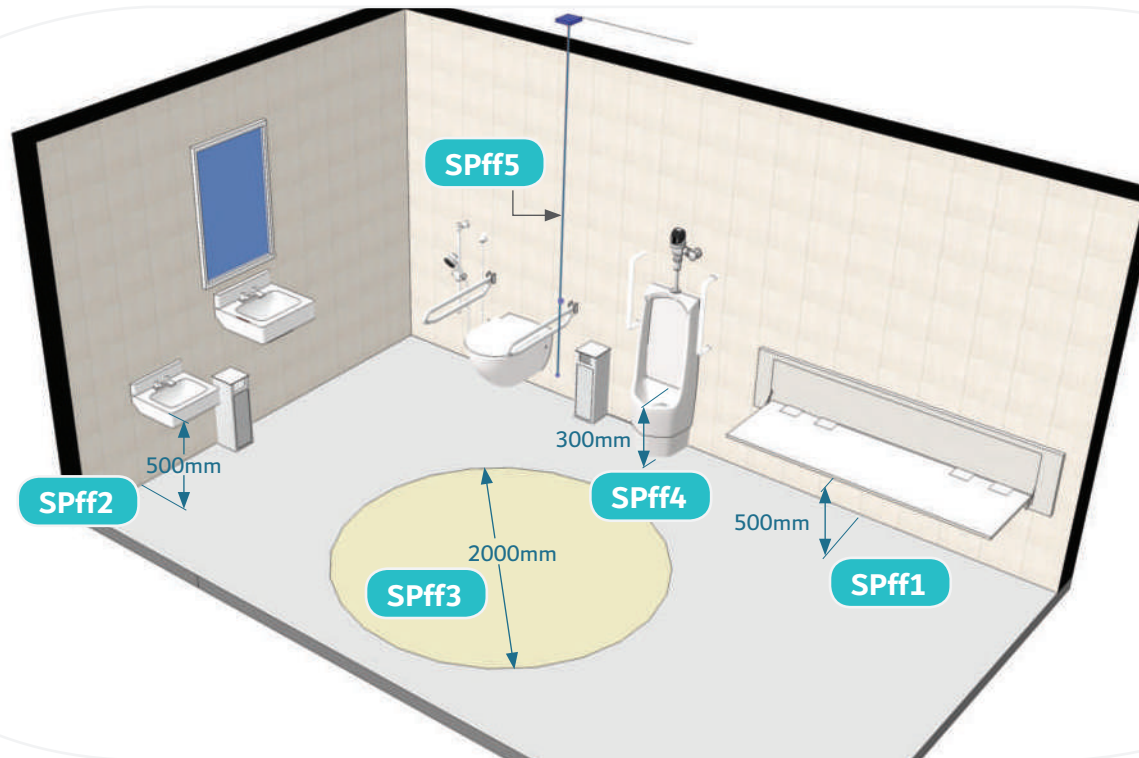




- SPsh4** Seat located at a height between 450 - 500mm and separated from the wall between 150 - 200mm
- SPsh5** Horizontal bar length 800mm mounted 700 - 750mm from the ground
- SPsh6** Two Vertical bars length of 800mm in the lateral wall of the shower seat mounted 800mm from the floor level
- SPsh7**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



SPsh8 Controls within 500mm away from the shower seat



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

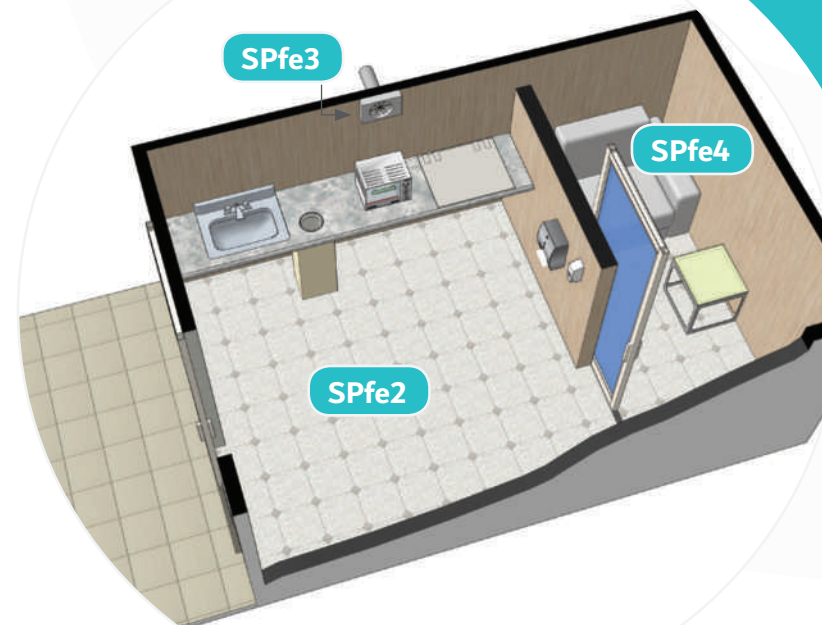
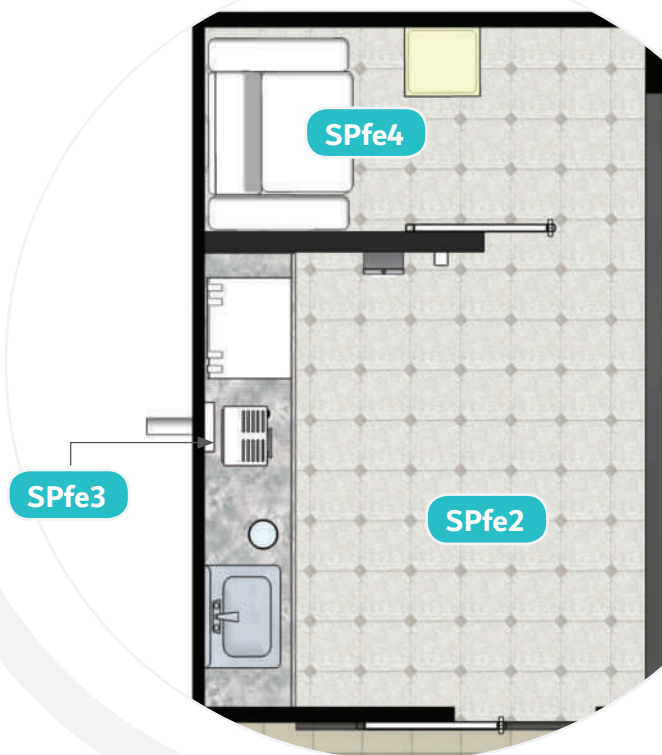
SPff4

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

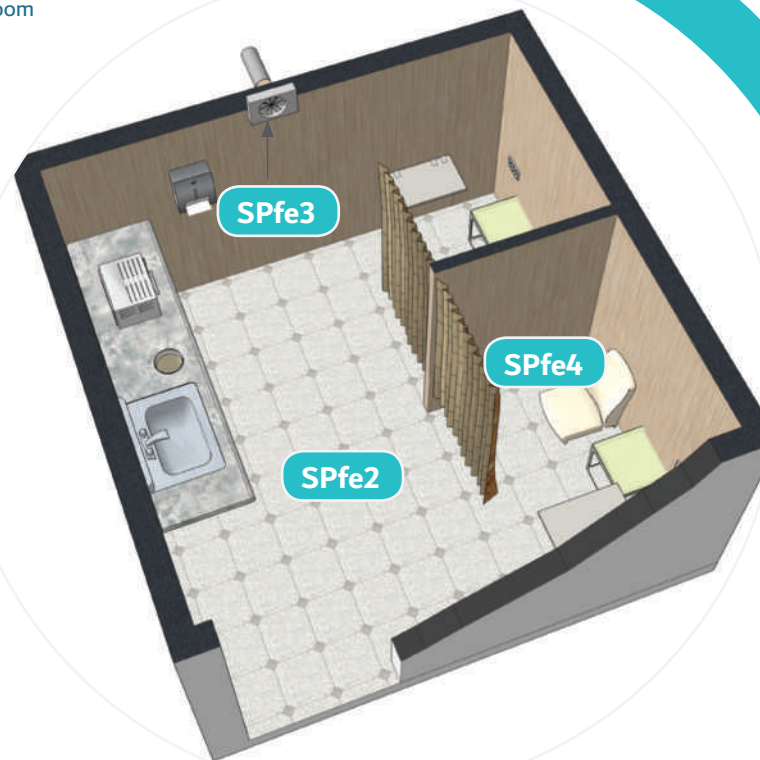
SPfe4

Furniture with reflectance contrast with the walls of ≥ 30 points LRV

SPfe2

Surface: ≥ 7 sq. meters for individual ≥ 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 ≥ 30 points LRV

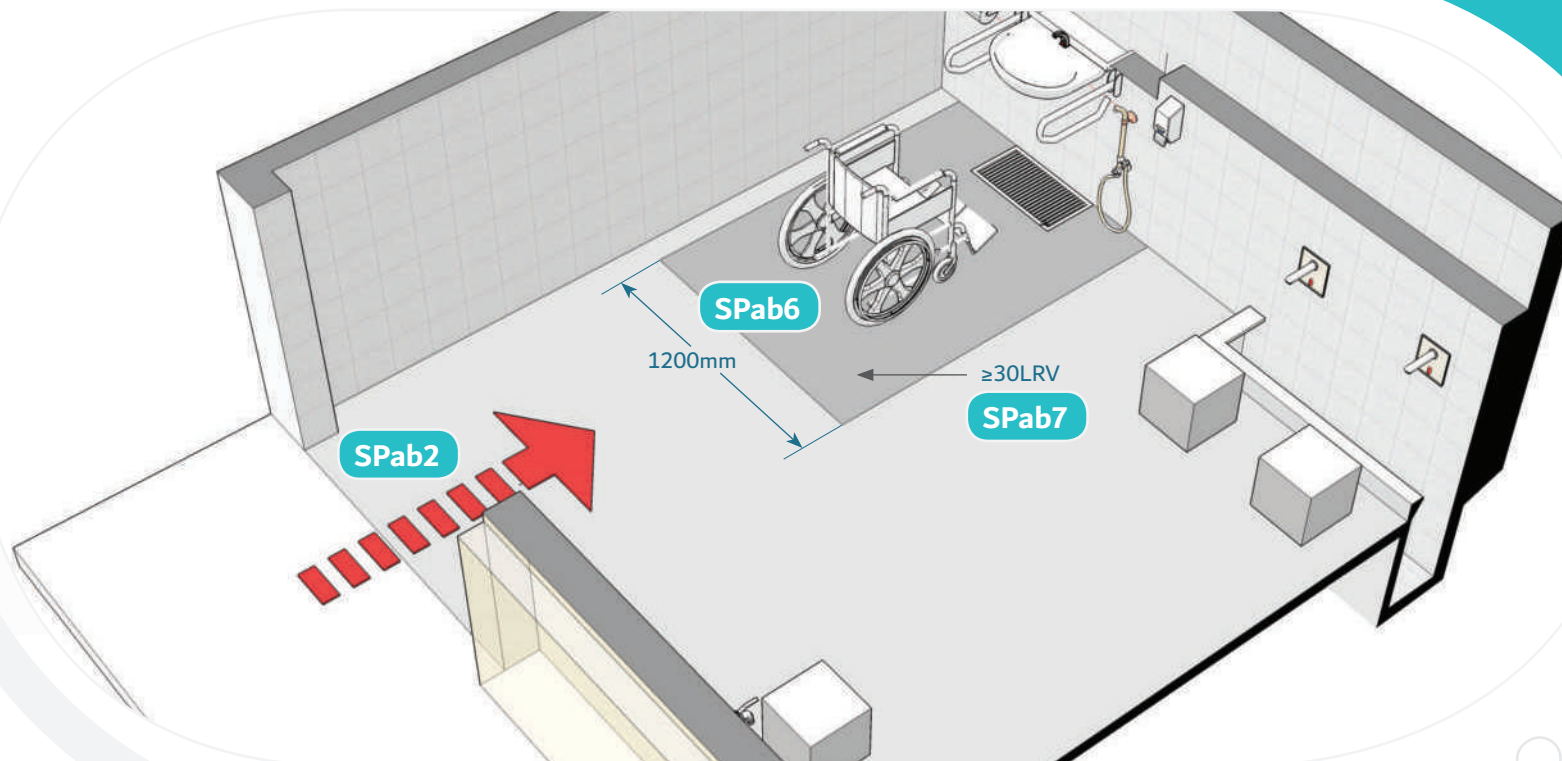
SPfe2

Surface: ≥ 7 sq. Meters for individual ≥ 10 sq. Meters for dual



SPab1

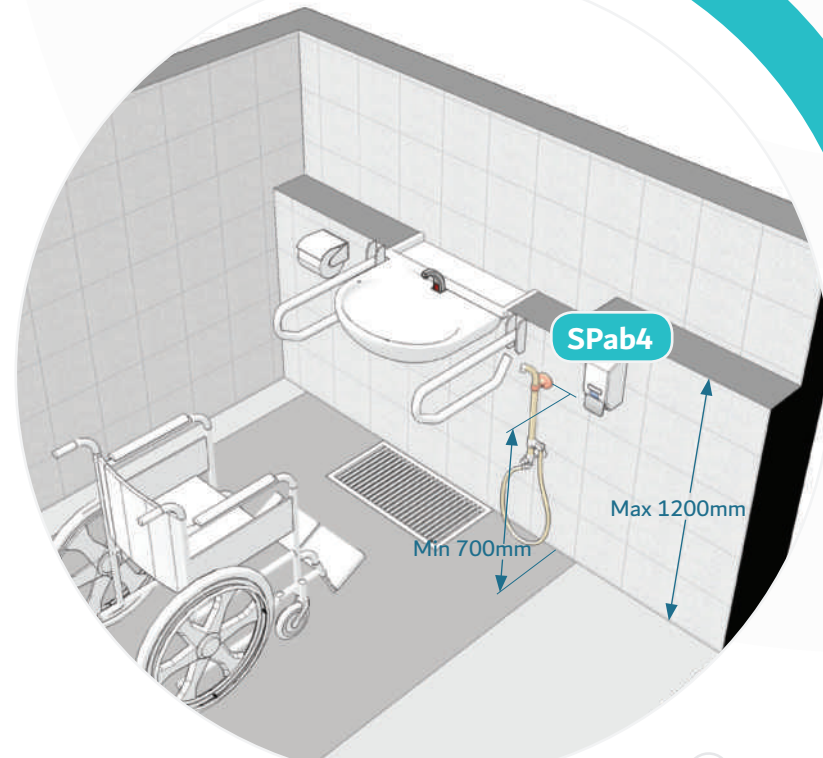
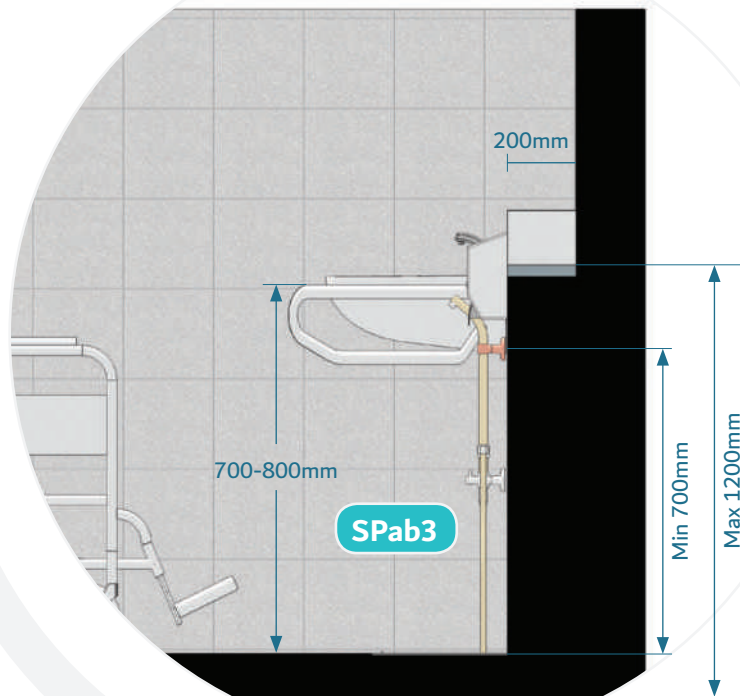
Electronic or sensor faucets



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

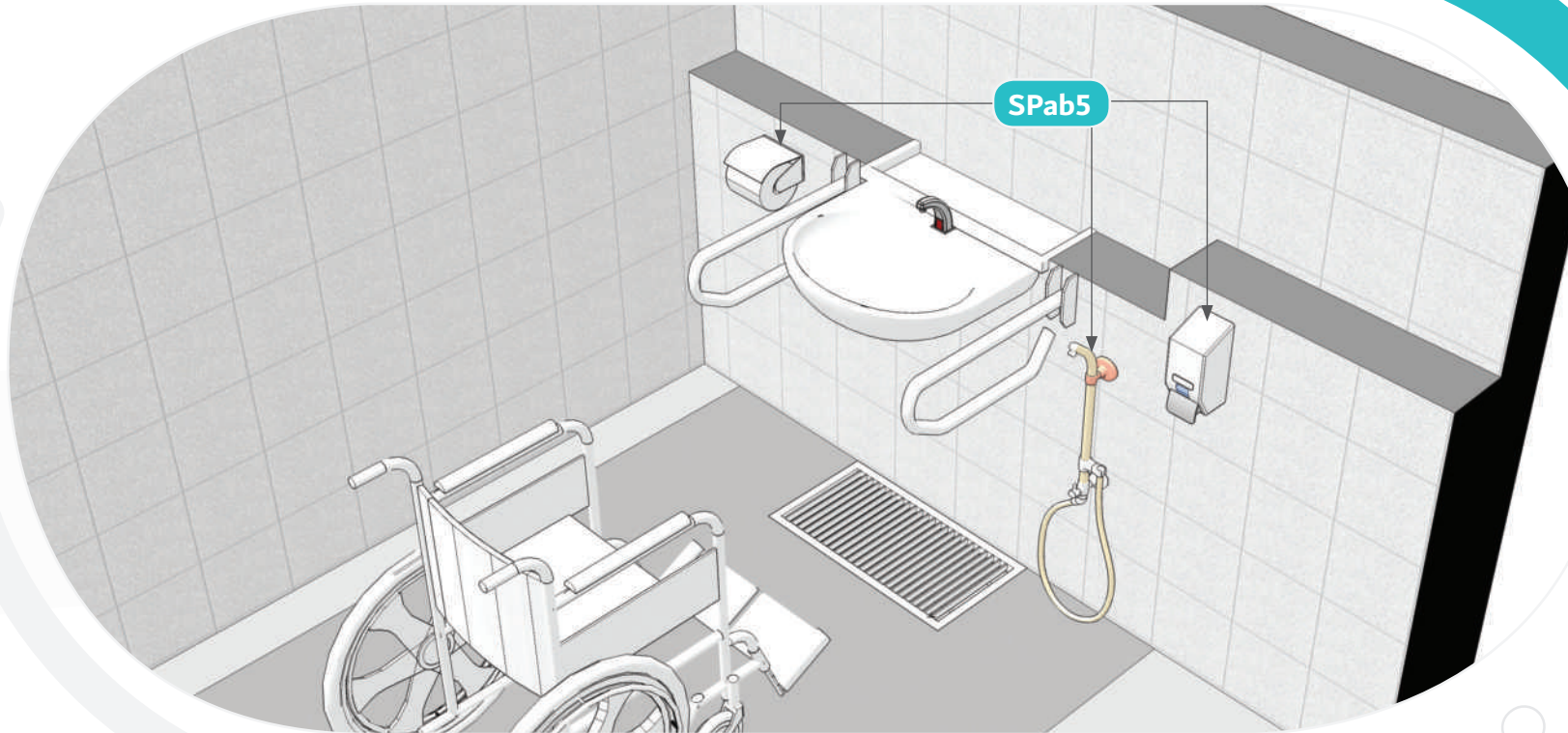
SPab6 Approaching free space of 1200mm

SPab7 The approaching free space with contrast ≥ 30 points LRV



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

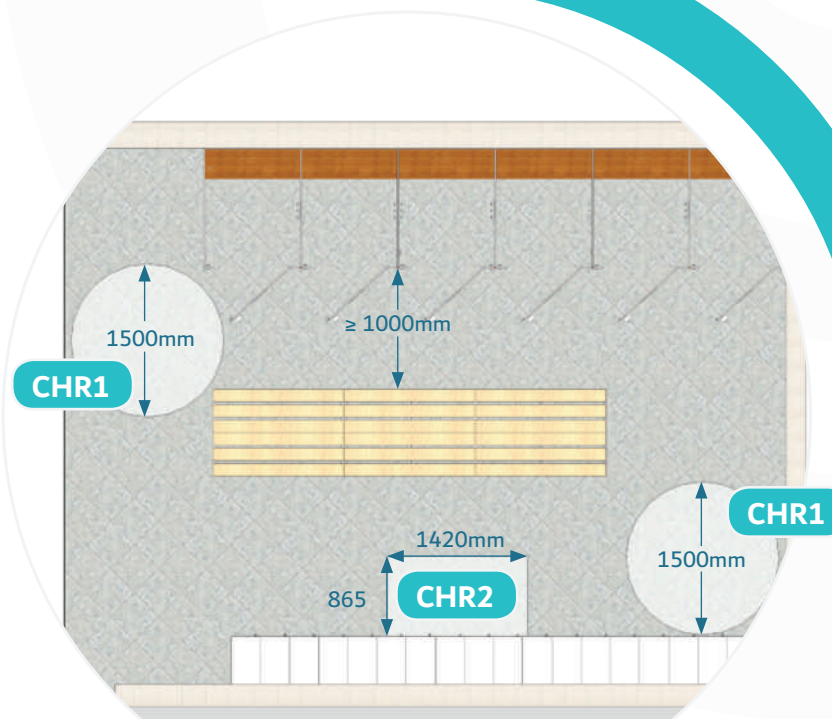
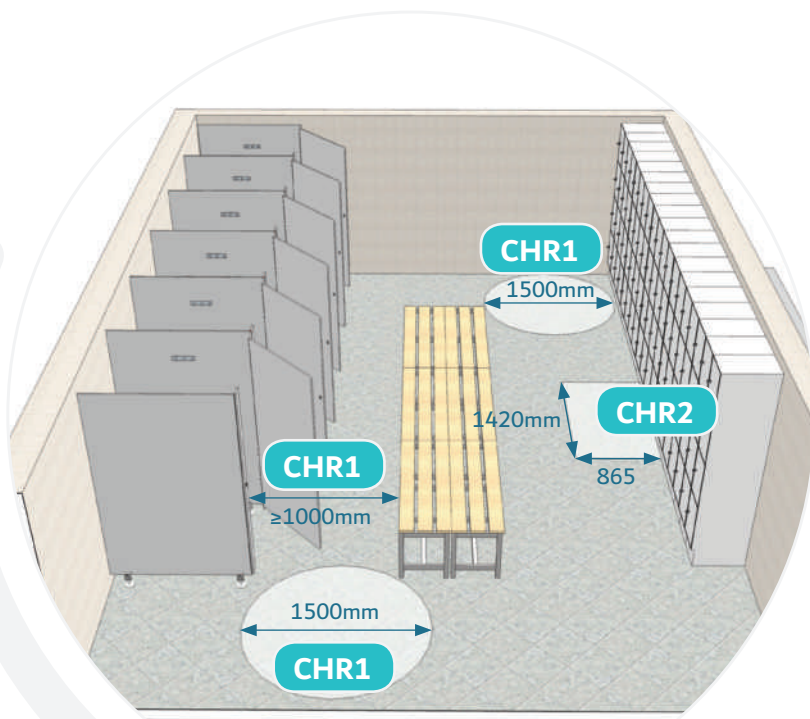
SPab4 All Accessories at a height between 700 - 1200mm



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

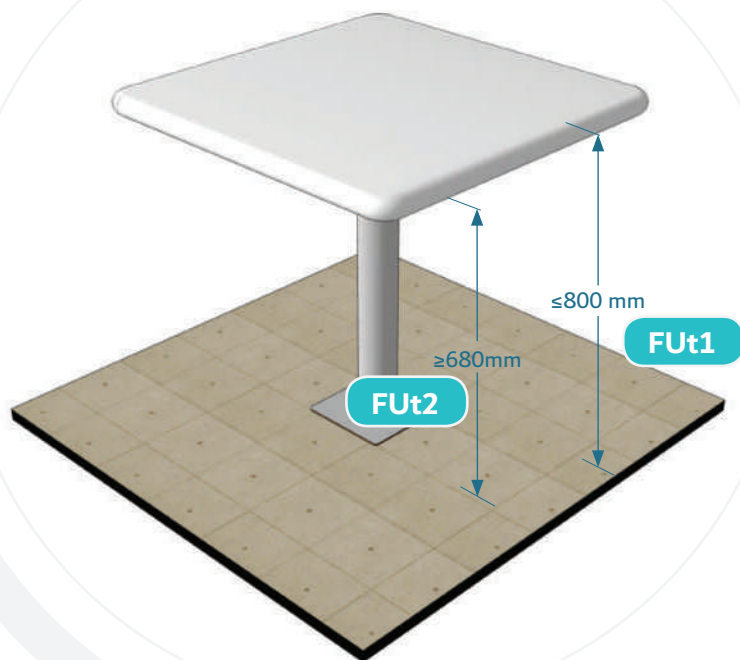
CHR2 Approaching space for lockers, benches and furniture 1420 x 865mm

CHR3 1 of 10 showers is accessible, if provided

CHR4 1 of 10 toilet is accessible, if provided

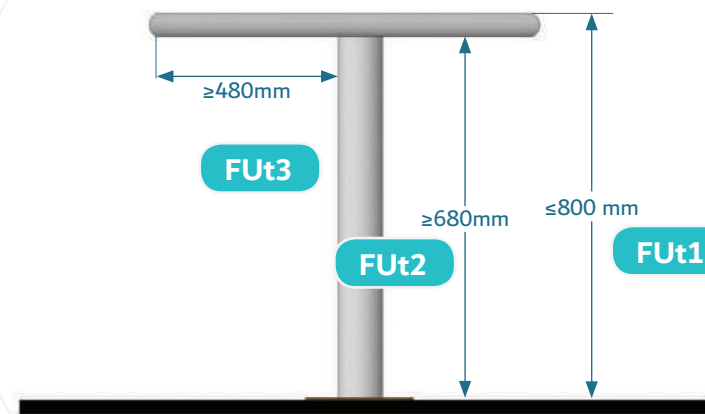
Furniture





FU1 Without sharp edges, protruding

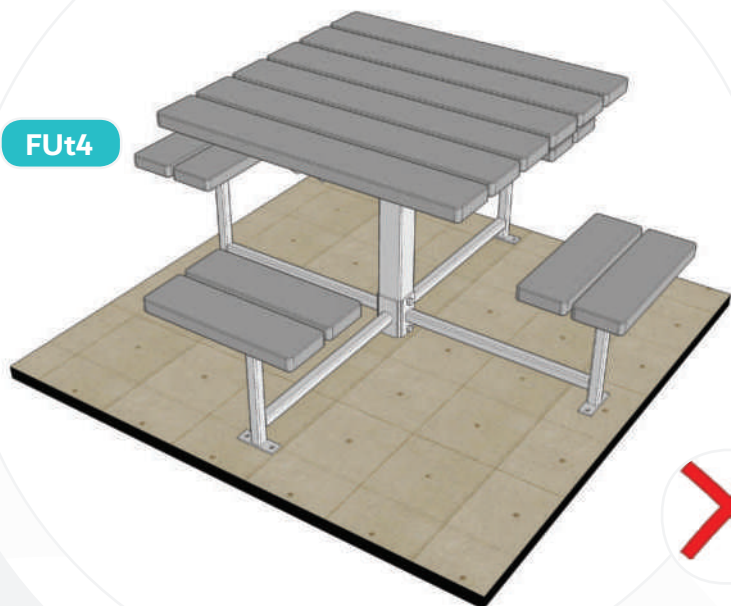
FUt2 Clearance height under the table $\geq 680 \text{ mm}$



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

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

FUt4

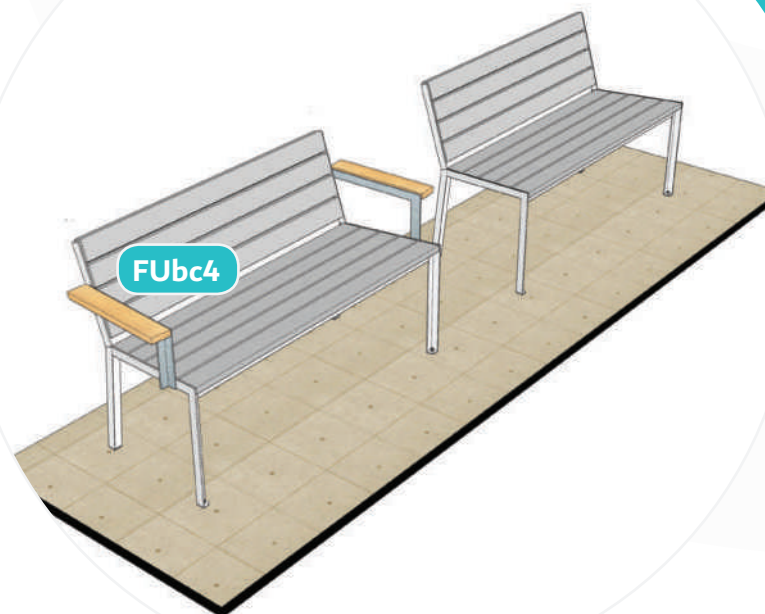
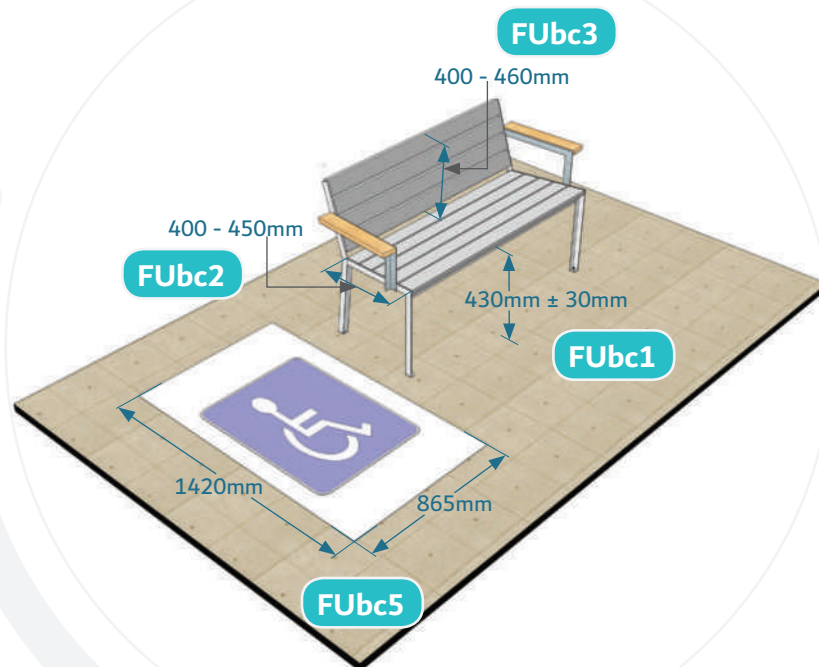


FU1

Without sharp edges, protruding

FUt4

Tables without integrated seats



FU1 Without sharp edges, protruding

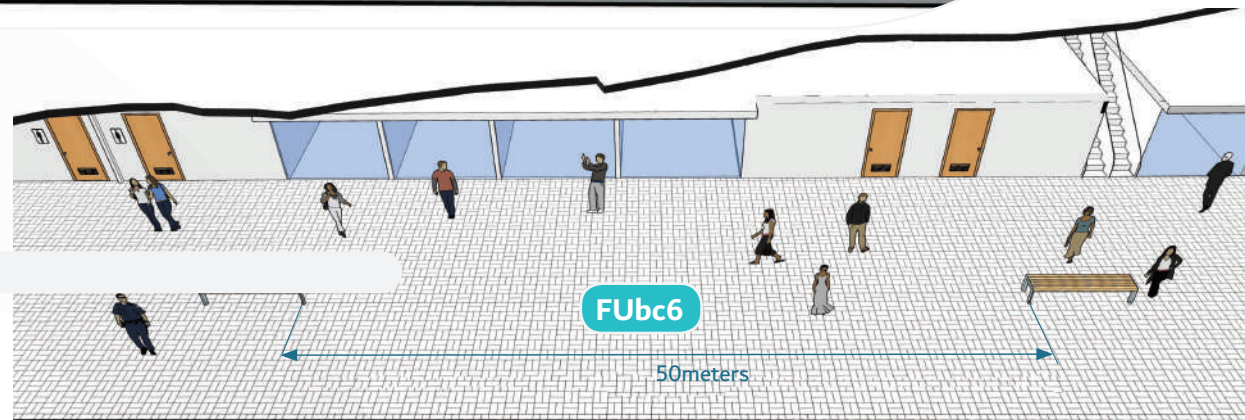
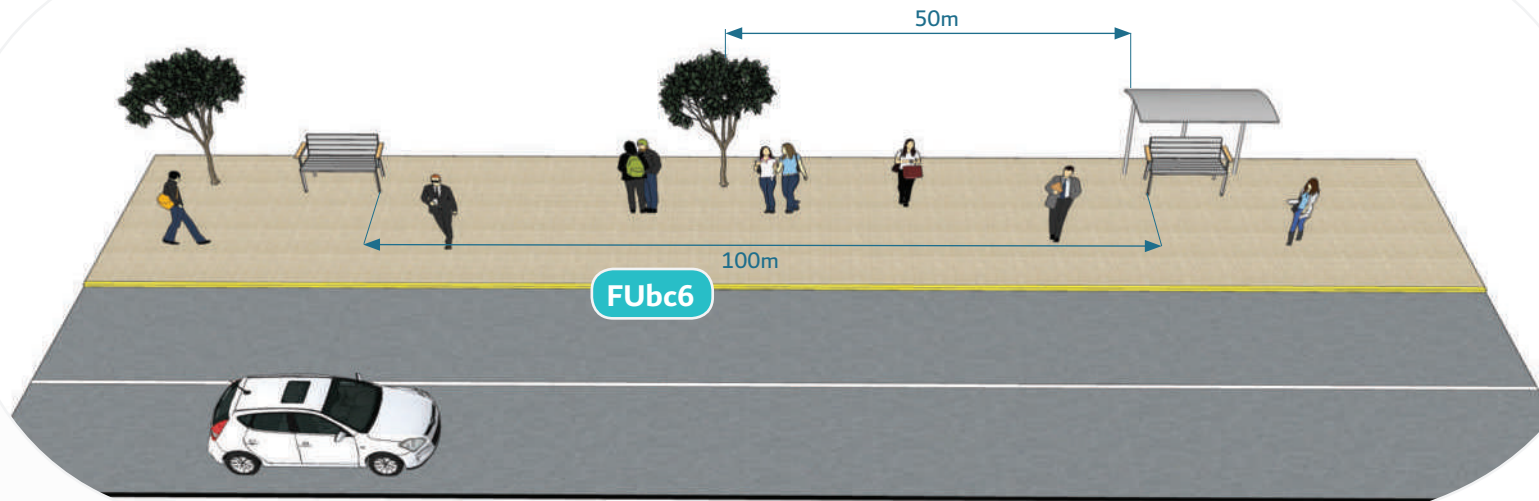
FUbc1 Seat height of 430mm with a ± 30 mm tolerance

FUbc2 Seat depth between 400 - 450mm

FUbc3 With backrest height between 400 - 460mm

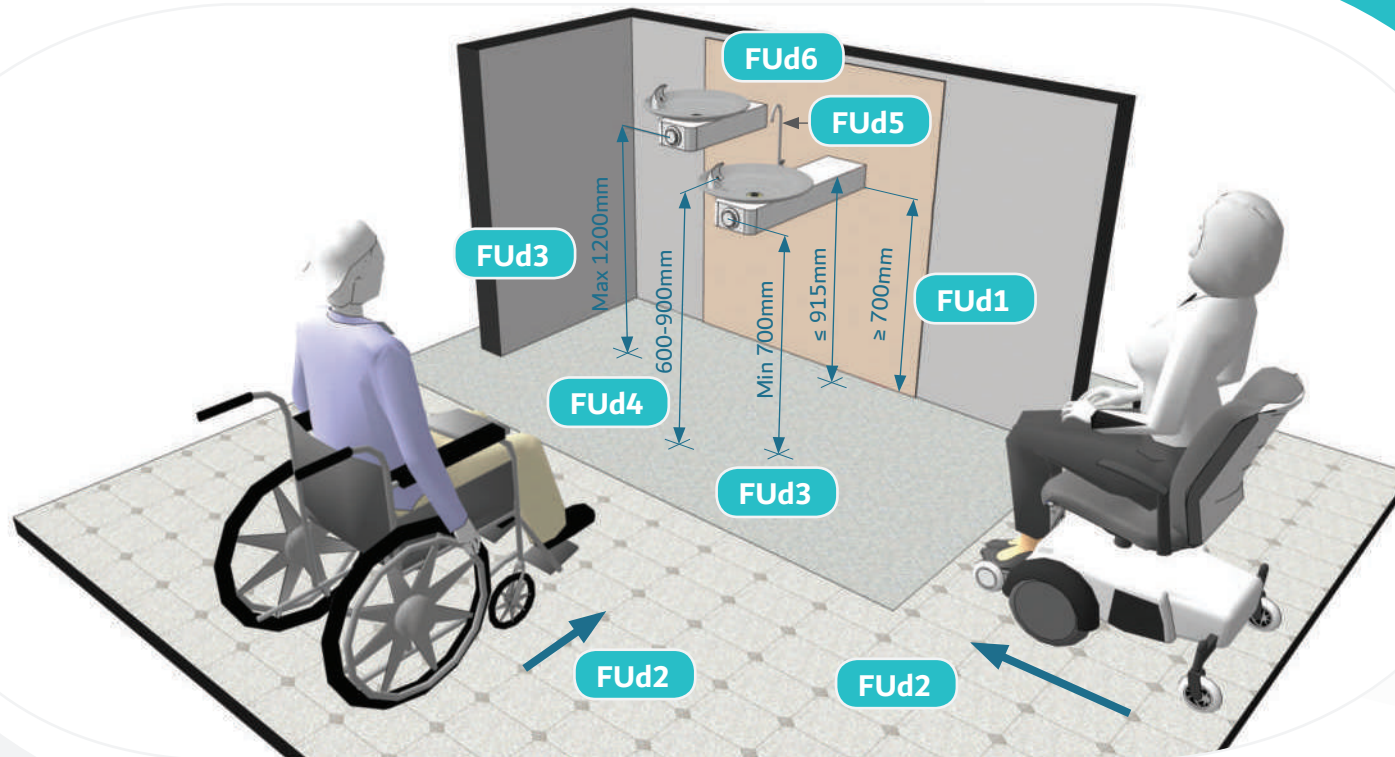
FUbc4 Some seats with armrests

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

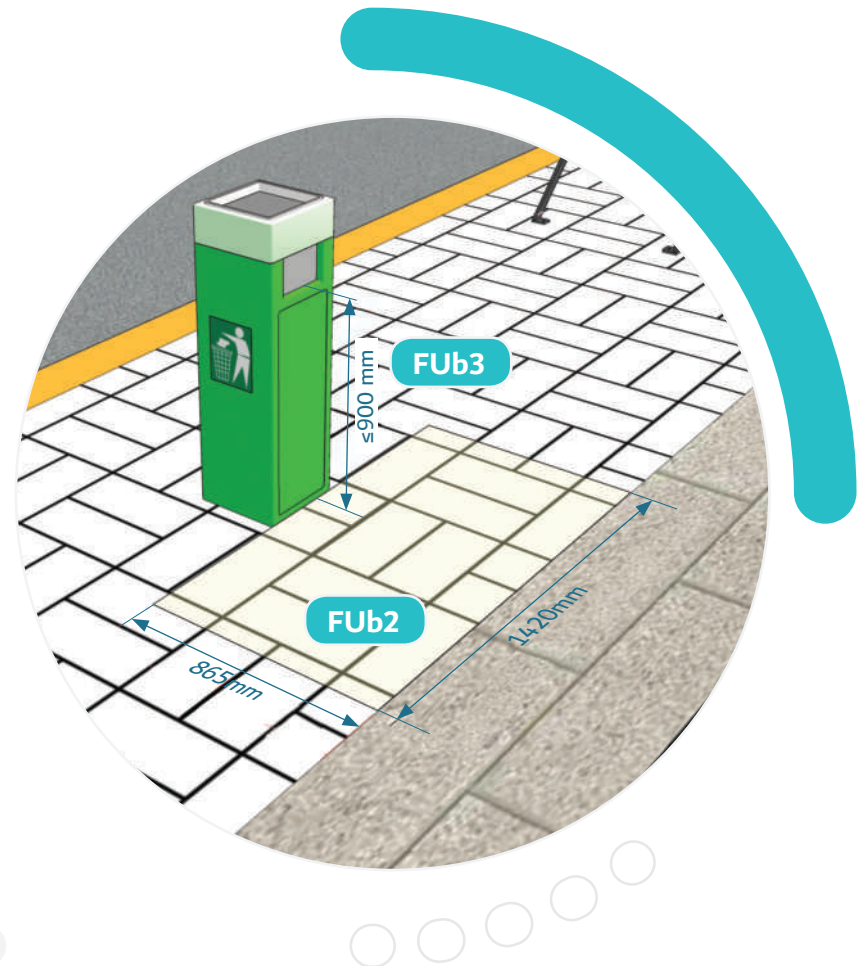
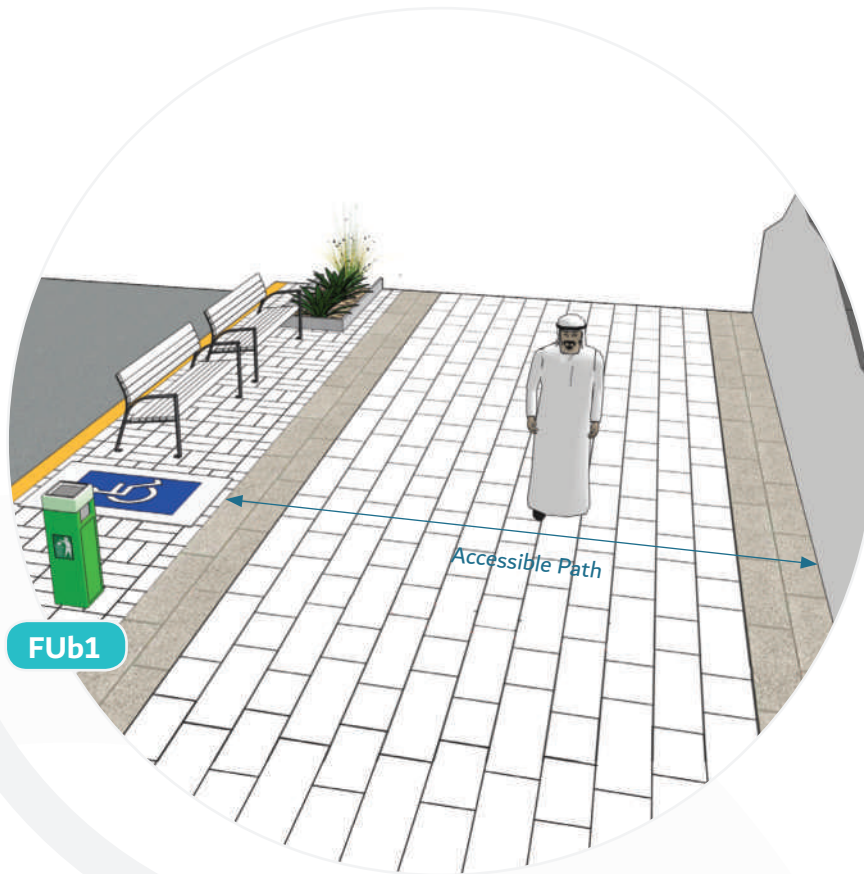
FUd2 Comfortable frontal and lateral approach

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

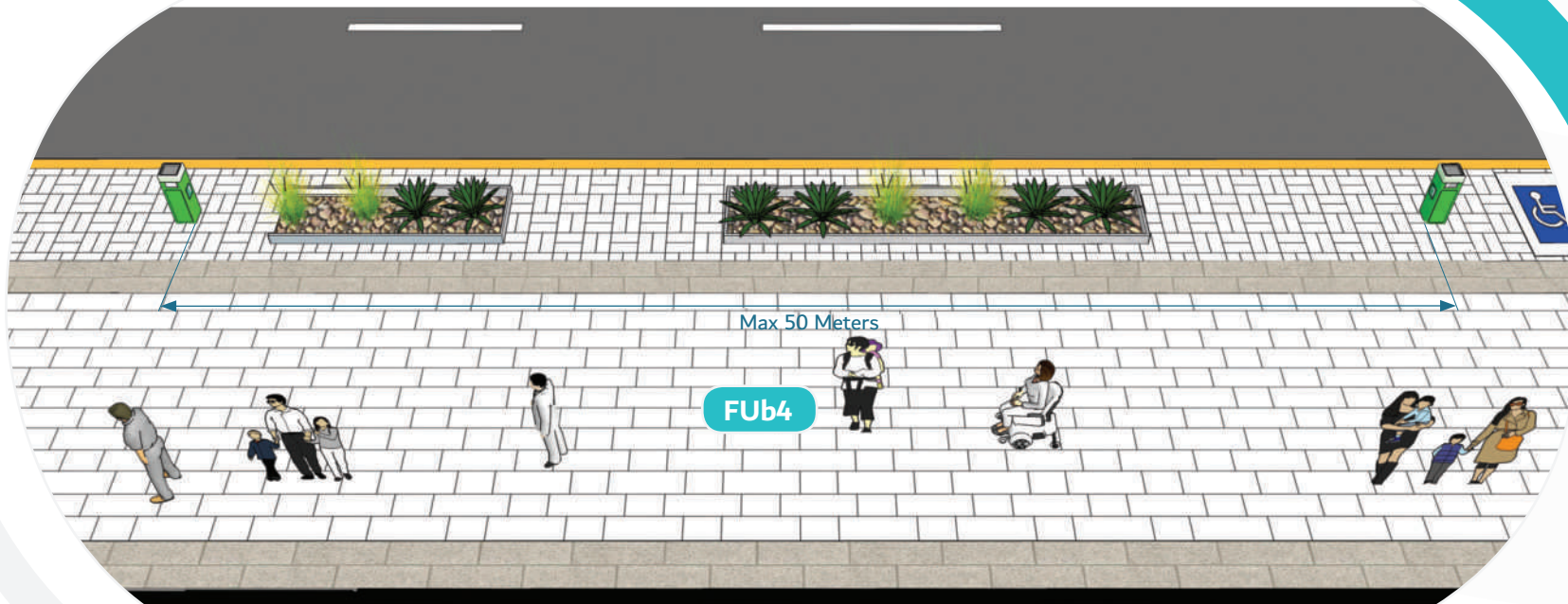
FUd6 Clearly visible with contrasting background

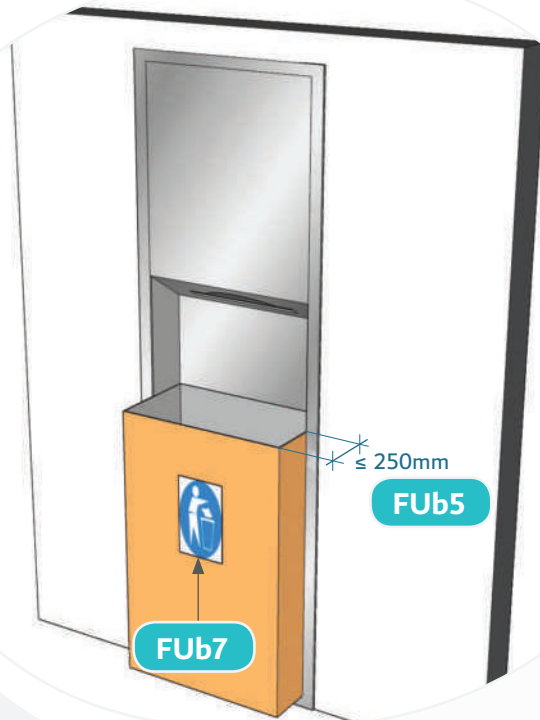


FUb1 Not located in the accessible path

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

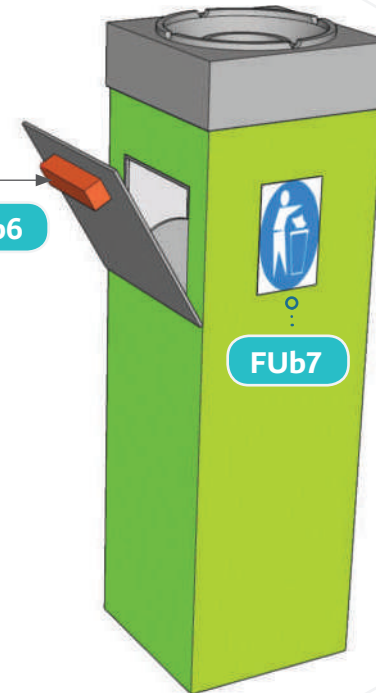
FUb2 Lateral space of interaction of at least $865 \times 1420\text{mm}$





Push Button

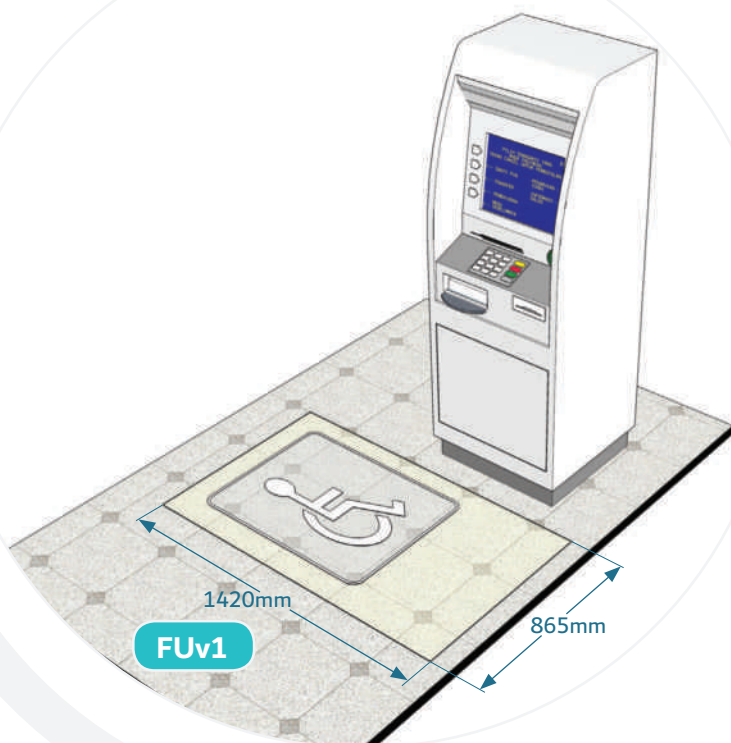
FUb6



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

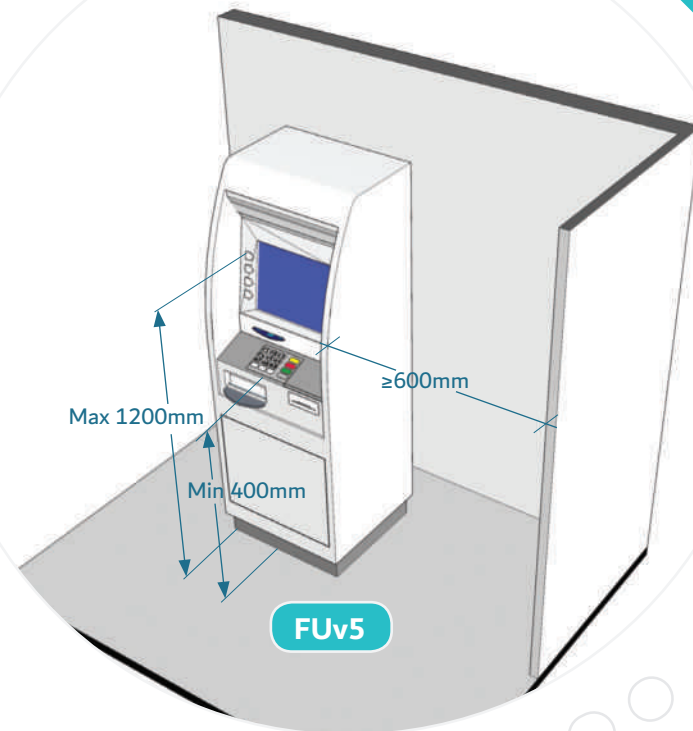
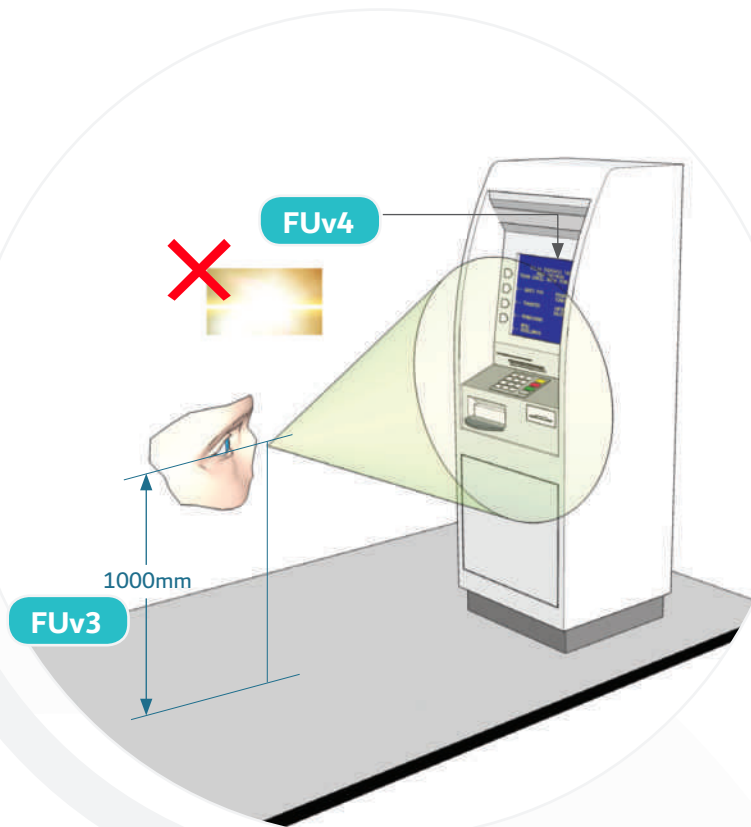
FUb6 Operable with an elbow if opening mechanism is provided

FUb7 Well contrasted signage



FUv1 One frontal or lateral interaction space 865 - 1420mm

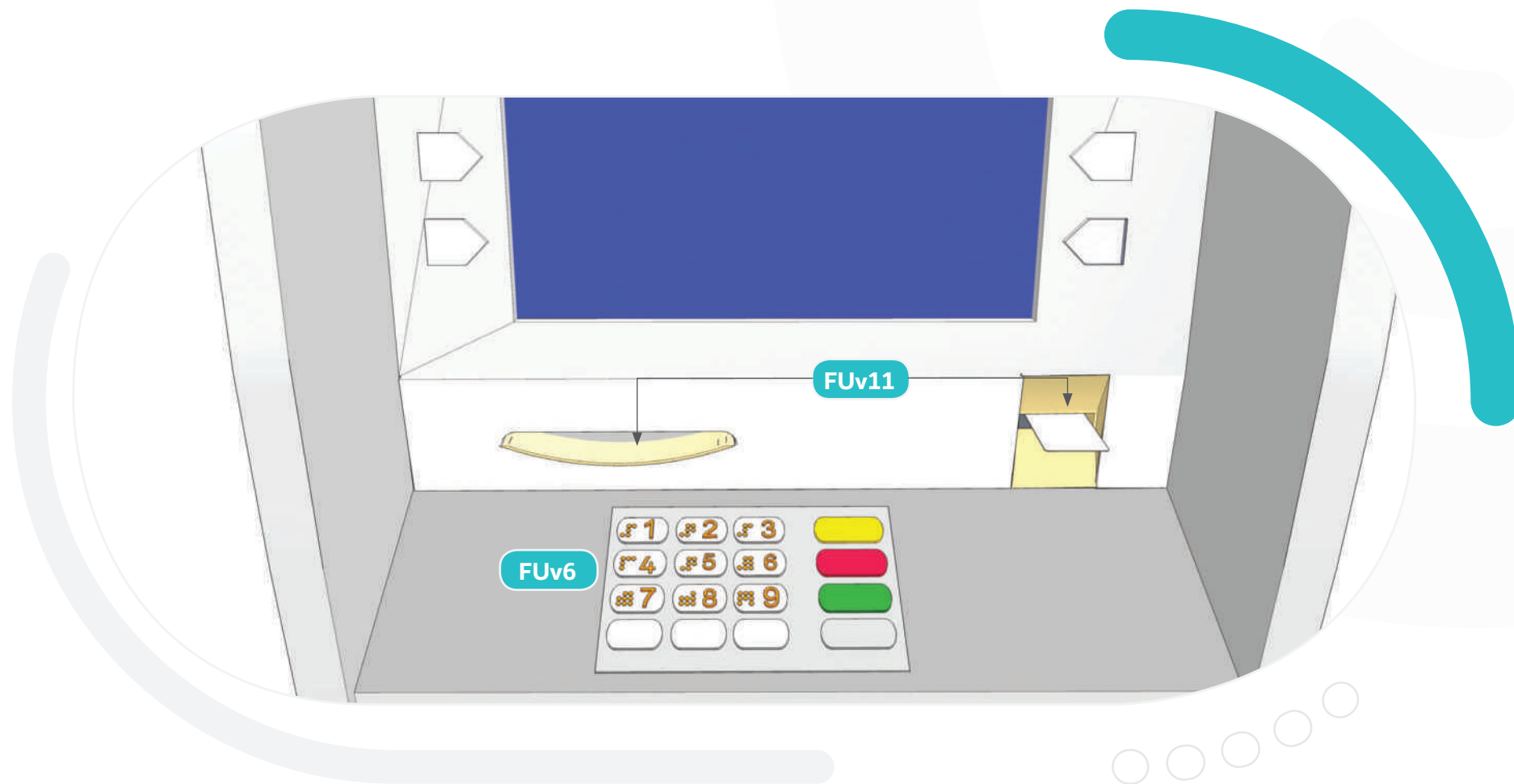
FUv2 Floor surface is smooth, non-slippery with a gradient $\leq 2\%$



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

FUv4 Screen and keyboard with no reflection or glare

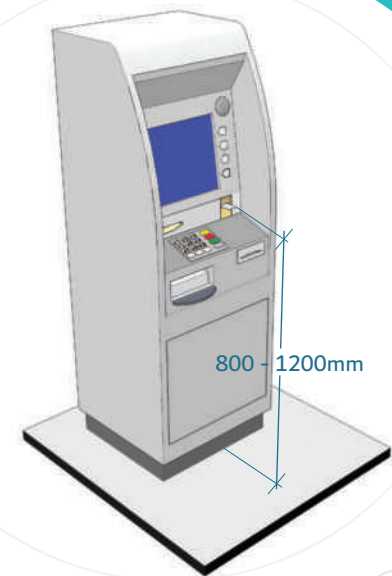
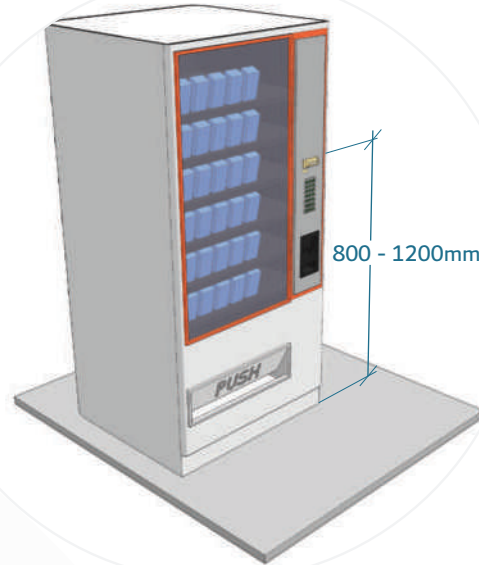
FUv5 Control buttons height between 400 - 1200mm and ≥ 600 mm from any corner if exist



FUv6 Control buttons with high embossed text and braille

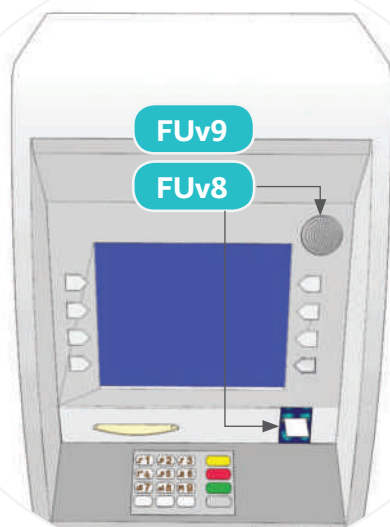
FUv11 Slots are wide and have a funnel effect

FUv7



FUv7

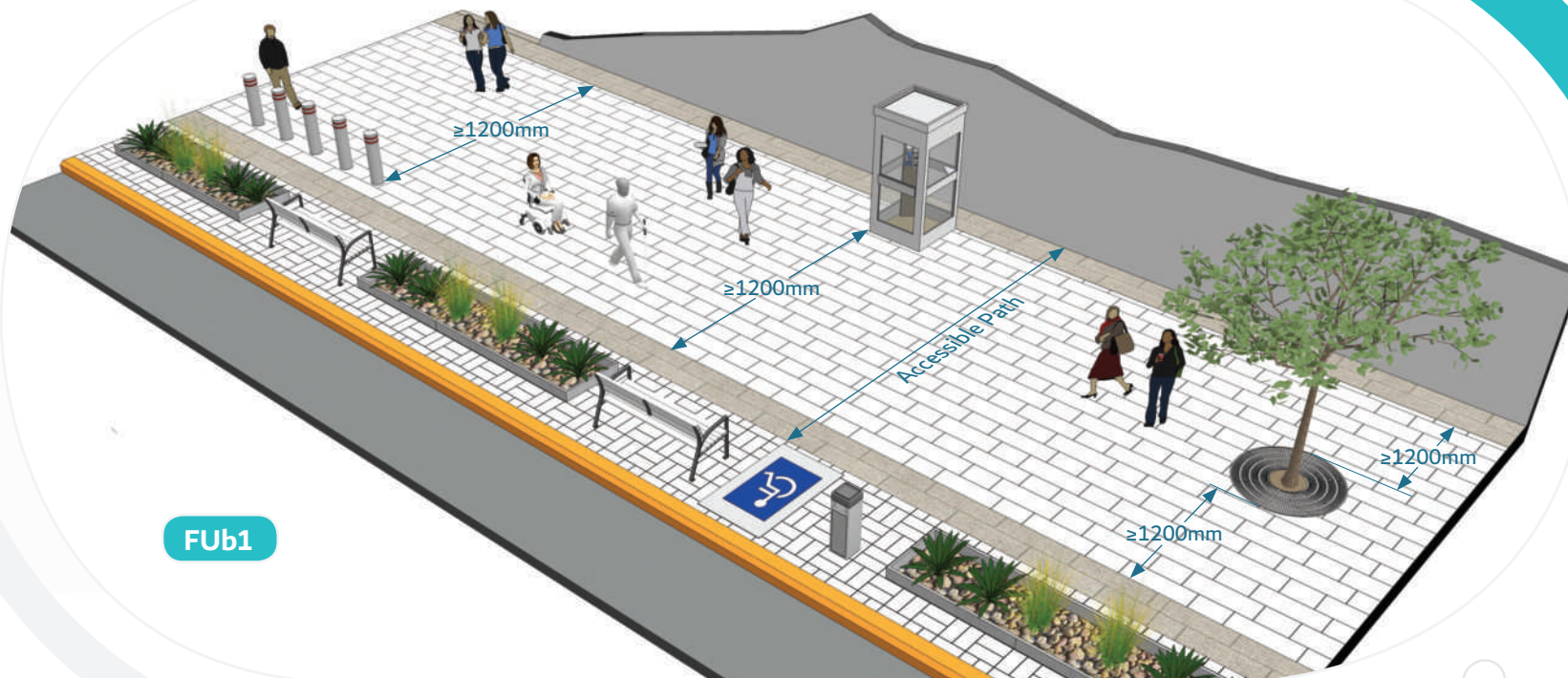
Card slot height between 800 - 1200 mm



FUv8 Visual and acoustic indication system and alarm system provided

FUv9 Audio information provided

FUv10 CCTV intercom provided



FUb1

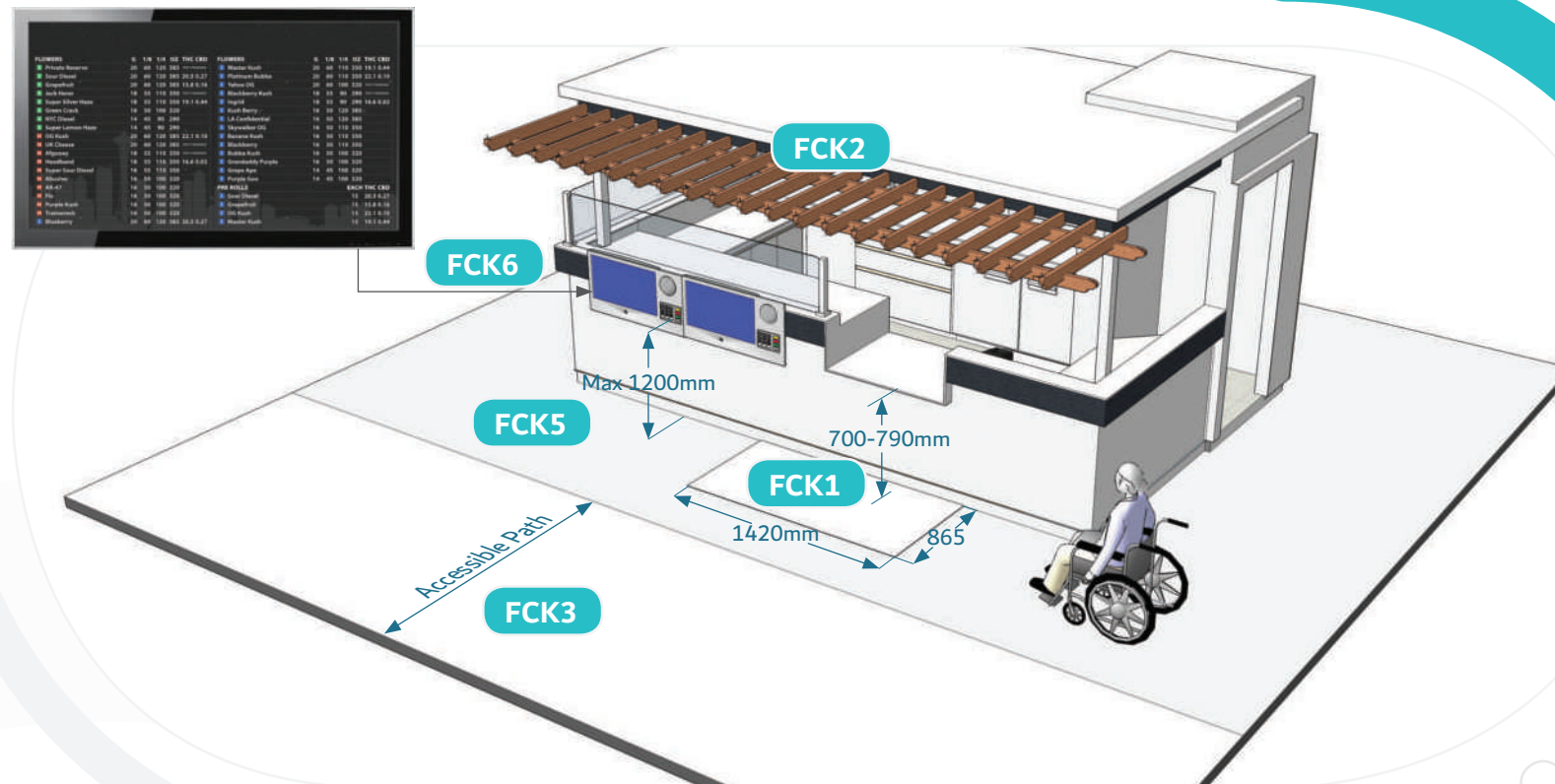
FUB1 Outside the accessible path or do not reduce accessible path $\leq 1200\text{mm}$

FUB1 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

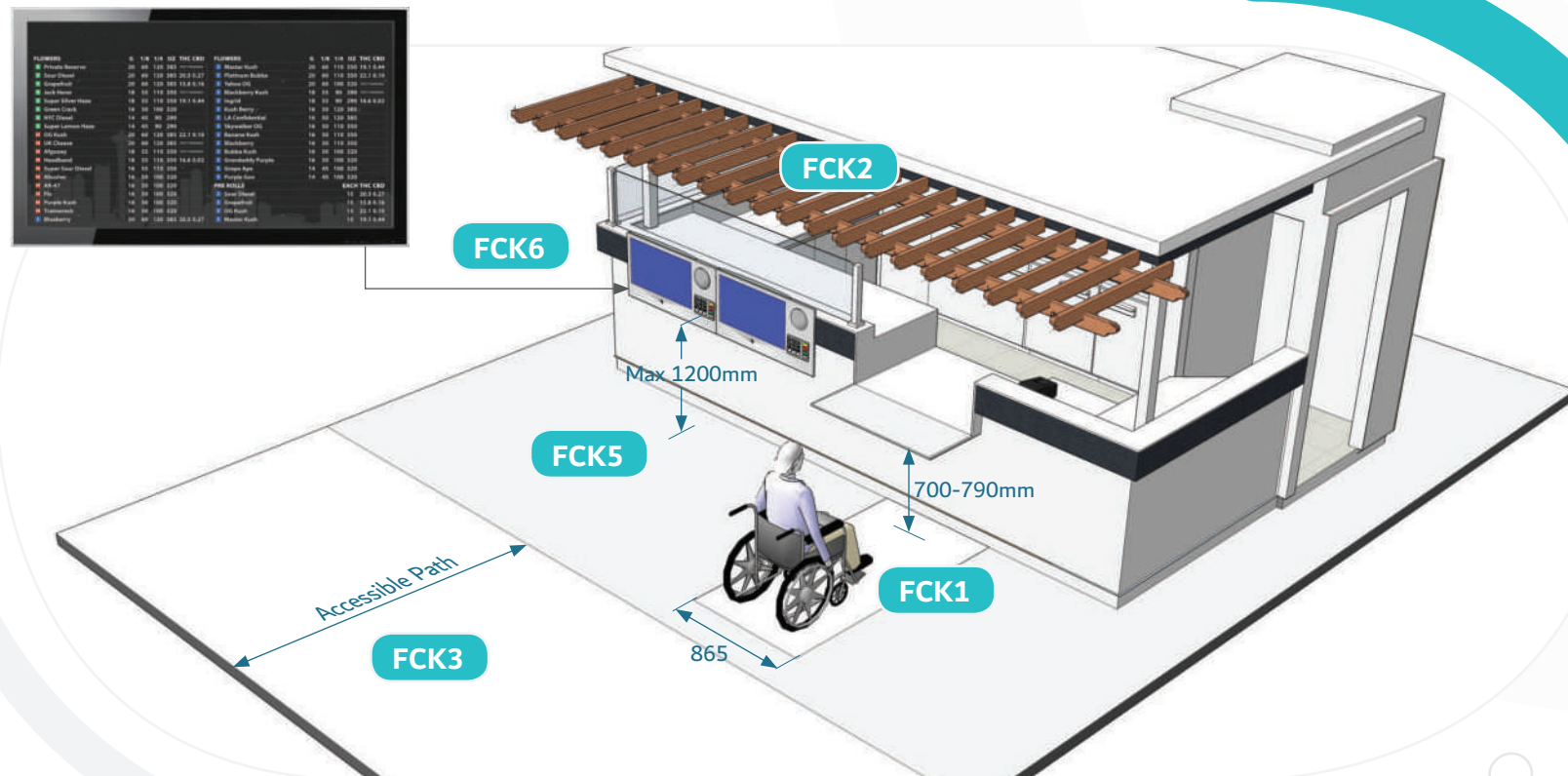
FCK2 With pergola in the front side for outdoor

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

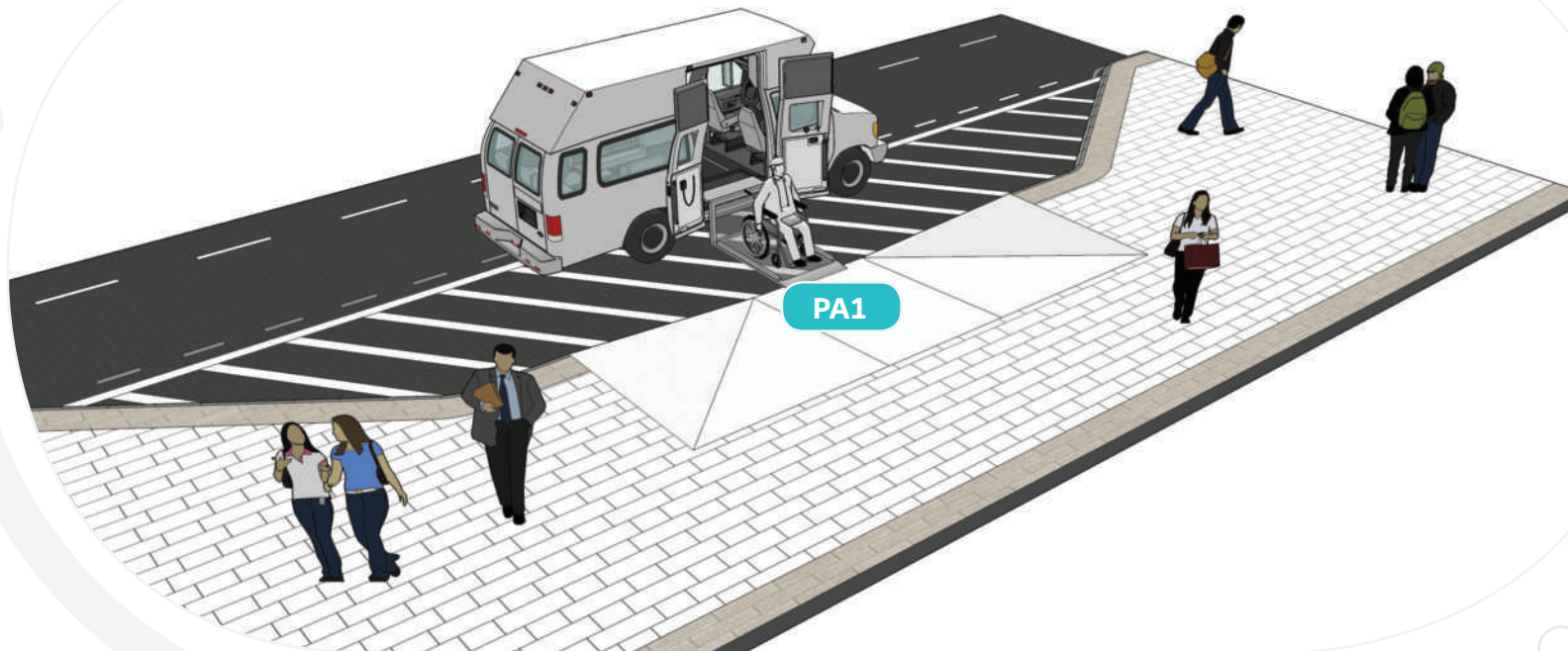
Controls at height of 1200mm

FCK6

Audio and Visual information provided

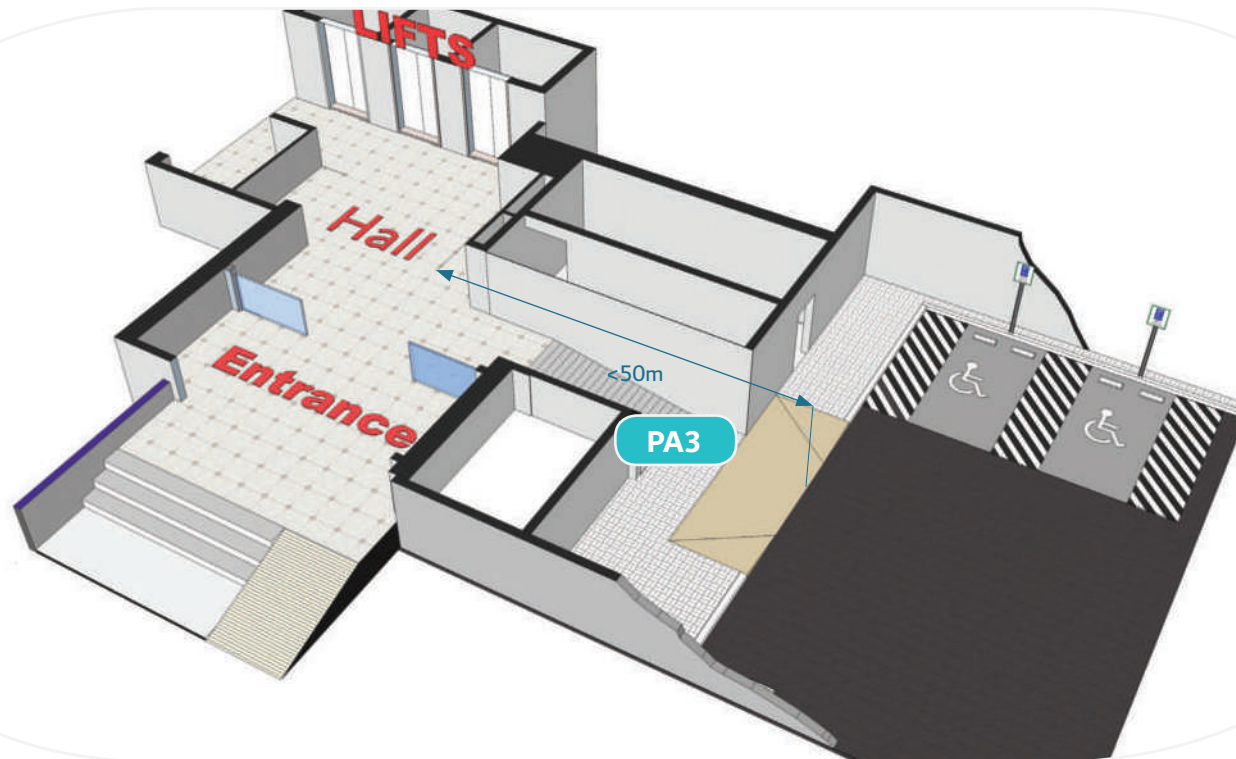
**Parking and
drop off point**





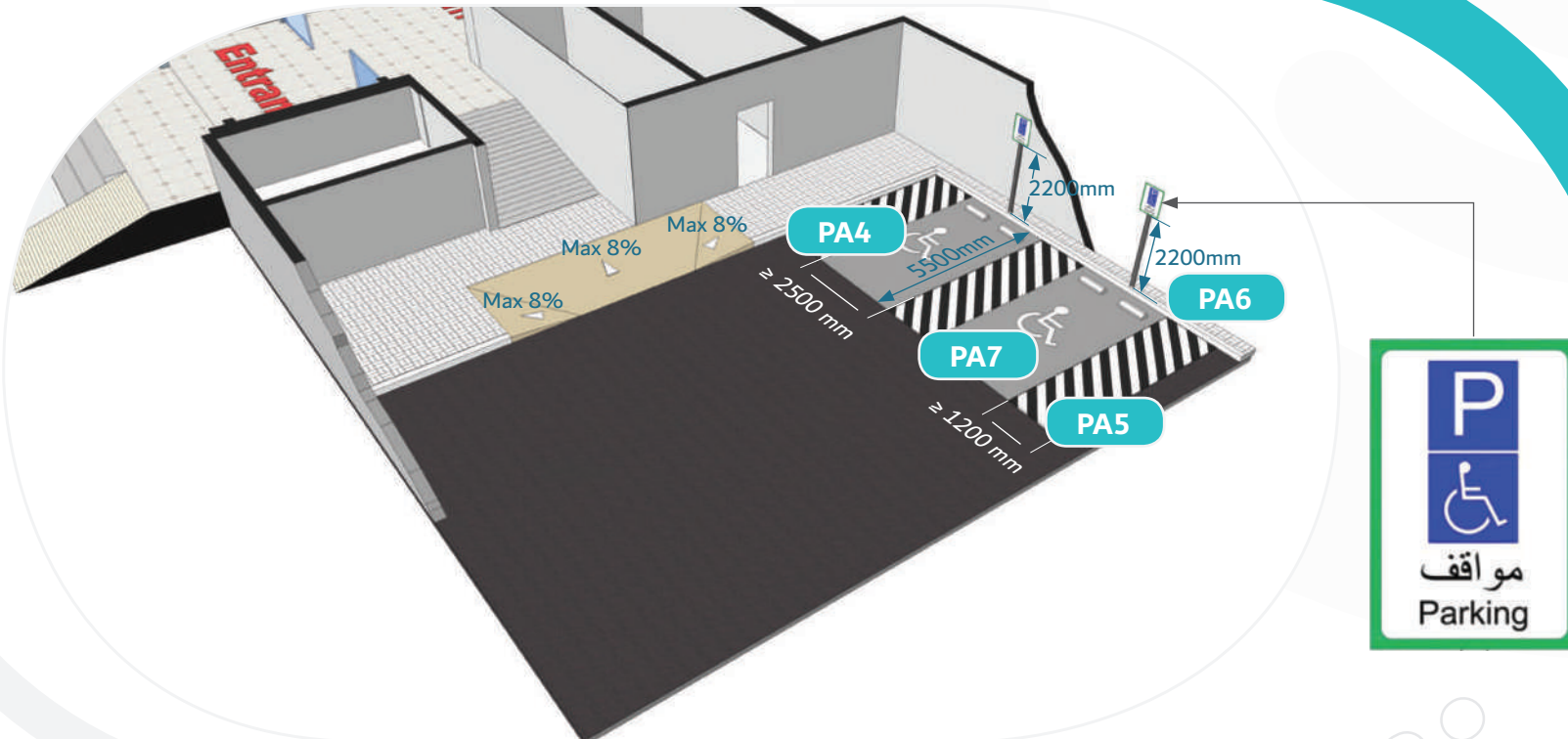
PA1

Pick up & 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

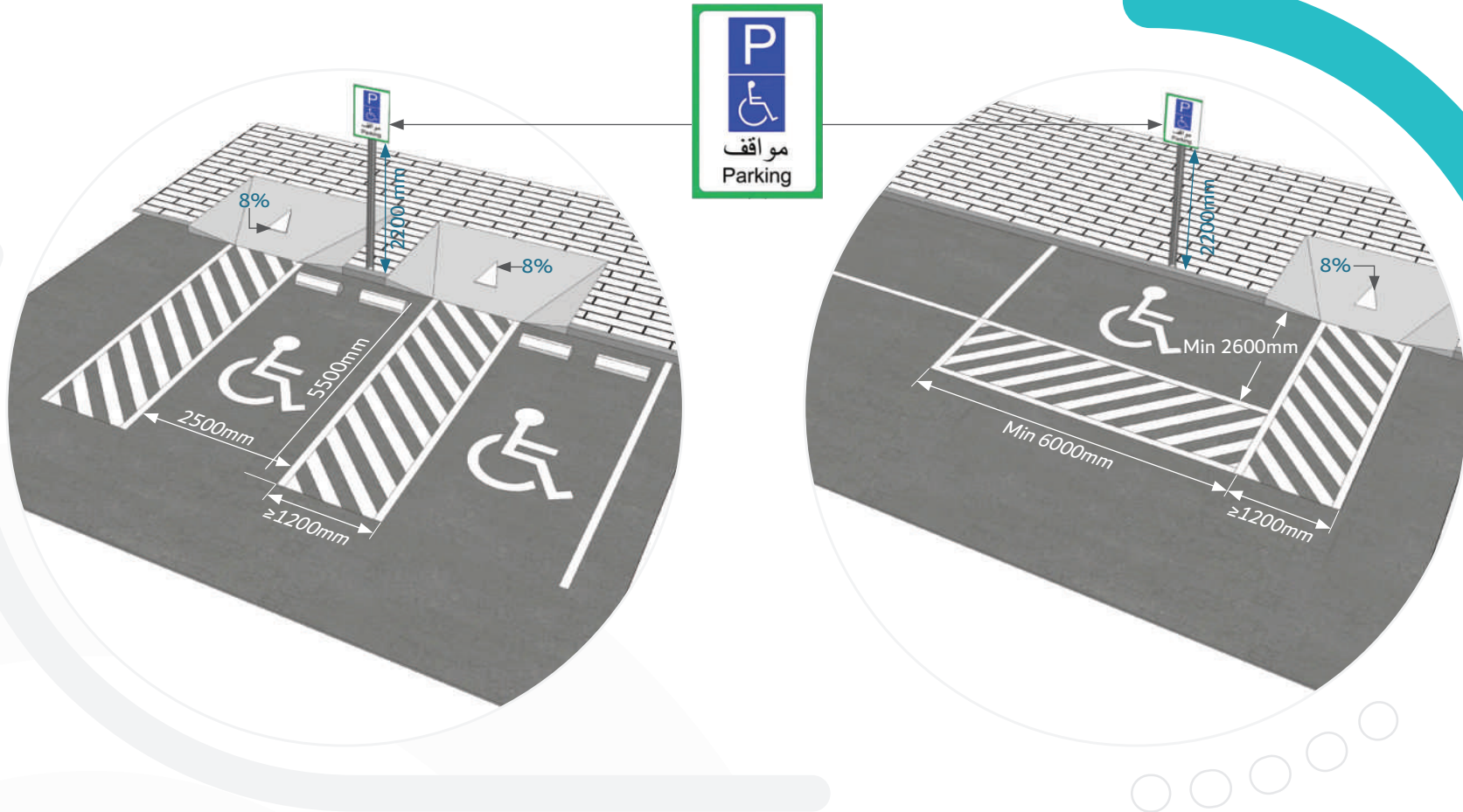
With lateral access aisle $\geq 1200\text{mm}$

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

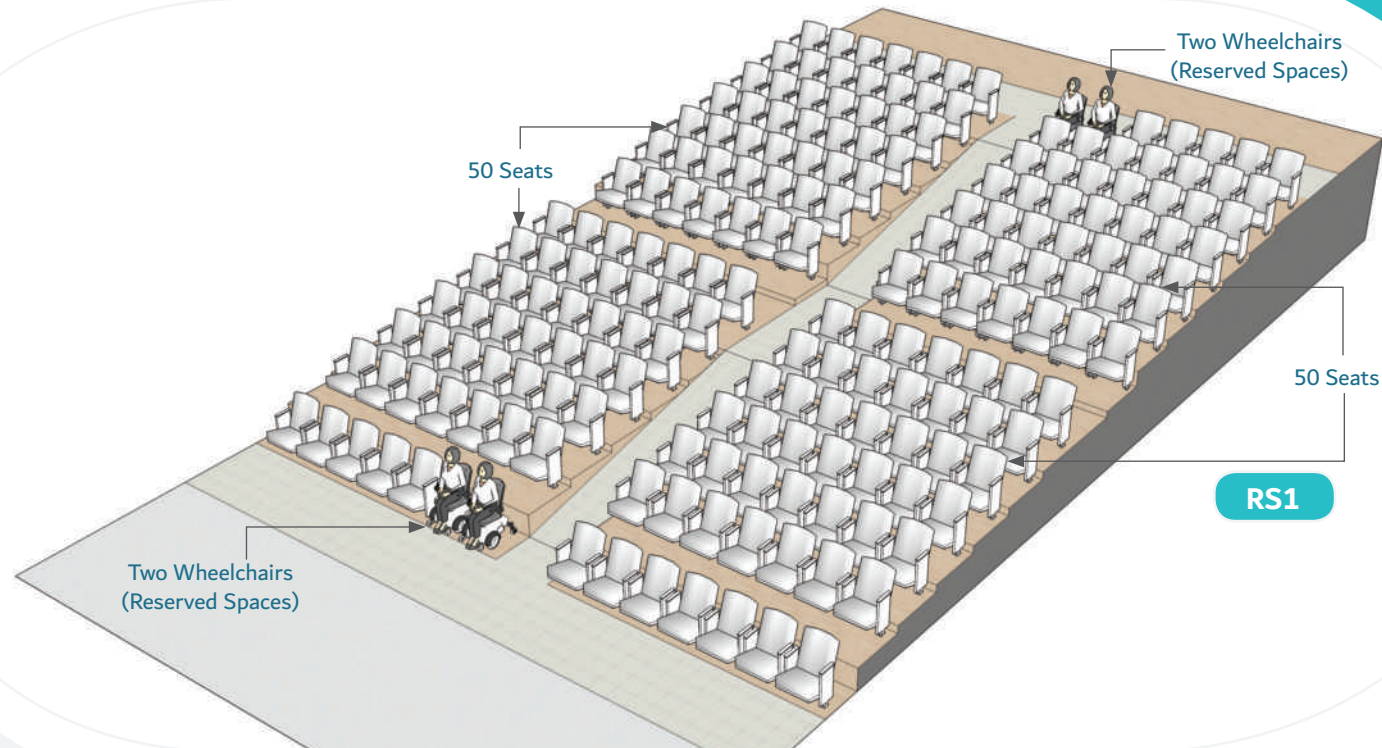
Marked with international symbols

PA8

Curb cut with maximum 8% slope

Reserved Seating Spaces



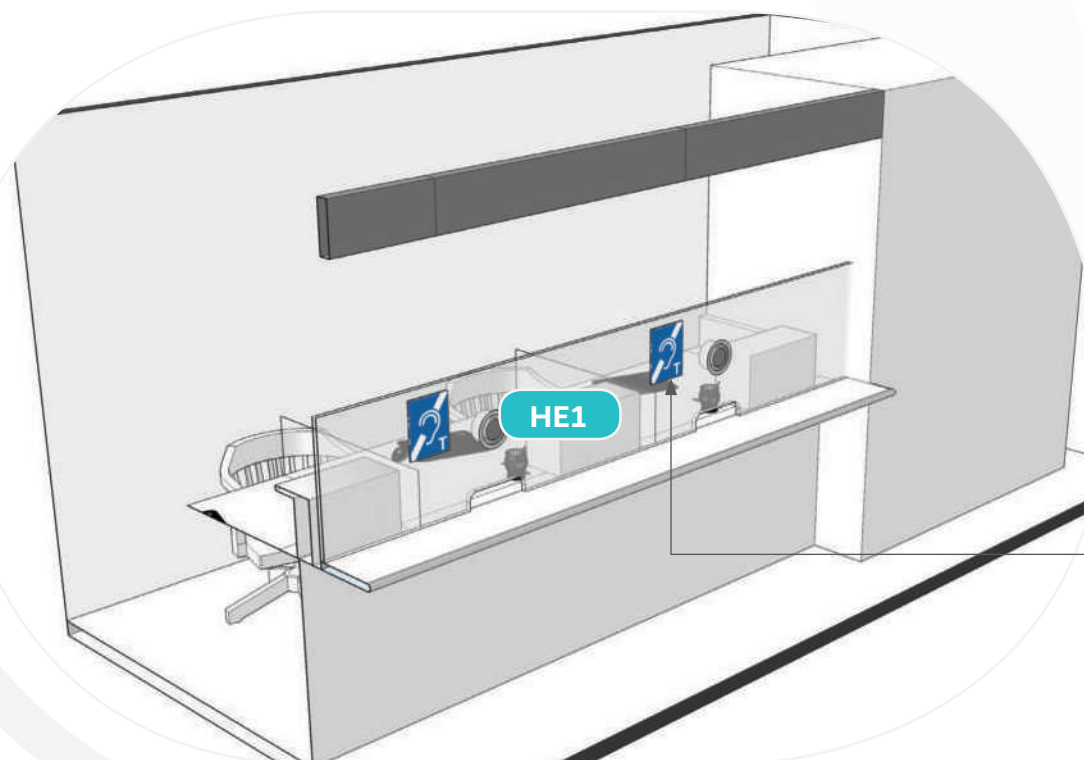


RS1

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

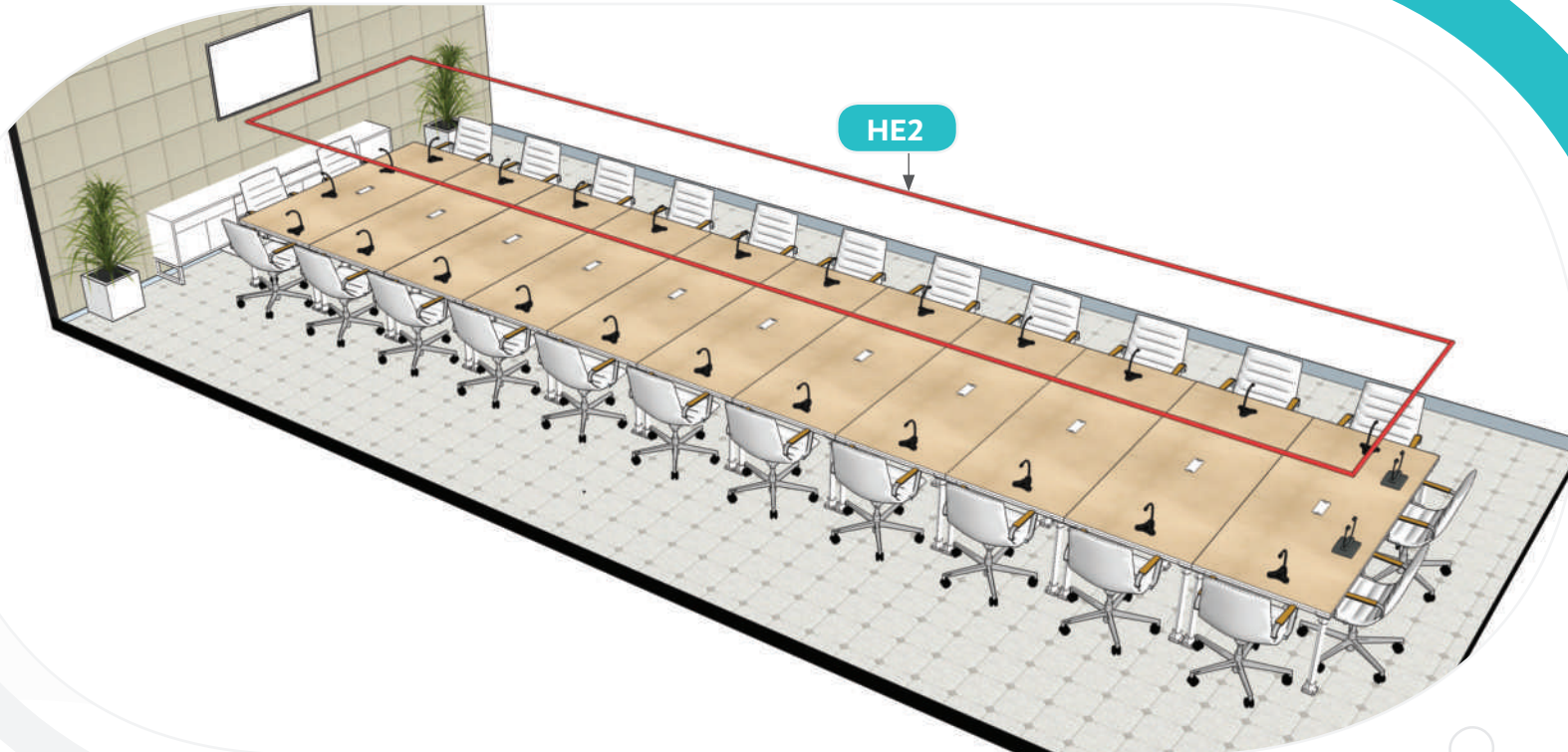




HE6

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

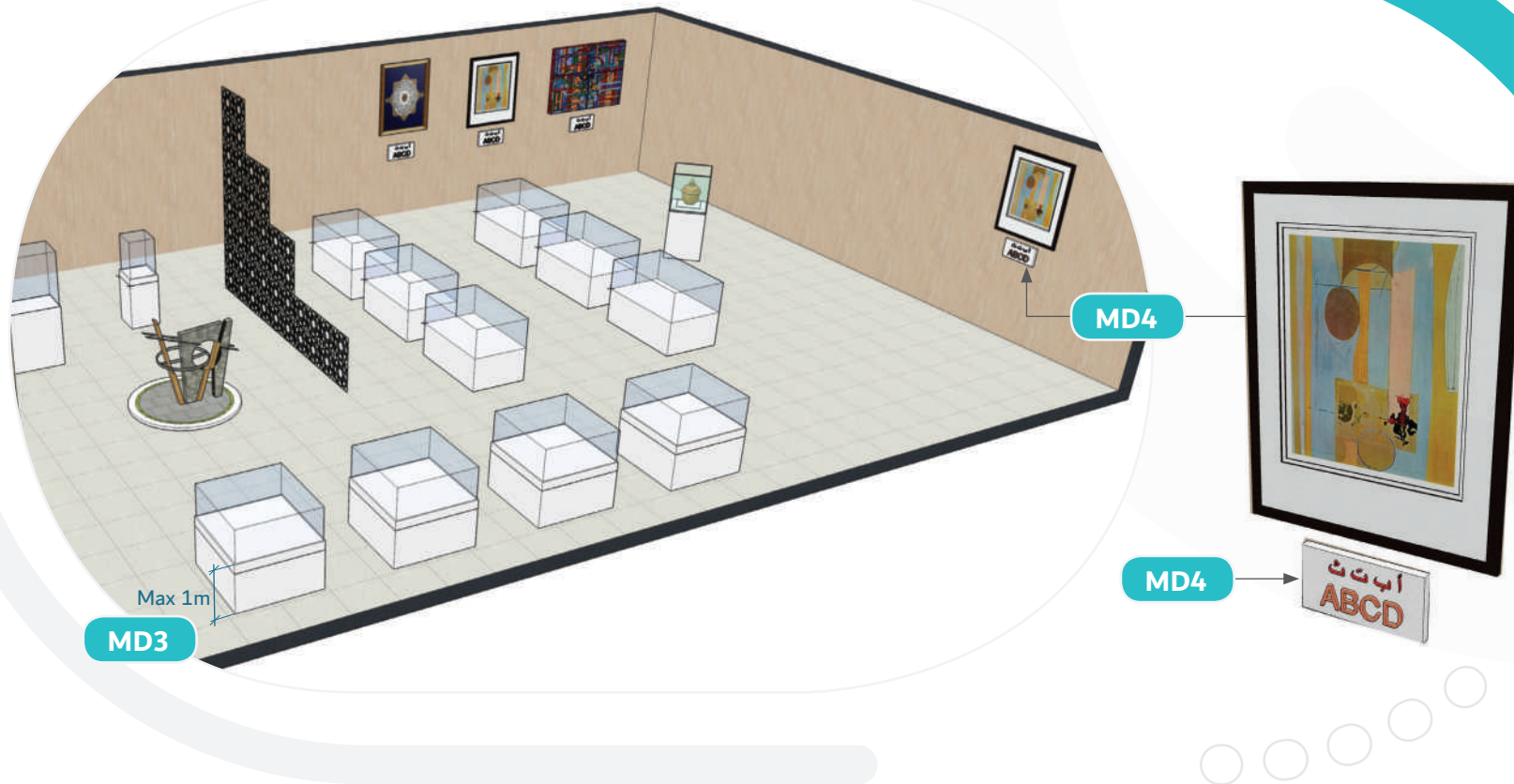
HE4 Posted sign to indicate that the enhancement system is available

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

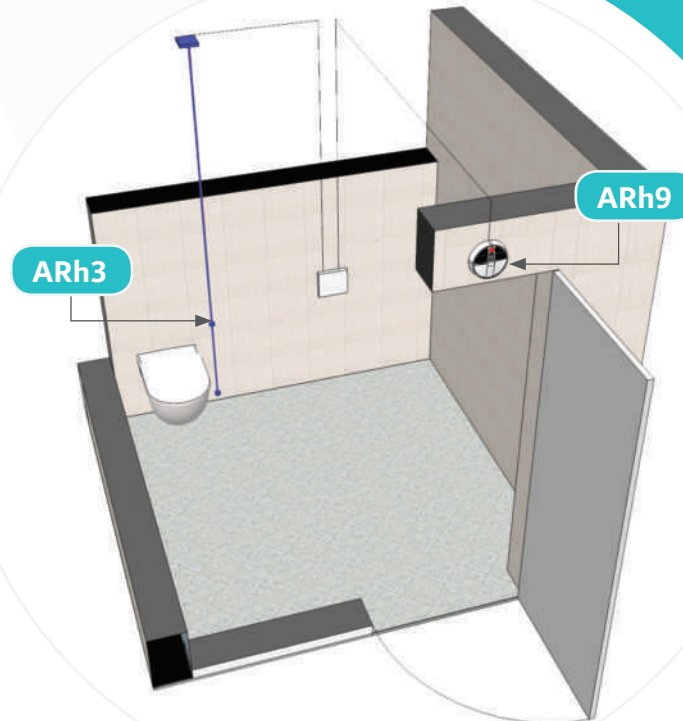
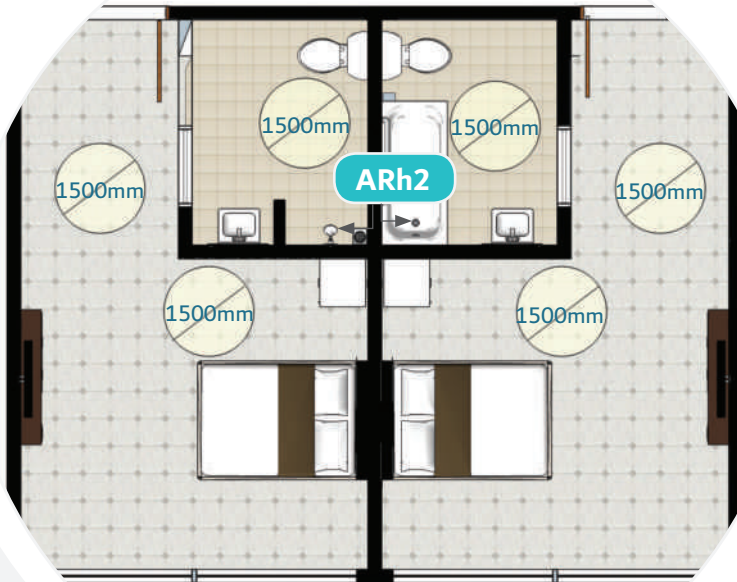
Displays are visible at a maximum height of 1 m

MD4

Signage of at least 14 pt and well illuminated

Accessible Room



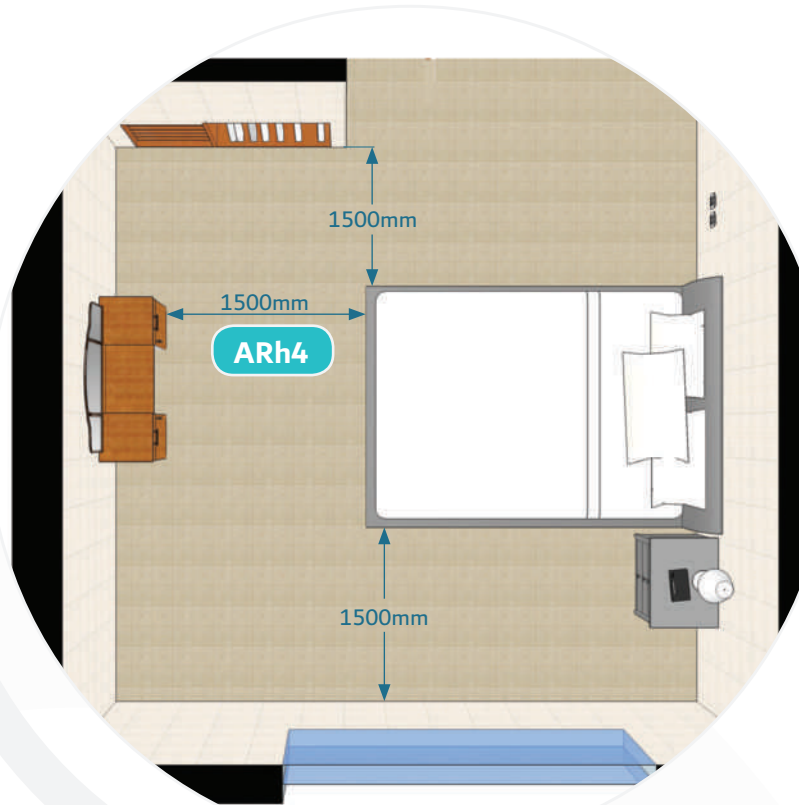


ARh1 2% of rooms are accessible with accessible toilet

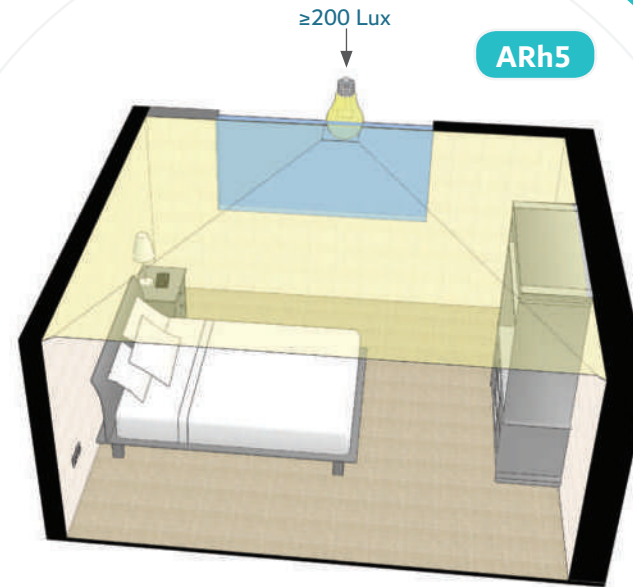
ARh2 Half of the accessible hotel rooms with roll-in showers and other half bathtub

ARh3 Toilet with alarm string

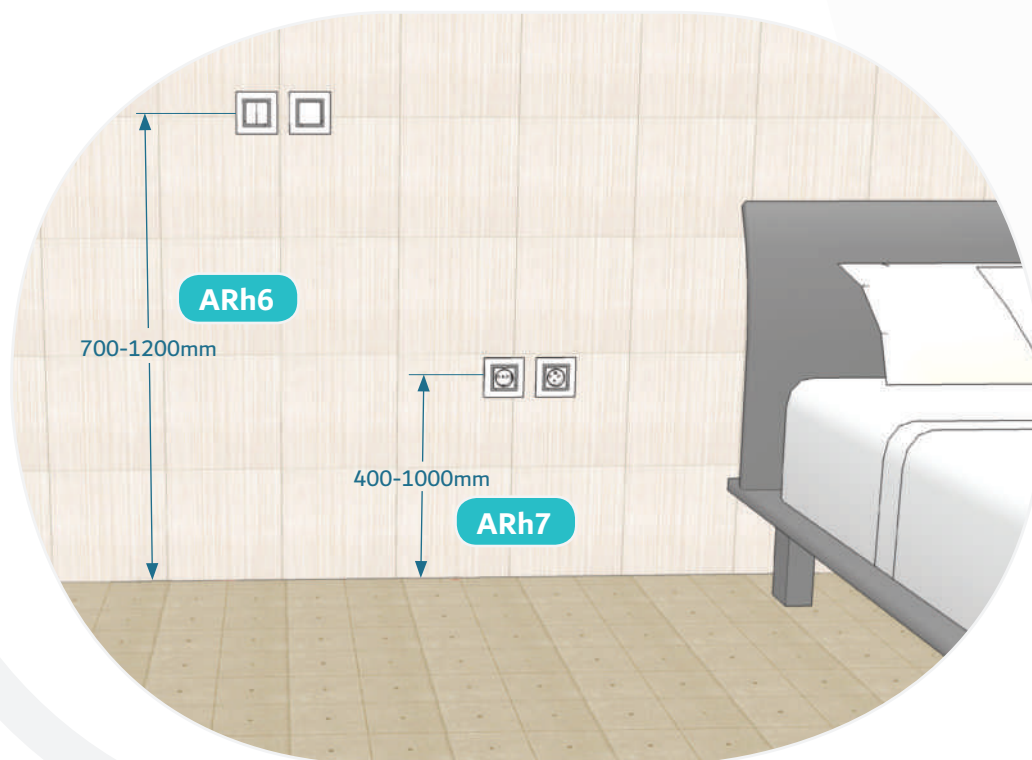
ARh9 Acoustic and visual fire alarm provided and audible door bell



ARh4 Clear route & 1500 x 1500mm free space beside the bed



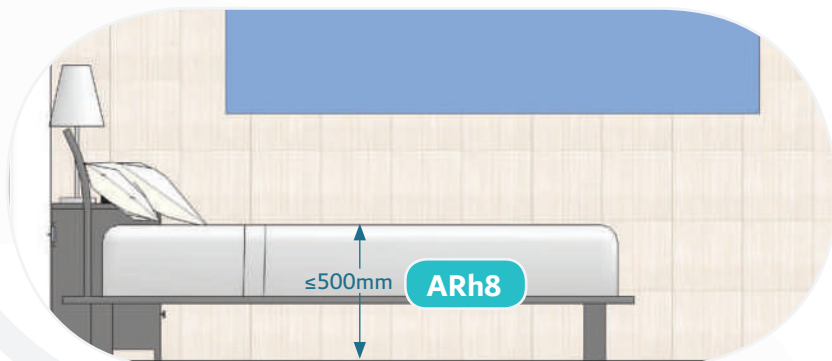
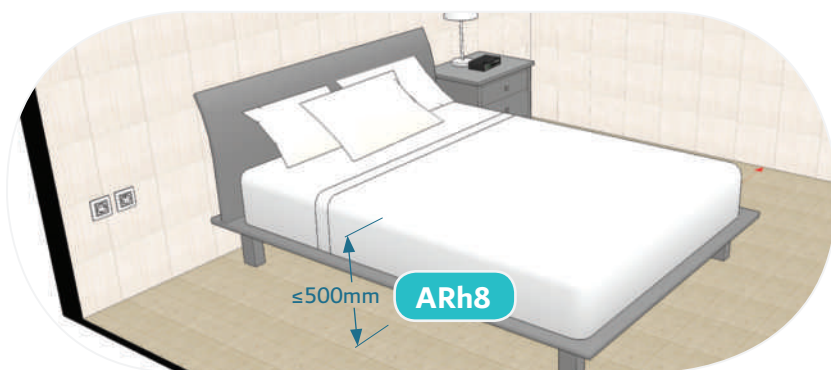
ARh5 Illumination ≥ 200 lux



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

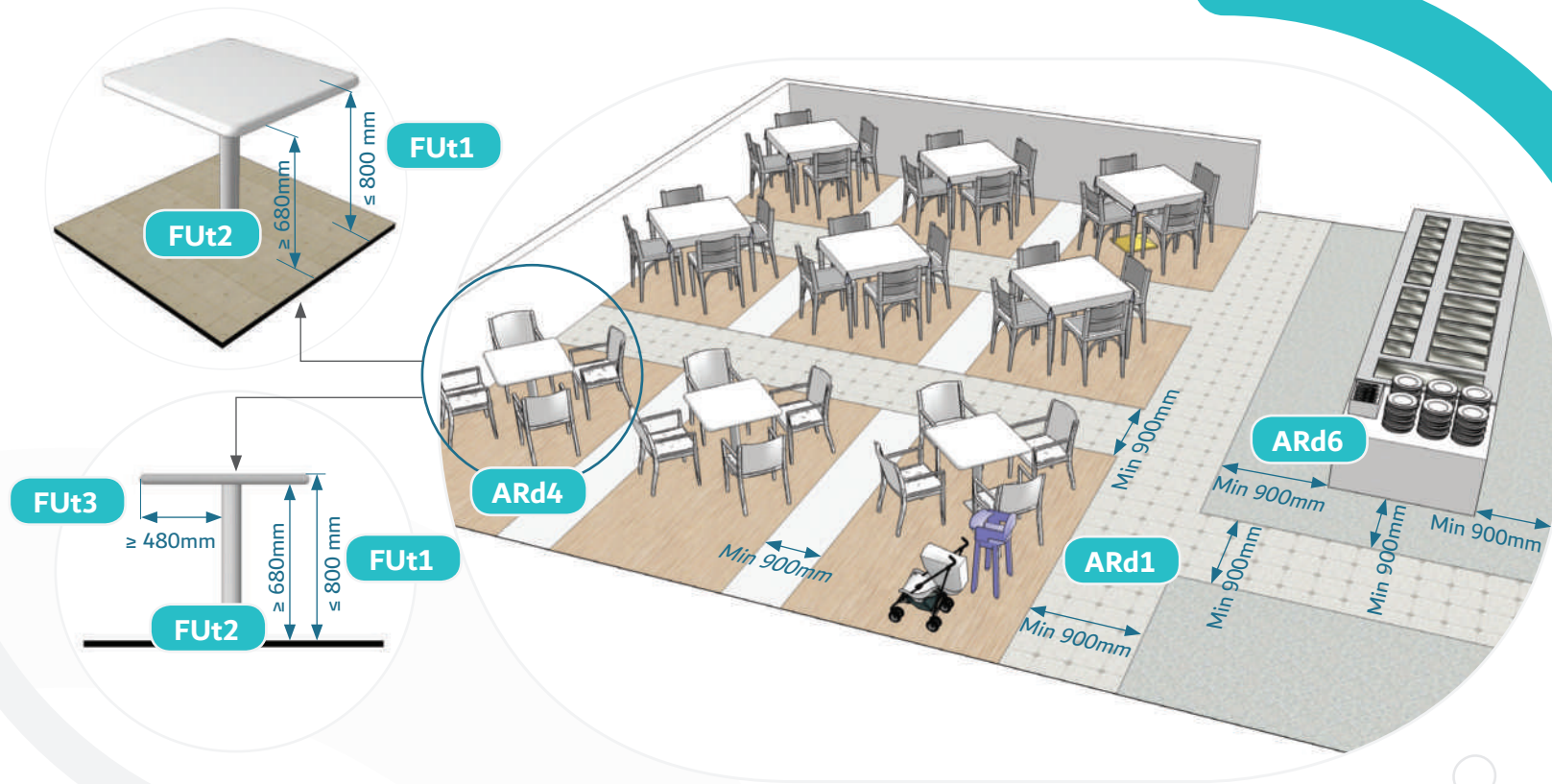
The bed height $\leq 500\text{mm}$

ARh10

Dressing mirror provided with front space up to 2000mm



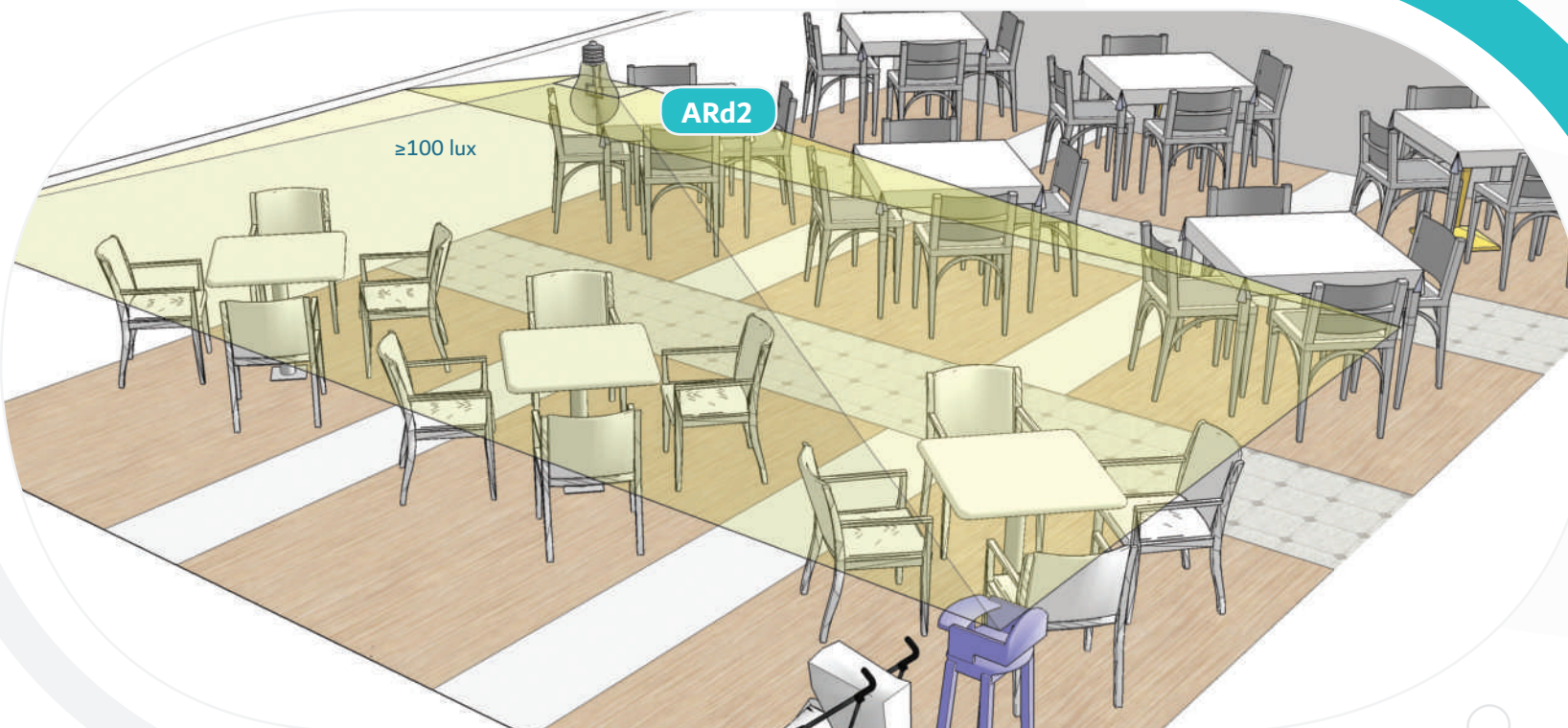
ARh11 Shelves and drawers are provided between 700 -1200mm from the floor and clothes hanger placed at height 1200mm



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

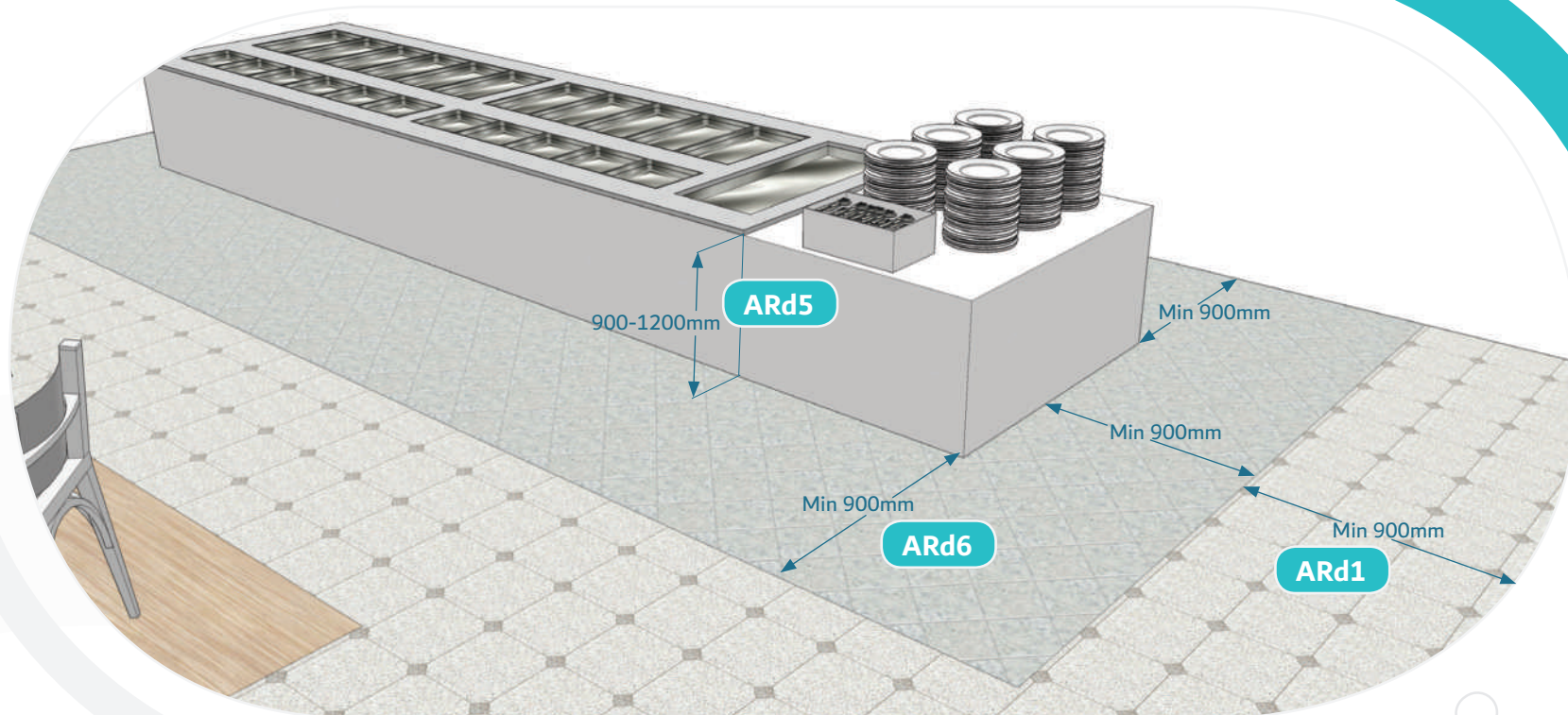
ARd4 10% of the tables shall comply with the dimensional criteria for tables

ARd6 Minimum 900mm clear passage to all food service area

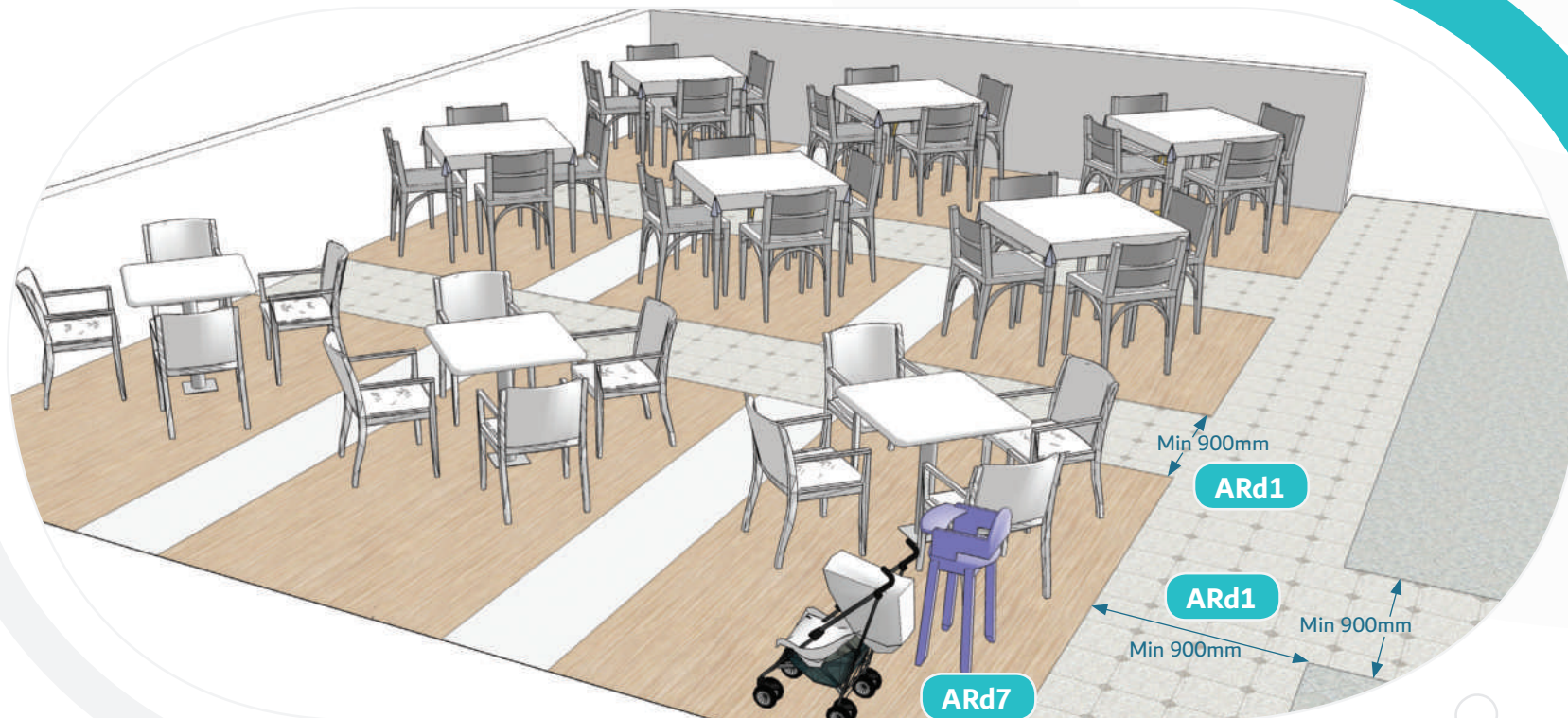


ARd2 Illumination ≥ 100 lux provided in at least 10% of dining rooms

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

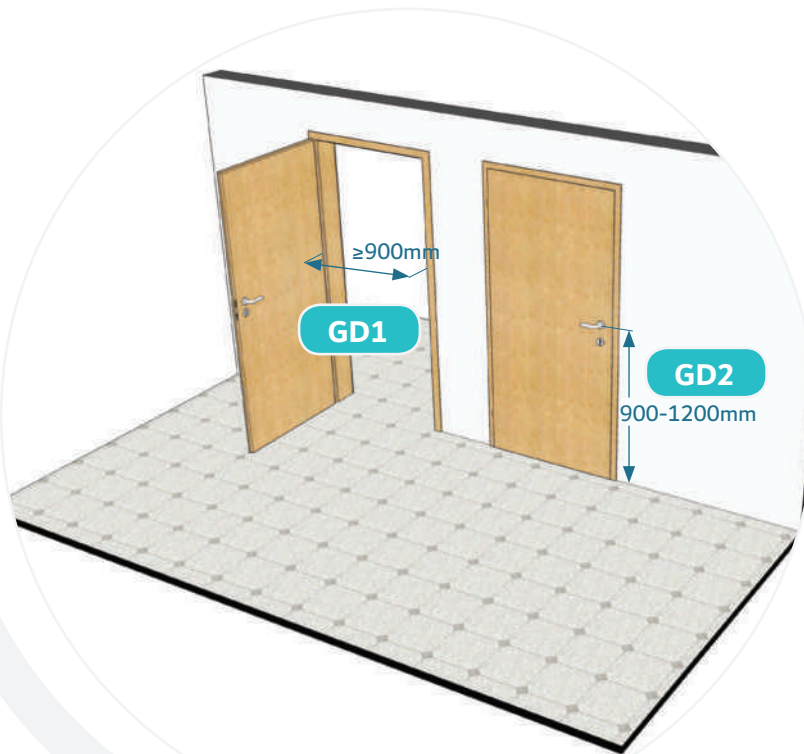


ARd1 Accessible path of travel provided to half of dining area (900mm minimum)

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

General



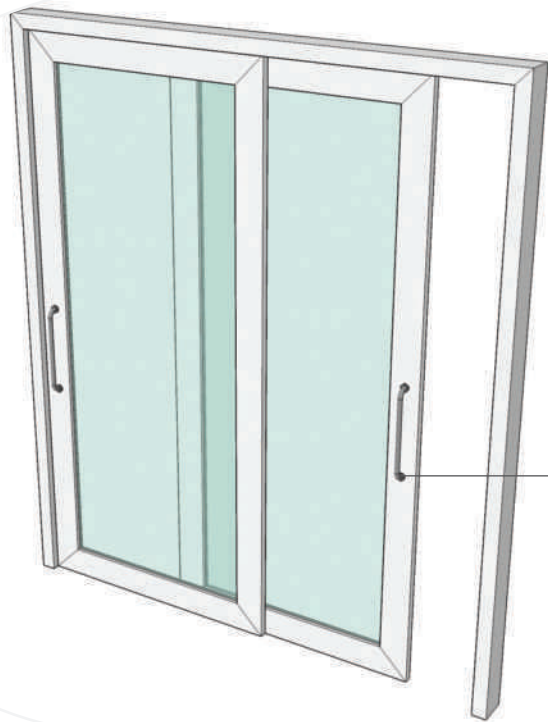


GD1 Have a free passage width $\geq 900\text{mm}$

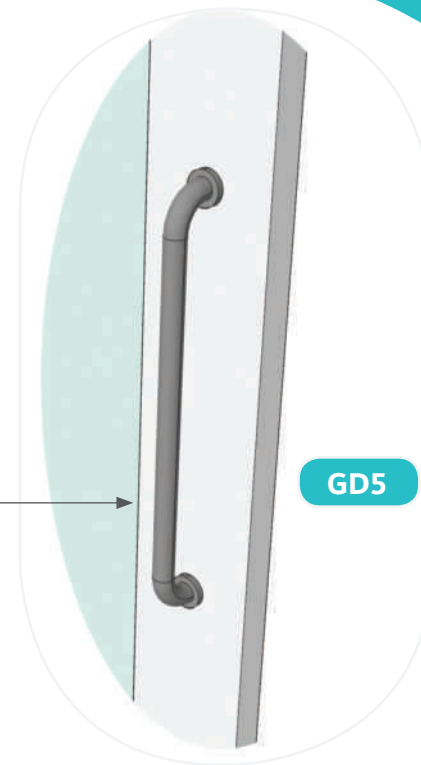
GD2 900-1200mm handle of opening mechanism height and operable by elbow or automatic

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

GD4 No round knobs



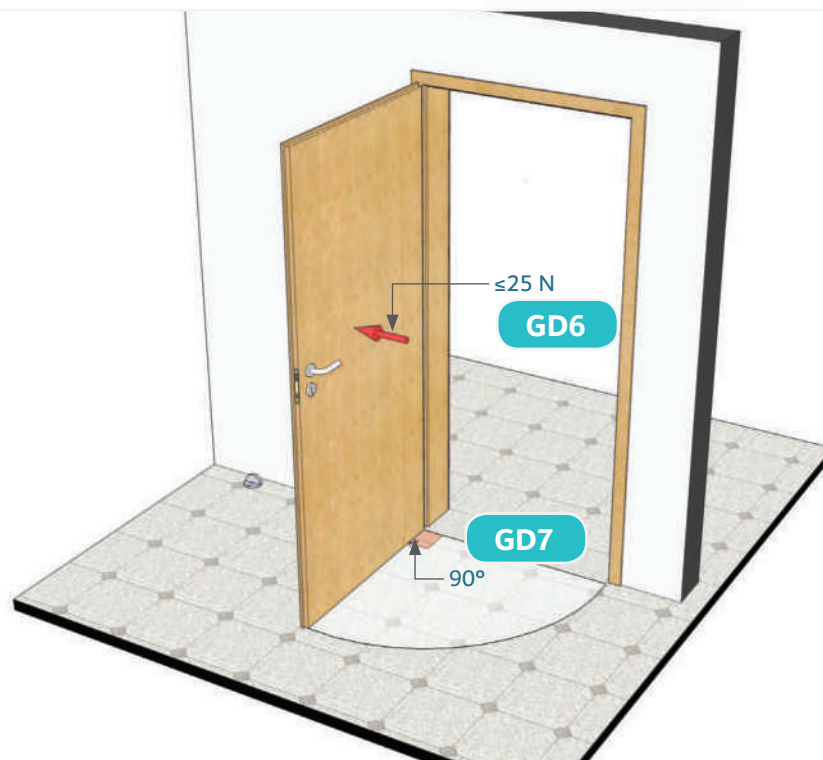
GD5



GD5

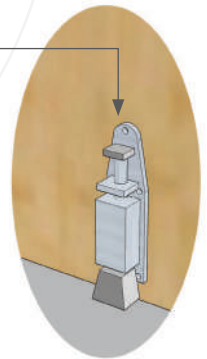
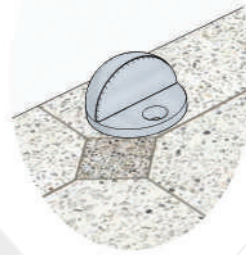
GD5

Sliding doors with vertical fixed opening bars



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

GD7 Swinging door open 90°

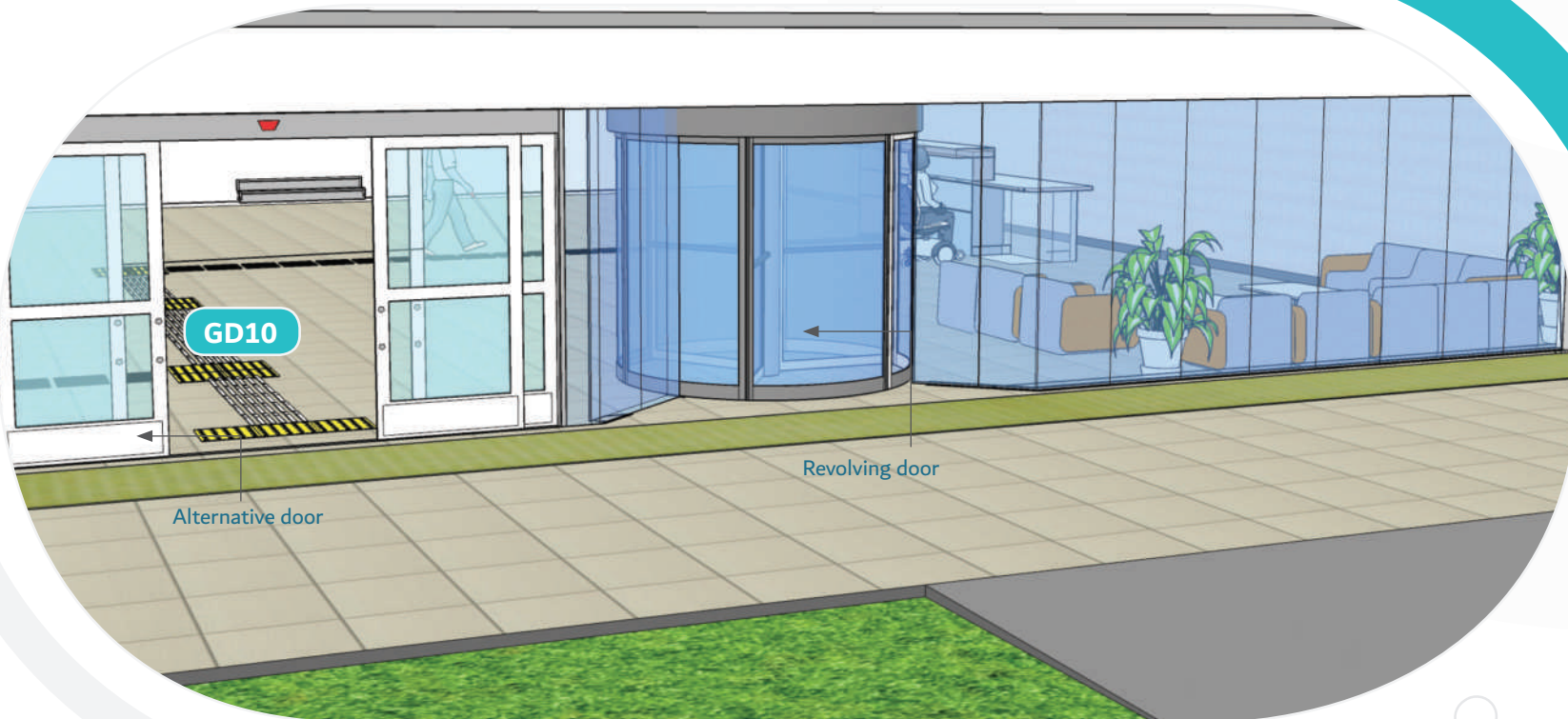


GD8

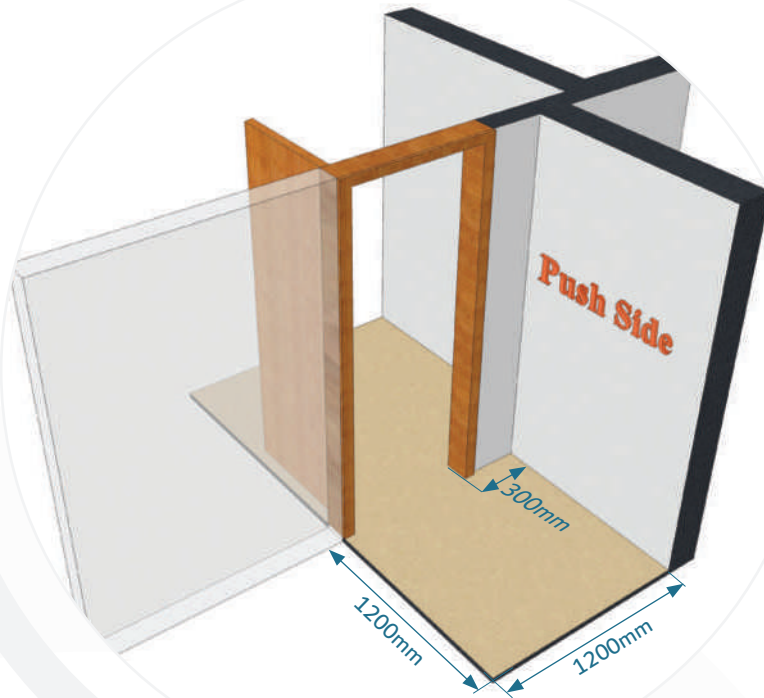
Door stoppers provided

GD9

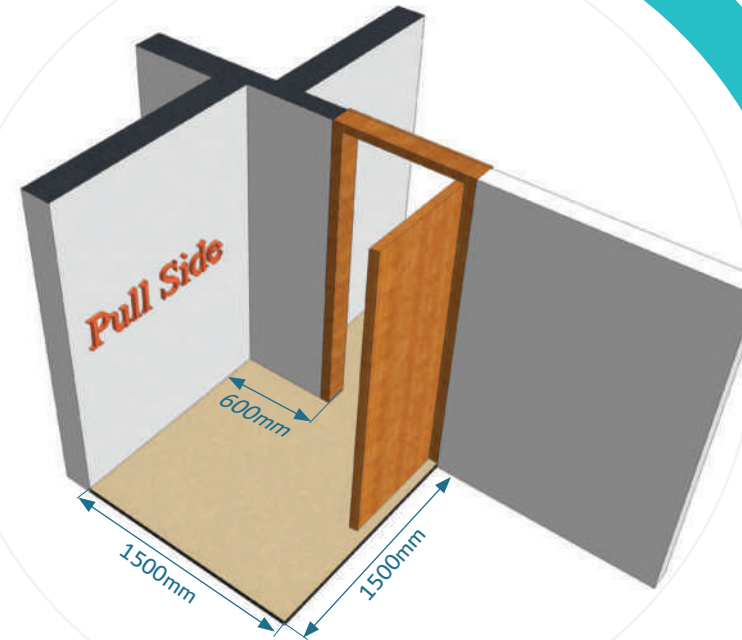
250mm height kick plate provided to doors in high use areas



GD10 Alternative door provided when there is a revolving door



GD11

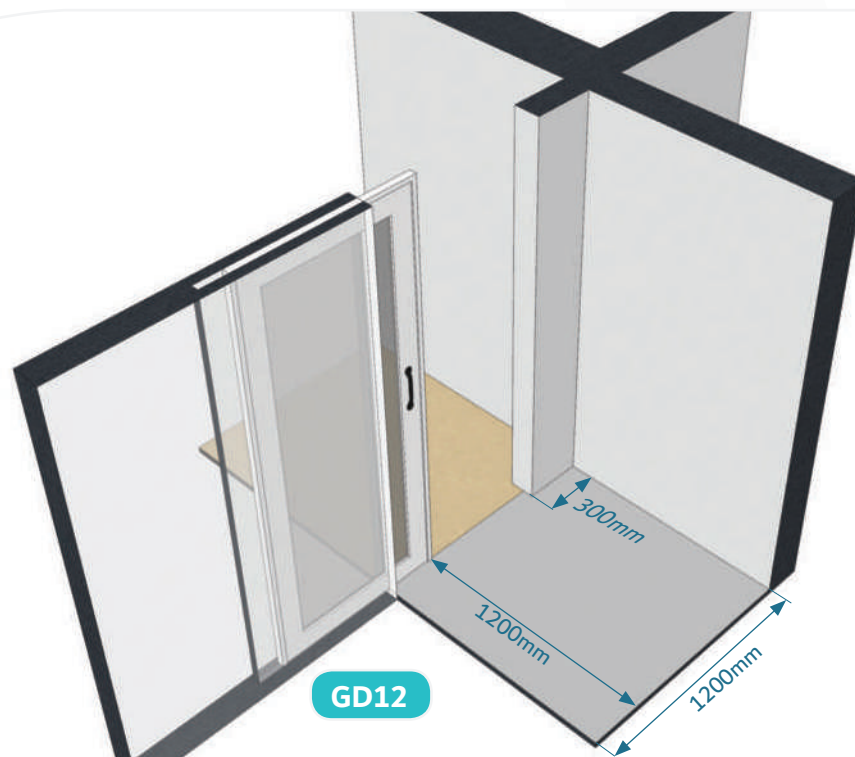


GD11

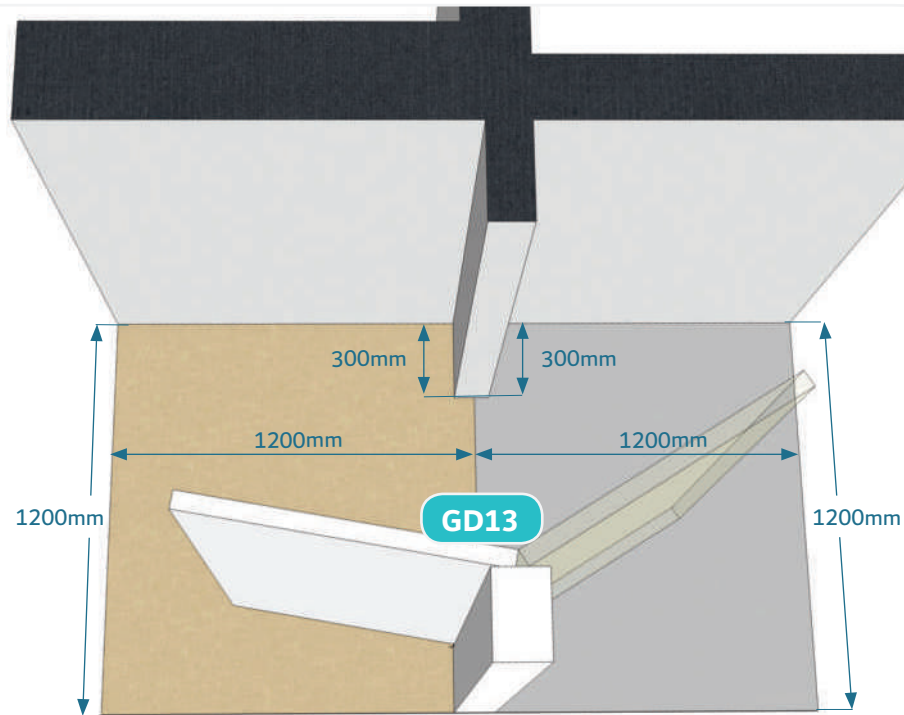
Dimensions of maneuvering spaces / one way swinging door comply:

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**

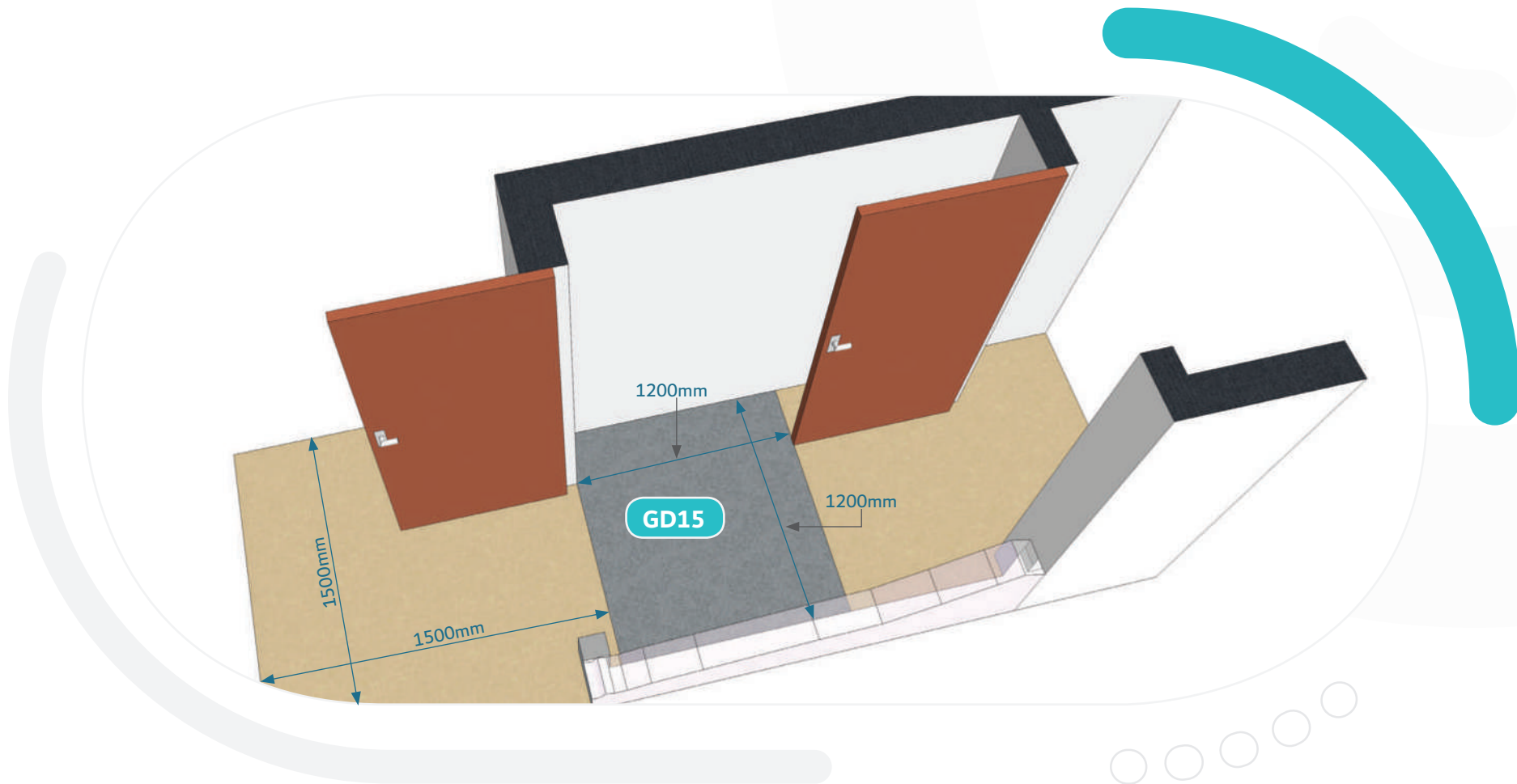
Dimensions of manoeuvring spaces comply:
Sliding doors – 300mm space adjacent to the leading edge and 1200 x 1200mm space



GD13

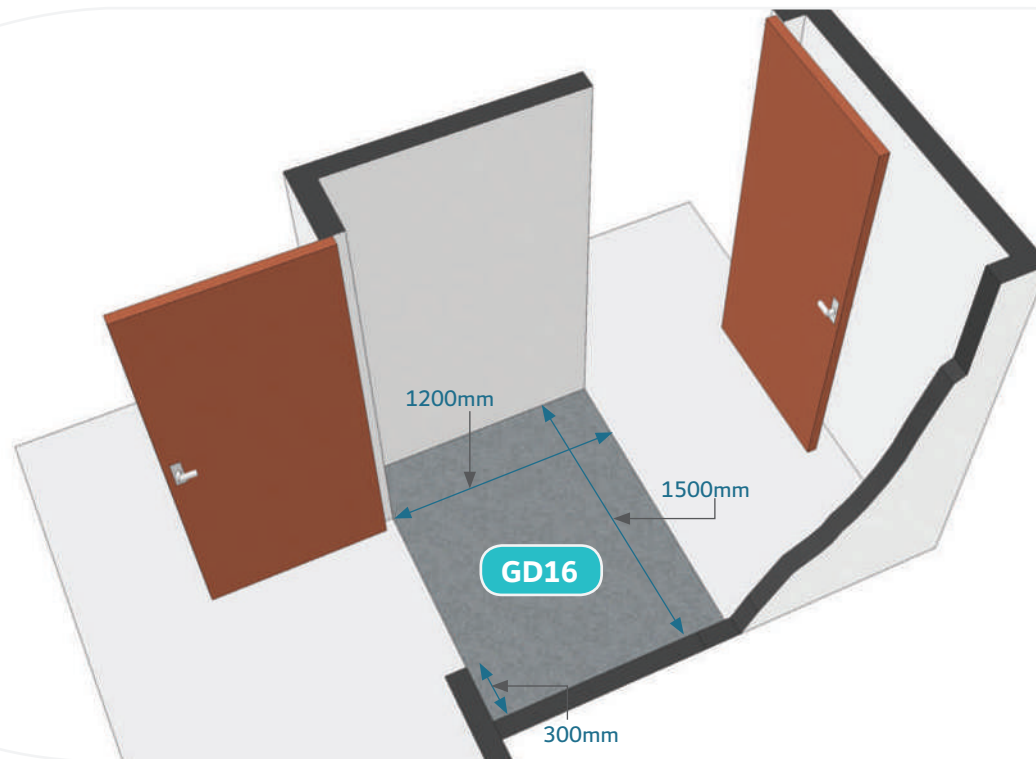
Dimensions of manoeuvring spaces comply:

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

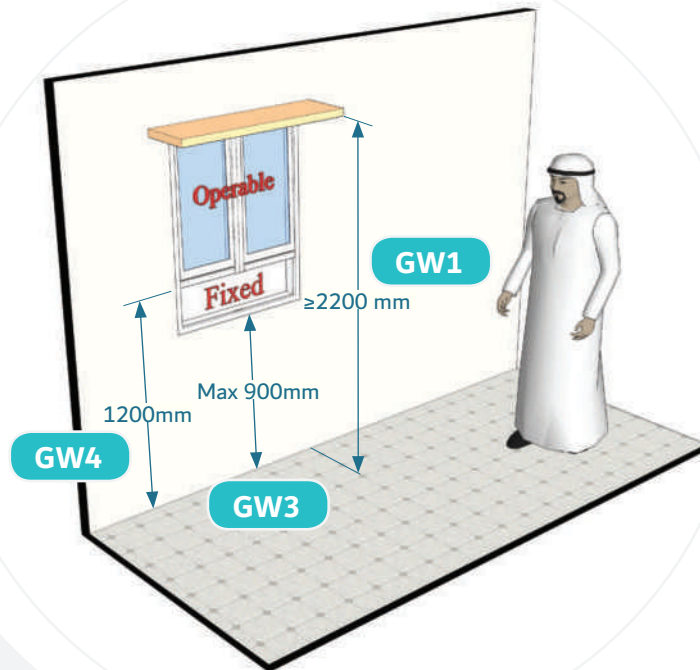


GD14 Clear spaces without obstructions of other doors

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

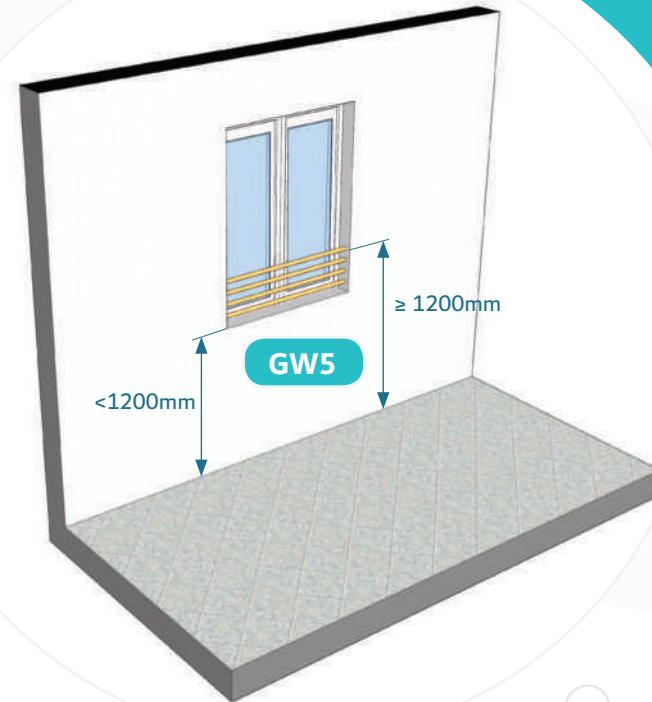
**GD16**

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



GW1 Without projections $\leq 2200 \text{ mm}$ into the pedestrian area

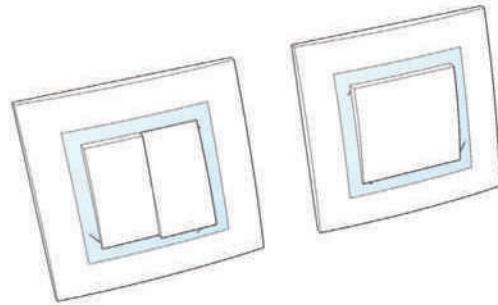
GW4 Operable window at 1200mm height



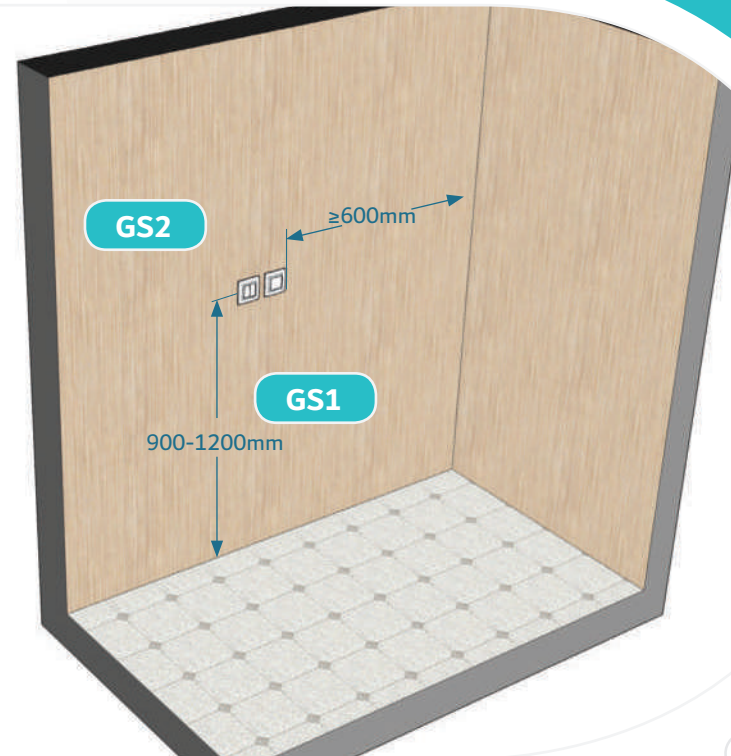
GW3 Fixed glazing at maximum of 900mm height

GW5 With guardrails if window opening $< 1200 \text{ mm}$





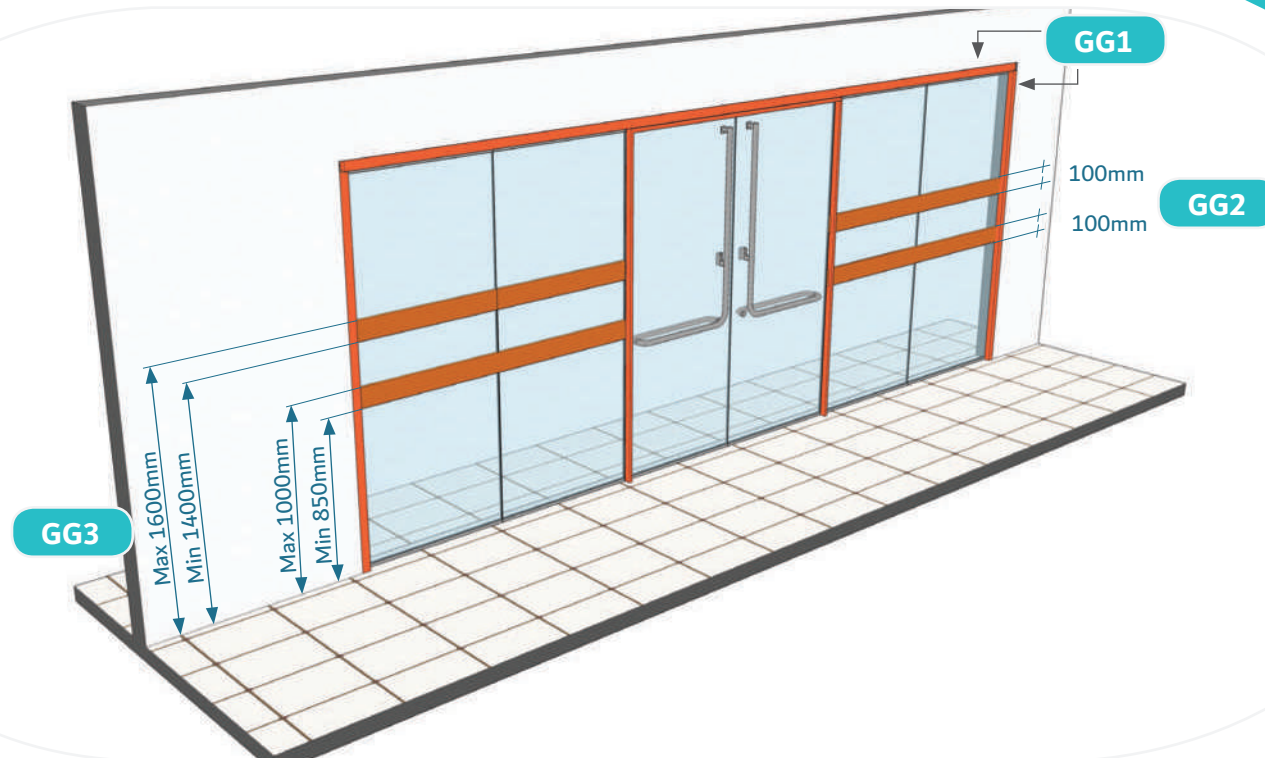
GS3



GS1 Located between 900 – 1200mm height and located ≥ 600 mm from any corner

GS2 Switch plates with contrast of 30 LRV against its background

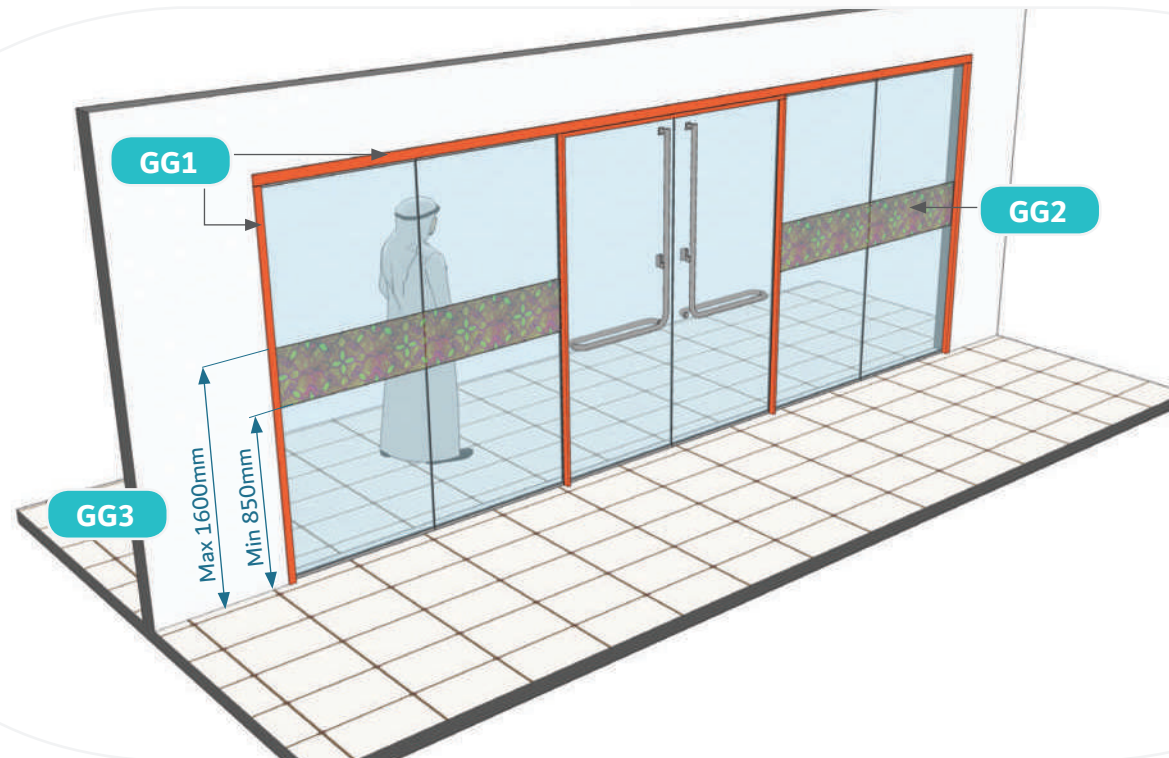
GS3 Switches can be activated with the elbow



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

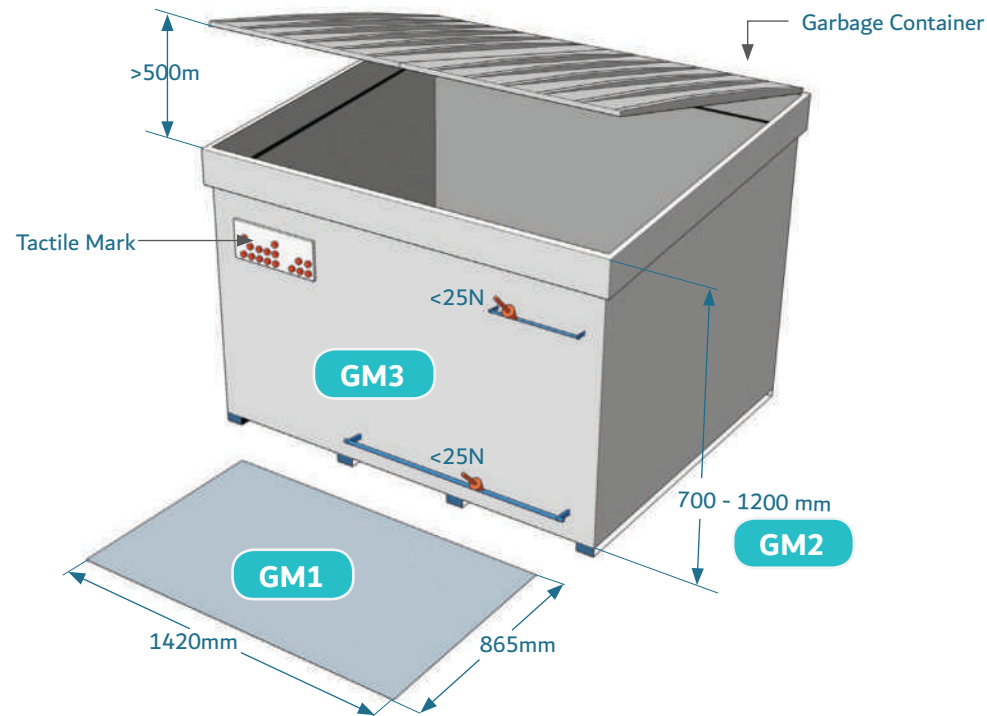
GG3 First horizontal band height between 1400 - 1600mm from the ground level
Second horizontal band height between 850 - 1000mm from ground level



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

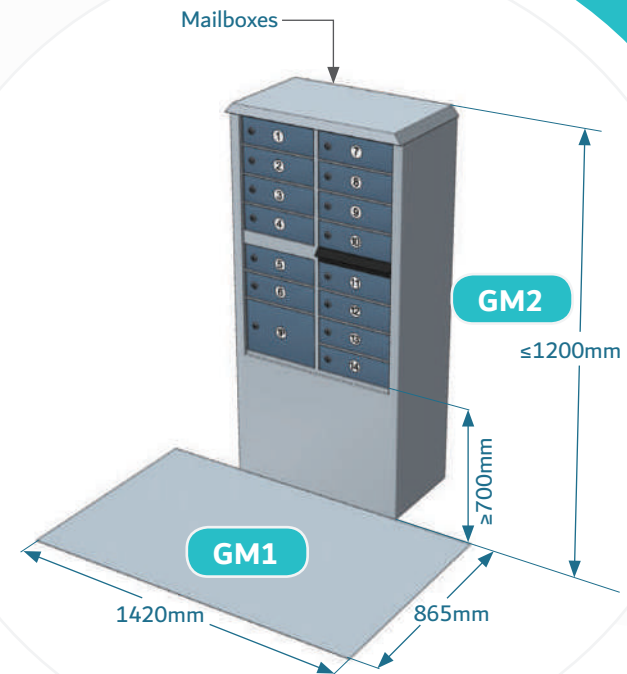
GG3 First horizontal band height between 1400 - 1600mm from the ground level
Second horizontal band height between 850 - 1000mm from ground level



GM1 With frontal or lateral interaction space 865 x 1420mm

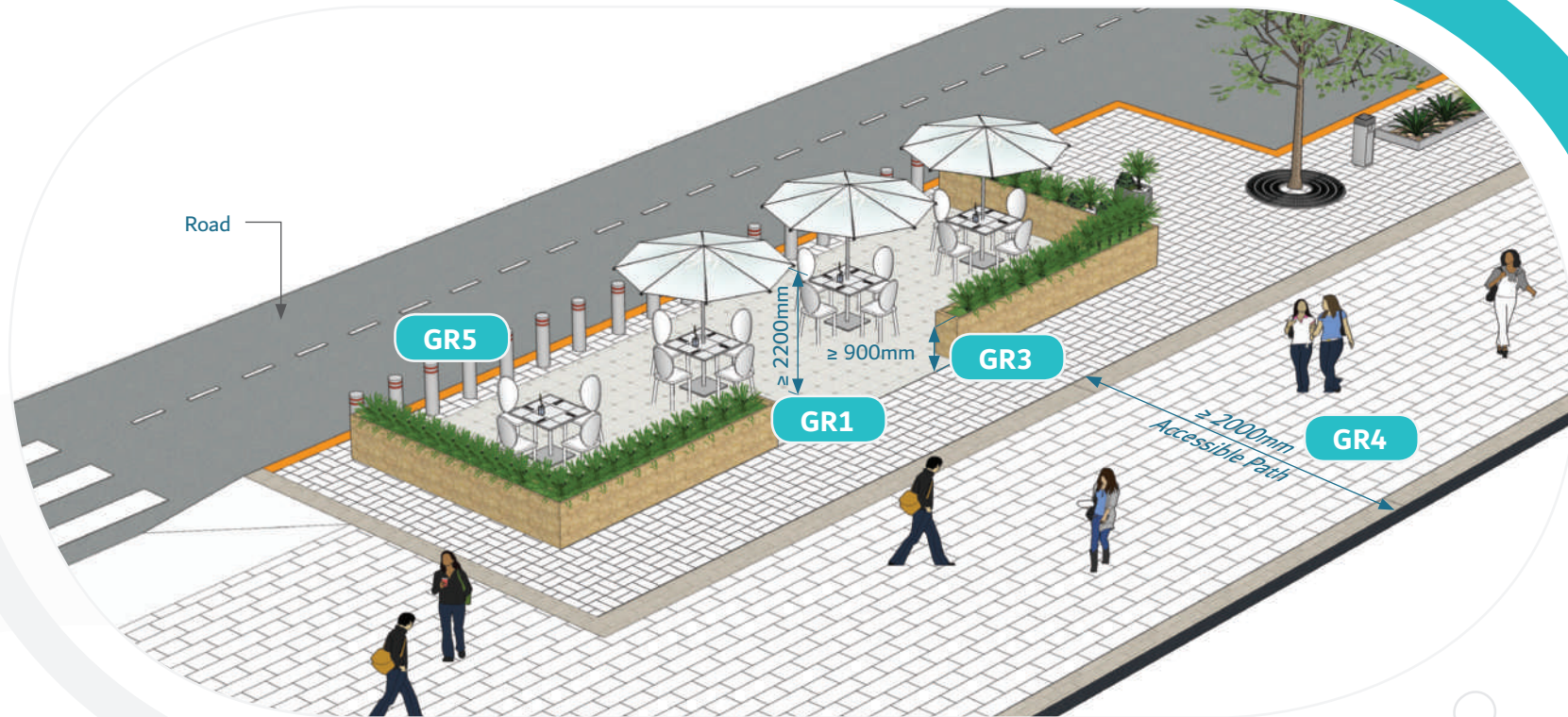
GM2 Interaction mechanisms height between 700 - 1200 mm

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



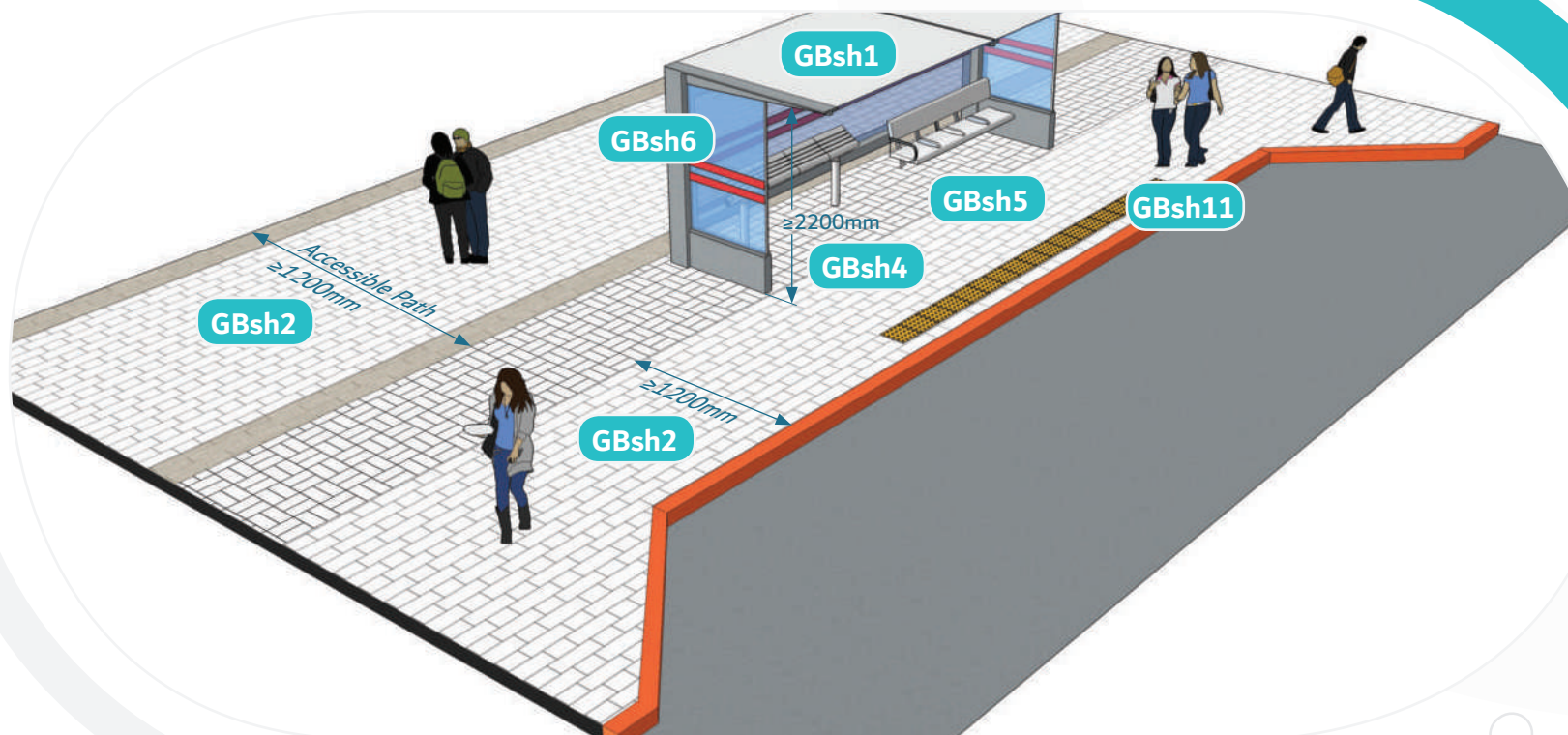
GR1 No invading accessible path and headroom

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

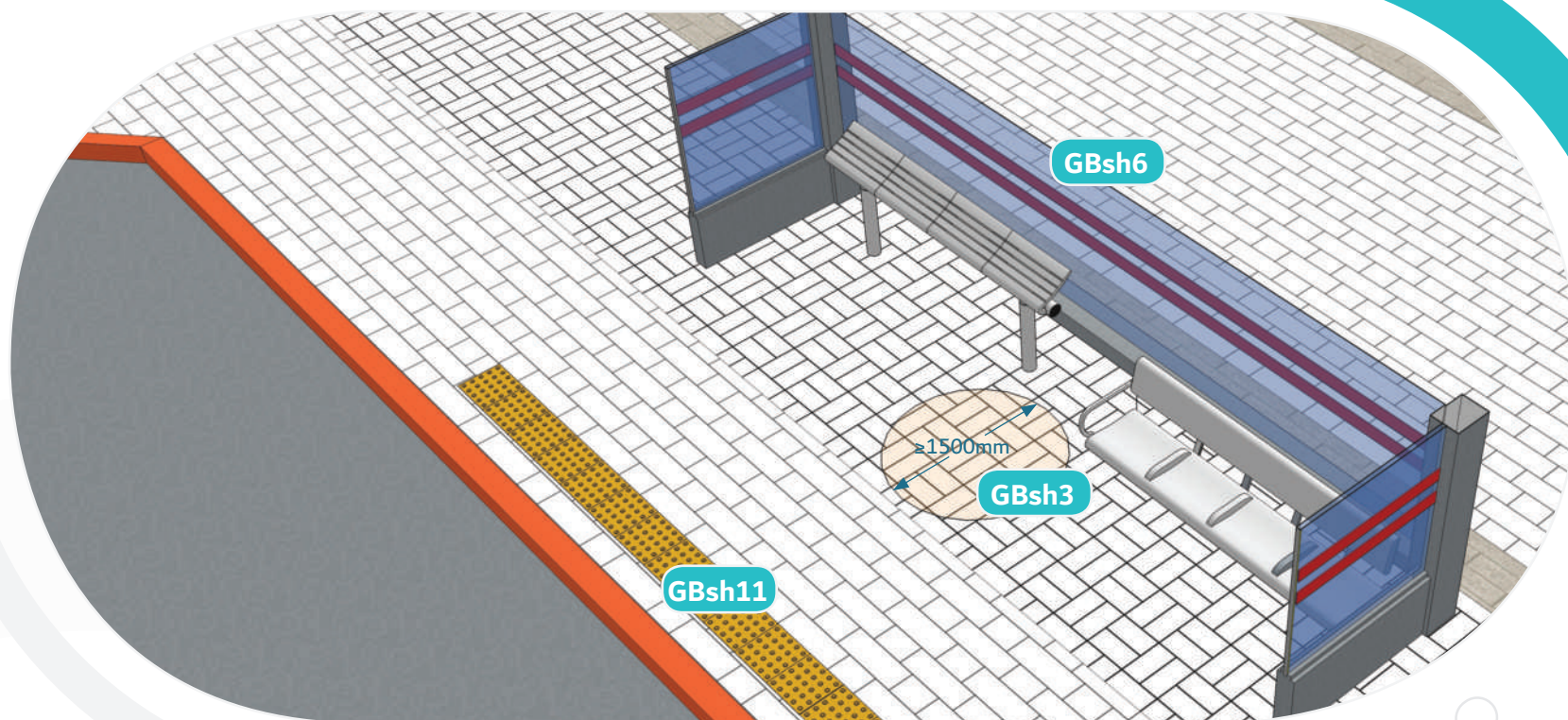
GBsh2 With a free of protruding obstacles path in both sides of at least 1200mm width

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

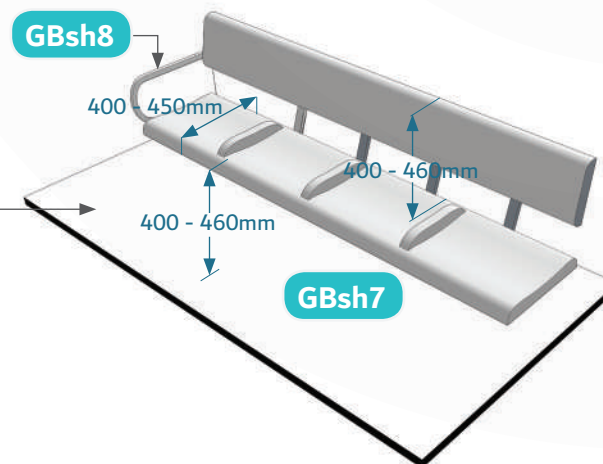
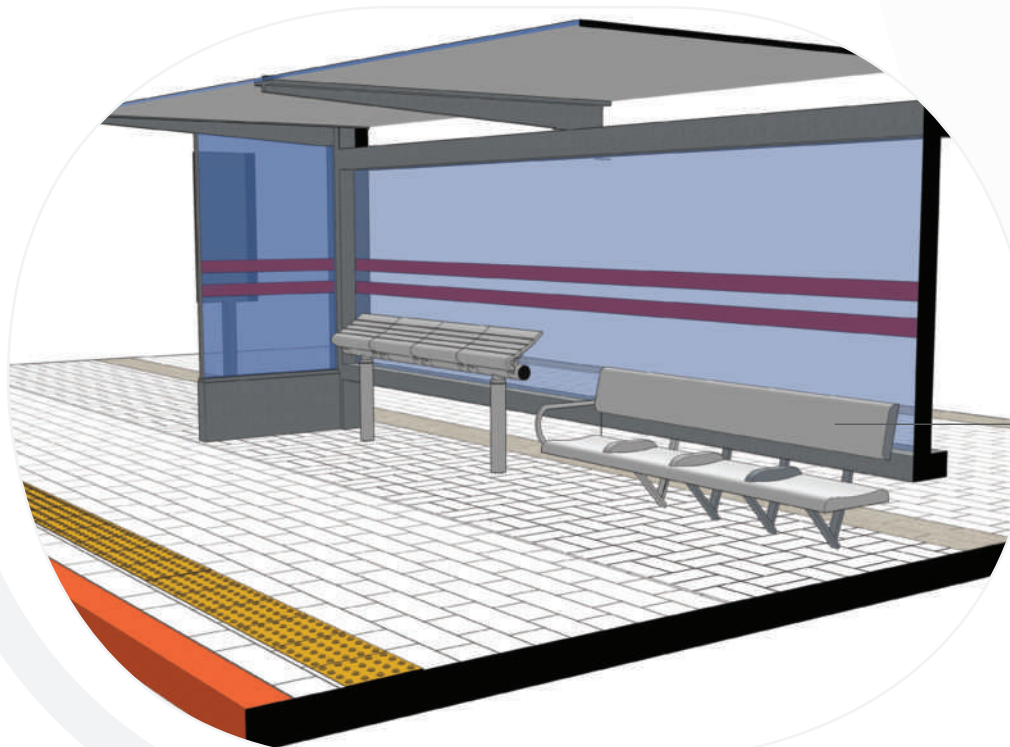
GBsh5 No obstacles between shelter and access to bus

GBsh6 Glazed walls with indication and warning marks, if provided

GBsh11 Boarding area platform with tactile warning surface

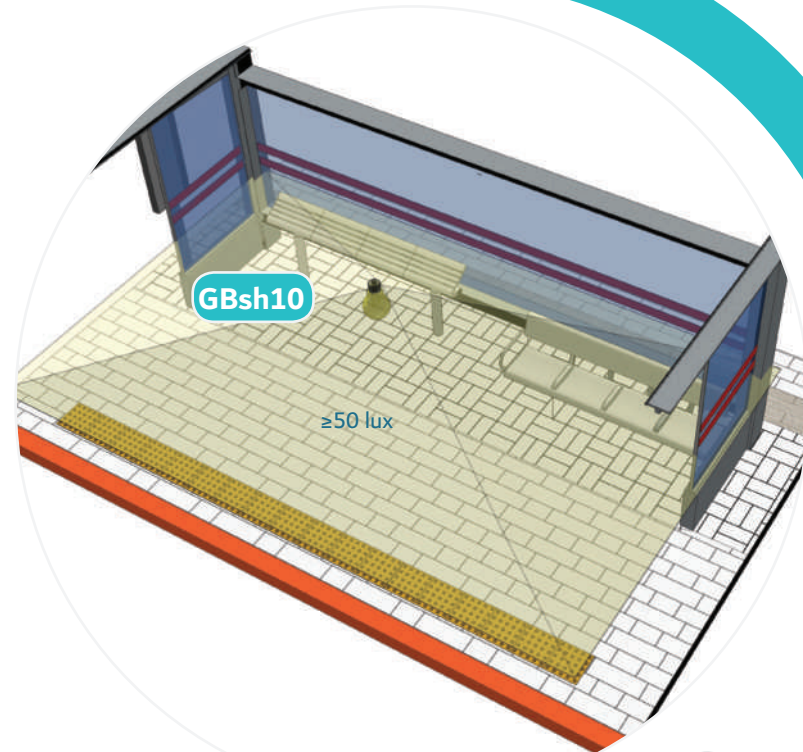
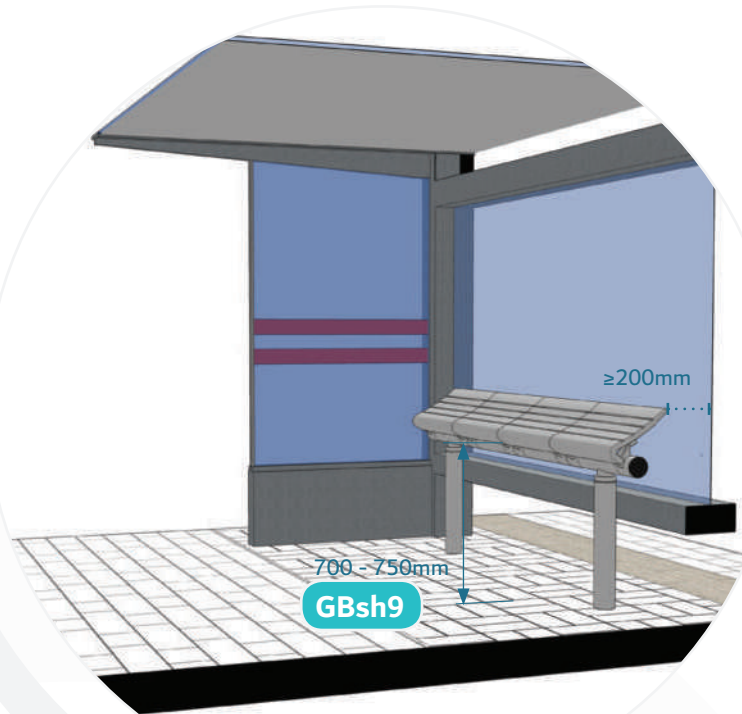


- GBsh3** Manoeuvring space $\geq 1500\text{ mm}$ diameter inside the shelter
- GBsh6** Glazed walls with indication and warning marks, if provided
- GBsh11** Boarding area platform with tactile warning surface



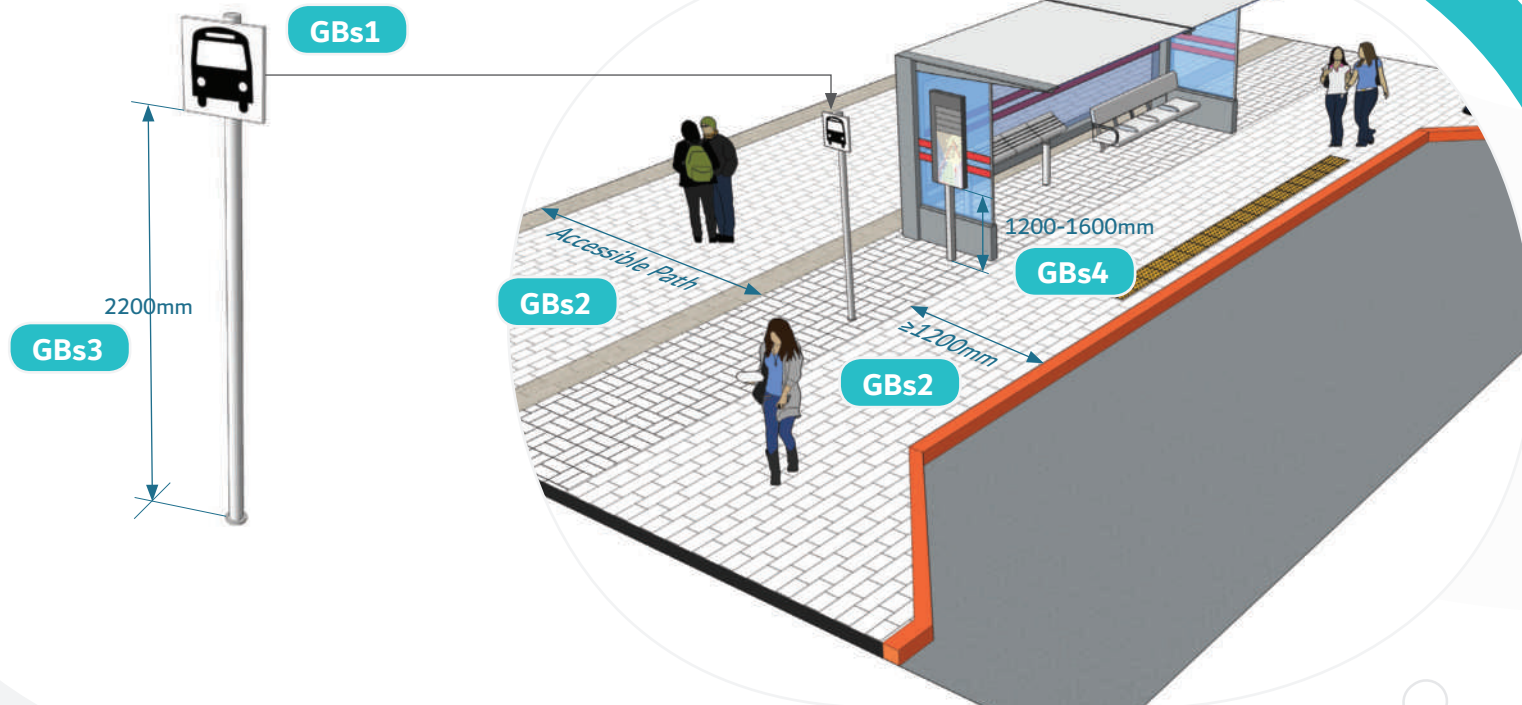
GBsh7 With fixed bench + seat height 400 - 460mm, depth from 400 - 450mm, backrest ≥ 400 mm

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

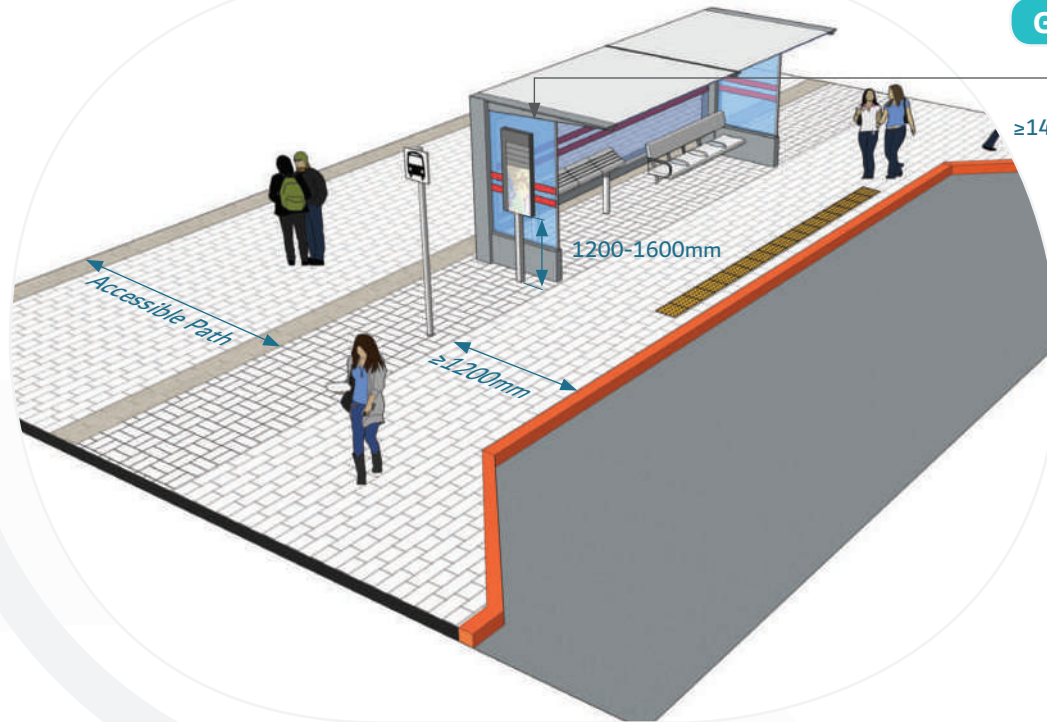


GBs1 Sign post provided

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

GBs2 Not obstructing the accessible path

GBs4 Bus information height between 1200 - 1600mm



GBs5

$\geq 140\text{mm}$ ا ب ت ث - 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

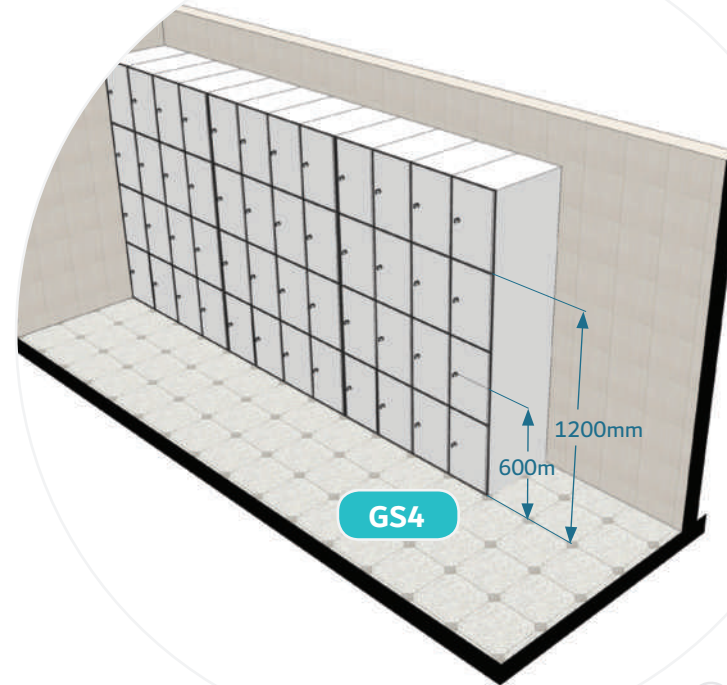
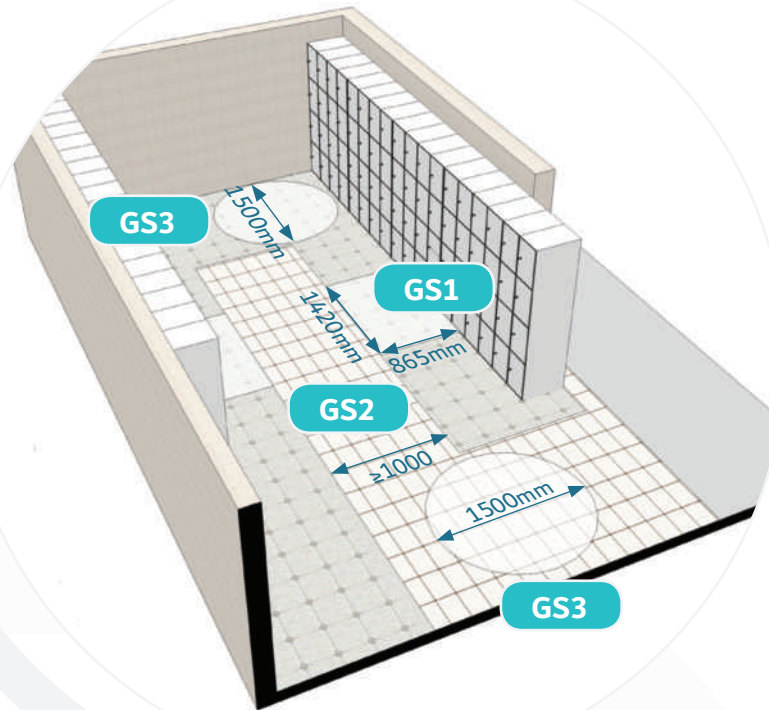


GAE7 Other evacuation solutions for persons with activity limitation with assistance of an evacuation devices including protected elevator or chair

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



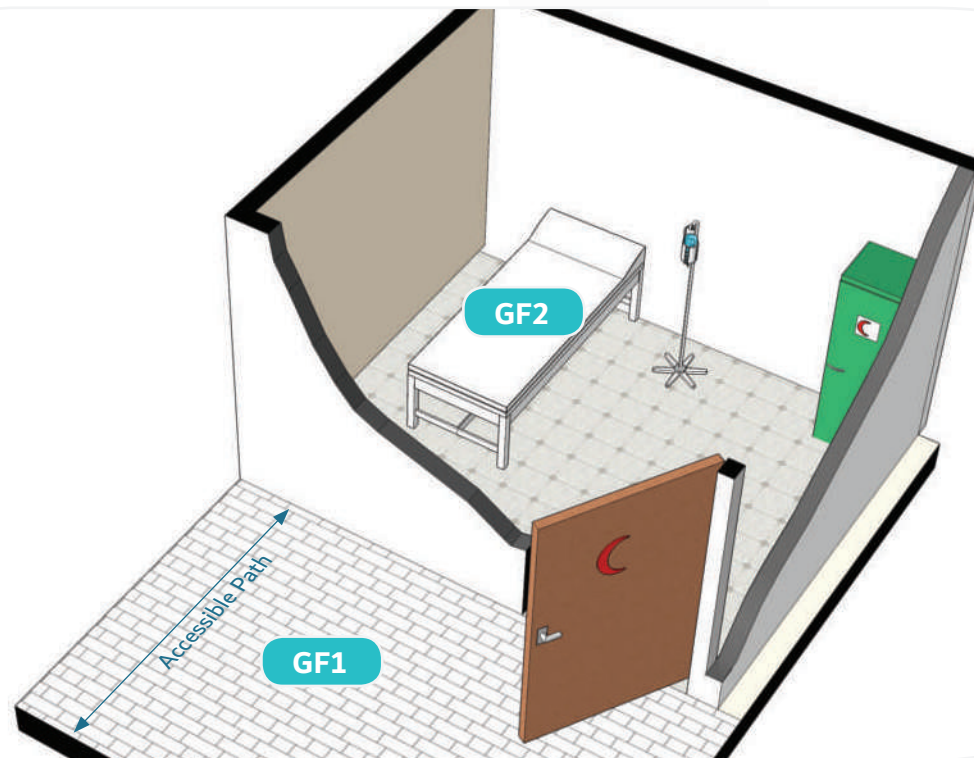


GS1 Approaching space 1420 x 865mm

GS3 Maneuvering turning space 1500mm

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

GS2 Corridor width ≥ 1000 mm

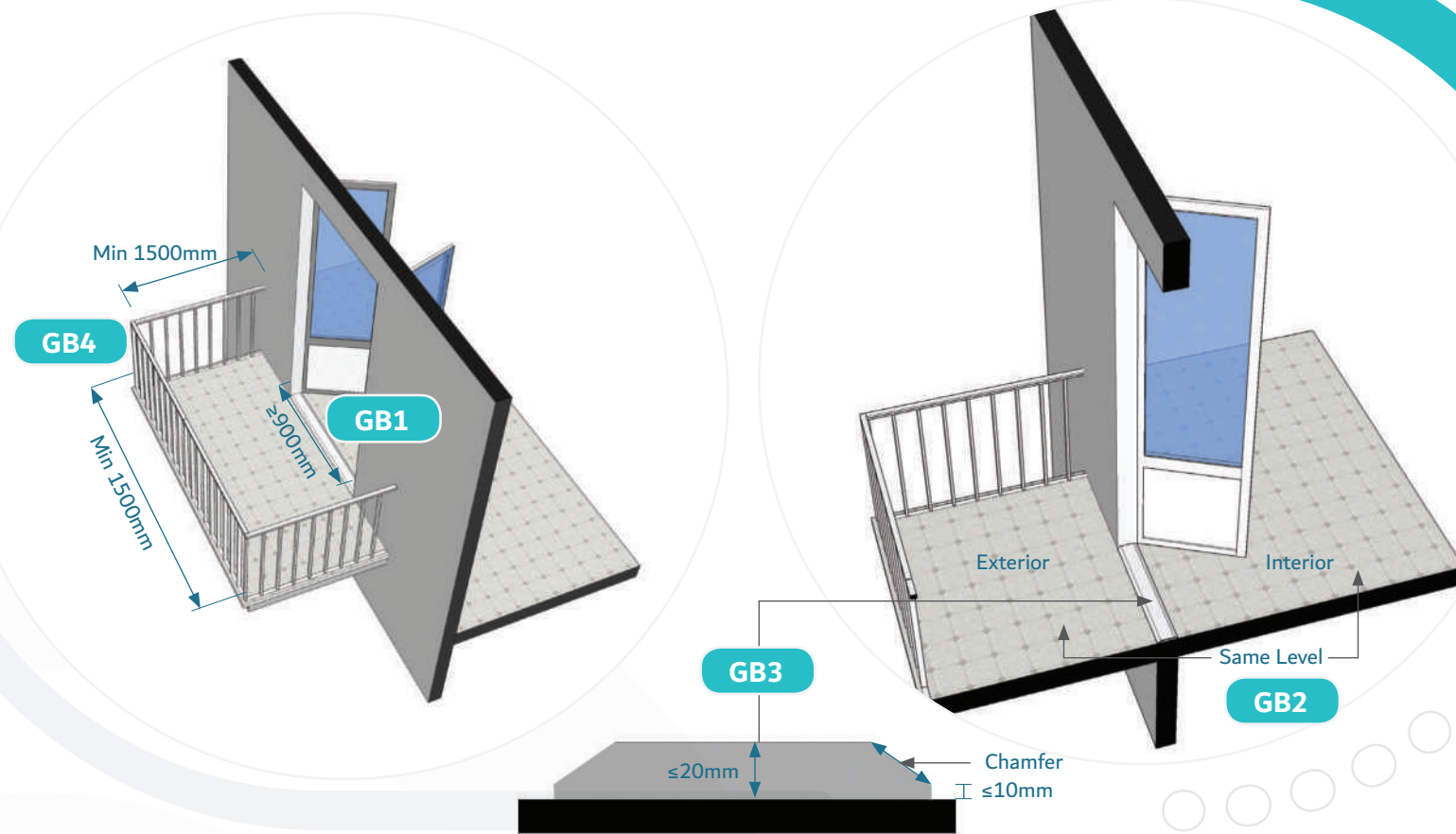


GF1

With an accessible door and path to the treatment area

GF2

With adult changing table

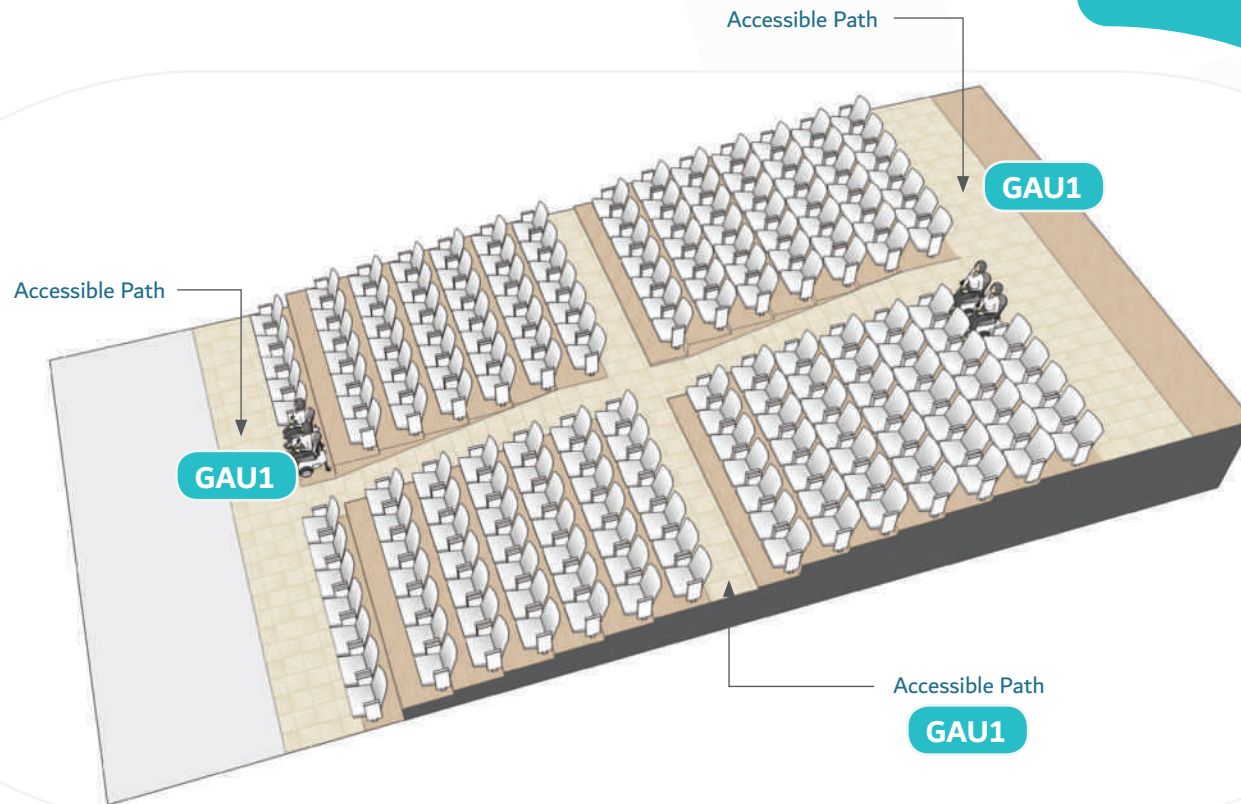


GB1 Door Width $\geq 900\text{mm}$

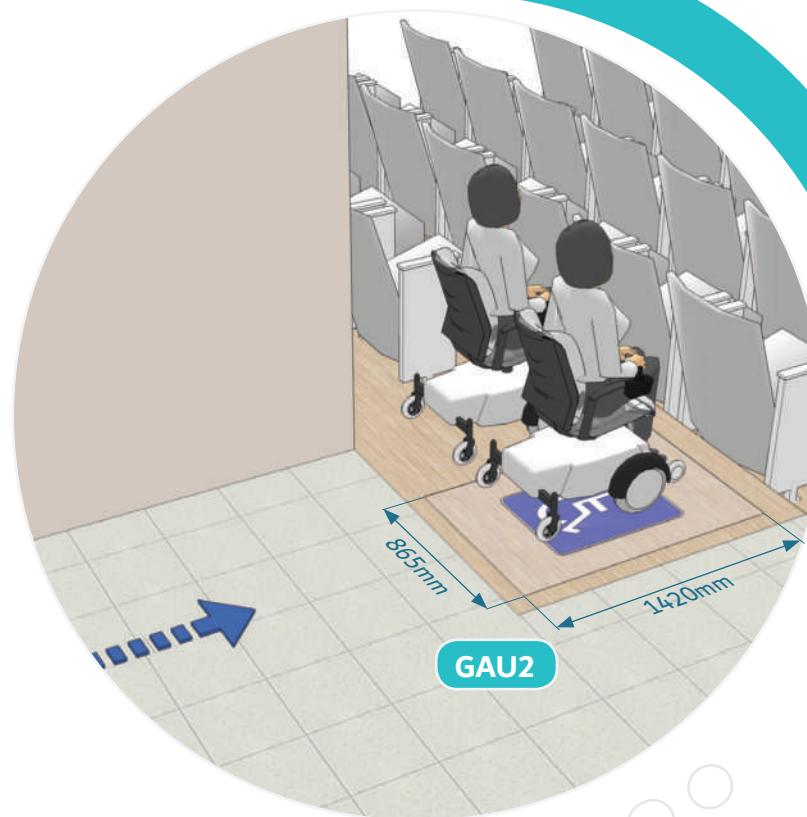
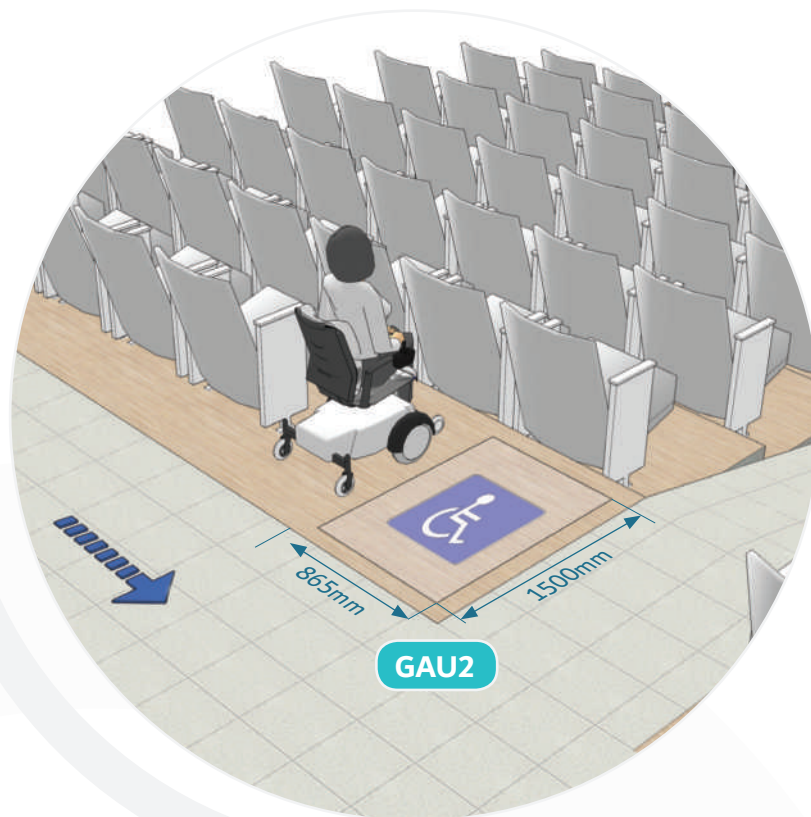
GB2 Balcony exterior and interior level are the same

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

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

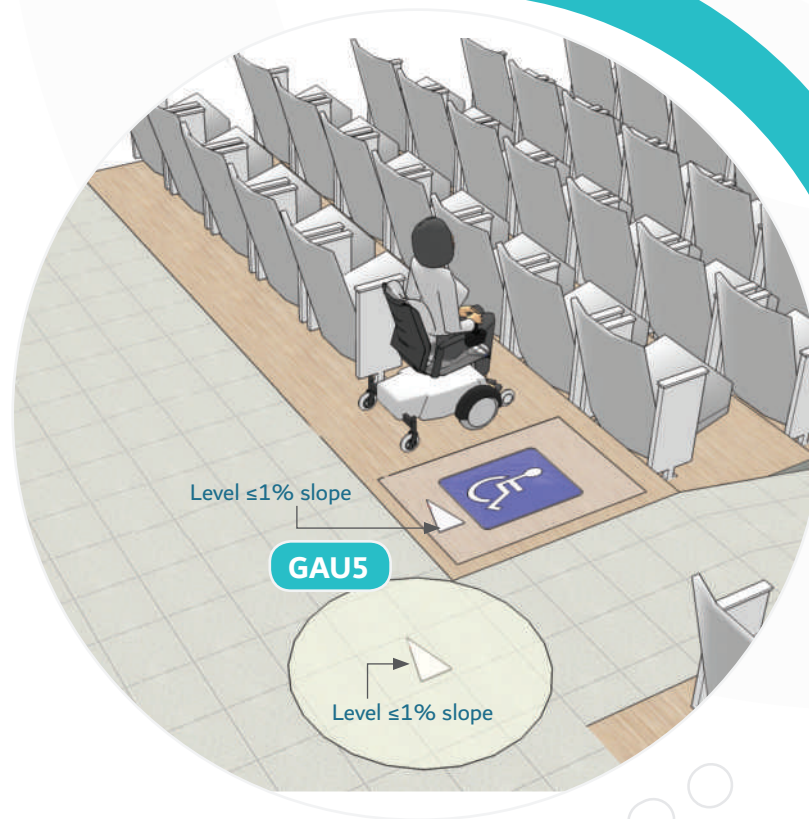
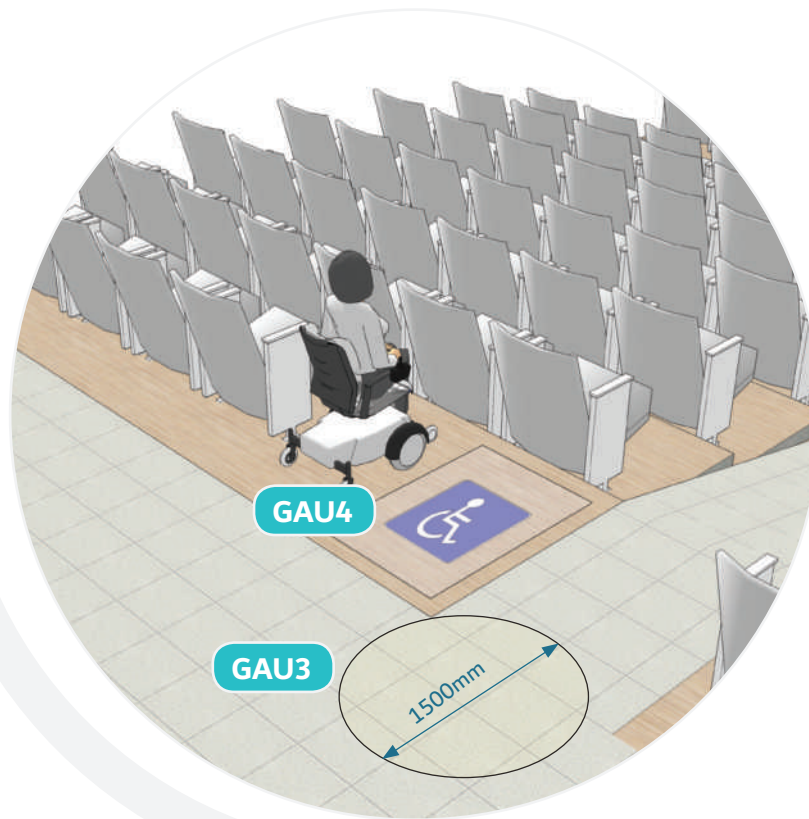
**GAU1**

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



GAU2

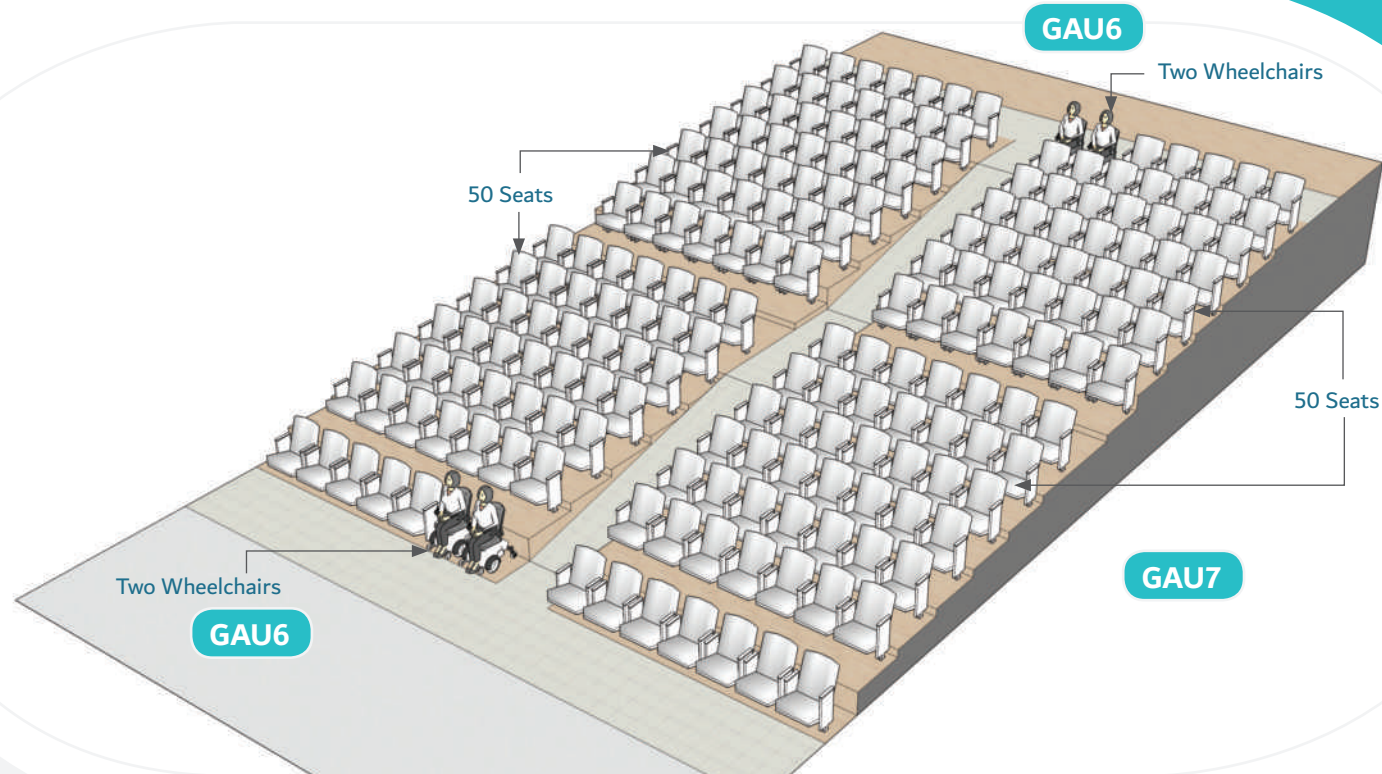
Dimension of wheelchair seating space 865 x 1420mm if frontally approached or 865 x 1500mm if laterally approached



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

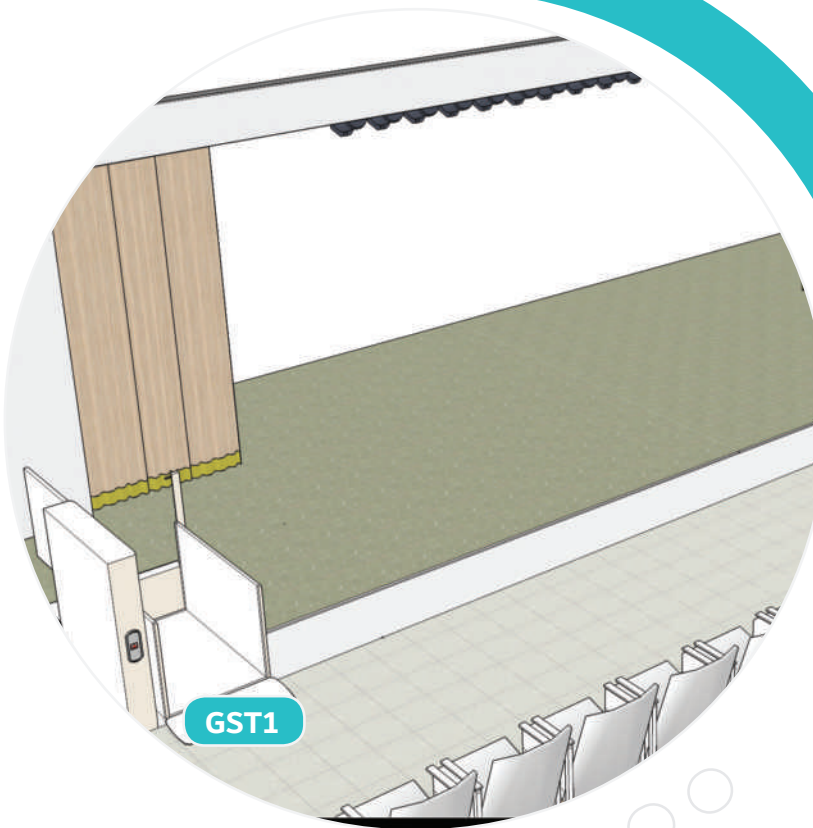
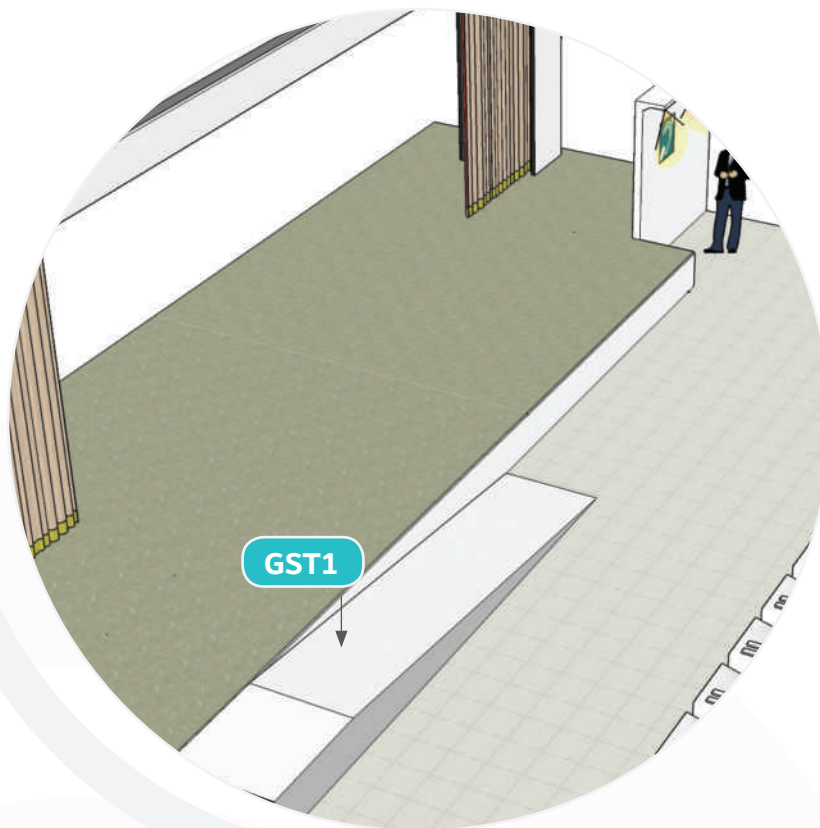


GAU8 Clearly visible space for sign language interpreter with overhead light

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

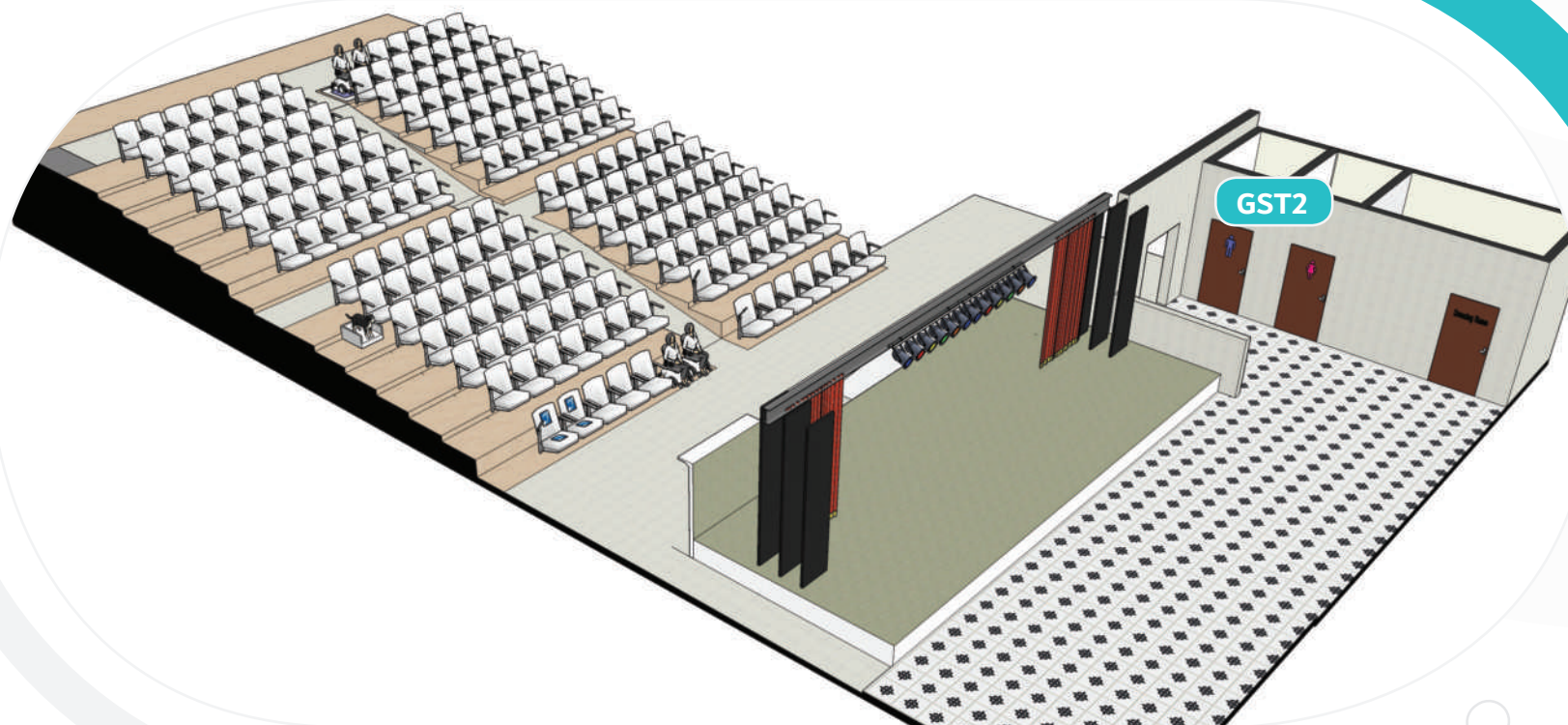
GAU10 Aisle seats and its adjacent have foldable armrests

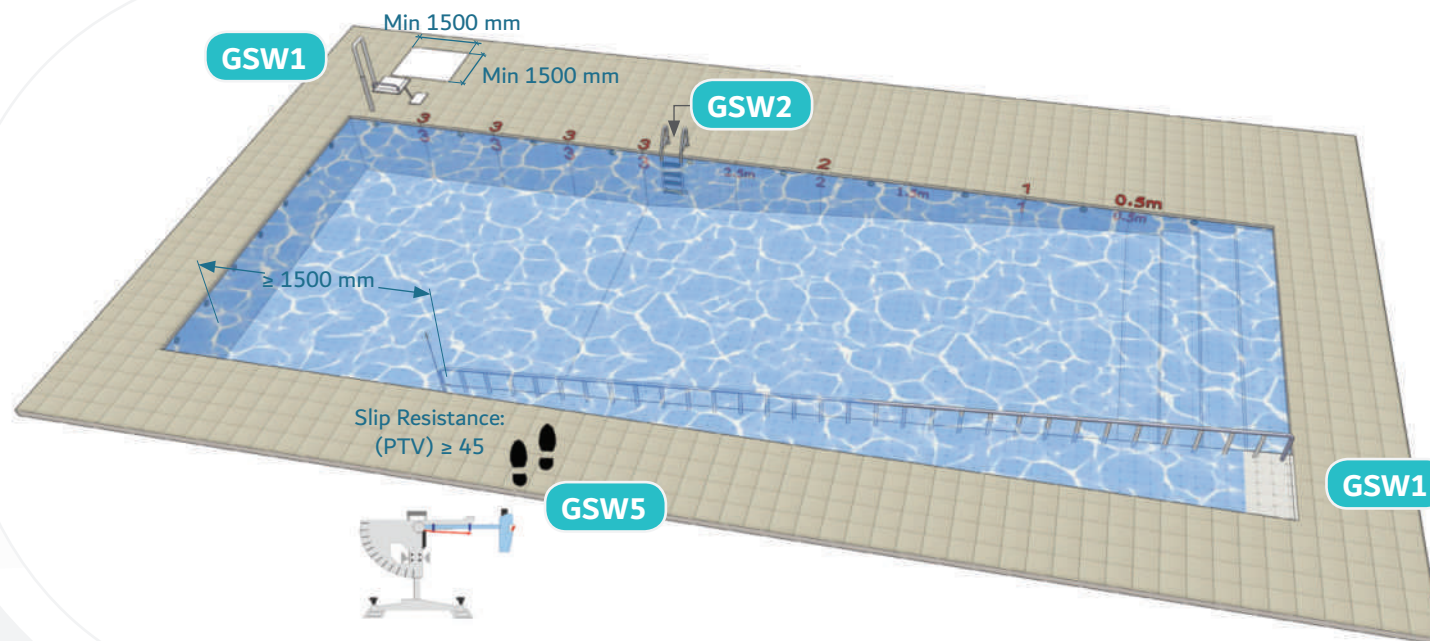
GAU11 Some seats have spaces to serve pets



GST1

Stage is accessible via ramp or lift

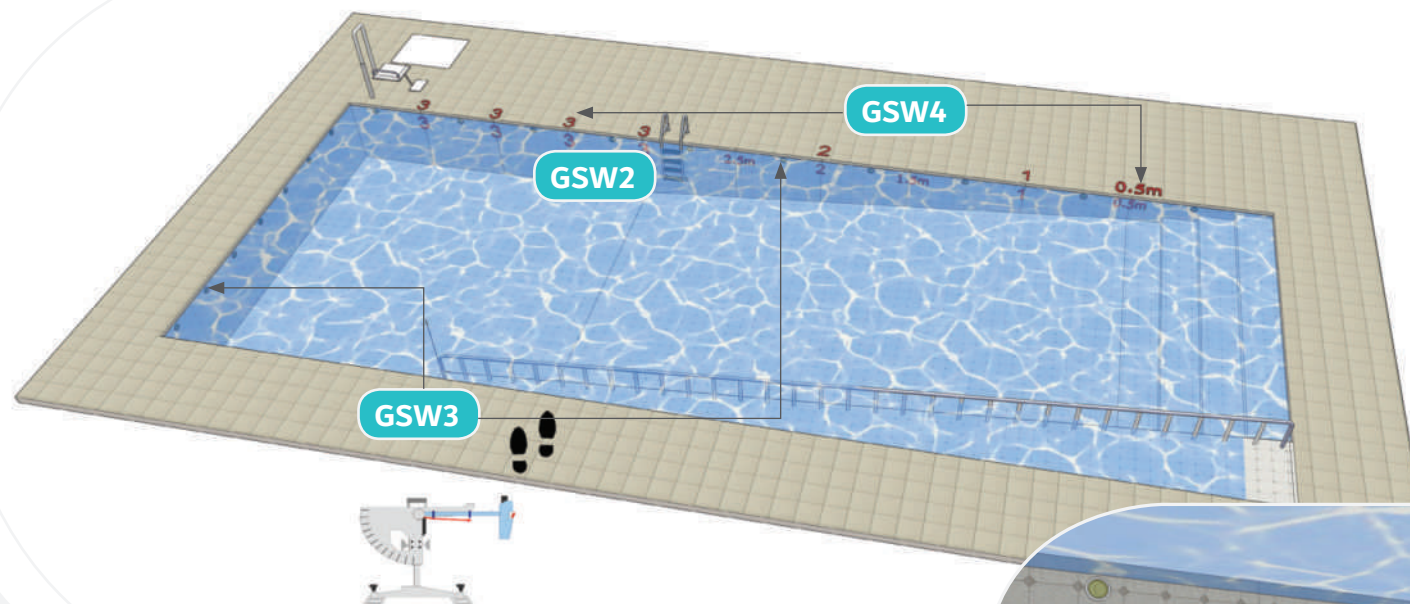




GSW1 With accessible entrance, chair lift, ramp or hoist

GSW2 With safety ladder

GSW5 Pendulum test value ≥ 45 of the floor surface of the swimming pool area

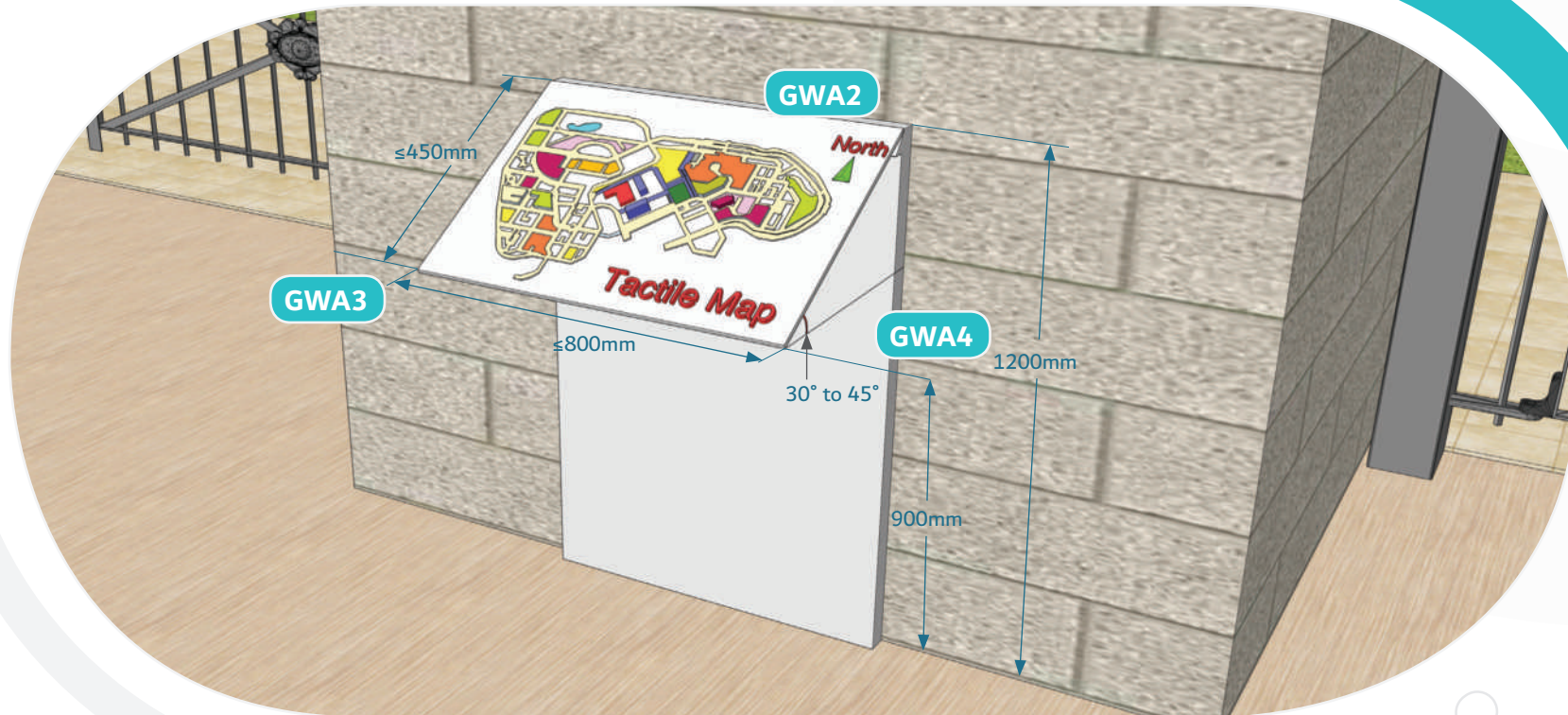


GSW3 With underwater illumination if night use is foreseen

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 ≤800 x 450mm and the font size >20mm San serif type

GWA4 The height of tactile map horizontal or inclined from the floor 900- 1200mm and the inclination between 30° to 45°

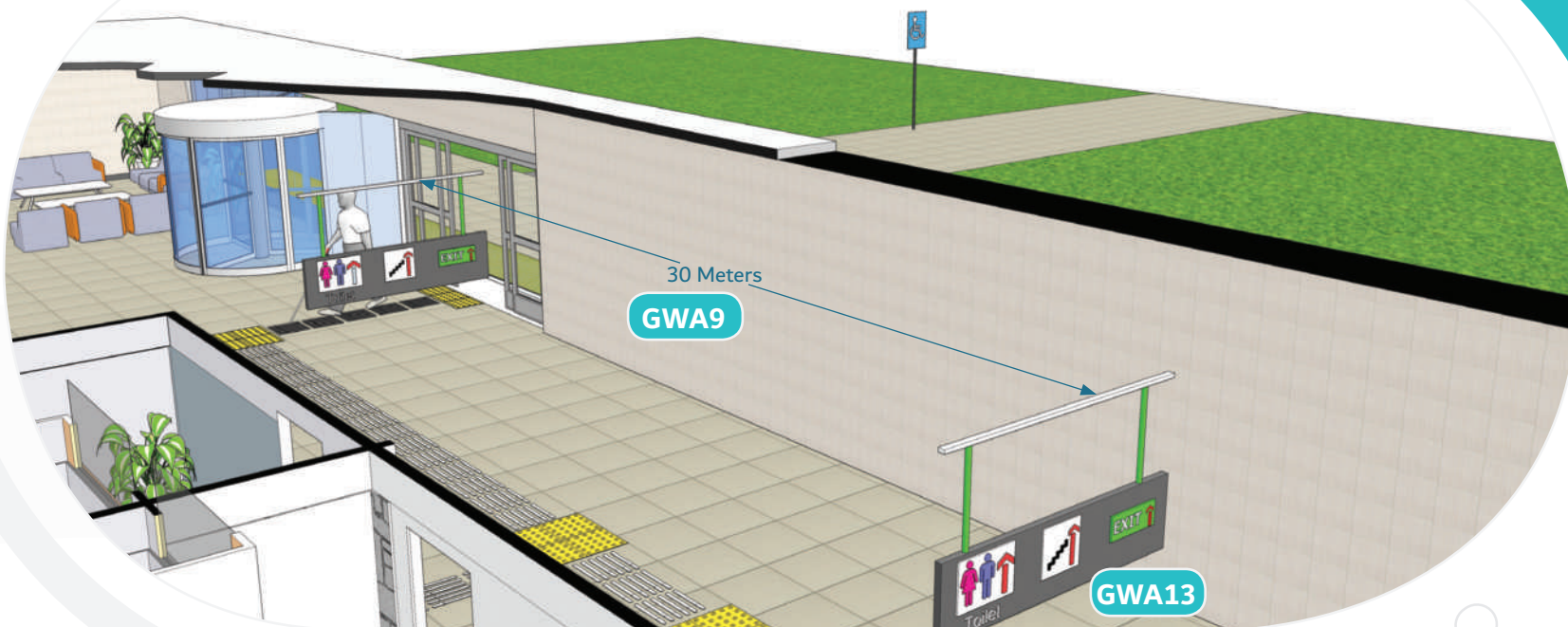


GWA5 If fixed vertically, located between 1250 - 1750mm

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

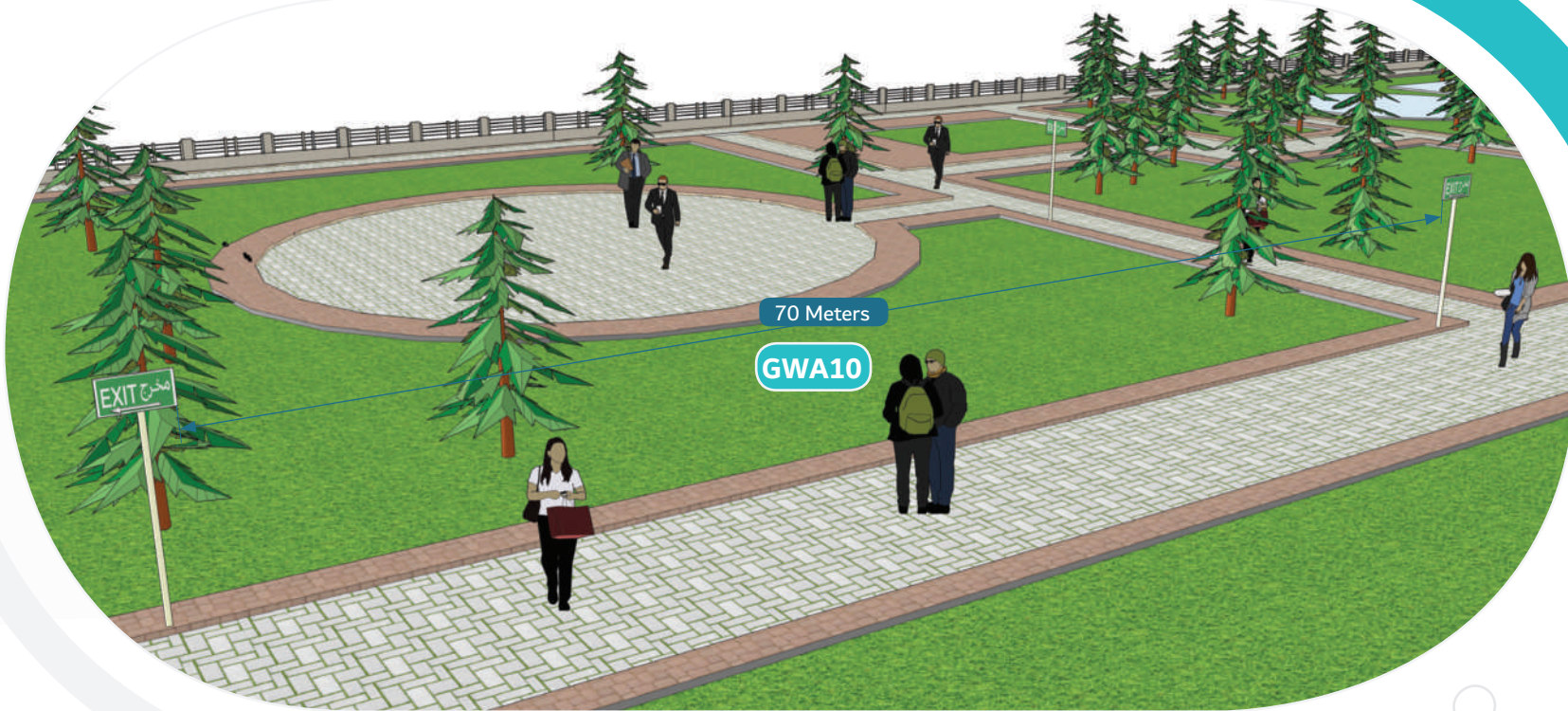


GWA9 In buildings, orientation signs every 30 meters, including exit and toilets and other services

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



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



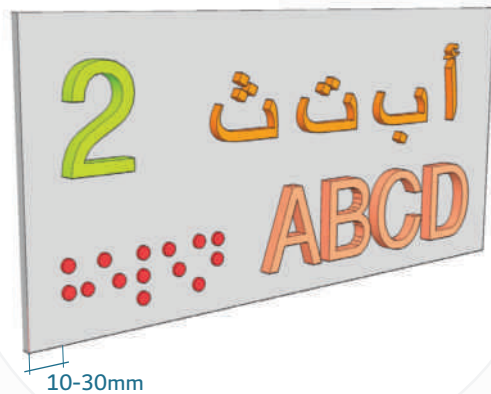
GWA10 In parks and open spaces orientation sign every 70 meters for nearest exit and nearest toilets



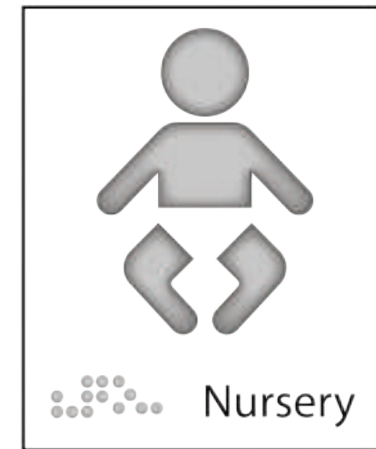
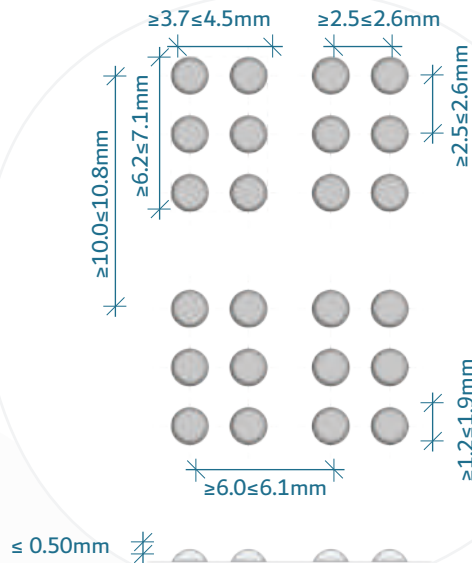
GWA8 All door frames with information signs in public buildings

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

GWA12 Includes both Arabic and English languages



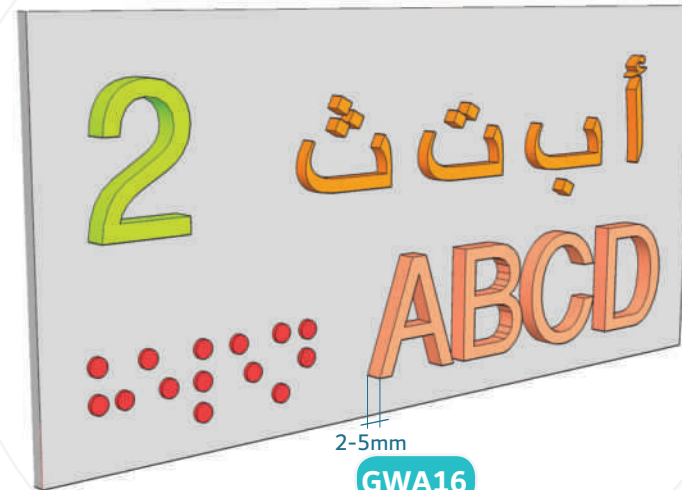
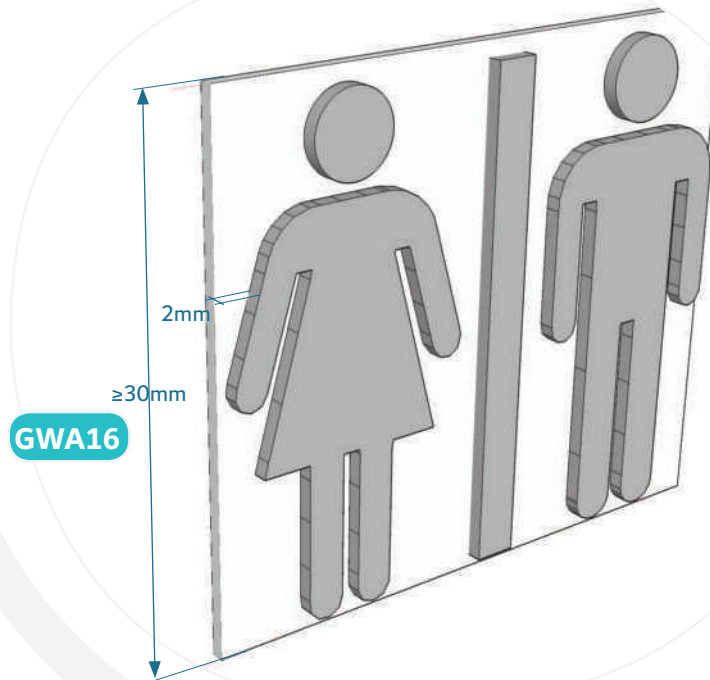
GWA14



GWA15

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

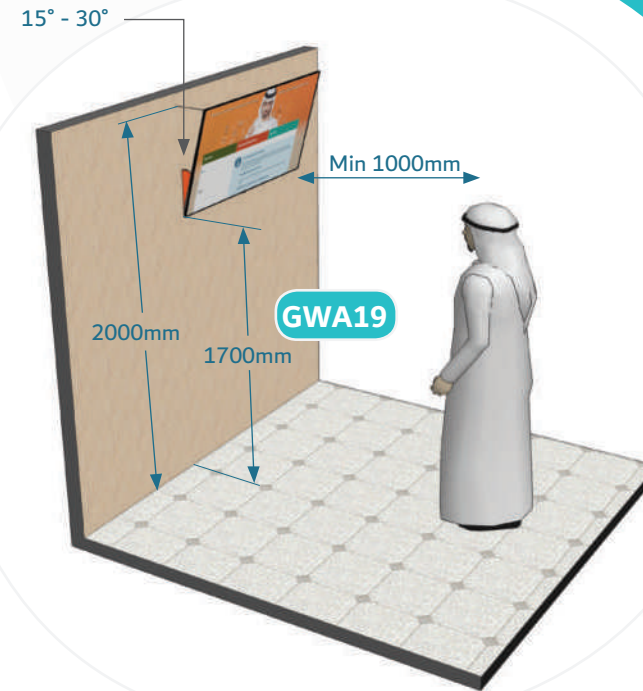
GWA15 Pictograms and symbols follow ISO 7000 : 2004 standards



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

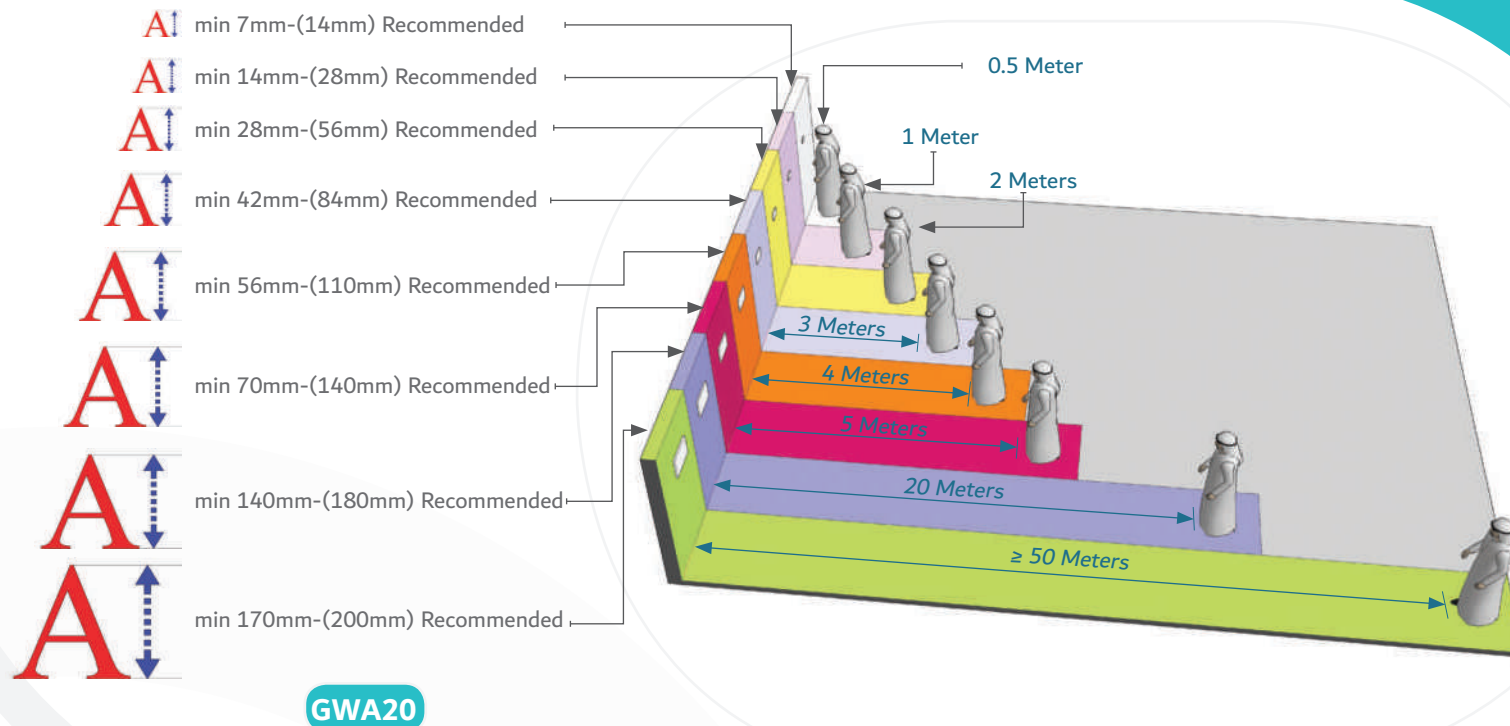


GWA17 Signs at walls located at height 1200 - 1600mm on the left side of the door



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:

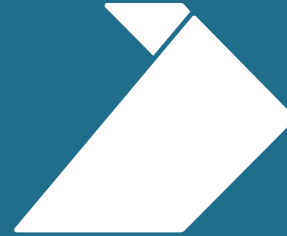
GWA20		
Reading <i>distance</i>	Minimum <i>Font Size</i>	Recommended <i>Font Size</i>
≥50 meters	170mm	200mm
20 meters	140mm	180mm
5 meters	70mm	140mm
4 meters	56mm	110mm
3 meters	42mm	84mm
2 meters	28mm	56mm
1 meters	14mm	28mm
0.5 meters	7mm	14mm



GWA21 Signs out of the accessible path and clear headroom ≥ 2200 mm



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