



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

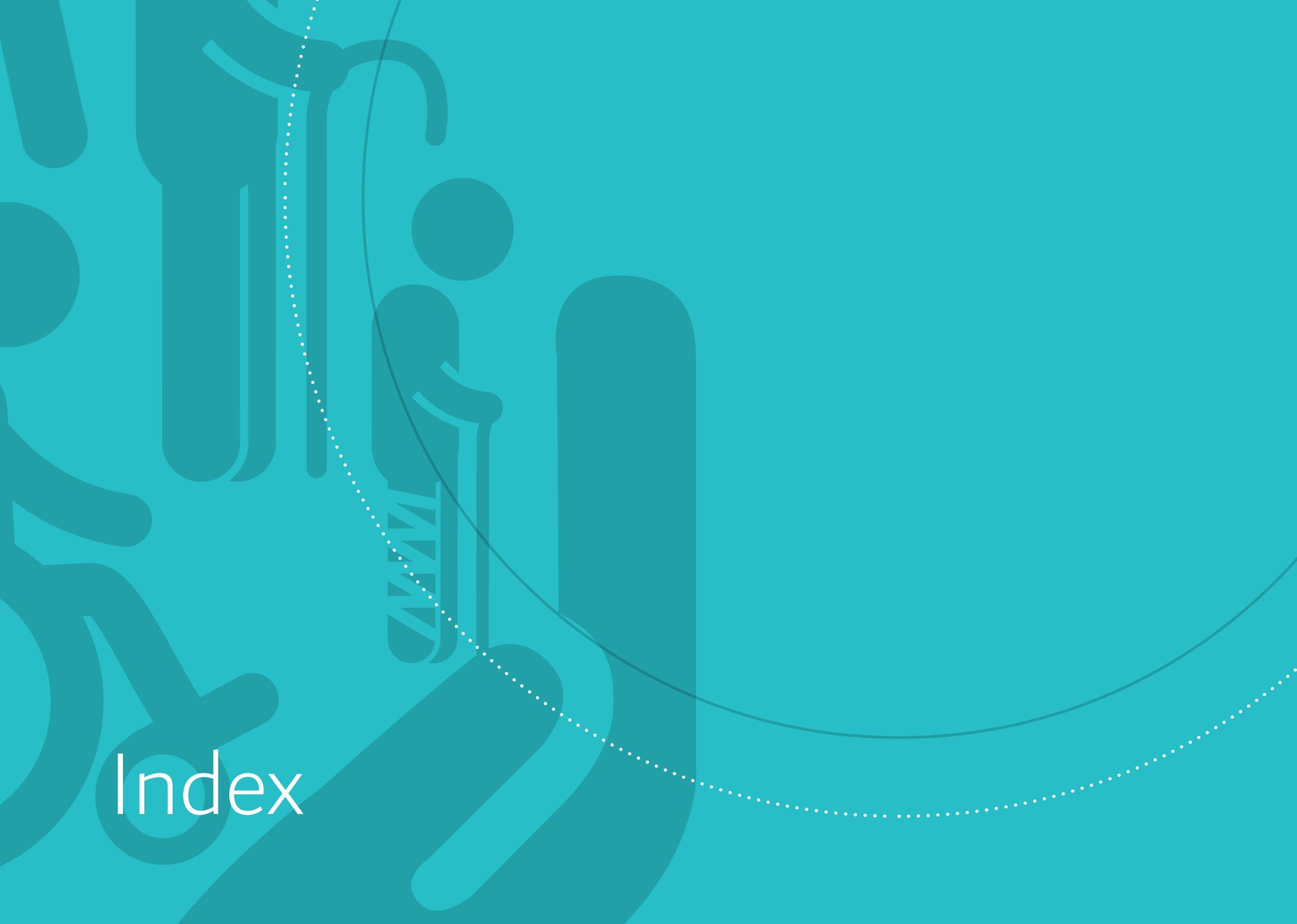
user-friendly format.

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 in various poses, some appearing to be in motion or interacting. A large, rounded rectangular shape is positioned in the lower-left quadrant. A thin, solid teal line curves across the middle of the page, and a dotted teal line curves below it, both starting from the left and extending towards the right.

Index

E | ENTRANCE

Page NO.

○ E1	41
○ E2	42
○ E3	43-45
○ E4	44-45
○ E5	51
○ E6	46
○ E7	46
○ E8	47
○ E9	44-45
○ E10	48
○ E11	49
○ E12	50
○ E13	50
○ E14	50
○ E15	50

EGT | Entrance - Guiding Tactile Pavements

○ EGT1	51
○ EGT2	52
○ EGT3	52
○ EGT4	52

ER | Entrance - Counters And Reception Areas

ER1	53
ER2	54
ER3	55
ER4	54
ER5	56
ER6	56

P | PATH

Page NO.

PE | Accessible Path Of Travel – External

PE	68
PE1	59
PE2	59
PE3	60
PE4	61
PE5	61
PE6	61
PE7	62-63
PE8	64
PE9	65
PE10	66

○ PE11	67
○ PE12	69
○ PE13	70
○ PE14	61/70
○ PE15	71

Pbs | *Path And Beach Services*

○ Pbs1	72
○ Pbs2	72
○ Pbs3	72
○ Pbs4	72
○ Pbs5	73
○ Pbs6	73
○ Pbs7	73
○ Pbs8	72-73
○ Pbs9	74
○ Pbs10	74
○ Pbs11	74
○ Pbs12	75
○ Pbs13	75
○ Pbs14	76
○ Pbs15	77

Plg | *Playgrounds*

○ Plg1	78
○ Plg2	78
○ Plg3	78
○ Plg4	78
○ Plg5	78

PF | *Floor Surface*

○ PF1	79
○ PF2	79
○ PF3	80
○ PF4	80
○ PF5	81
○ PF6	82
○ PF7	83
○ PF8	84
○ PF9	84
○ PF10	85
○ PF11	86
○ PF12	87
○ PF13	87
○ PF14	88

○ PF15	89
○ PF16	90

PI | Internal corridors

○ PI1	91
○ PI2	91
○ PI3	92
○ PI4	92
○ PI5	91
○ PI6	93

LC | LEVEL CHANGES

Page NO.

LCG | Guardrails

○ LCG1	95
○ LCG2	95
○ LCG3	95
○ LCG4	96
○ LCG5	96
○ LCG6	97

LCWT | *Warning tactile surface*

○ LCWT1	98-99
○ LCWT2	98-99
○ LCWT3	100
○ LCWT4	100
○ LCWT5	101
○ LCWT6	101

LCR | *Ramps*

○ LCR1	102
○ LCR2	102
○ LCR3	102
○ LCR4	102
○ LCR5	103
○ LCR6	104
○ LCR7	105
○ LCR8	105
○ LCR9	105
○ LCR10	106

LCS | *Stairs*

○ LCS1	107
○ LCS2	108
○ LCS3	108
○ LCS4	108
○ LCS5	109
○ LCS6	109
○ LCS7	110
○ LCS8	110
○ LCS9	111
○ LCS10	111
○ LCS11	112
○ LCS12	113
○ LCS13	112
○ LCS14	114

LCH | *Handrail for Ramps & Stairs > 500mm high*

○ LCH1	115
○ LCH2	115
○ LCH3	116
○ LCH4	116
○ LCH5	117

○ LCH6	118
○ LCH7	118
○ LCH8	118
○ LCH9	118

LCE | *elevators*

○ LCE1	119
○ LCE2	119
○ LCE3	120
○ LCE4	121
○ LCE5	122
○ LCE6	123
○ LCE7	123
○ LCE8	124
○ LCE9	124
○ LCE10	123
○ LCE11	125
○ LCE12	125
○ LCE13	125
○ LCE14	125
○ LCE15	126
○ LCE16	127
○ LCE17	128

○	LCE18	129
○	LCE19	129
○	LCE20	129
○	LCE21	130
○	LCE22	129
○	LCE23	131
○	LCE24	131

LCL | *Lift Platforms, if provided*

○	LCL1	133
○	LCL2	132
○	LCL3	132
○	LCL4	133
○	LCL5	134
○	LCL6	134
○	LCL7	133
○	LCL8	133
○	LCL9	134

LCEs | *Escalators, Travellators & Mechanical Ramps*

○	LCEs1	135
○	LCEs2	135

○ LCEs3	135
○ LCEs4	136

SP | Sanitary Provisions

Page NO.

SPpt | Public Toilets

○ SPpt1	139
○ SPpt2	140
○ SPpt3	141
○ SPpt4	141
○ SPpt5	141
○ SPpt6	142
○ SPpt7	142
○ SPpt8	142
○ SPpt9	143
○ SPpt10	143
○ SPpt11	143
○ SPpt12	143
○ SPpt13	144
○ SPpt14	145
○ SPpt15	145
○ SPpt16	146

○ SPpt17	146
○ SPpt18	147
○ SPpt19	148
○ SPpt20	148
○ SPpt21	149
○ SPpt22	149

SPat | Accessible toilet

○ SPat1	150
○ SPat2	151
○ SPat3	152
○ SPat4	152
○ SPat5	153
○ SPat6	153
○ SPat7	154
○ SPat8	154
○ SPat9	155
○ SPat10	155
○ SPat11	155
○ SPat12	155

SPgb | *Grab bars in accessible toilets*

○ SPgb1	156
○ SPgb2	156
○ SPgb3	157
○ SPgb4	157
○ SPgb5	158-159
○ SPgb6	158-159
○ SPgb7	160
○ SPgb8	161
○ SPgb9	161

SPsh | *Showers, if provided*

○ SPsh1	162
○ SPsh2	162
○ SPsh3	163
○ SPsh4	164
○ SPsh5	164
○ SPsh6	164
○ SPsh7	164
○ SPsh8	165

SPff | *Full family toilet*

○ SPff1	166
○ SPff2	166
○ SPff3	166
○ SPff4	166
○ SPff5	166

Spfe | *Feeding Rooms*

○ Spfe1	167- 168
○ Spfe2	167- 168
○ Spfe3	167- 168
○ Spfe4	167- 168

Spab | *Ablution areas, if provided*

○ Spab1	169
○ Spab2	170
○ Spab3	171
○ Spab4	171
○ Spab5	172
○ Spab6	170
○ Spab7	170

CHR | CHANGING ROOMS

Page NO.

CHR | *Accessible dressing or changing rooms*

○ CHR1	175
○ CHR2	175
○ CHR3	175
○ CHR4	175

FU | Furniture

Page NO.

FUt | *Tables*

○ FU1	177-179/181
○ FUt1	177
○ FUt2	177
○ FUt3	177
○ FUt4	178

Fubc | *Benches and Chairs*

○ FUbc1	179
○ FUbc2	179
○ FUbc3	179

○	FUbc4	179
○	FUbc5	179
○	FUbc6	180

FUd | *Drinking fountains, if provided*

○	FUd1	181
○	FUd2	181
○	FUd3	181
○	FUd4	181
○	FUd5	181
○	FUd6	181

FUtb | *Trash bins, if provided*

○	FUb1	182
○	FUb2	182
○	FUb3	182
○	FUb4	183
○	FUb5	184
○	FUb6	184
○	FUb7	184

FUv | *Vending machines and ATM's, if provided*

○ FUv1	185
○ FUv2	185
○ FUv3	186
○ FUv4	186
○ FUv5	186
○ FUv6	187
○ FUv7	188
○ FUv8	189
○ FUv9	189
○ FUv10	189
○ FUv11	187

FUb | *Bollards, planters, telephone booths and other furniture elements, if provided*

○ FUb1	190-191
---------------	----------------

FCk | *Commercial Kiosk*

○ FCk1	192-193
○ FCk2	192-193
○ FCk3	192-193
○ FCk4	192-193

○ Fck5	192-193
○ Fck6	192-193

PA | Parking and drop off point

Page NO.

PA | Accessible parking places, access to parking lots

○ PA1	195
○ PA2	196
○ PA3	196
○ PA4	197-198
○ PA5	197-198
○ PA6	197-198
○ PA7	197-198
○ PA8	198

RS | Reserved Seating Spaces

Page NO.

RS | Auditorium, Sport stadium, theater , etc

○ RS1	201
-------	-----

HE | *Hearing Enhancement*

Page NO.

HE | *induction loop, FM, infrared (through expert advice)*

○ HE1	203
○ HE2	204
○ HE3	204
○ HE4	204
○ HE5	204
○ HE6	203
○ HE7	204

MD | *Museums Design aspects*

Page NO.

○ MD1	207
○ MD2	207
○ MD3	207
○ MD4	207

AR | *Accessible Room*

Page NO.

ARh | *Rooms*

○ ARh1	209
○ ARh2	209

○ ARh3	209
○ ARh4	210
○ ARh5	210
○ ARh6	211
○ ARh7	211
○ ARh8	212
○ ARh9	209
○ ARh10	212
○ ARh11	213
○ ARh12	211

Ard | Dining rooms

○ ARd1	214/216/217
○ ARd2	215
○ ARd3	215
○ ARd4	214
○ ARd5	216
○ ARd6	214 /216
○ ARd7	217

GD | *Doors*

GD1	219
GD2	219
GD3	219
GD4	219
GD5	220
GD6	221
GD7	221
GD8	222
GD9	222
GD10	223
GD11	224
GD12	225
GD13	226
GD14	227
GD15	227
GD16	228

GW | *Windows*

○ GW1	229
○ GW2	230
○ GW3	229
○ GW4	229
○ GW5	229

GS | *Switches*

○ GS1	231
○ GS2	231
○ GS3	231

GG | *Glass Surfaces*

○ GG1	232-233
○ GG2	232-233
○ GG3	232-233

GM | *Mailbox, Garbage, Parking meters and Recycling containers*

○ GM1	234-235
○ GM2	234-235
○ GM3	234

GR | *Restaurant terraces*

○ GR1	236
○ GR2	236
○ GR3	236
○ GR4	236
○ GR5	236

GBsh | *Bus shelters*

○ GBsh1	237
○ GBsh2	237
○ GBsh3	238
○ GBsh4	237
○ GBsh5	237
○ GBsh6	237-238
○ GBsh7	239
○ GBsh8	239
○ GBsh9	240
○ GBsh10	240
○ GBsh11	237-238

GBs | *Bus signpost*

○ GBs1	241
○ GBs2	241
○ GBs3	241
○ GBs4	241
○ GBs5	242

GAE | *Alarms and means of Egress*

○ GAE1	243
○ GAE2	243
○ GAE3	243
○ GAE4	
○ GAE5	243
○ GAE6	243
○ GAE7	244
○ GAE8	244
○ GAE9	244

GGe | *Gender equality*

○ GGe1	245
---------------	------------

GS | *Storage facilities and lockers*

○ GS1	246
○ GS2	246
○ GS3	246
○ GS4	246

GF | *First aid facilities*

○ GF1	247
○ GF2	247

GB | *General Balconies*

○ GB1	248
○ GB2	248
○ GB3	248
○ GB4	248

GAU | *Auditorium seating spaces*

○ GAU1	249
○ GAU2	250
○ GAU3	251
○ GAU4	251

○ GAU5	251
○ GAU6	252
○ GAU7	252
○ GAU8	253
○ GAU9	253
○ GAU10	253
○ GAU11	253

GST | *Stage and backstage*

○ GST1	254
○ GST2	255

GSW | *Swimming Pools*

○ GSW1	256
○ GSW2	256
○ GSW3	257
○ GSW4	257
○ GSW5	256

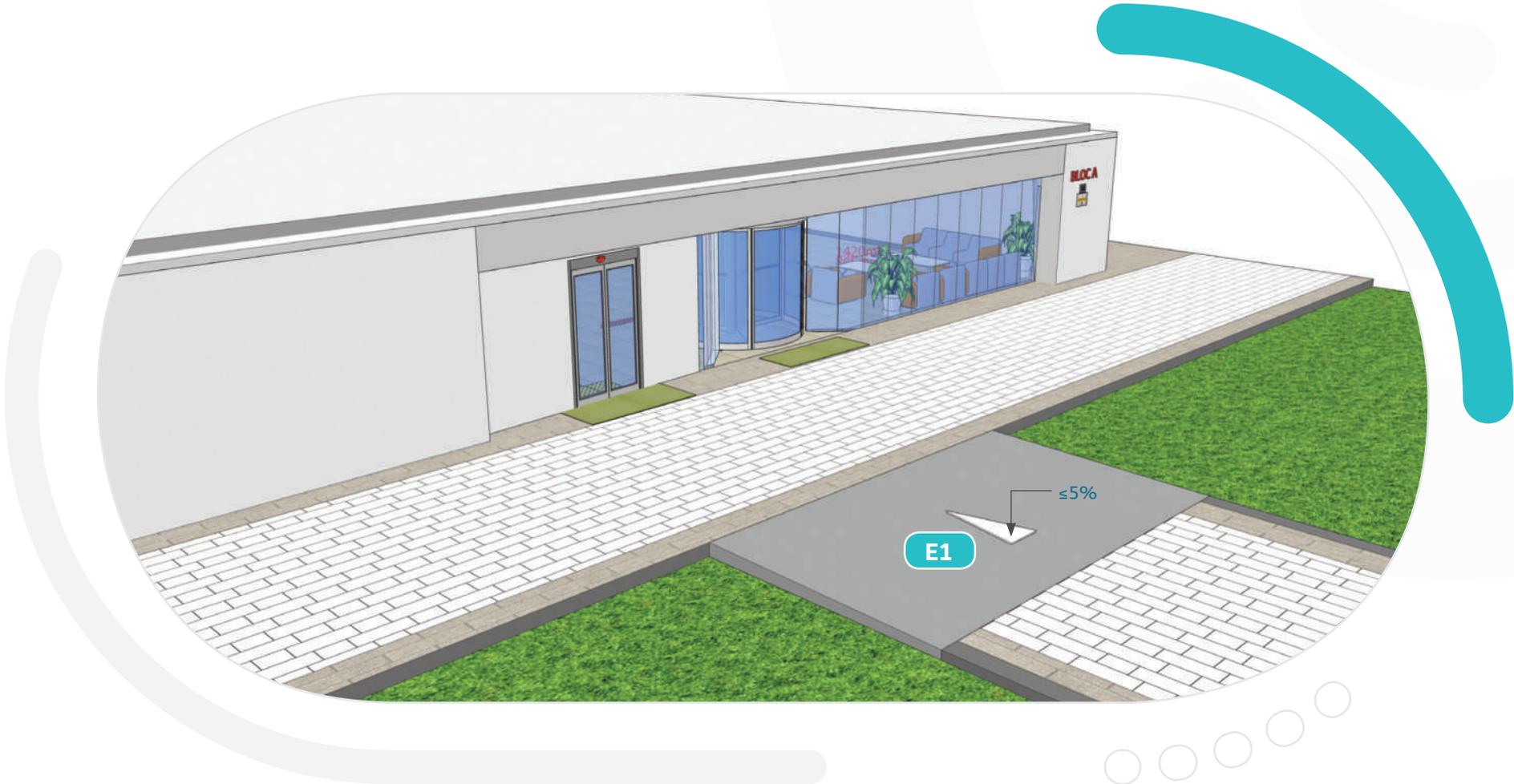
GWA | *Wayfinding*

GWA1	258
GWA2	259
GWA3	259
GWA4	259
GWA5	260
GWA6	260
GWA7	261
GWA8	265
GWA9	262
GWA10	263-264
GWA11	265
GWA12	265
GWA13	262
GWA14	266
GWA15	266
GWA16	267
GWA17	268
GWA18	269
GWA19	269
GWA20	270-271
GWA21	272

Entrance



E Entrance



E1 Gradients of entrances $\leq 5\%$



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

E Entrance



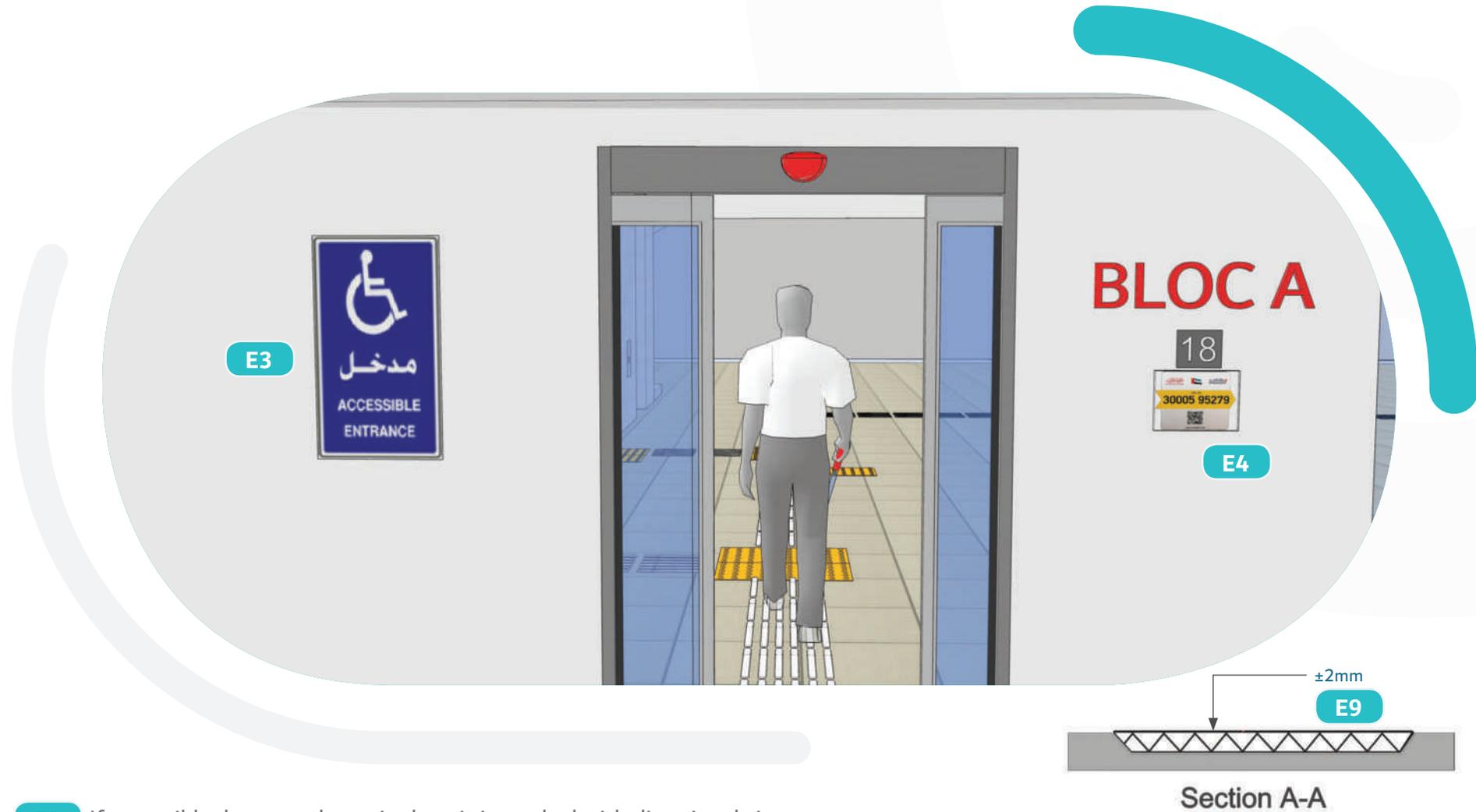
E3 If accessible door not the main door, it is marked with directional sign



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

E4 Identification number and exact address for each entrance

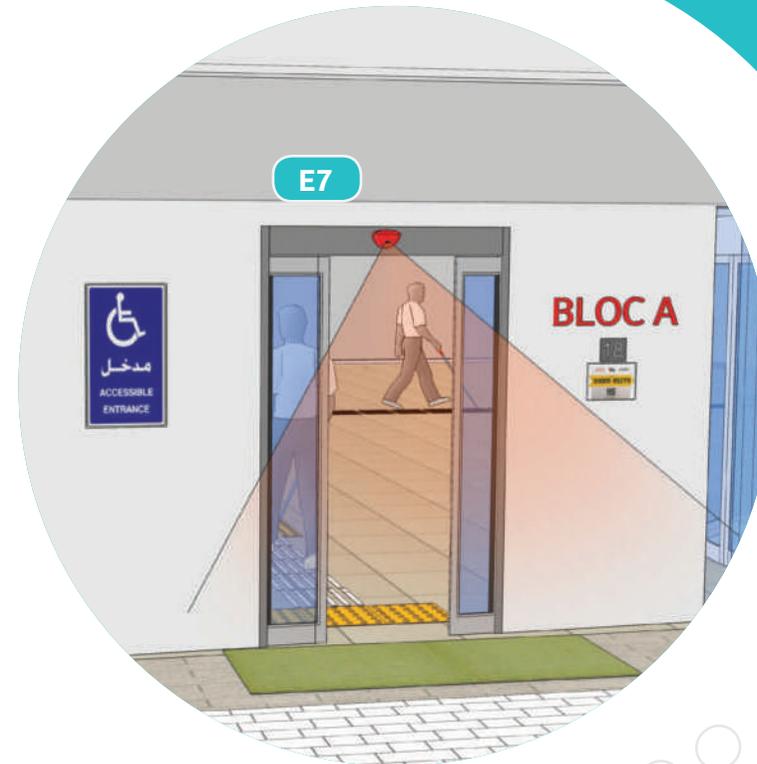
E9 Doormats levelled with $\pm 2\text{mm}$



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

E4 Identification number and exact address for each entrance

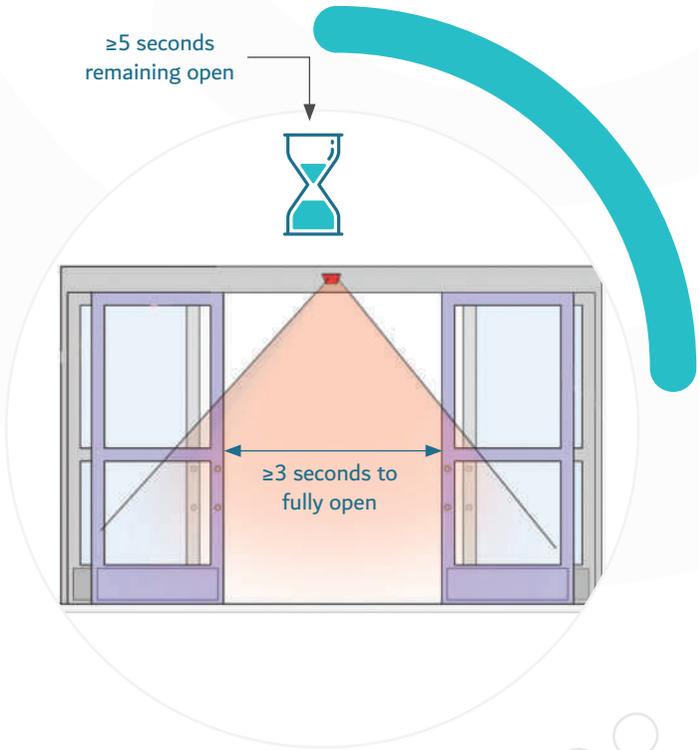
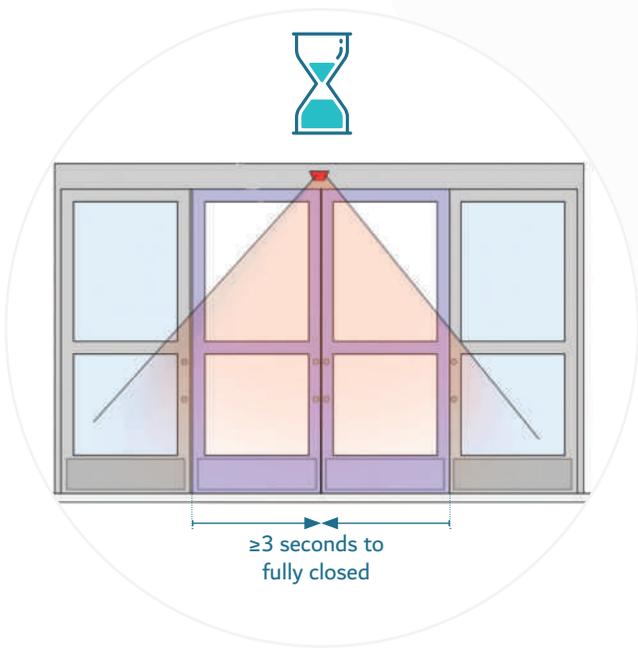
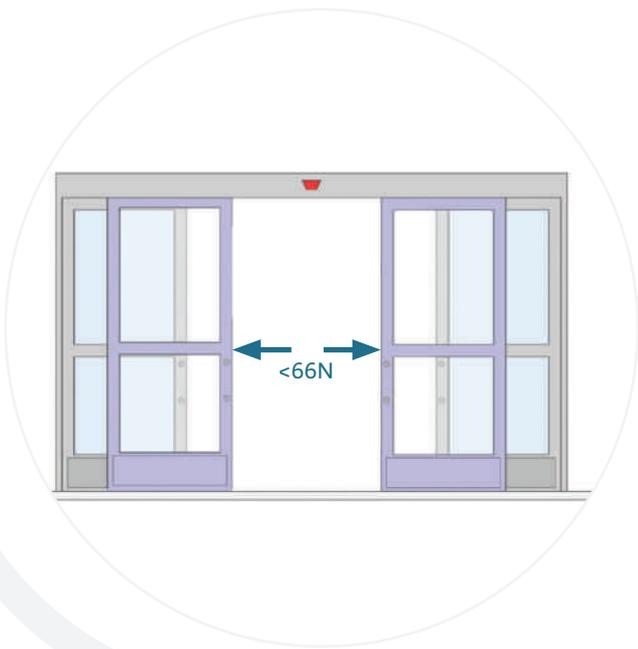
E9 Doormats levelled with $\pm 2\text{mm}$



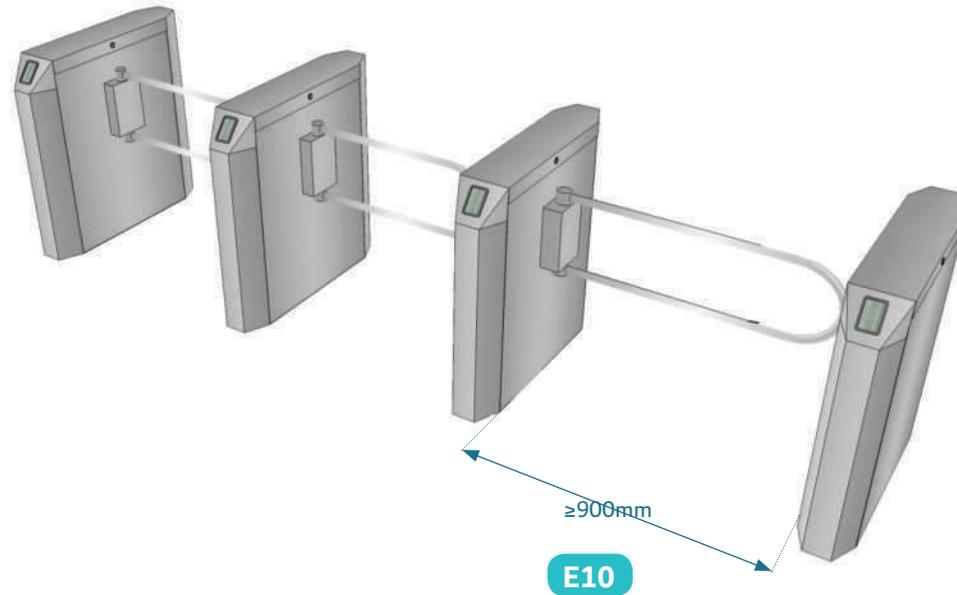
E6 Dimensions of the doors $\geq 900\text{mm}$ width x 2100mm height

E7 Automatic door

E8

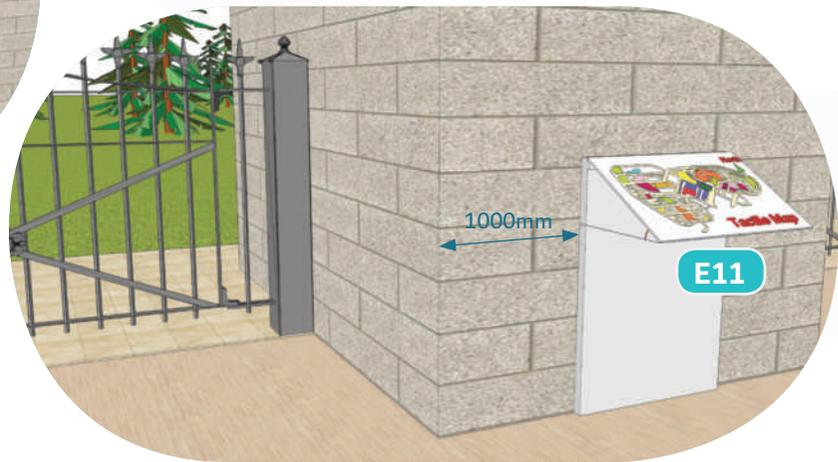
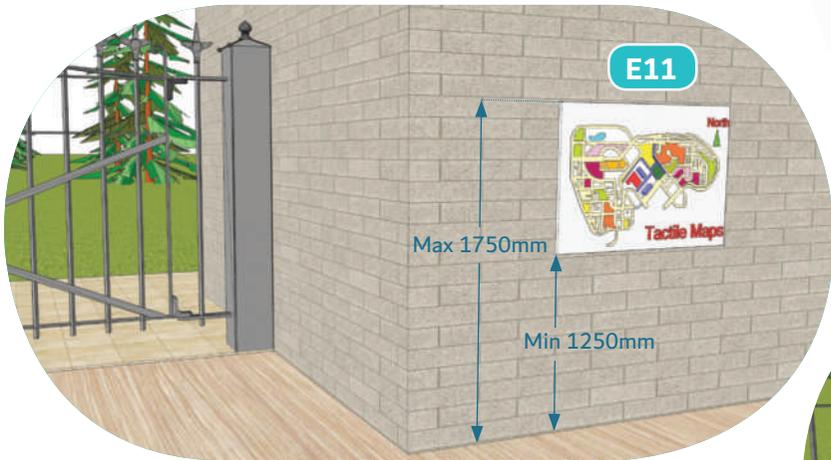


E8 3 seconds or more to move from closed to fully open position - Remain fully open for a minimum 5 seconds - Force not more than 66N

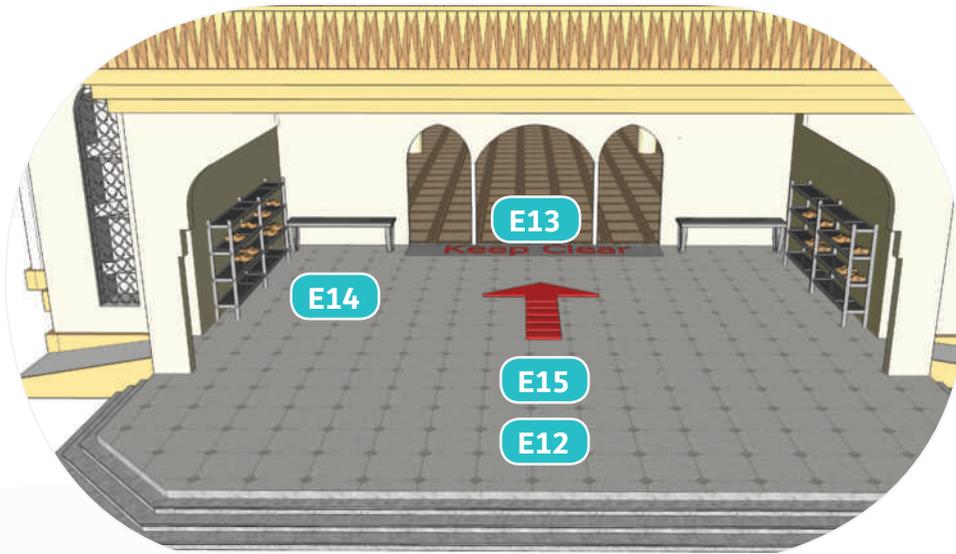


E10 Access controls barriers with at least one barrier with width $\geq 900\text{mm}$ if provided

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**

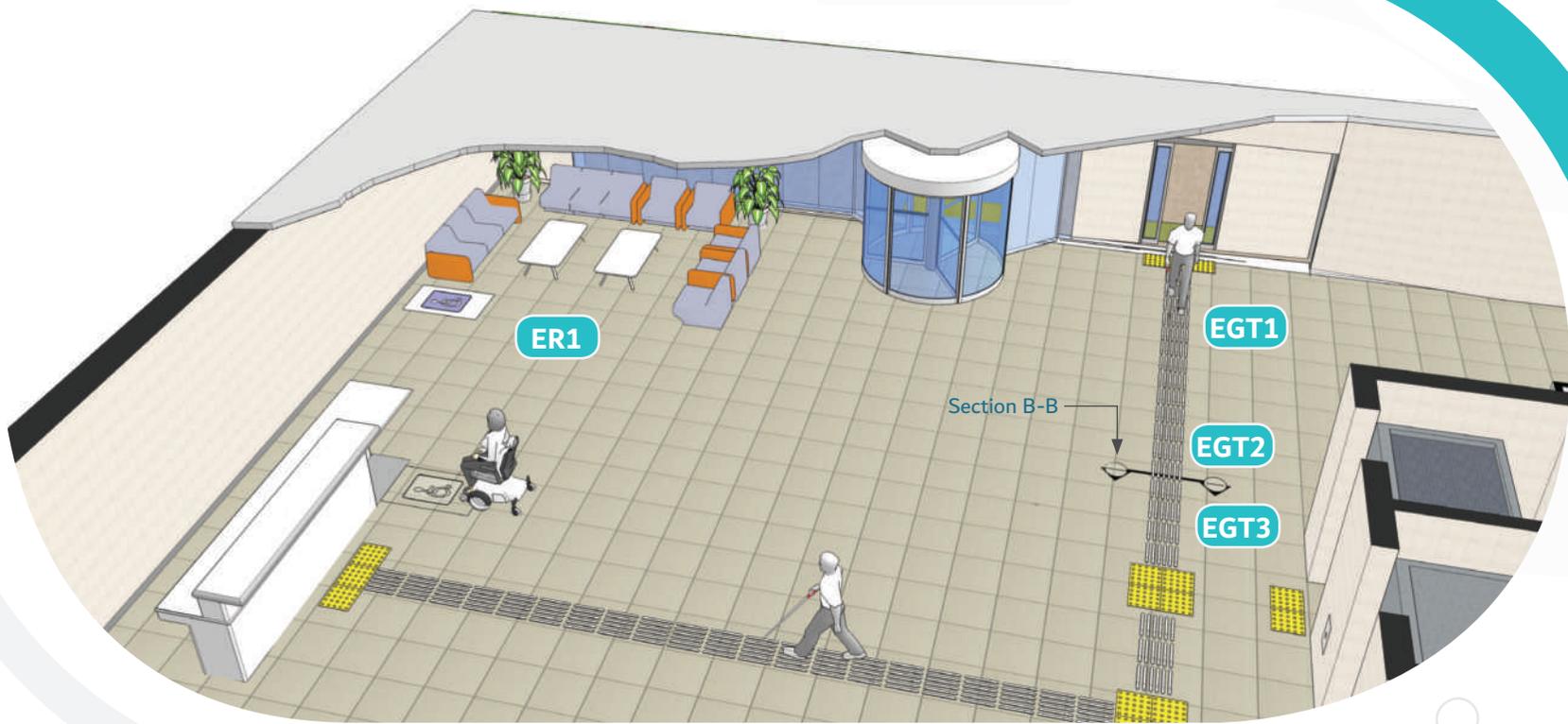
E12 A clear Area provided at the entrance to prevent shoes from blocking the accessible path

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

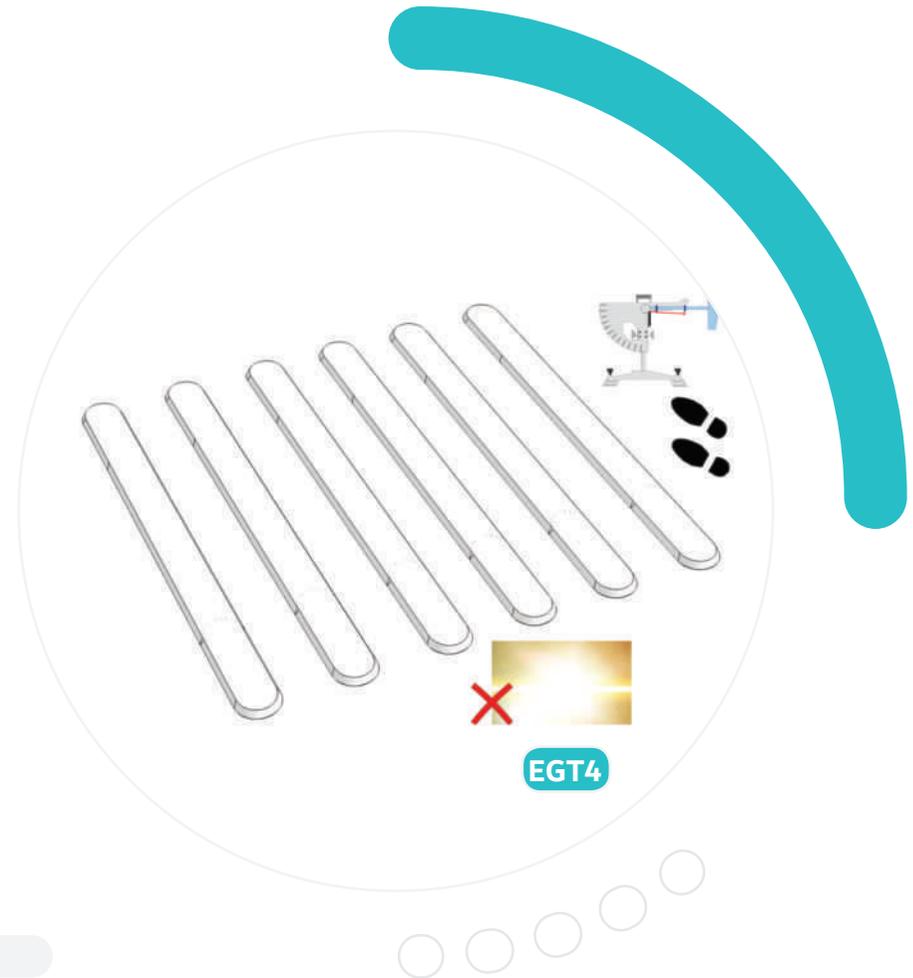
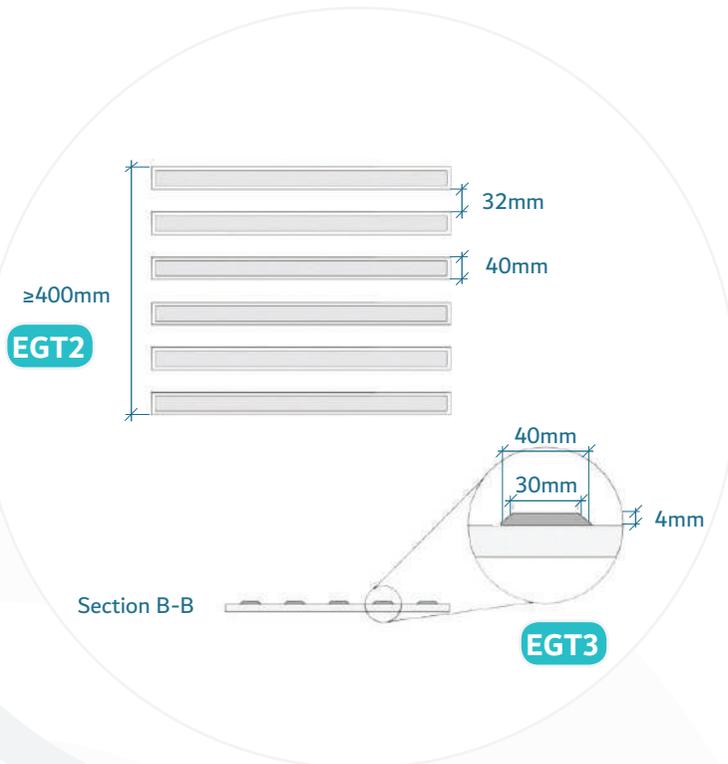
E15 An accessible entrance is provided

EGT Entrance - Guiding Tactile Pavements



E5 In public use buildings, reception desk near the entrance

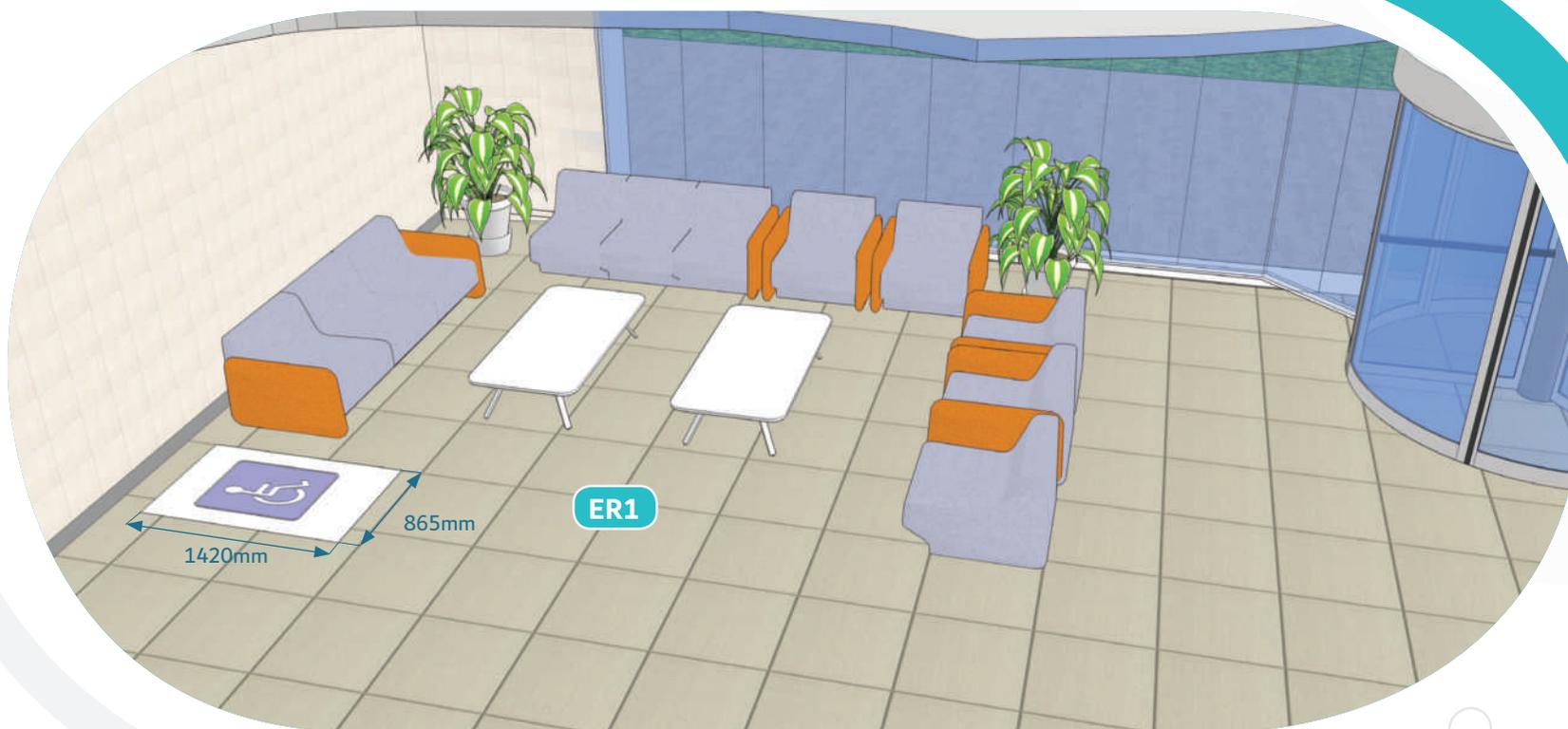
EGT1 Guiding tactile pavement from building entrance to information desk or reception in administration buildings and where required



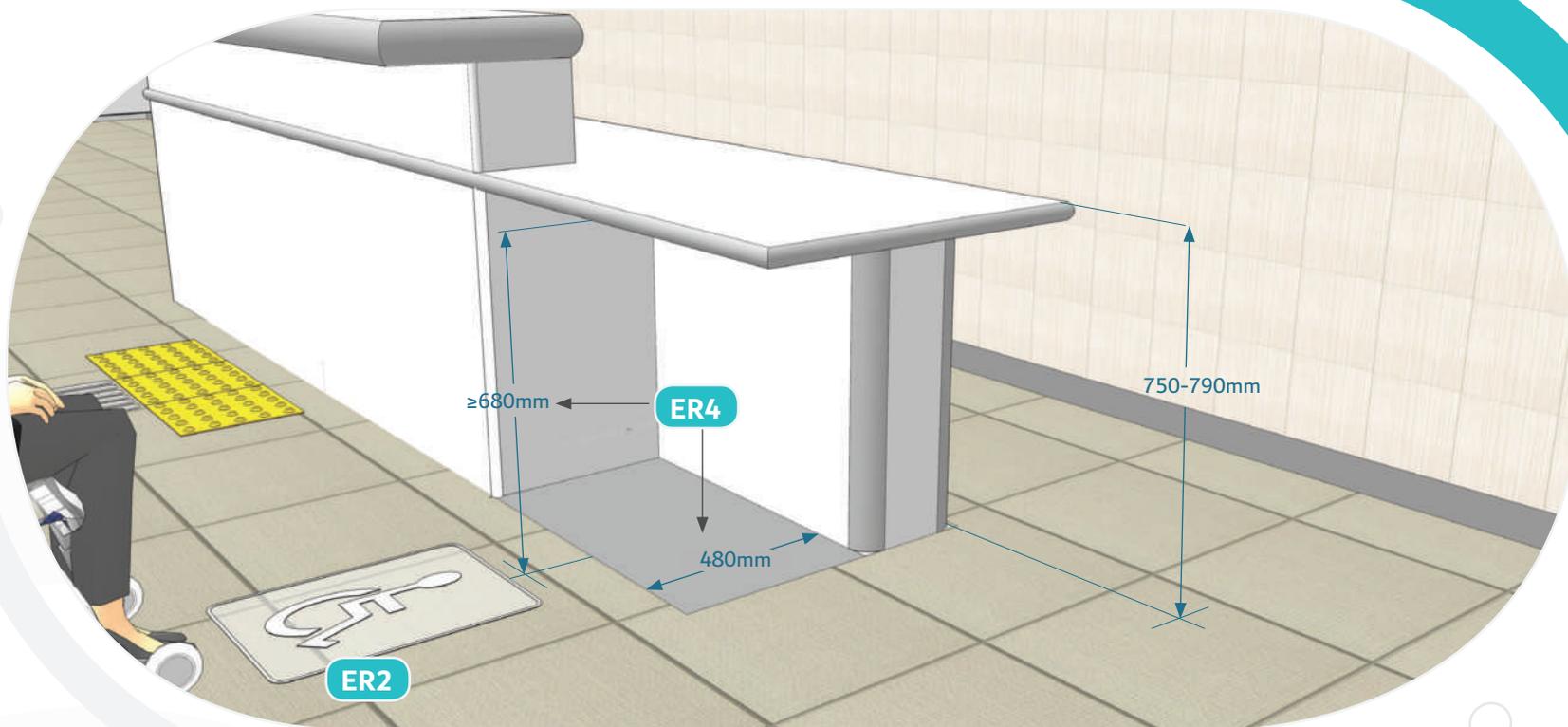
EGT2 Guiding tactile pavement width $\geq 400\text{mm}$

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

EGT4 Non glare or shiny or slippery

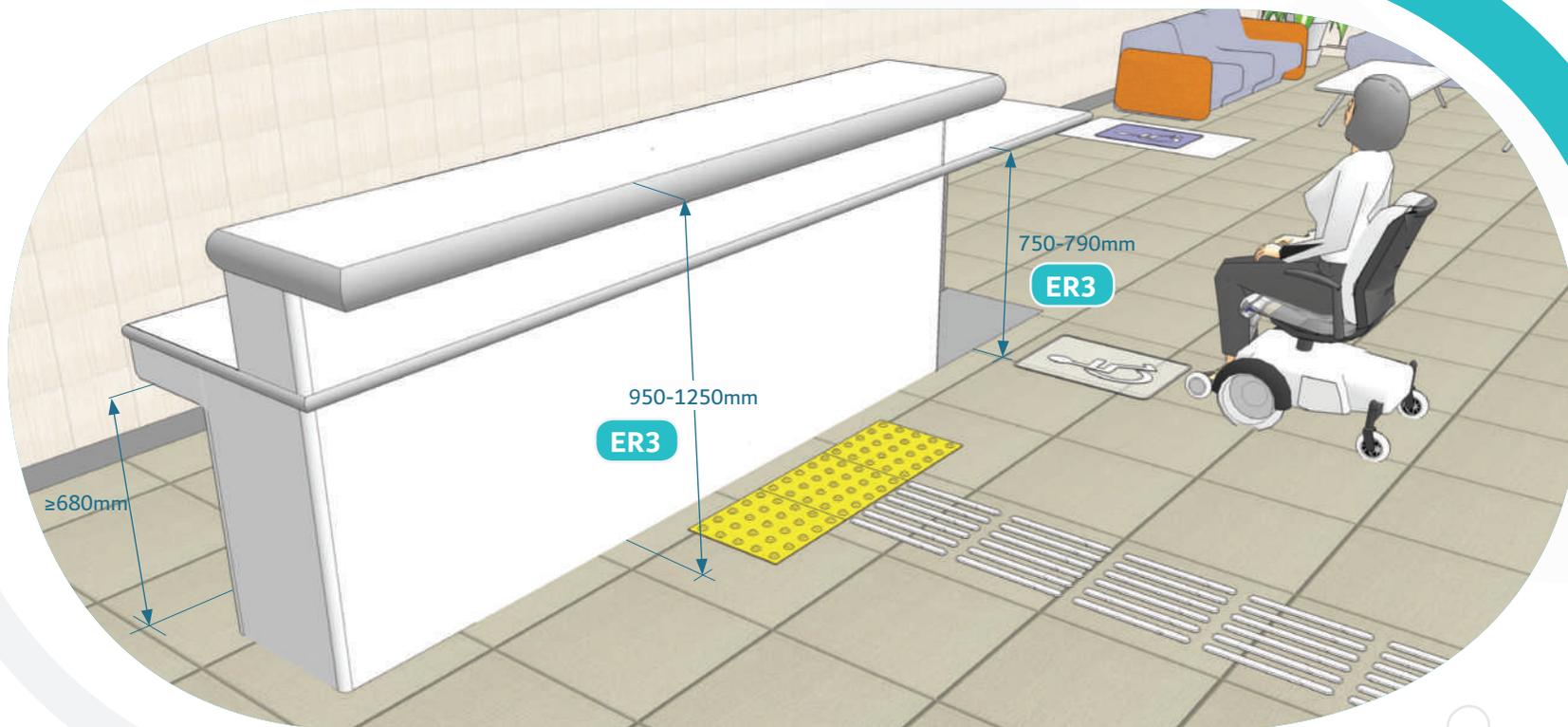


ER1 Reception areas with seating places and interaction spaces

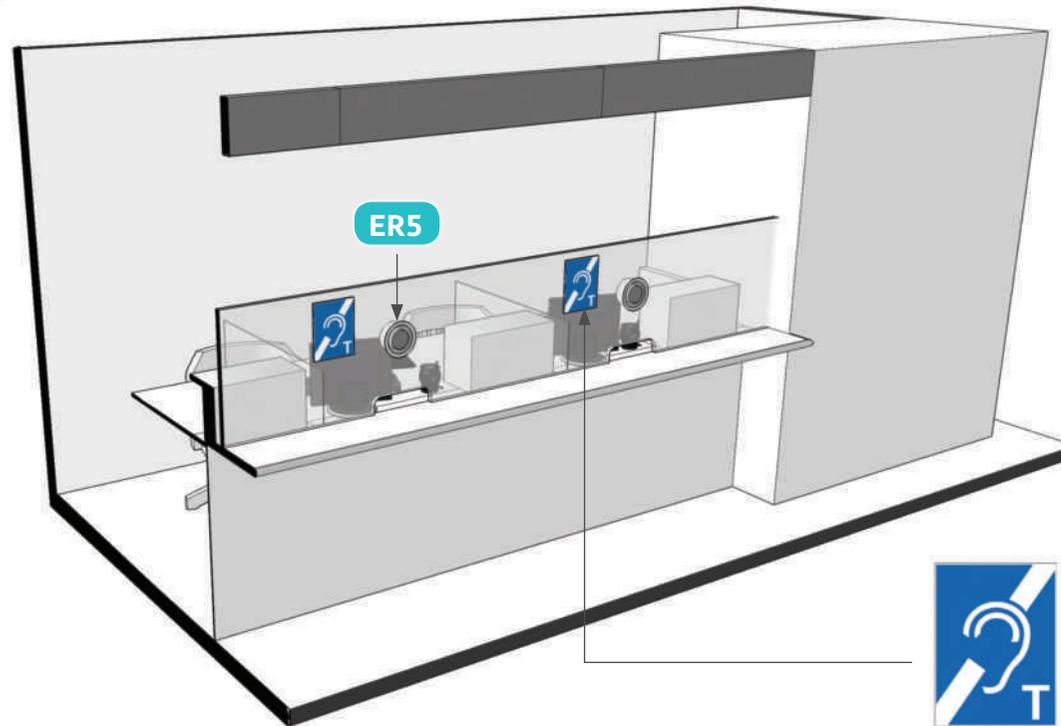


ER2 Front desks with accessible interaction space

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

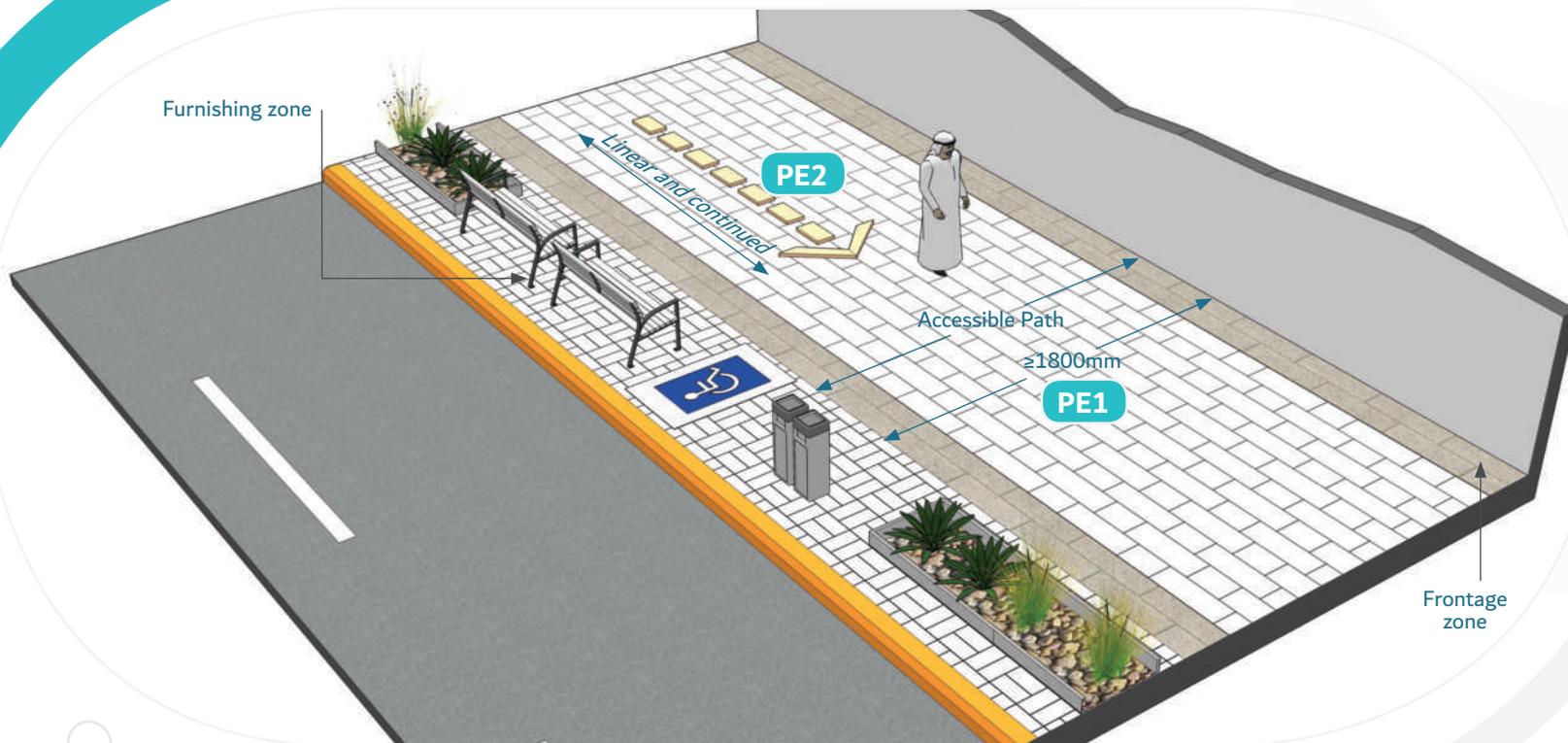


ER5 When required, hearing enhancement systems using induction loop, infrared and radio frequency are provided

ER6 With international symbol if access for hearing loss

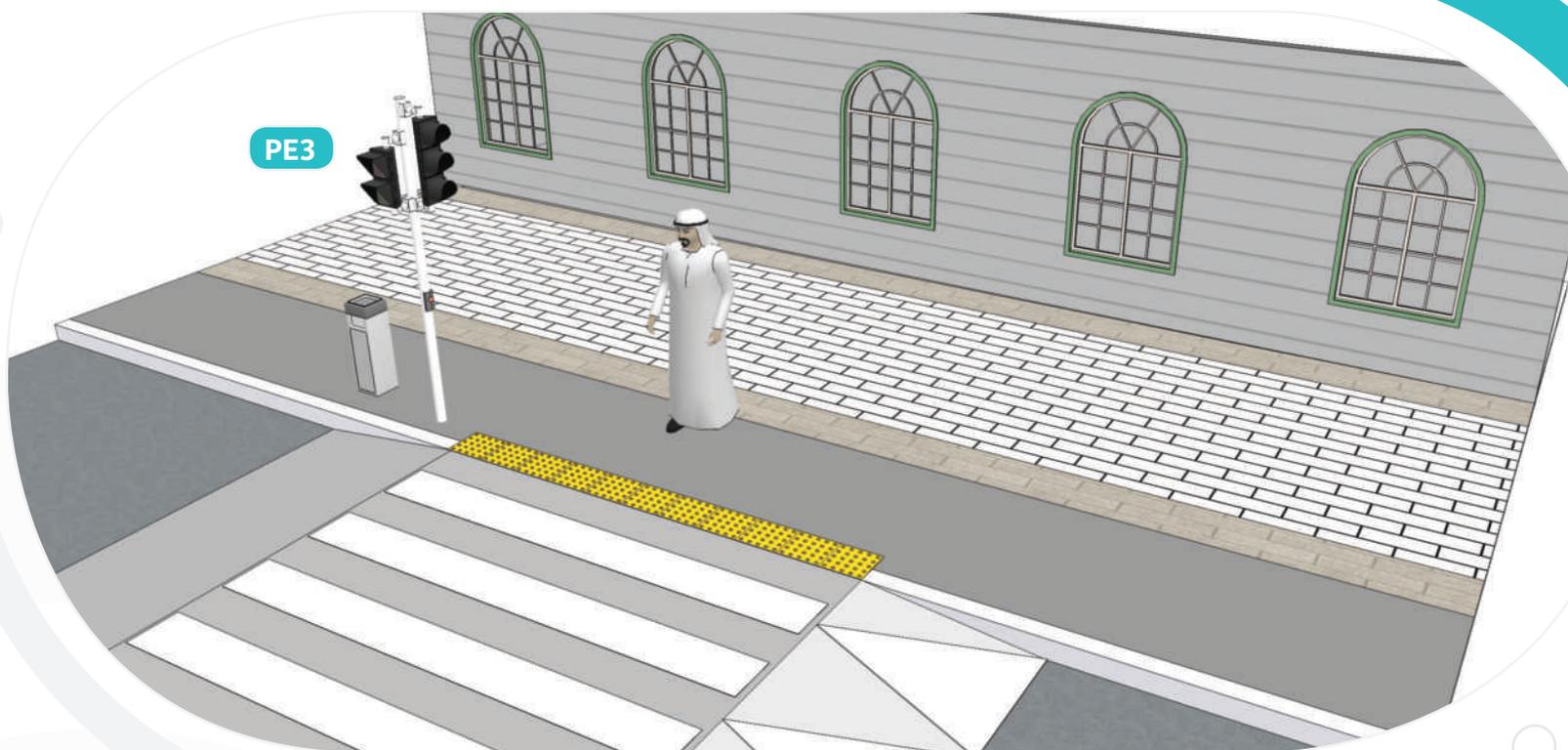
Path





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

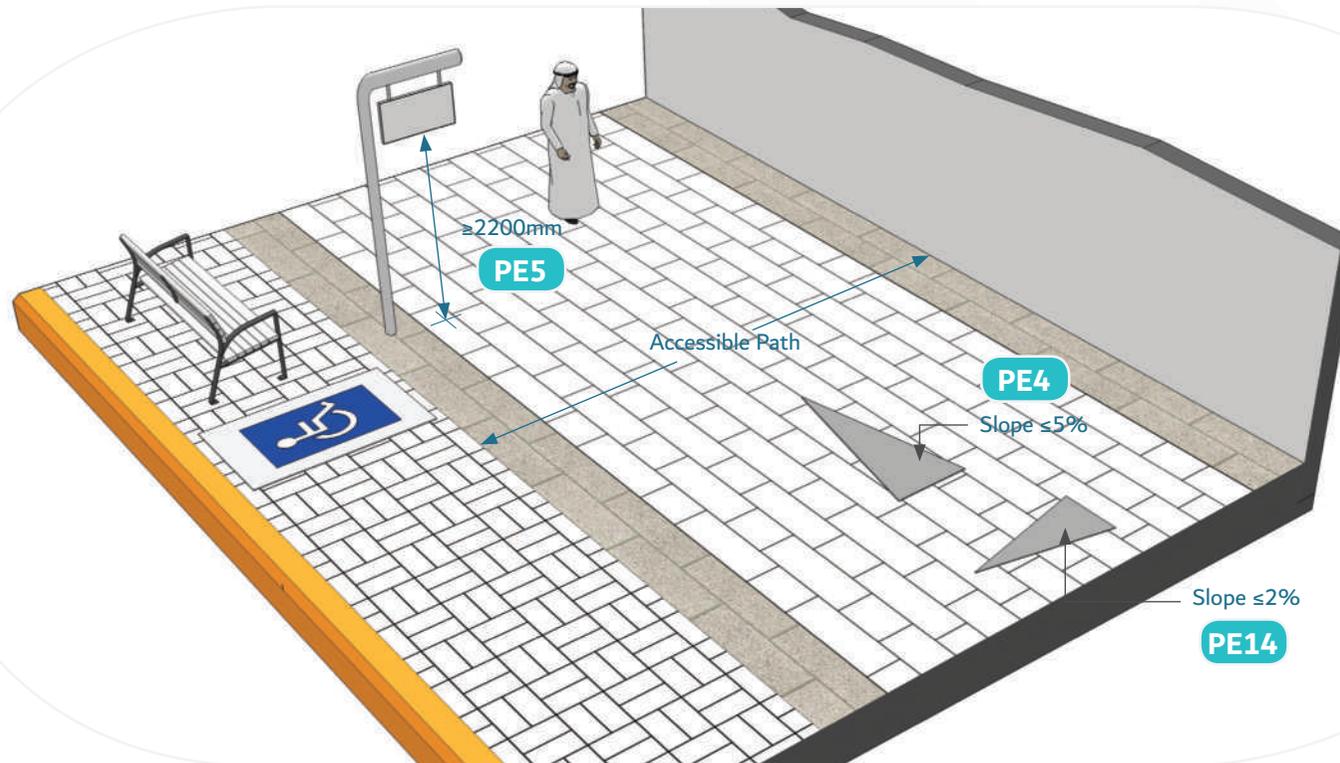
PE2 Linear and continued



PE3

PE3

Intersections clearly visible with signs or lights

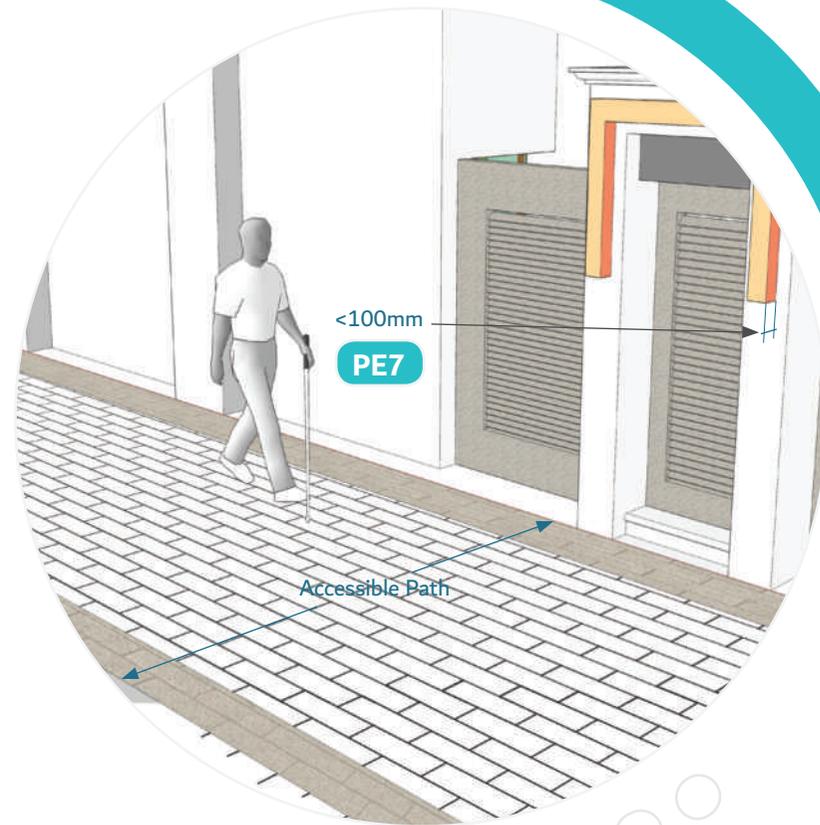
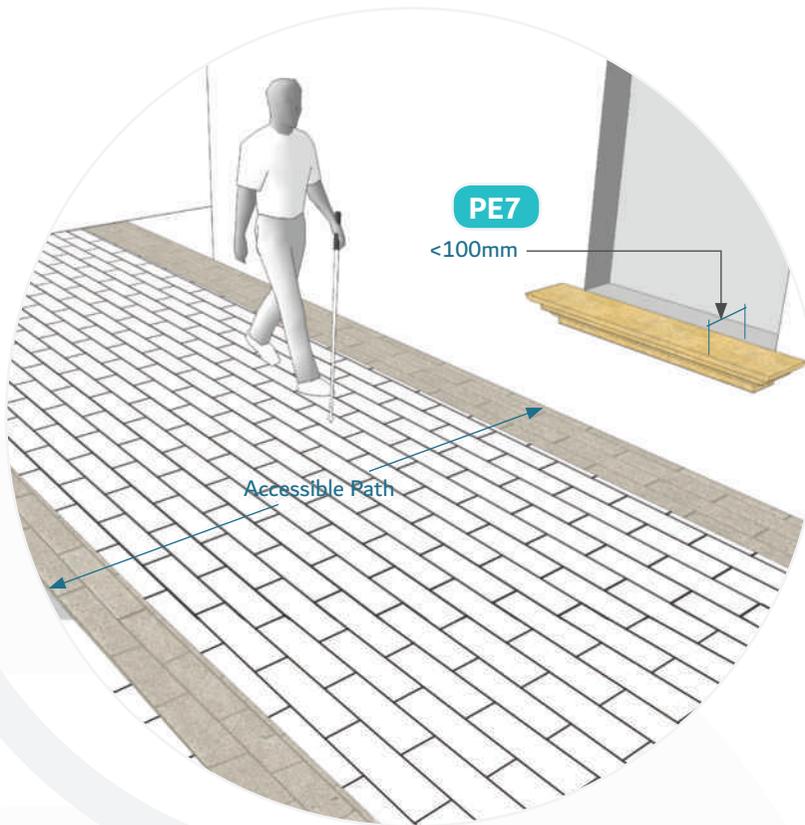


PE4 Gradient $\leq 5\%$

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

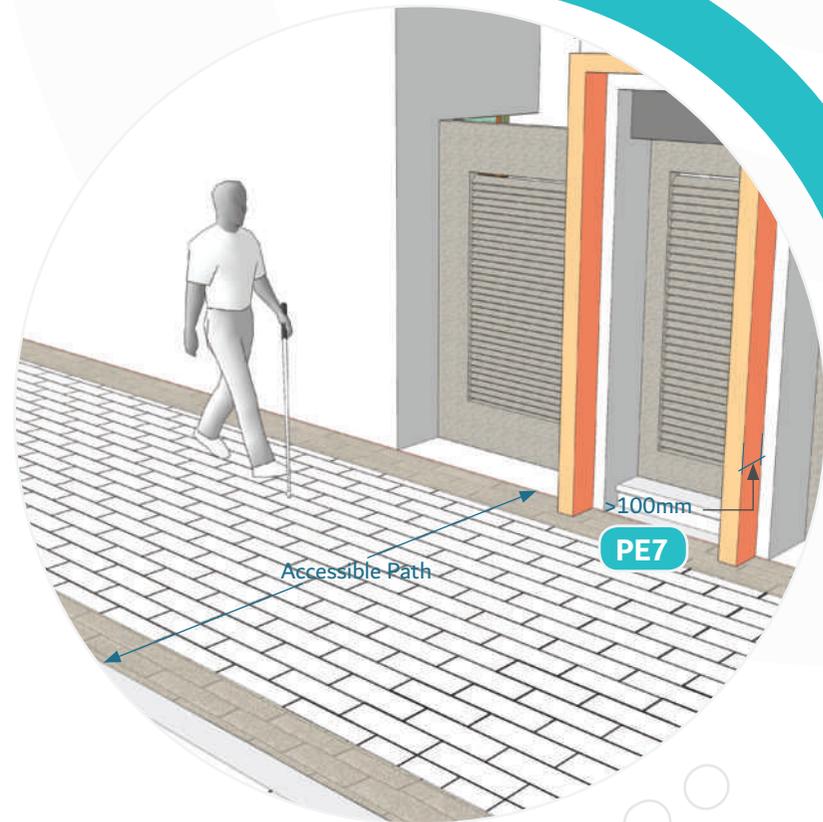
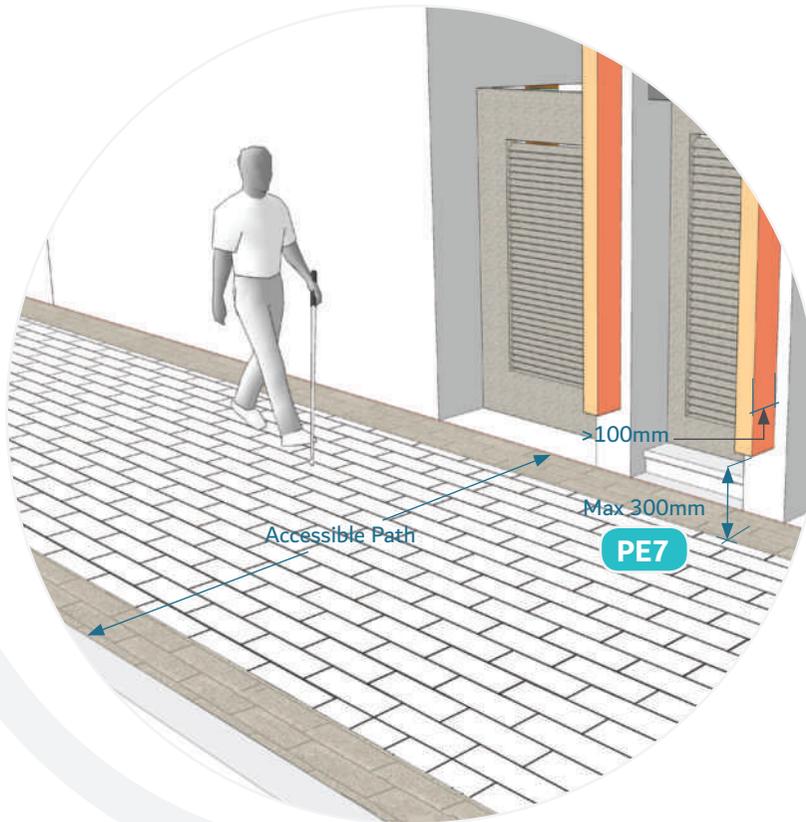
PE6 Absence of uneven surfaces - irregularities $\leq 5\text{ mm}$

PE14 Cross slope gradient $\leq 2\%$

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

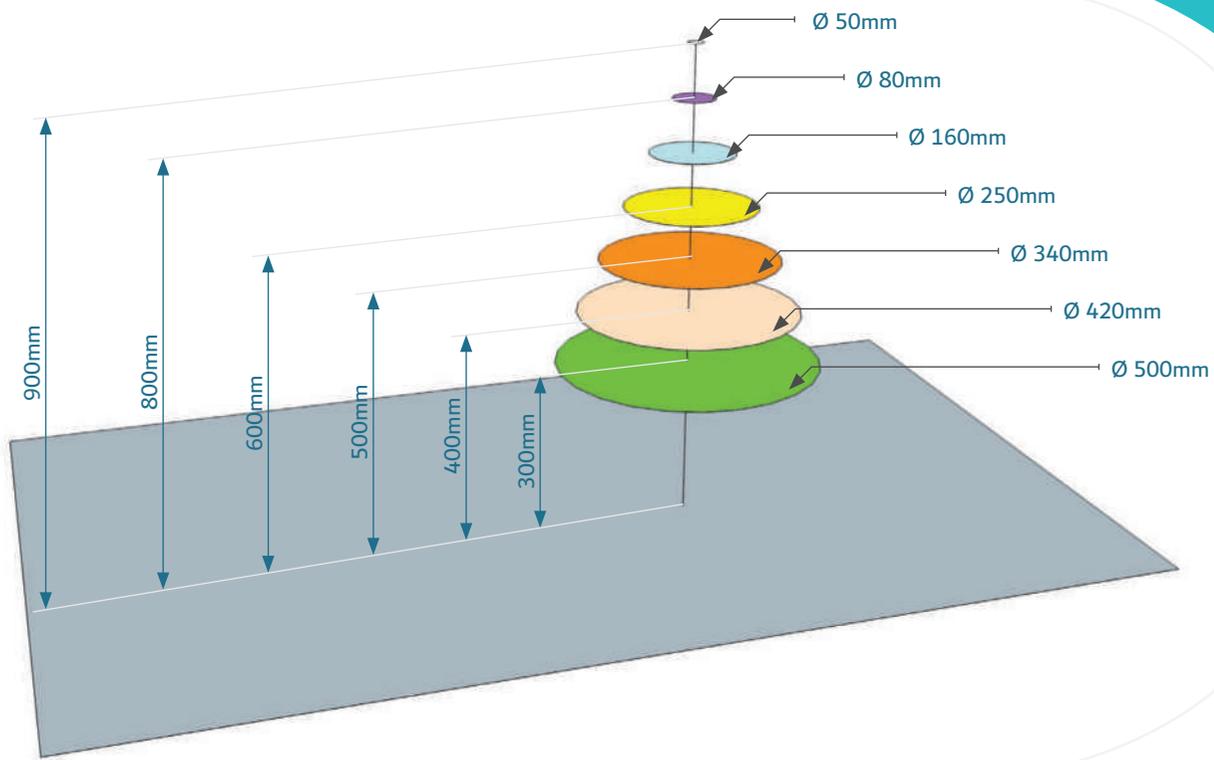
1-Objects protruding less than 100mm from façade

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

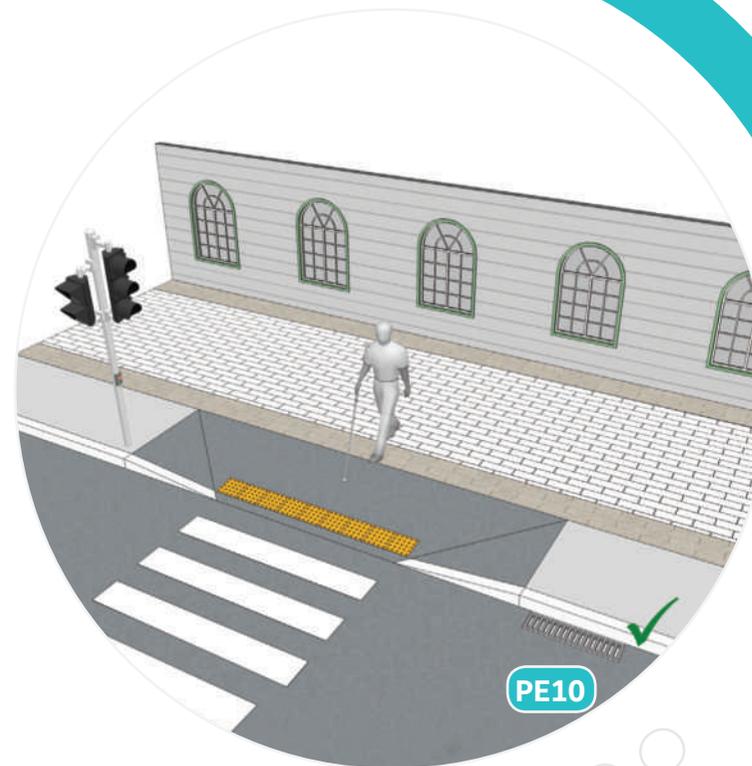
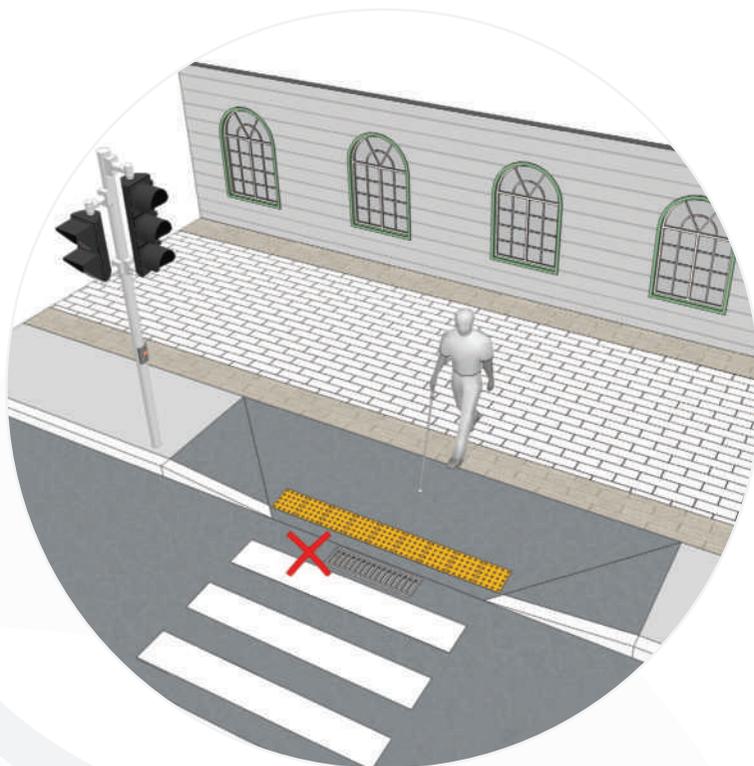
2-Objects protruding more than 100mm, extends to the floor surface or above the floor level by maximum 300mm



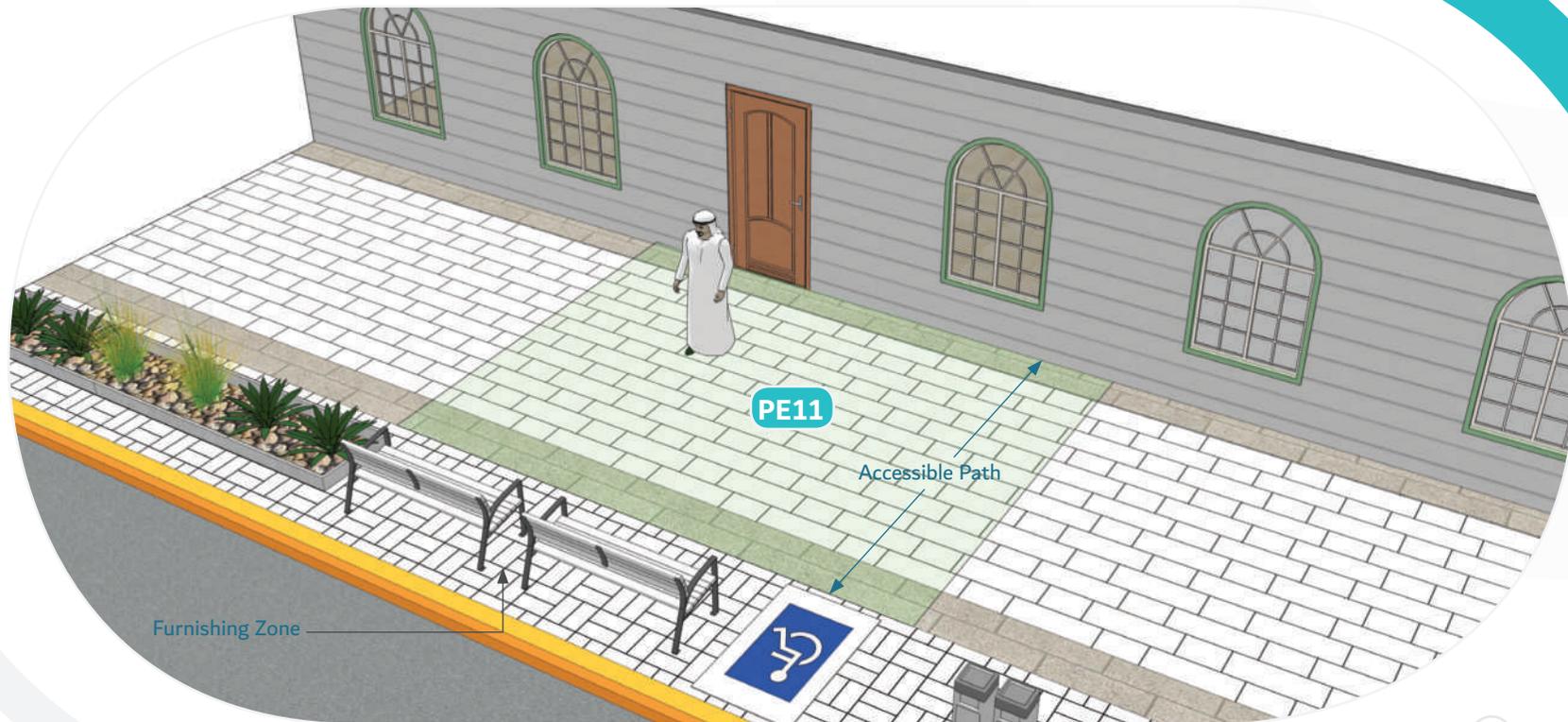
PE Path - Accessible Path Of Travel –External



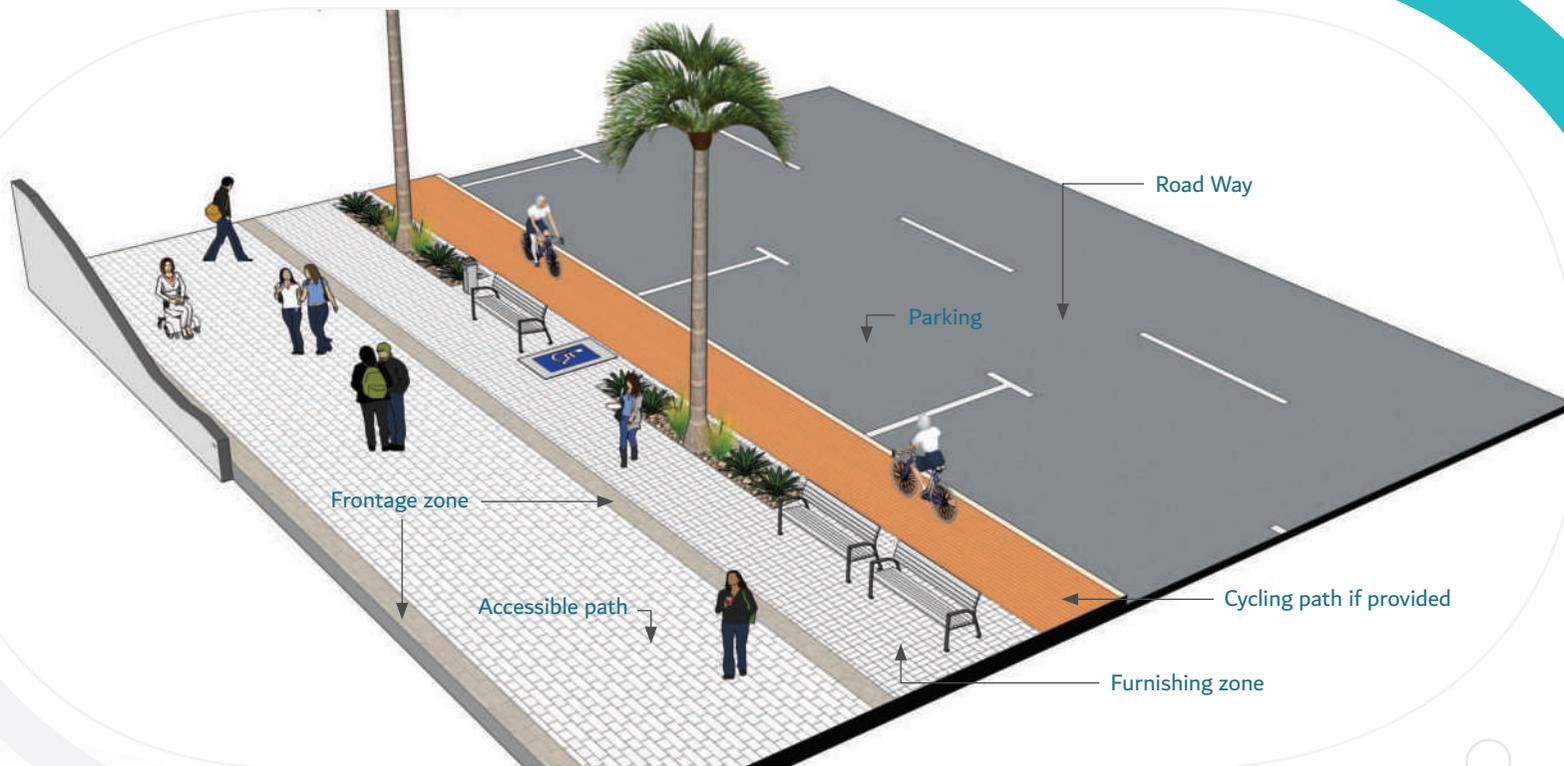
PE9 Illumination level ≥ 10 lux



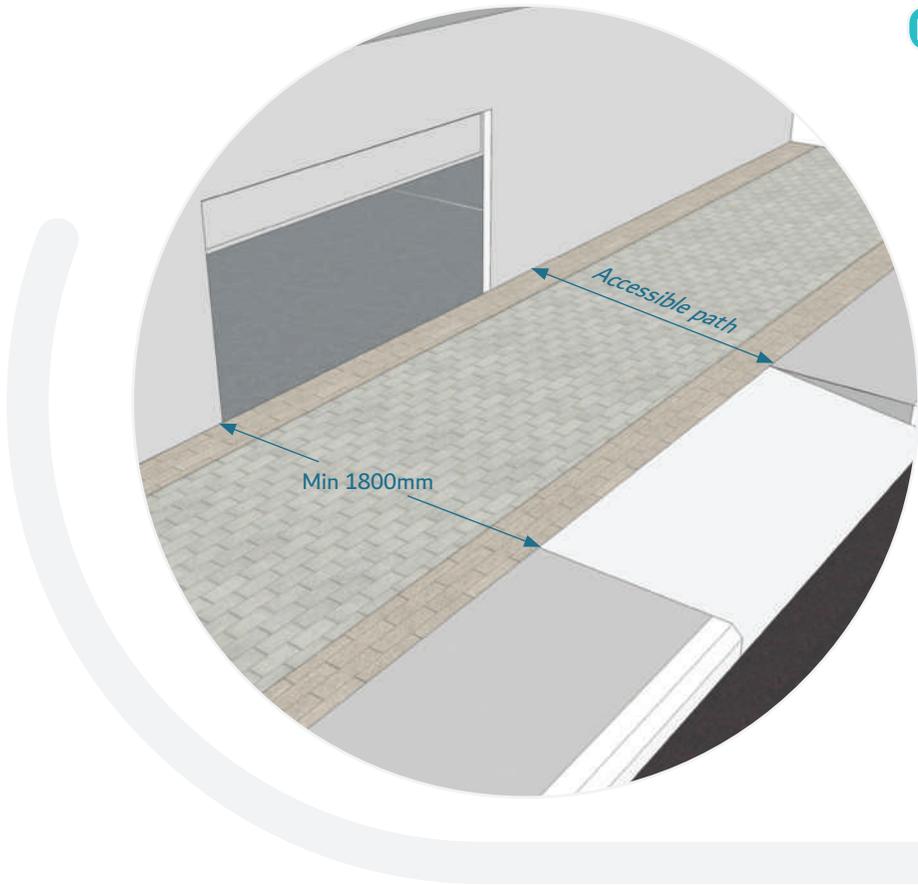
PE10 No drain grids on accessible crossings (outside the intersection)



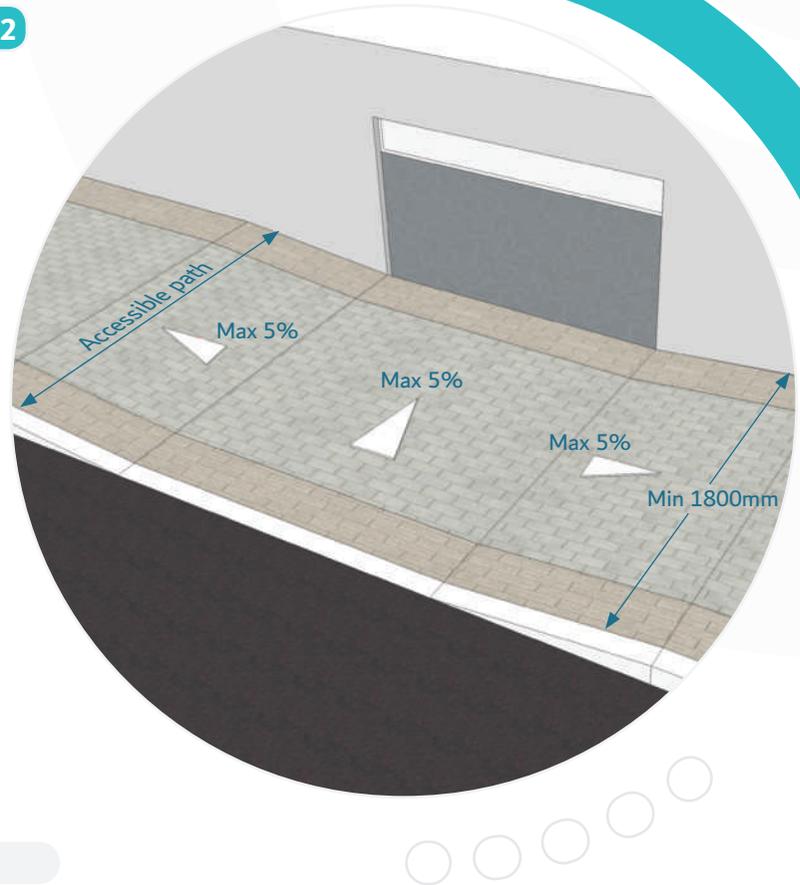
PE11 Free of obstacles and located between the building's façade and the furniture zone



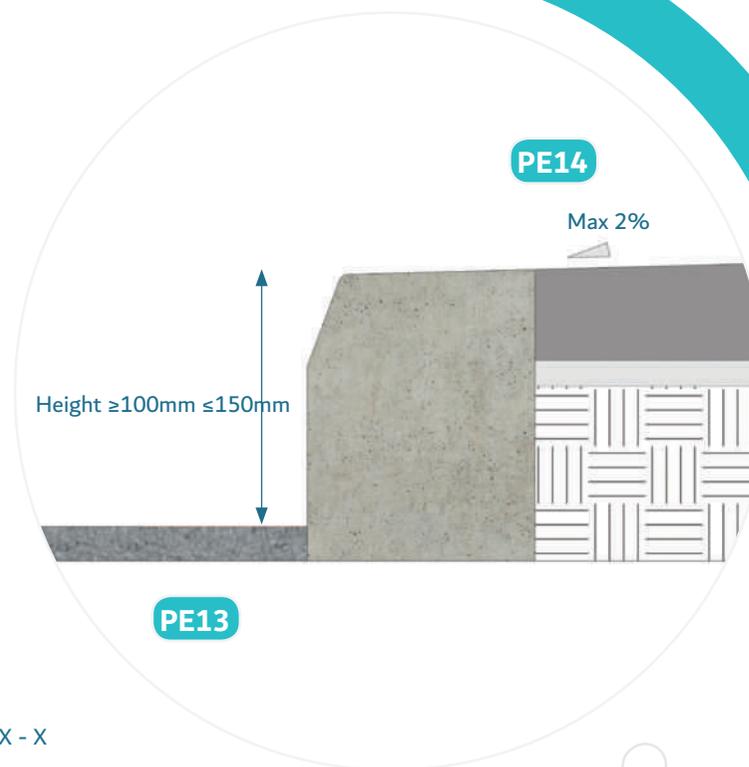
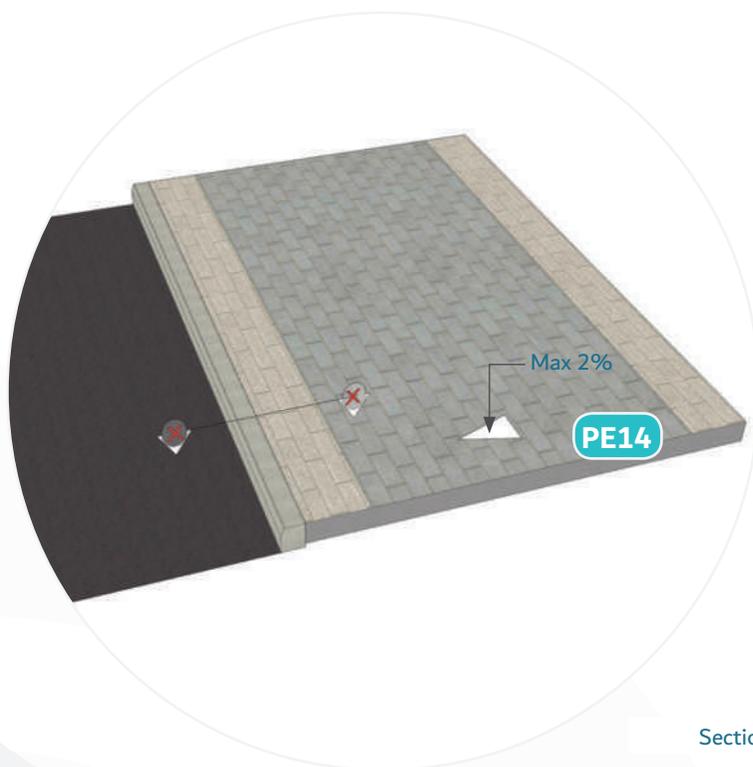
PE Path - Accessible Path Of Travel –External



PE12



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

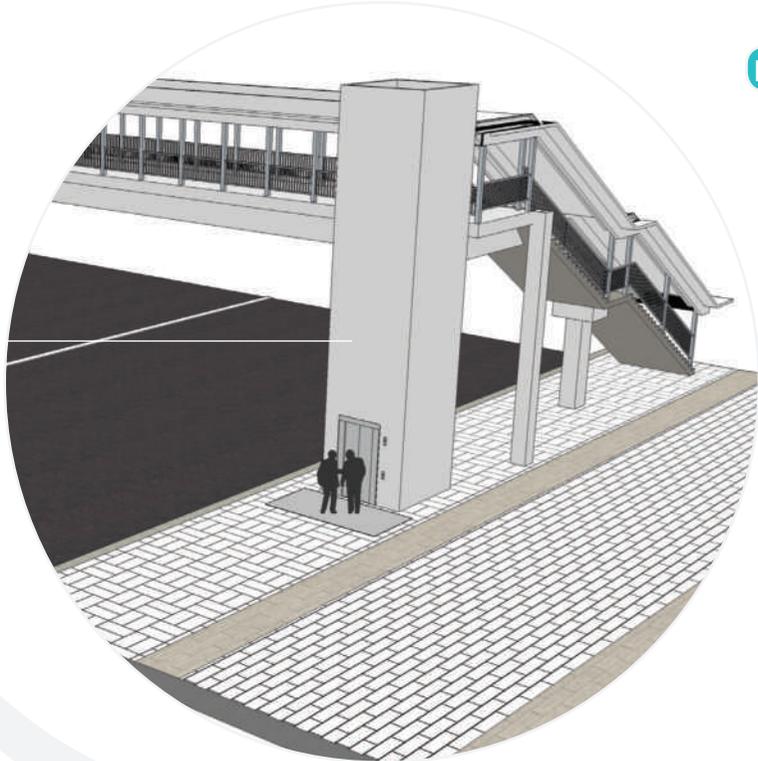


Section X - X

PE13 Curb height between 100mm and 150mm

PE14 Cross Slope Gradient $\leq 2\%$

Elevator

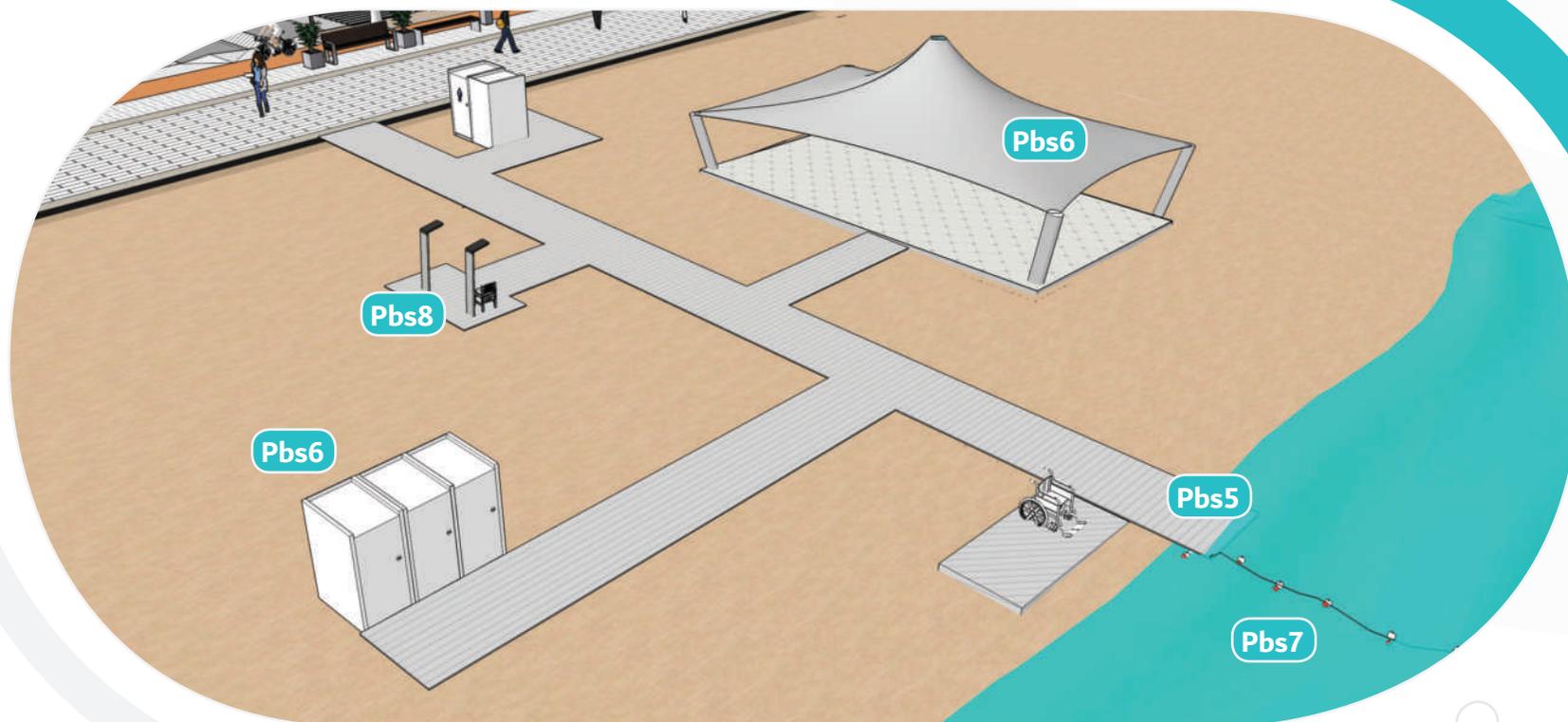


PE15

Sun and rain protection



PE15 Pedestrian bridges with ramps or elevators if provided

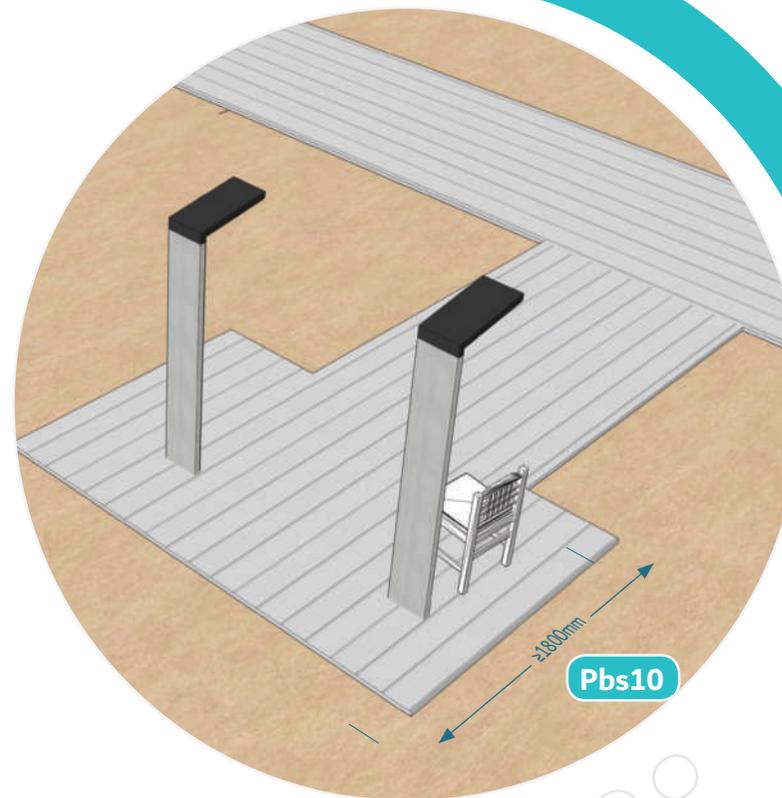
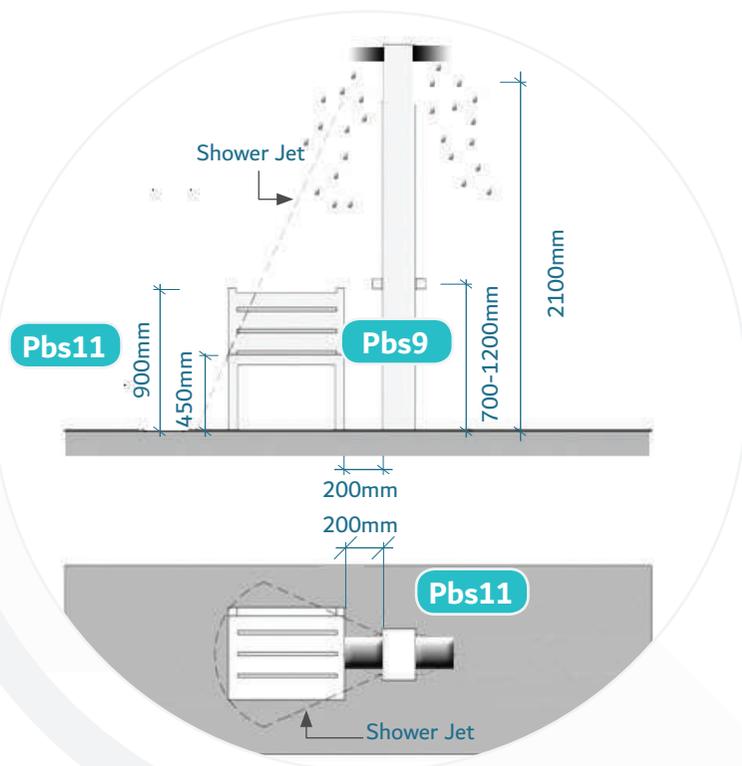


Pbs5 Reaching the water edge

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

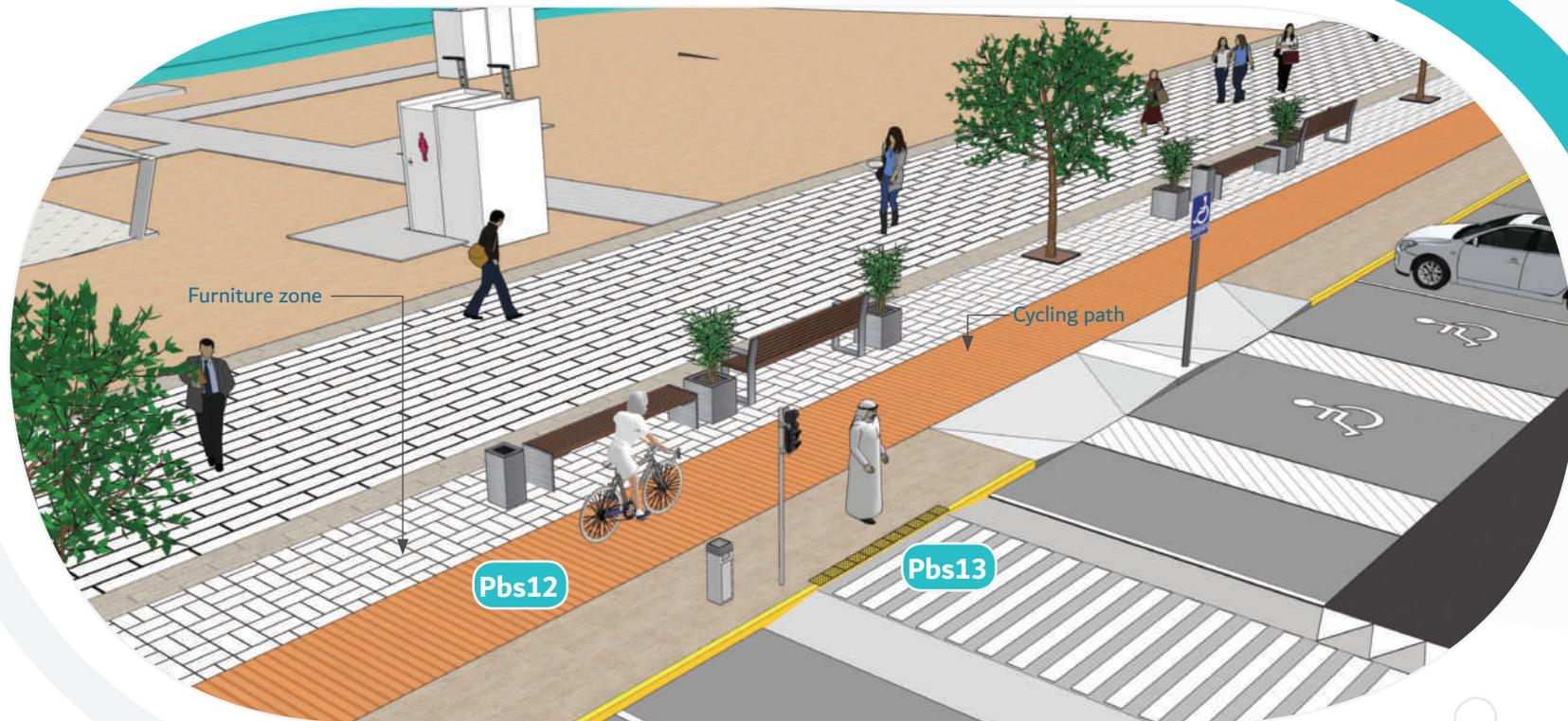
Pbs8 With accessible showers in beaches



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

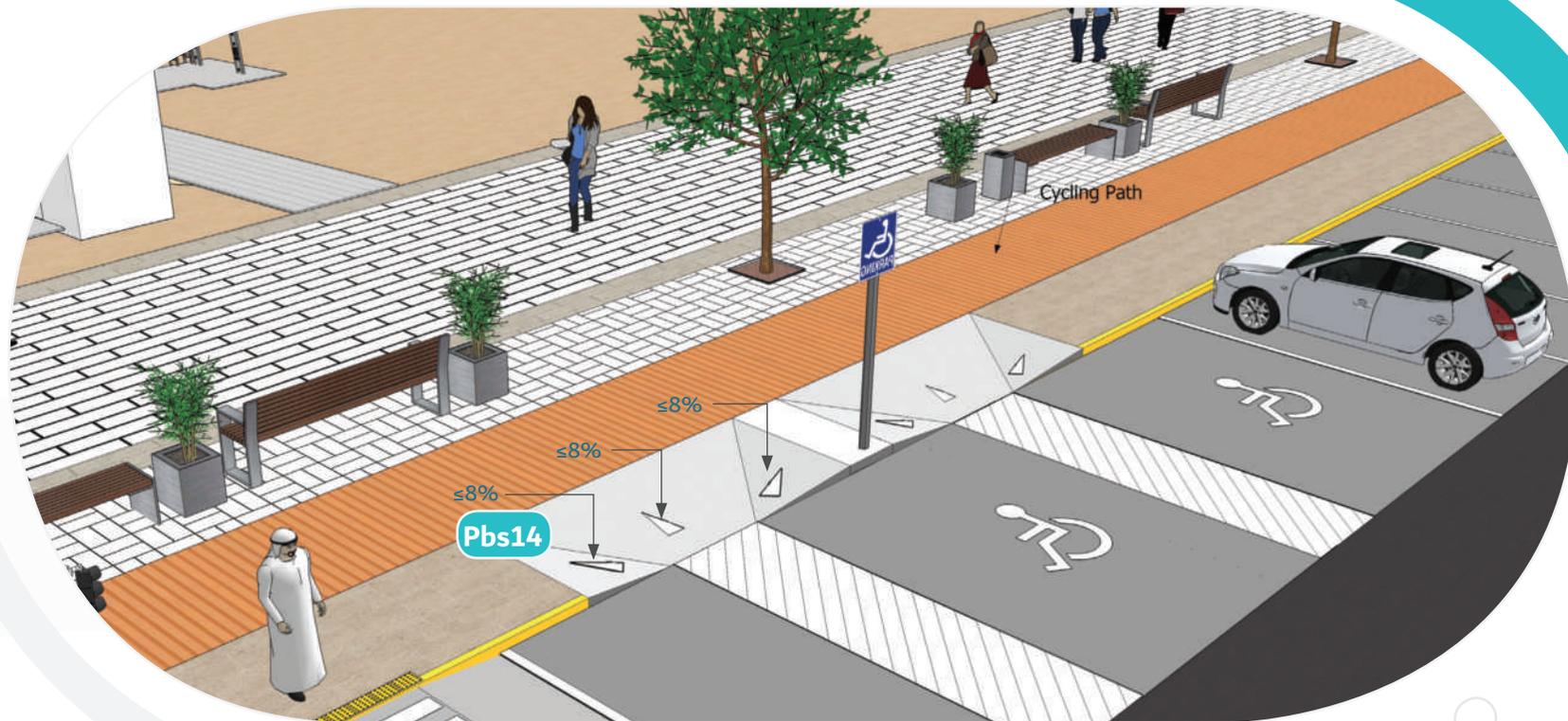
Pbs10 Shower area width $\geq 1800\text{mm}$

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

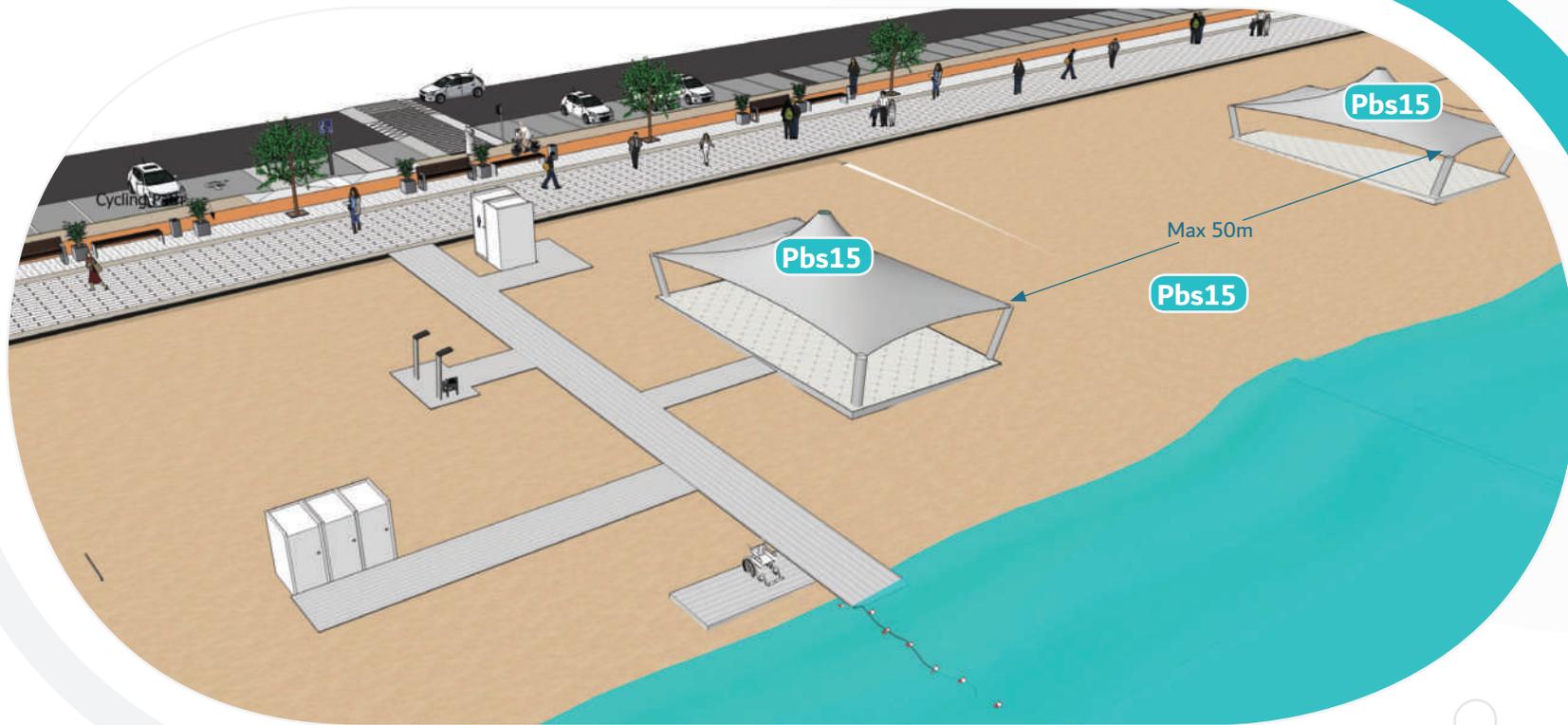


Pbs12 If there is a cycling paths it's between urban furniture and curb

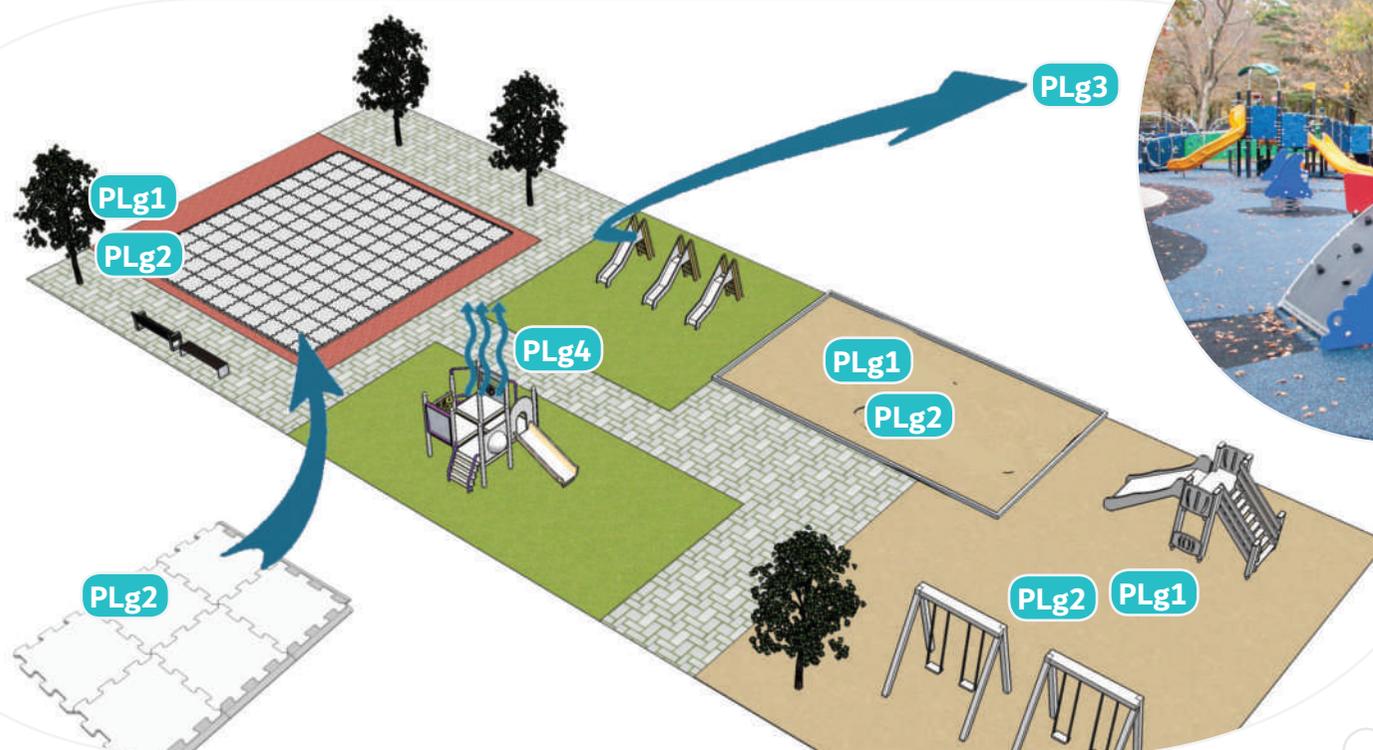
Pbs13 Pedestrian crossings are preceded by tactile warnings



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



Pbs15 At least shaded zones are provided every 50m max



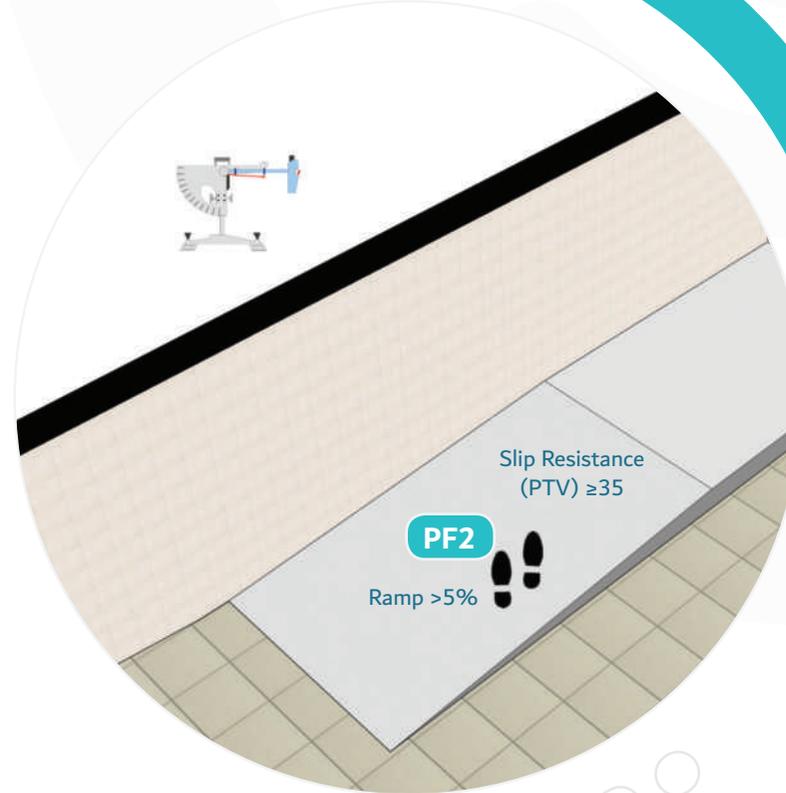
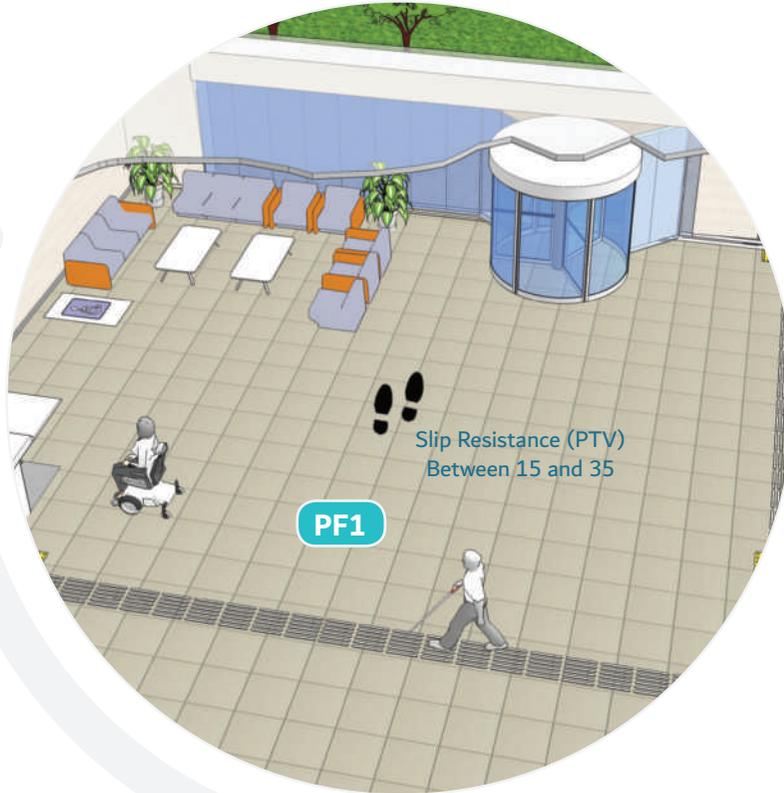
PLg1 Floor surface of rubber or compacted sand

PLg2 Smooth and soft floor surface for children play area

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

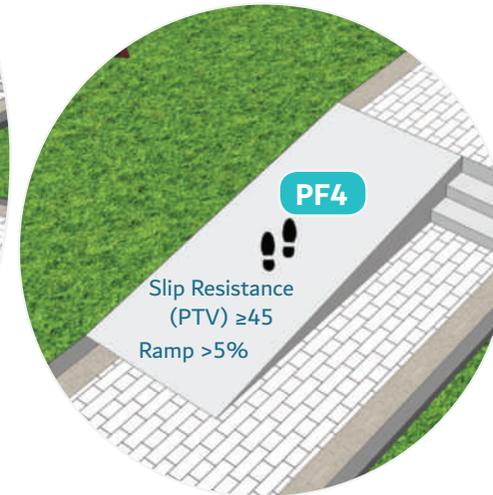
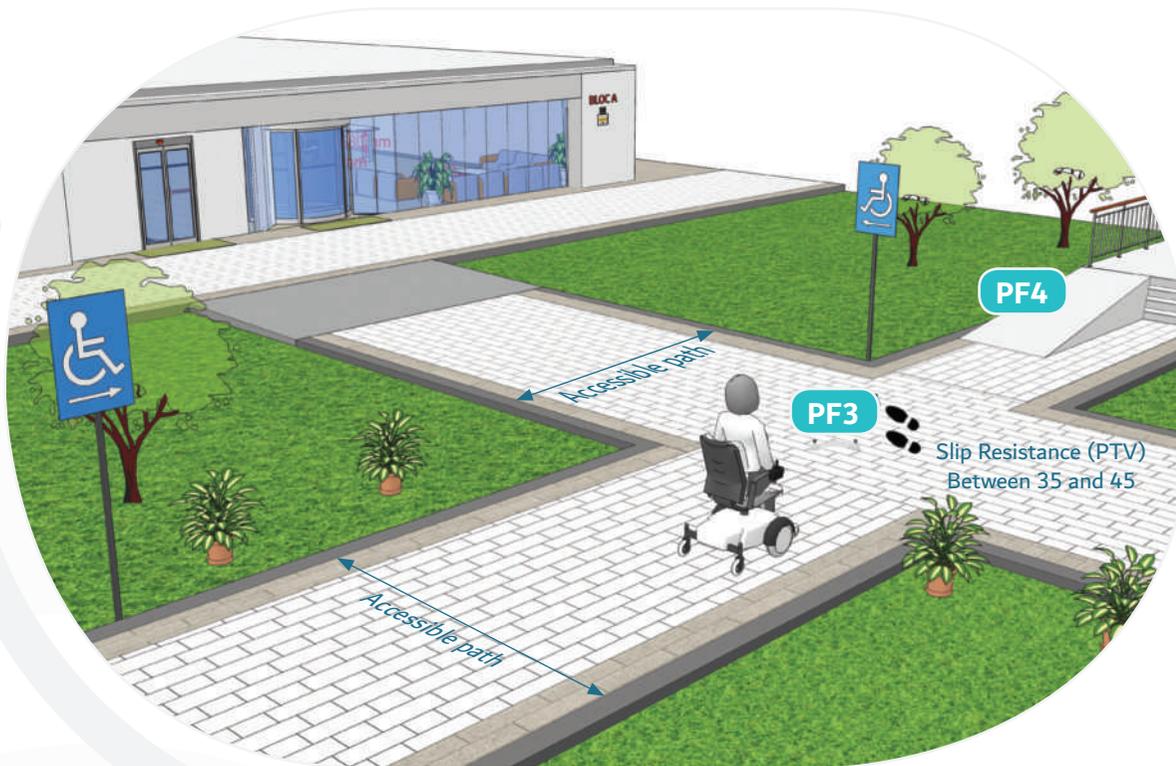
PLg4 Low heat transmission materials of play activities

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

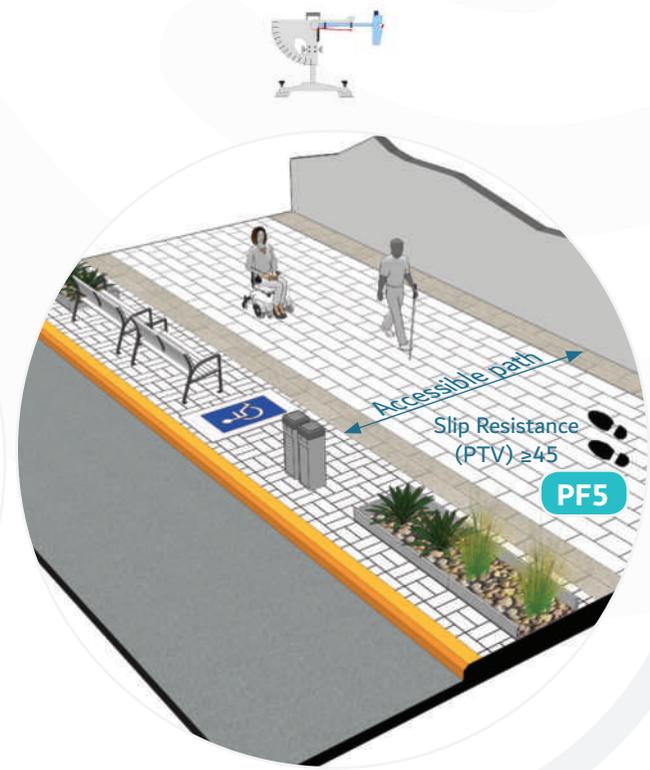
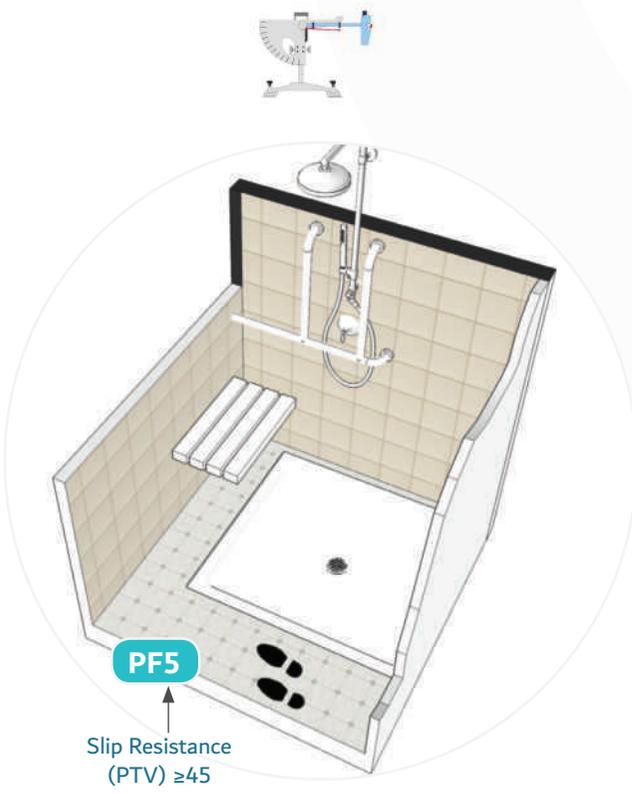
PF2 Inclined >5% dry areas indoor, (PTV) ≥ 35



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

PF Path - Floor Surface



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



PF6

Ground pavement without loose elements



The strength to roll
over carpet = y

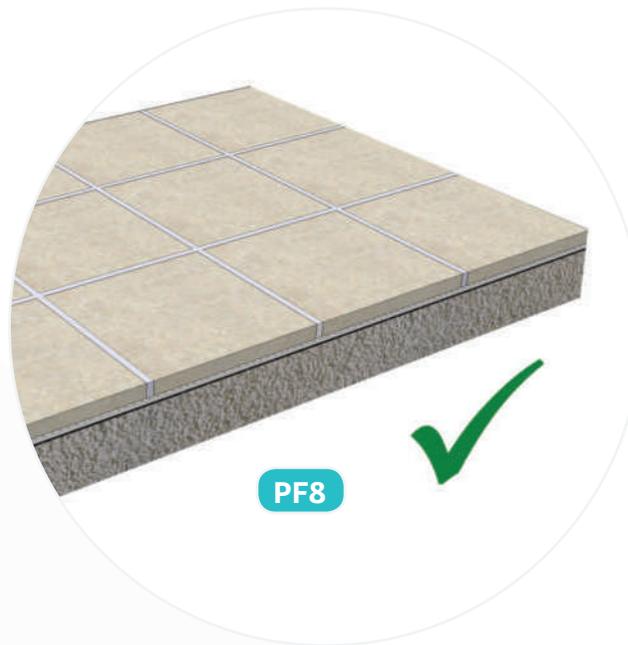
The strength to roll
over ceramic = x

PF7

$y \leq 1.25 x$



PF8 Without rounded edges and excessive joints



PF9 Not producing glare



PF

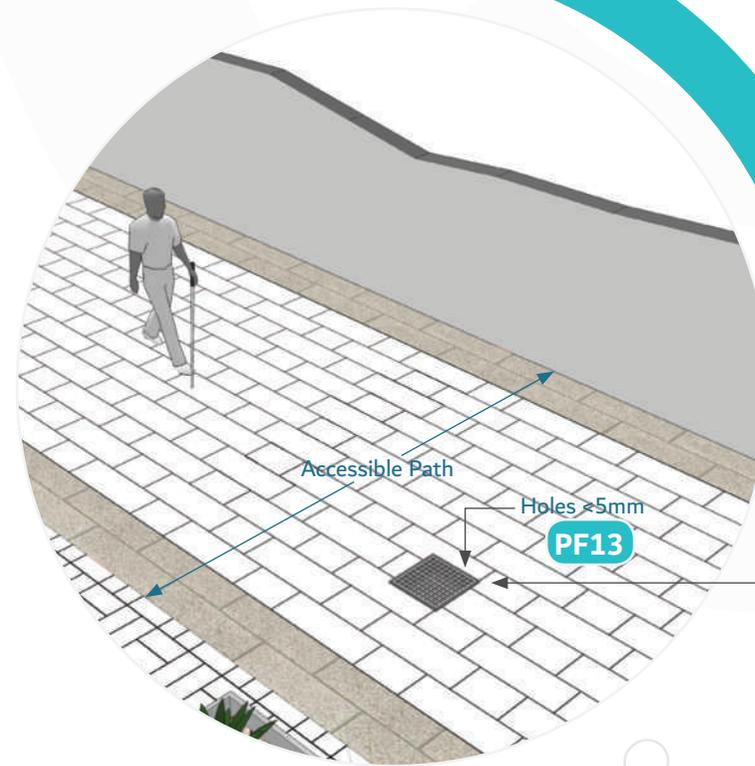
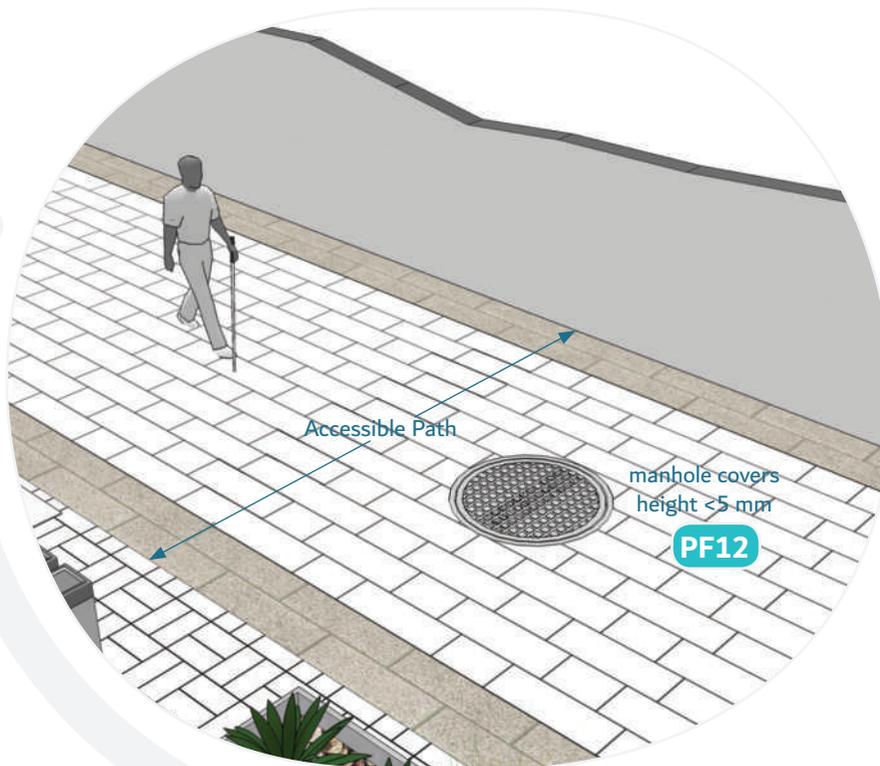
Path - Floor Surface



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

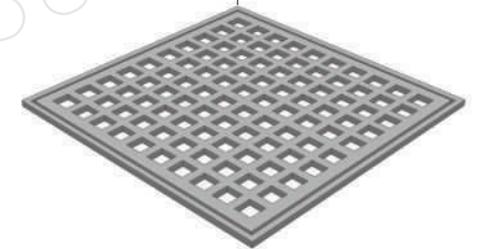


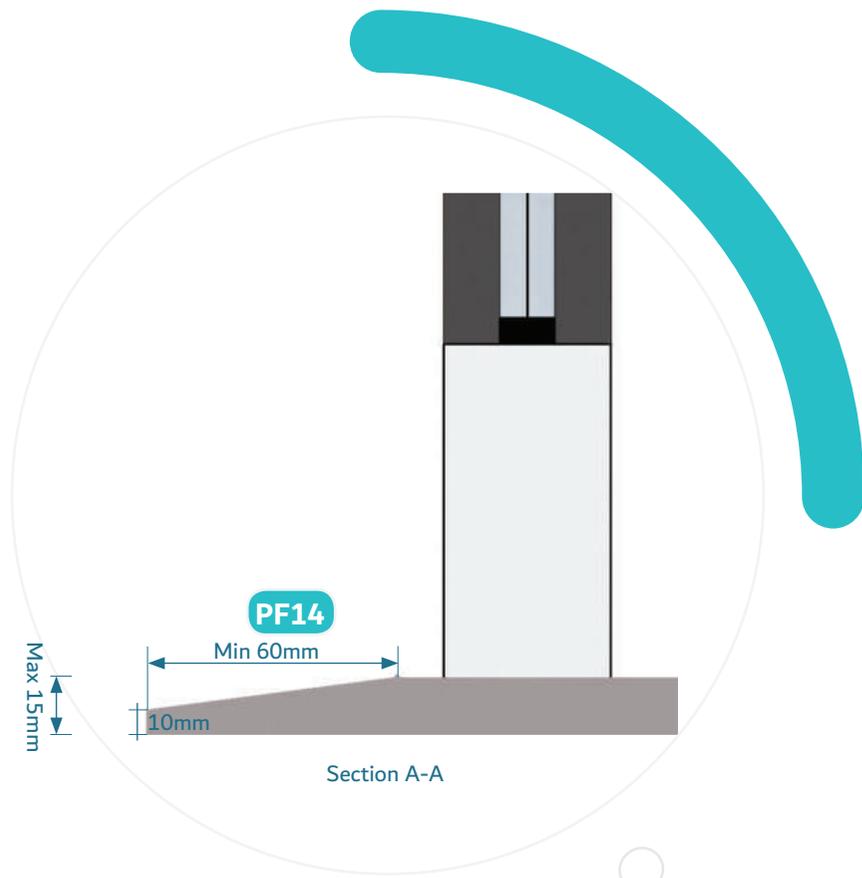
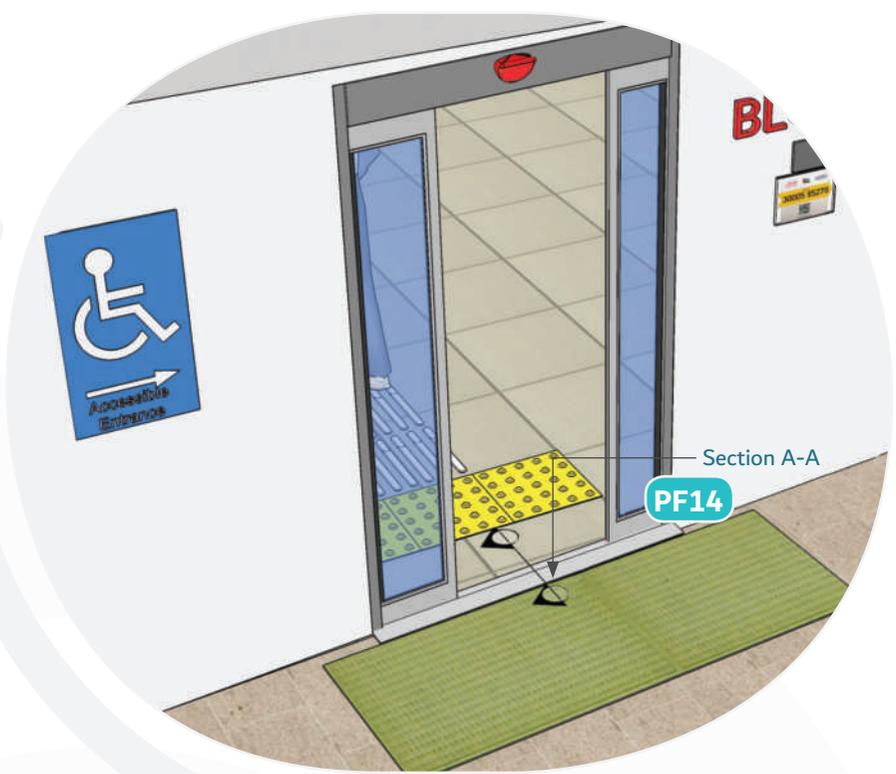
PF11 Lighting in floor (Flooring Light) not produces glare and excessive heat



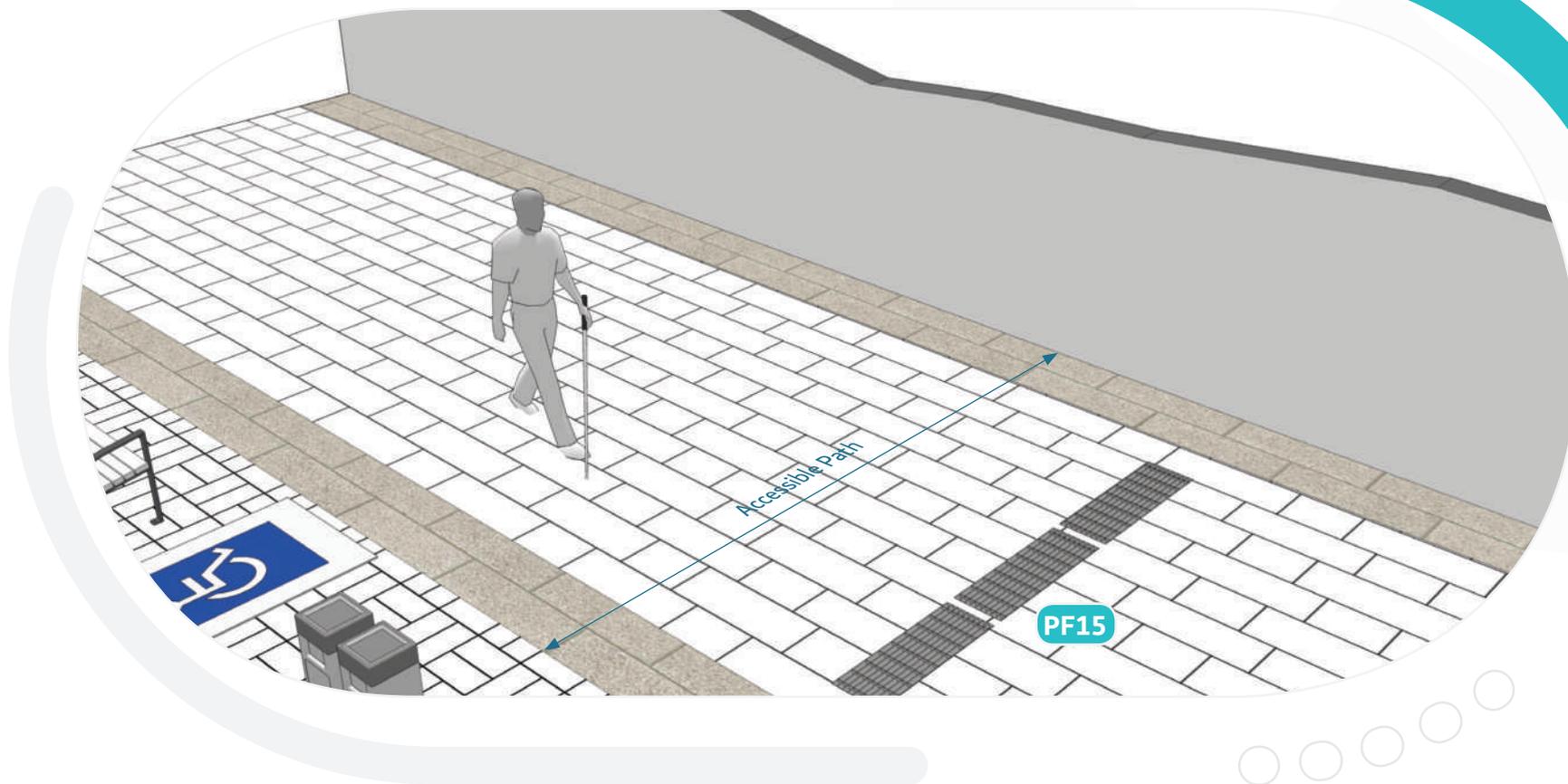
PF12 Absence of utility covers (manhole covers) on the path or with height less of 5mm

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

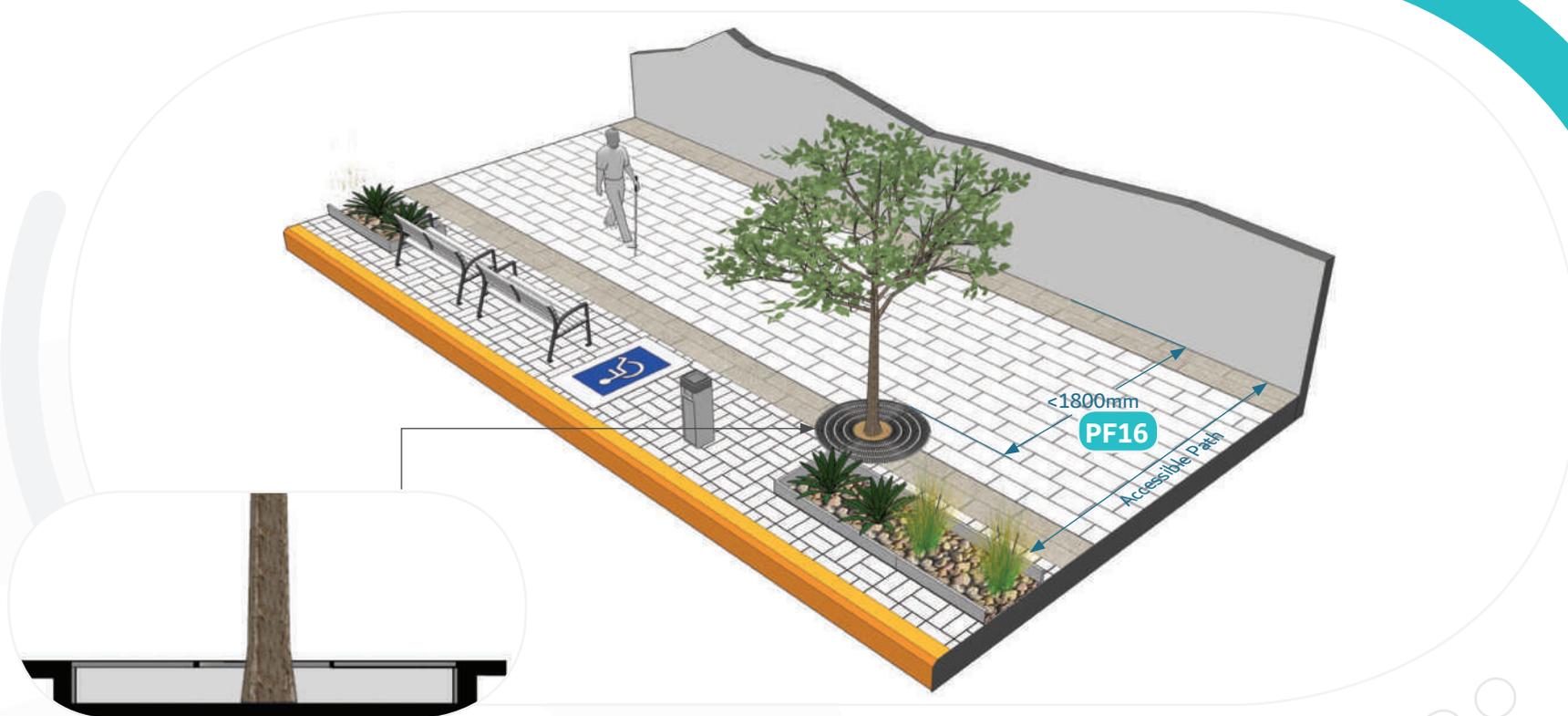




PF14 Change of pavement level $\leq 15\text{mm}$, with $\leq 25\%$ gradient slope (chamfered)

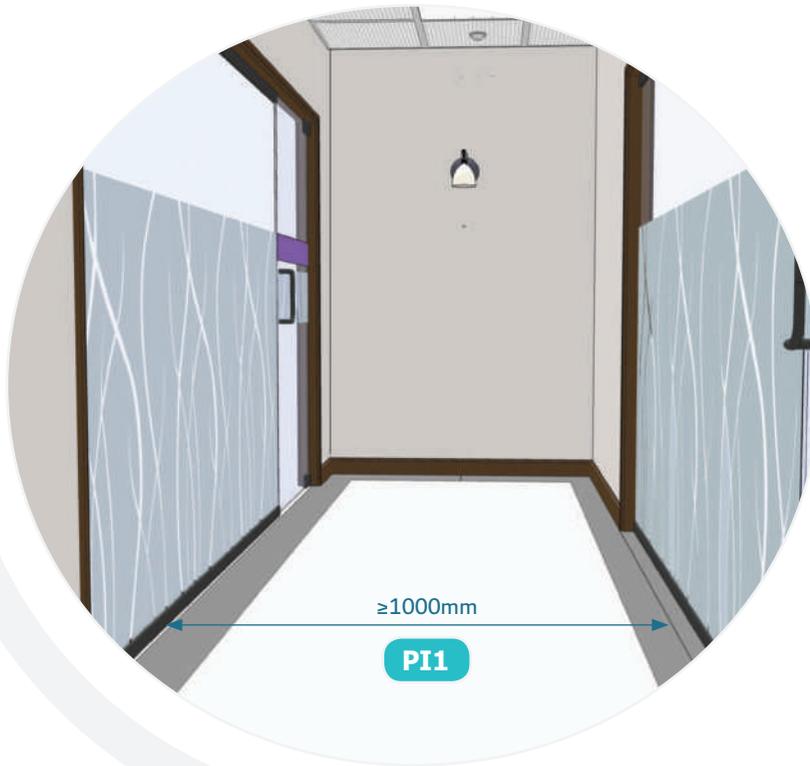


PF15 Longitudinal grate openings with perpendicular orientation to the pedestrians' direction of travel



PF16

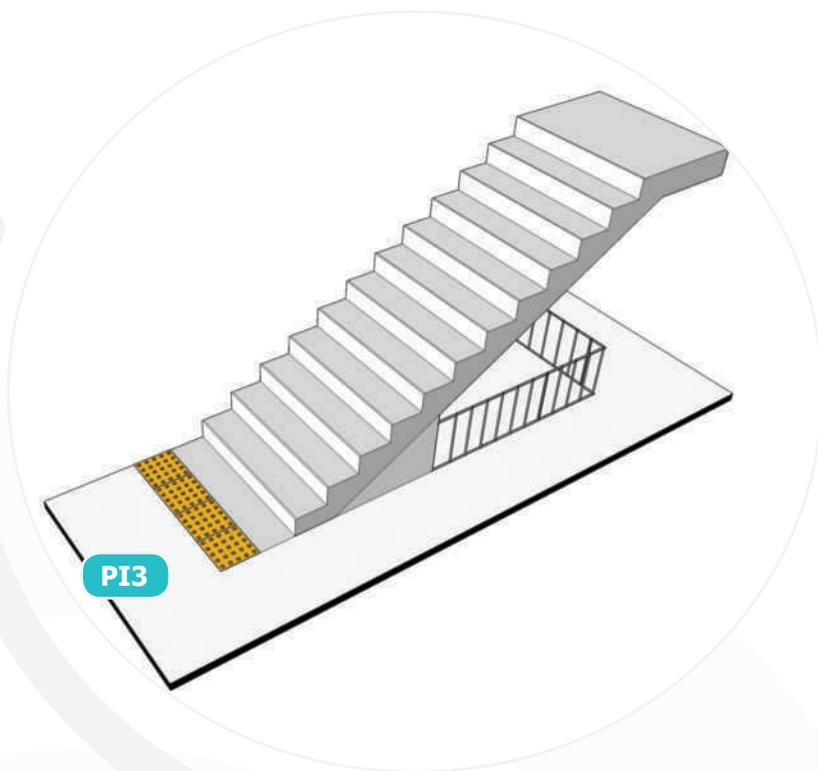
For distance between tree basin edge and the façade <math>< 1800\text{ mm}</math>, tree grate with walkable surface

PI**Path - Internal Corridors**

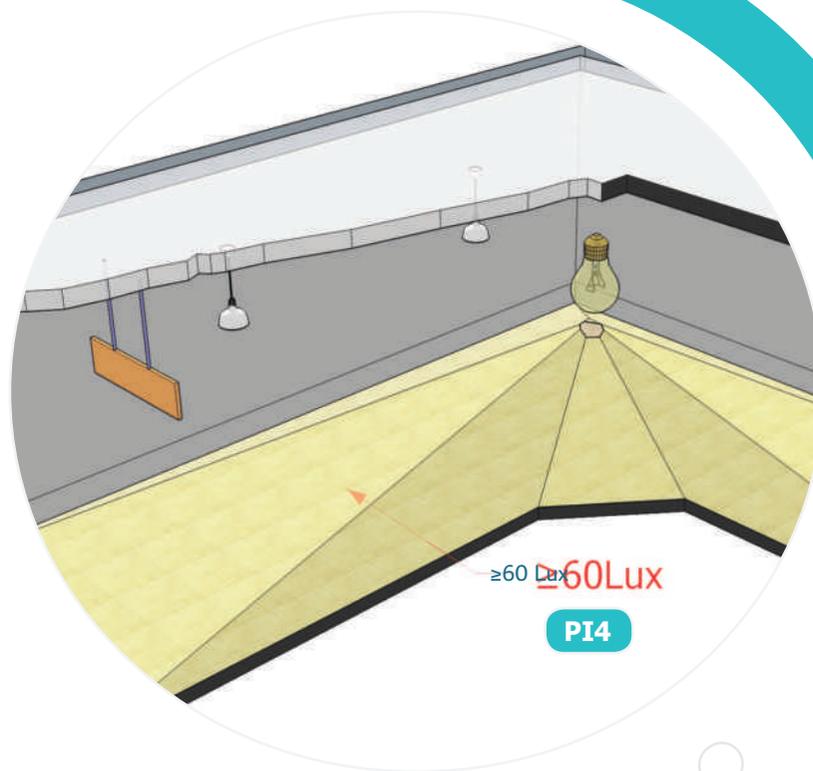
PI1 Width $\geq 1000\text{mm}$

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

PI2 In direction changes a maneuvering space of 1200mm



PI3



≥60 Lux

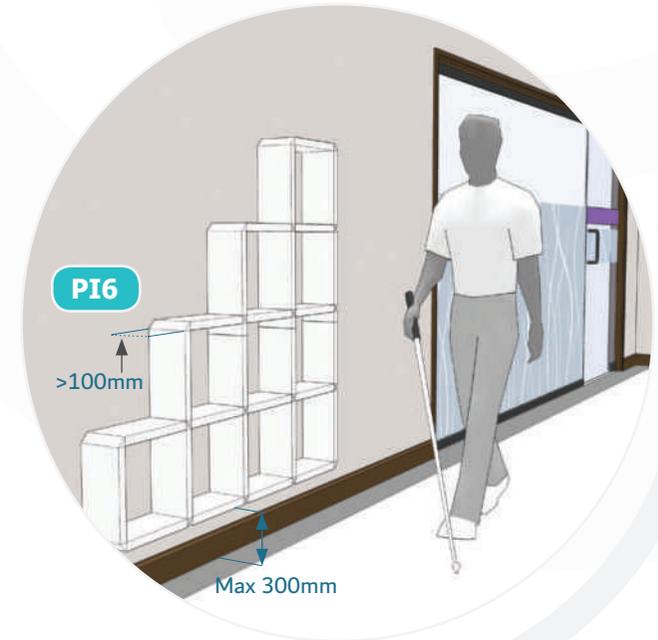
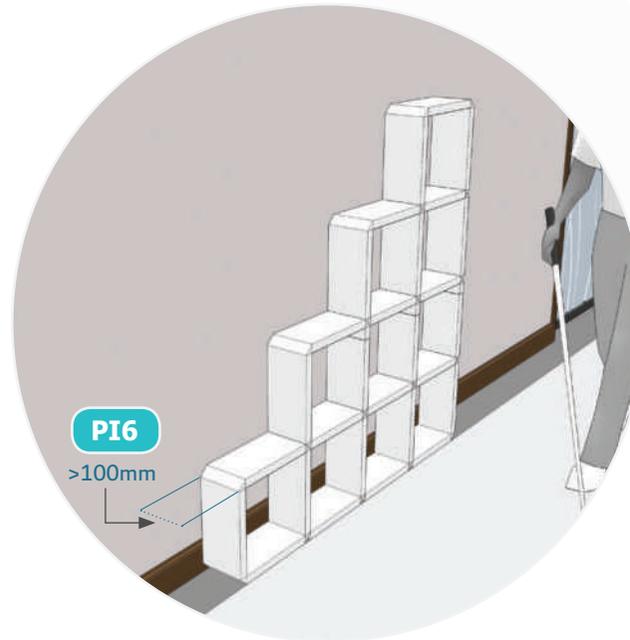
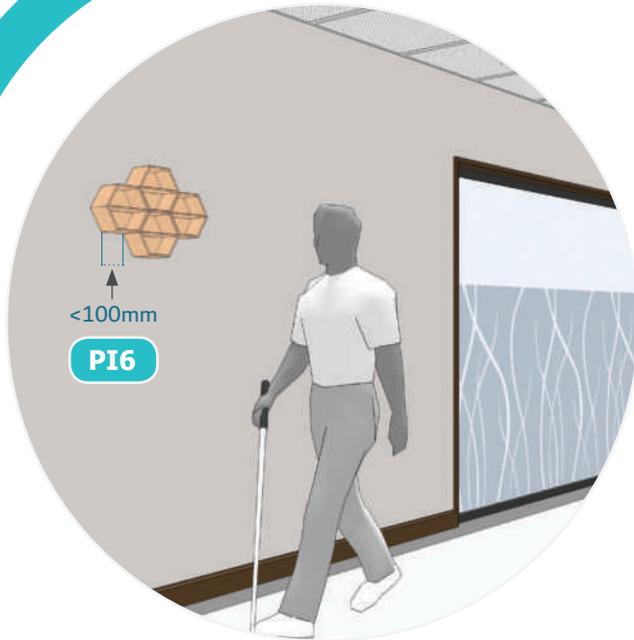
PI4

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 $\geq 500\text{mm}$

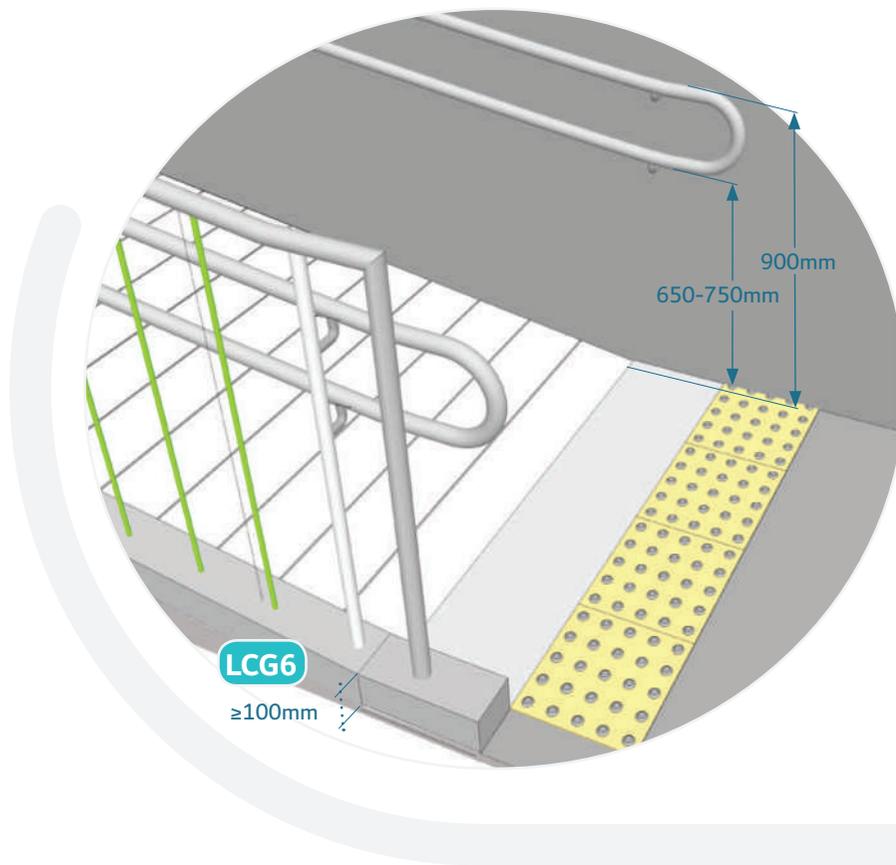
LCG3 With sufficient strength and stiffness to withstand horizontally uniformly distributed force of 3 KN/m

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



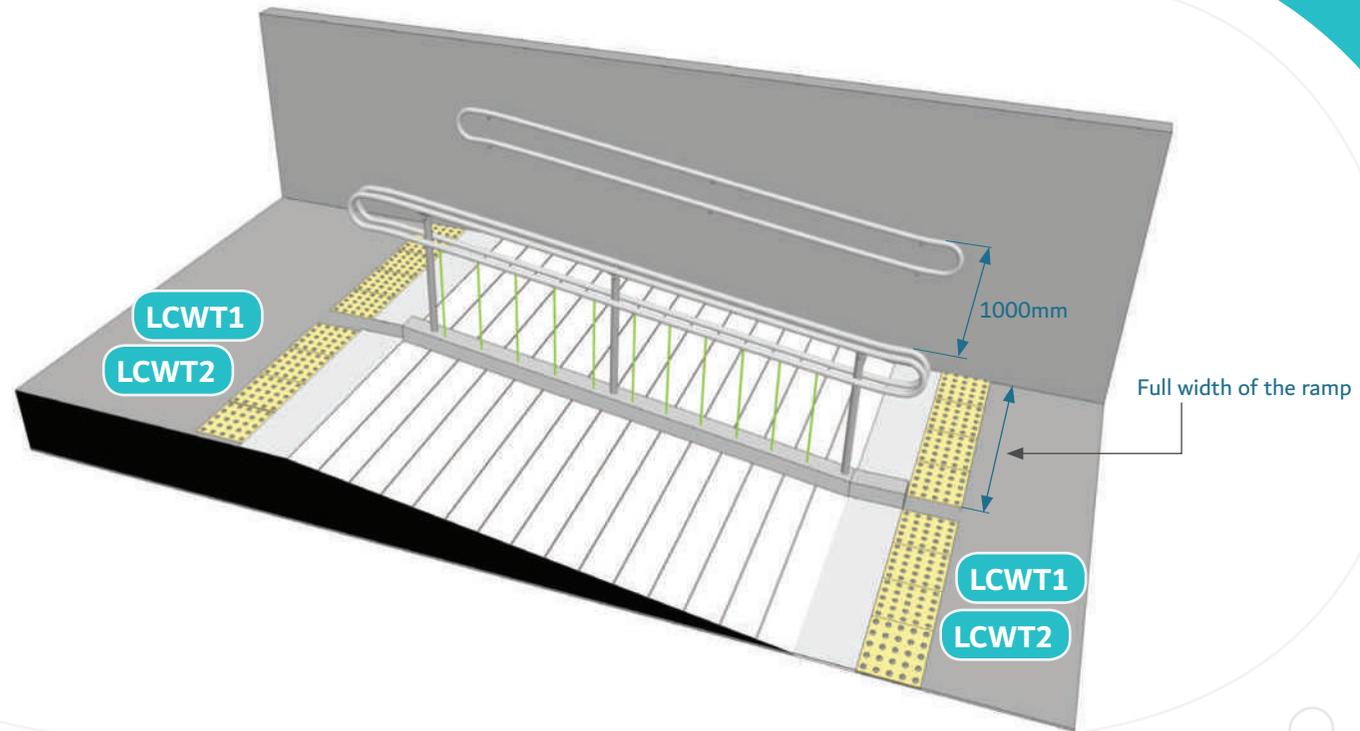
LCG4 Can not be climbable

LCG5 Width of horizontal and vertical openings $\leq 100\text{mm}$



LCG6

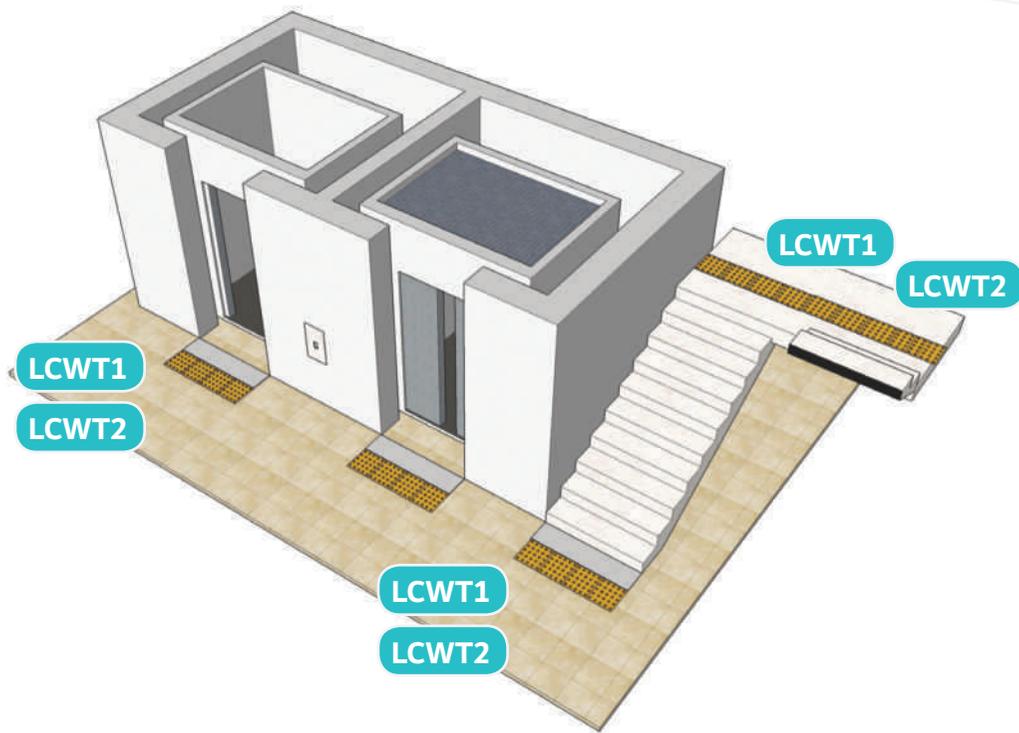
- 1- Availability of continuous base on the entire open side length
- 2- Continuous base $\geq 100\text{mm}$ high from the floor surface for ramps & stairs



LCWT1 Available in the beginning and end of every level change including ramps and stair landings, or any dangerous element

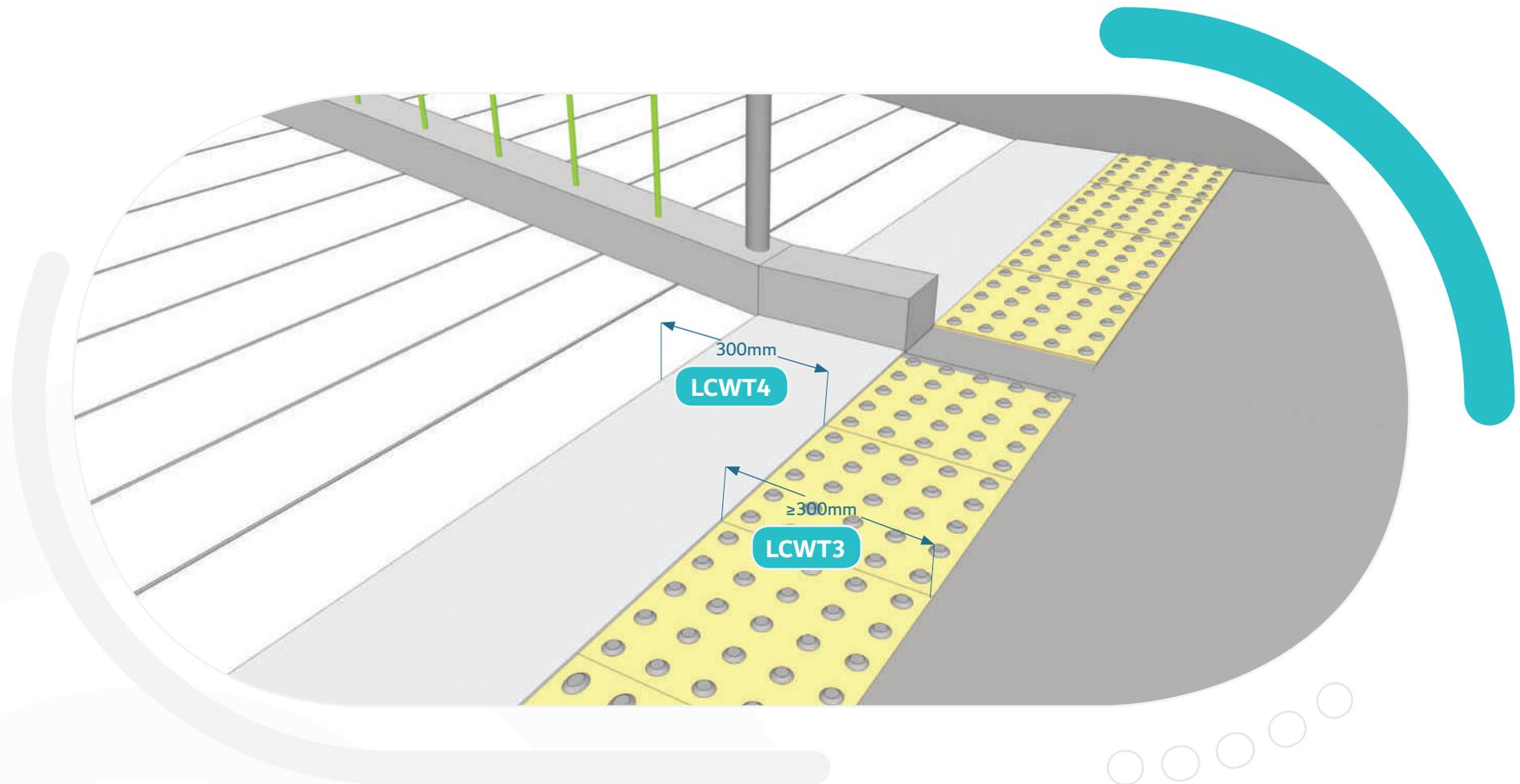
LCWT2 Installed along the entire width of the element

LCWT Level Changes - Warning Tactile Surface



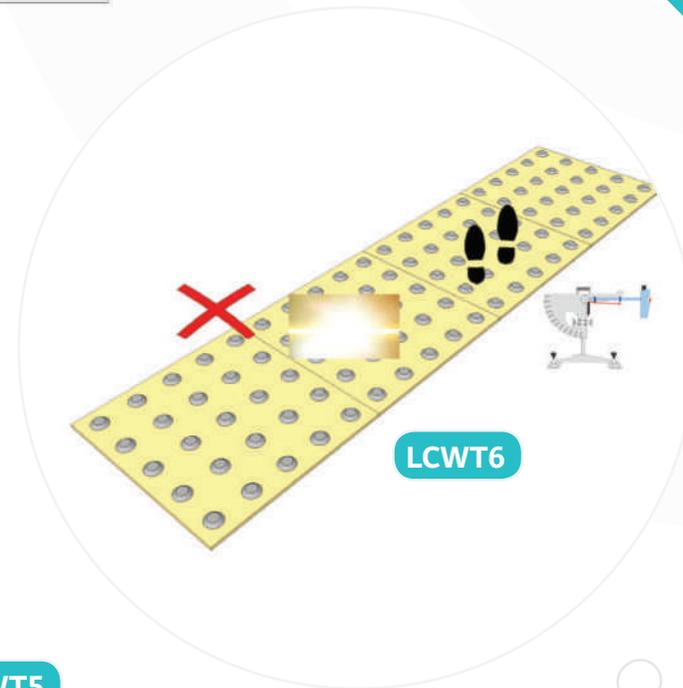
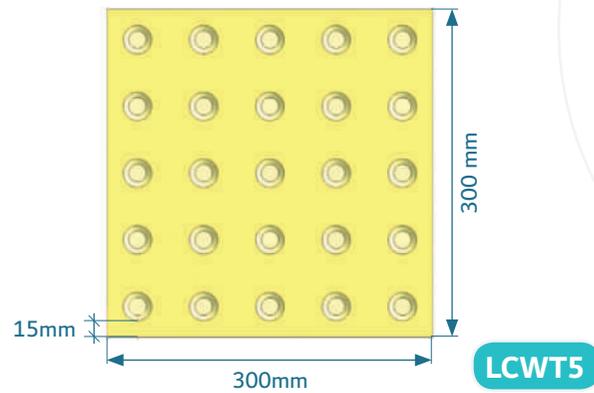
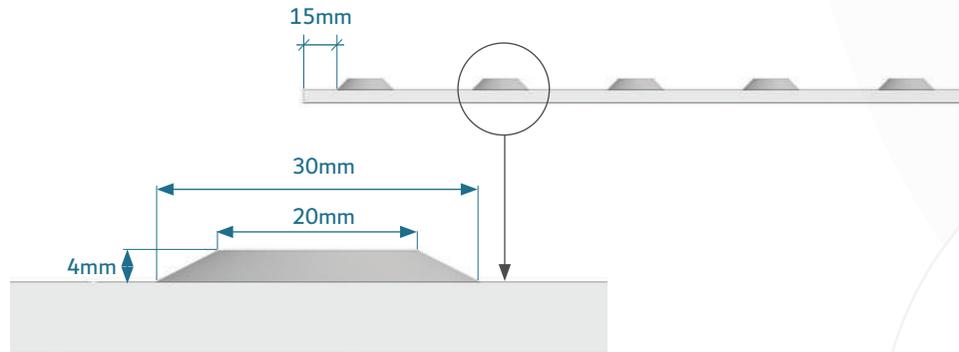
LCWT1 Available in the beginning and end of every level change including ramps and stair landings, or any dangerous element

LCWT2 Installed along the entire width of the element



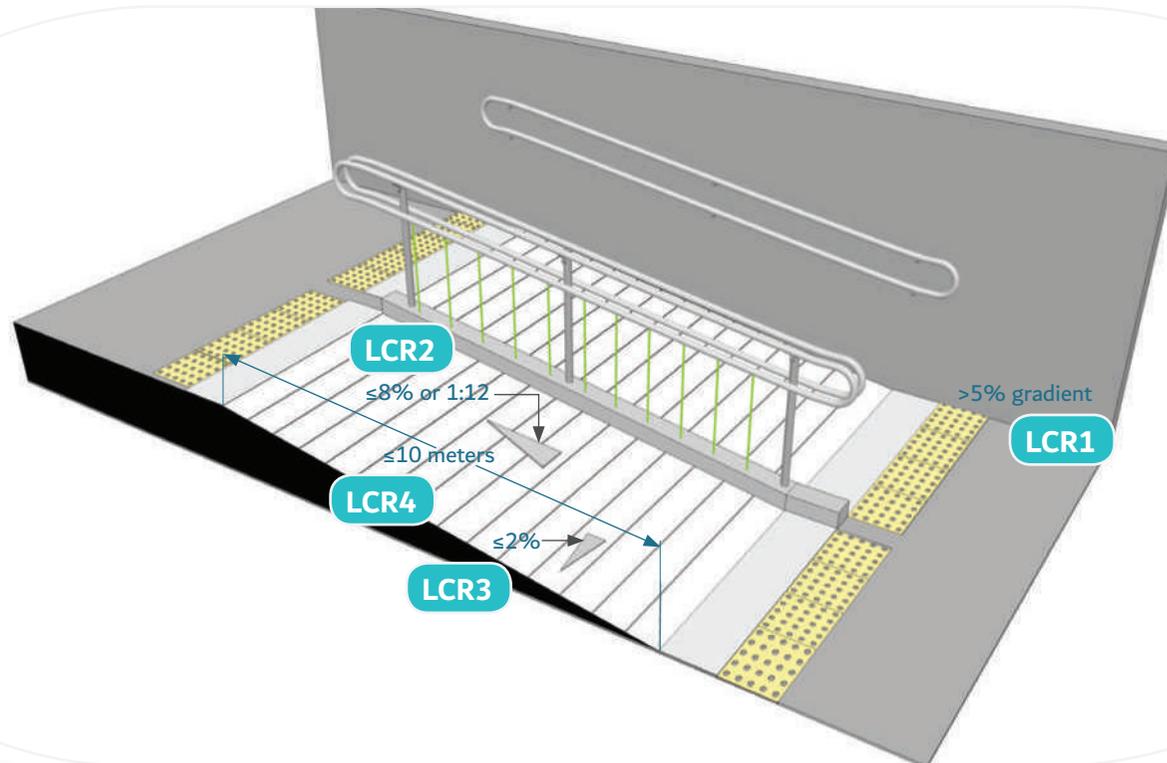
LCWT3 The width $\geq 300\text{mm}$

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

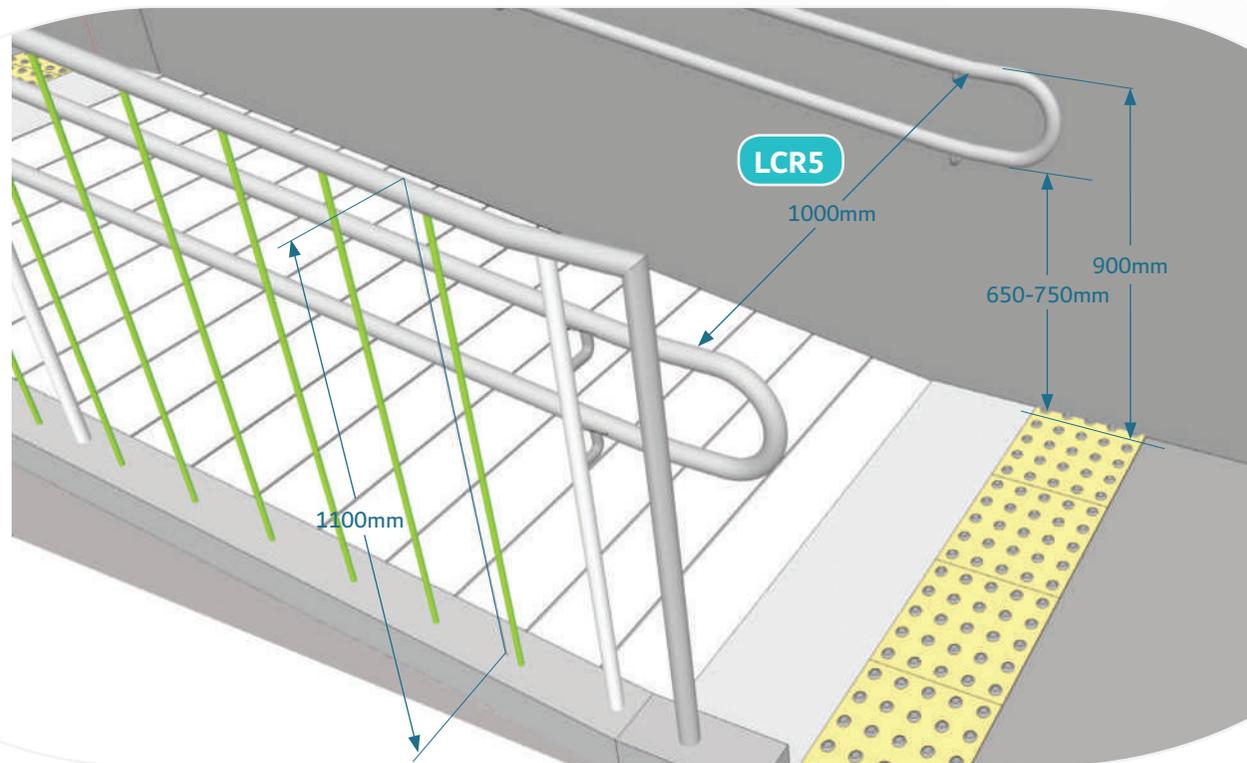


LCR1 Ramps used only when gradient of level $>5\%$

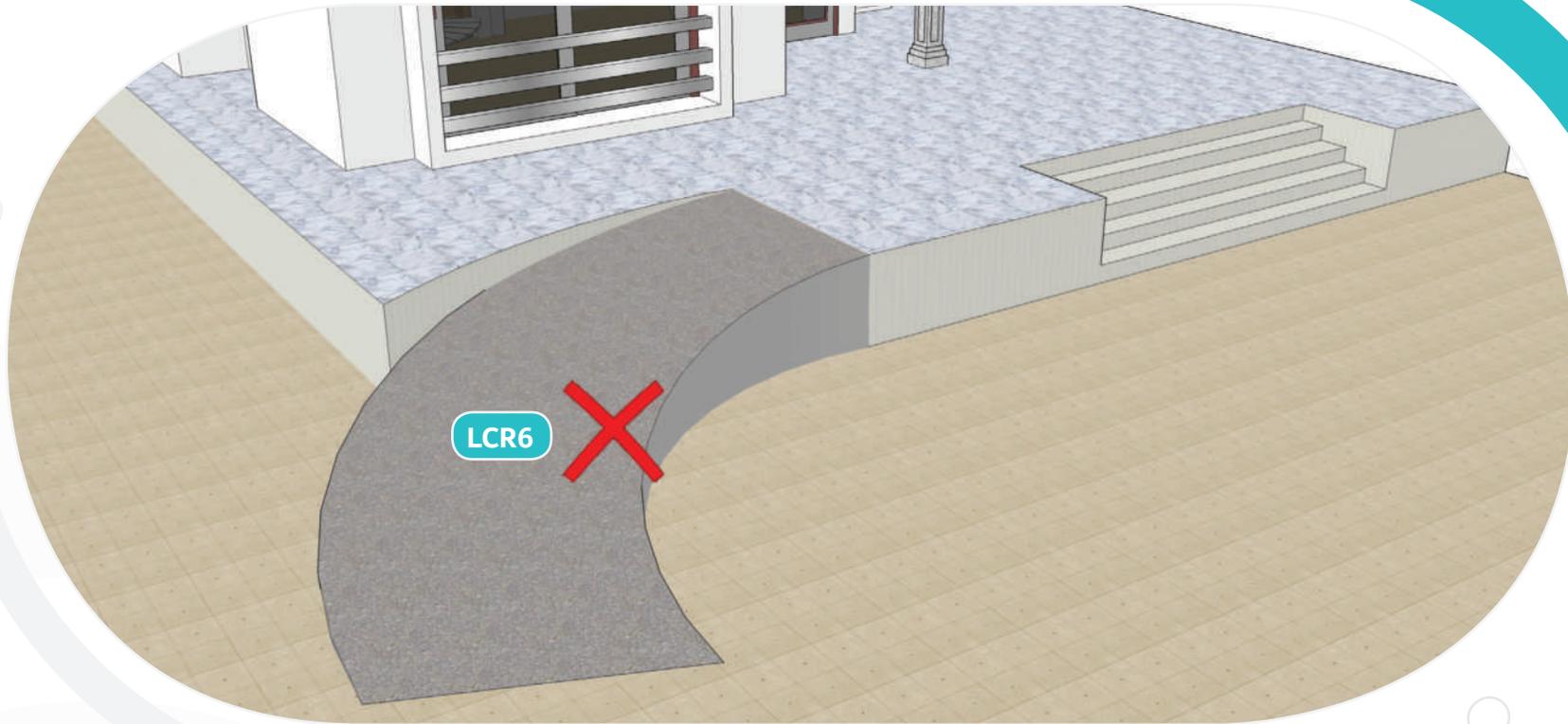
LCR2 Slope is $\leq 8\%$ or 1:12

LCR3 Cross fall gradient $\leq 2\%$

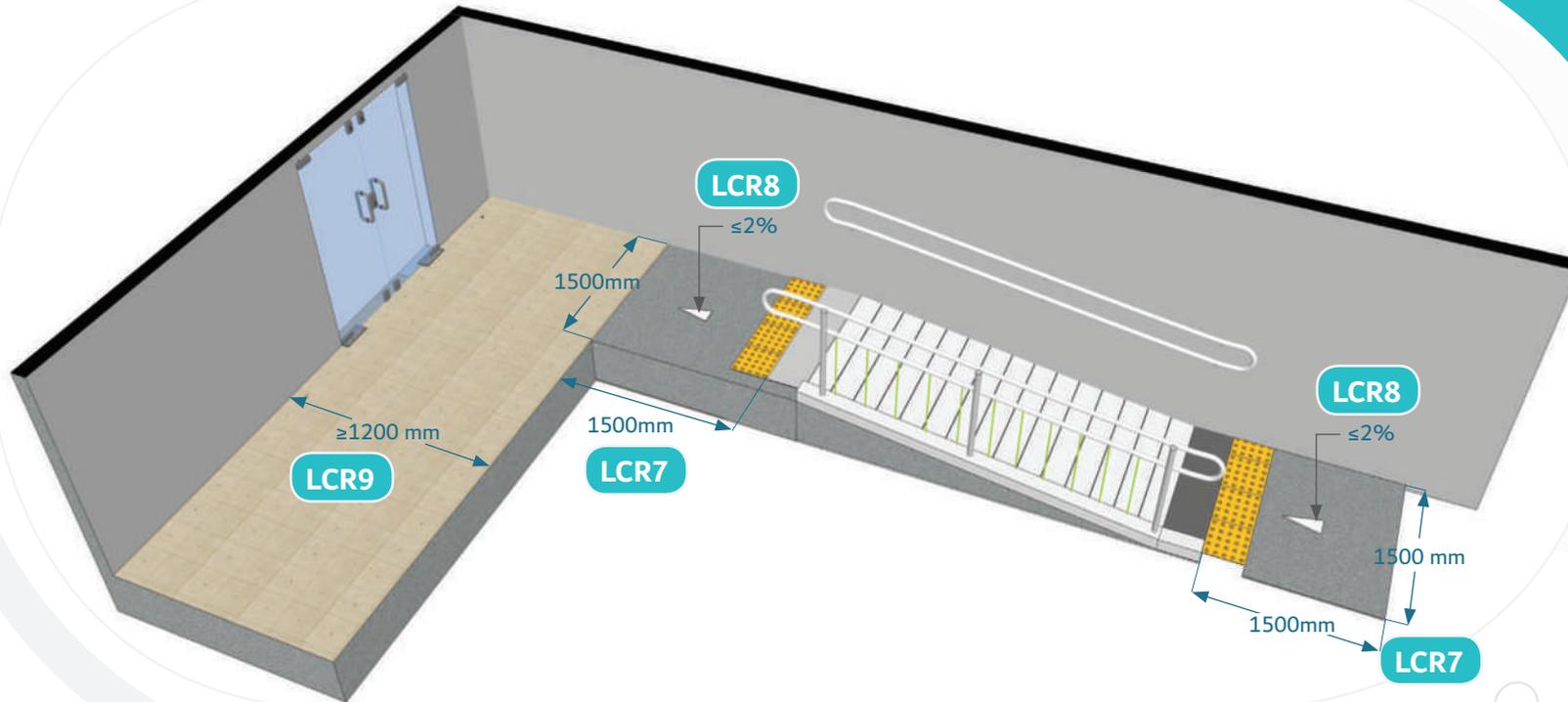
LCR4 Run length ≤ 10 meters



LCR5 Run width = 1000 mm between handrails



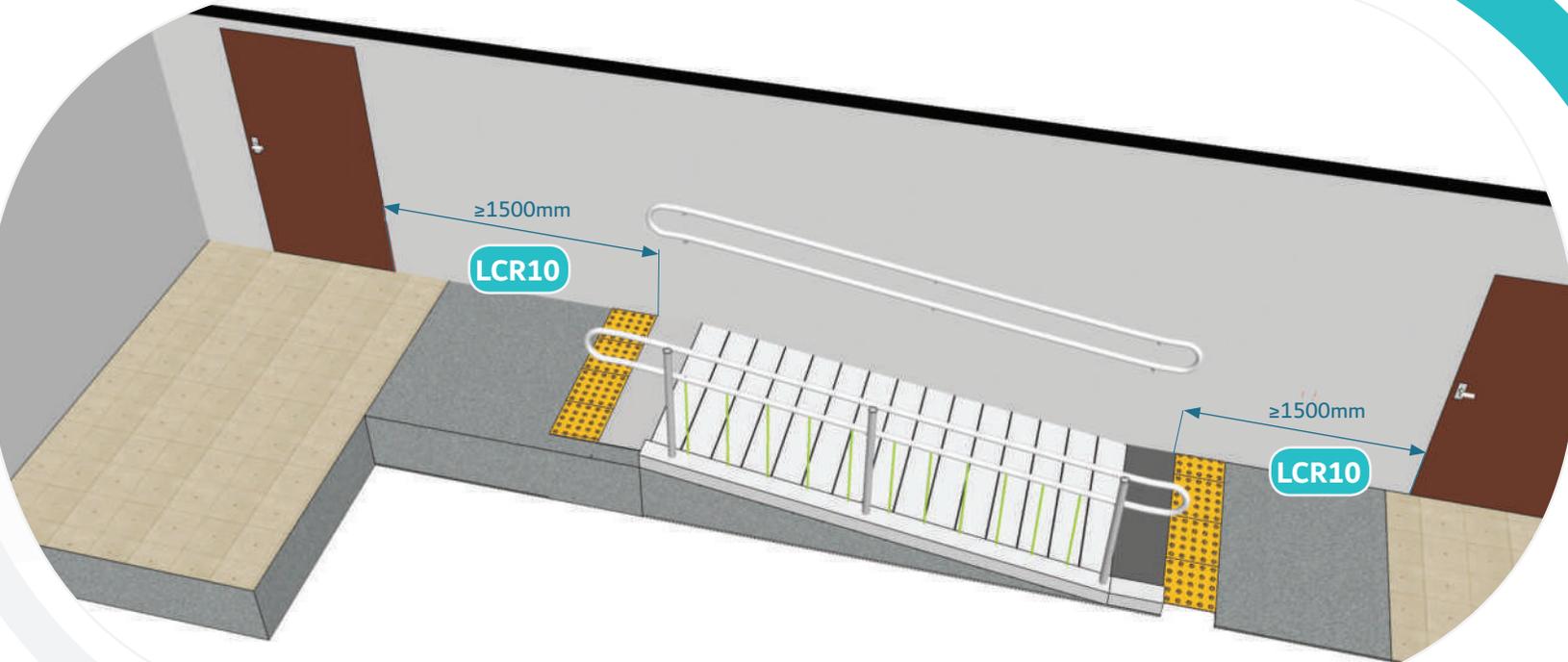
LCR6 No curved ramps



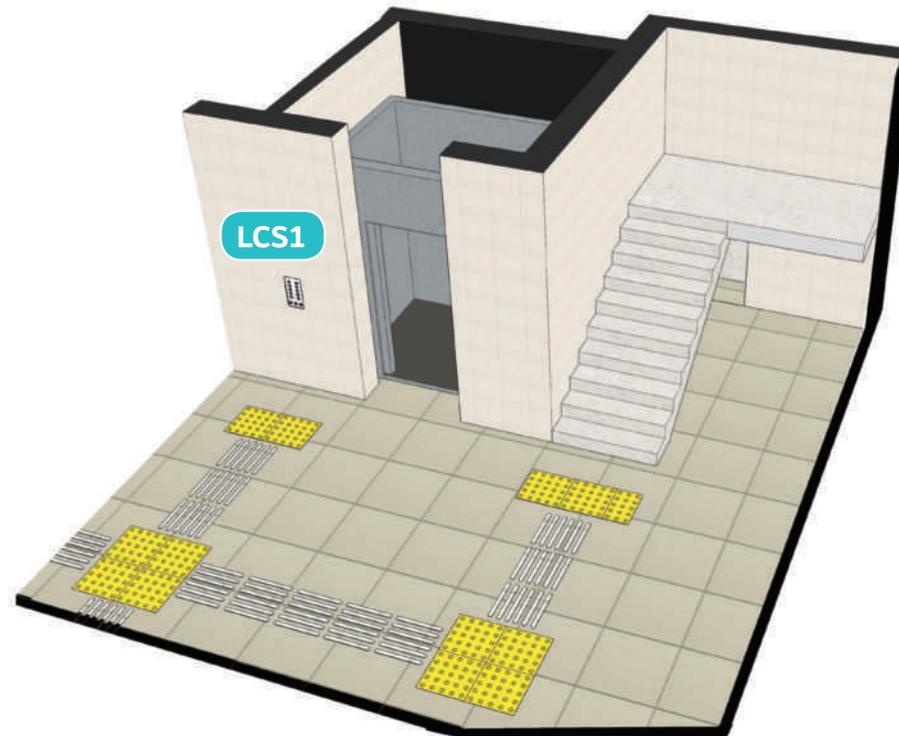
LCR7 Landings at the beginning and end of every run -surface $1500\text{mm} \times 1500\text{mm}$

LCR8 Level landings or $\leq 2\%$

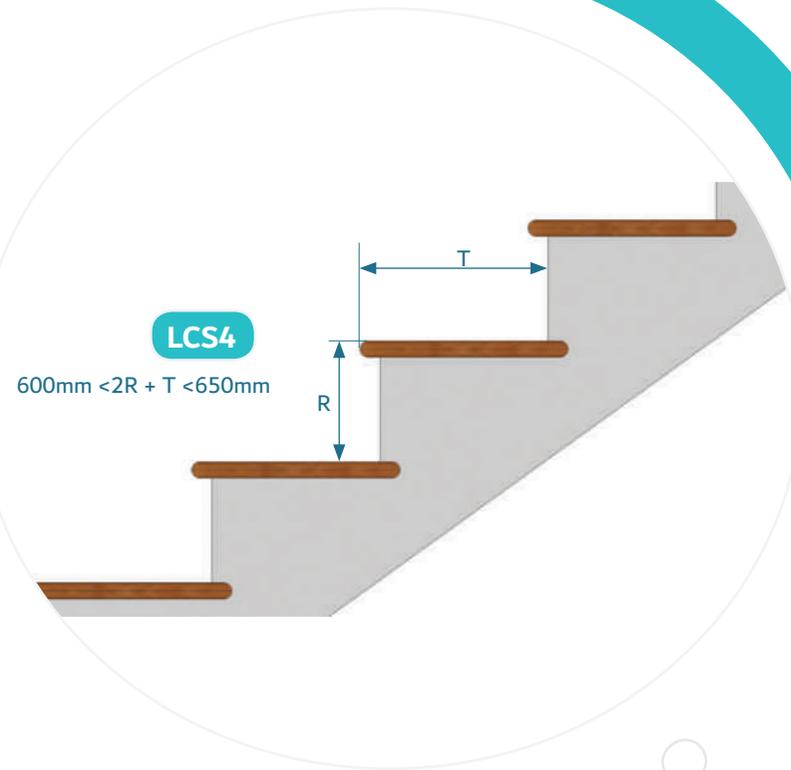
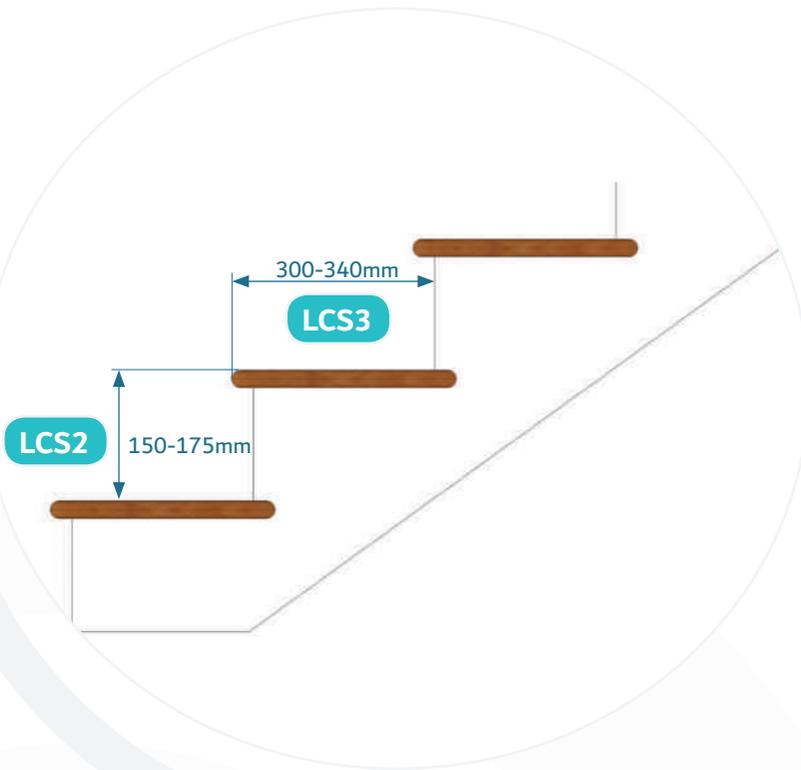
LCR9 Corridors in landings width ≥ 1200 mm width



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



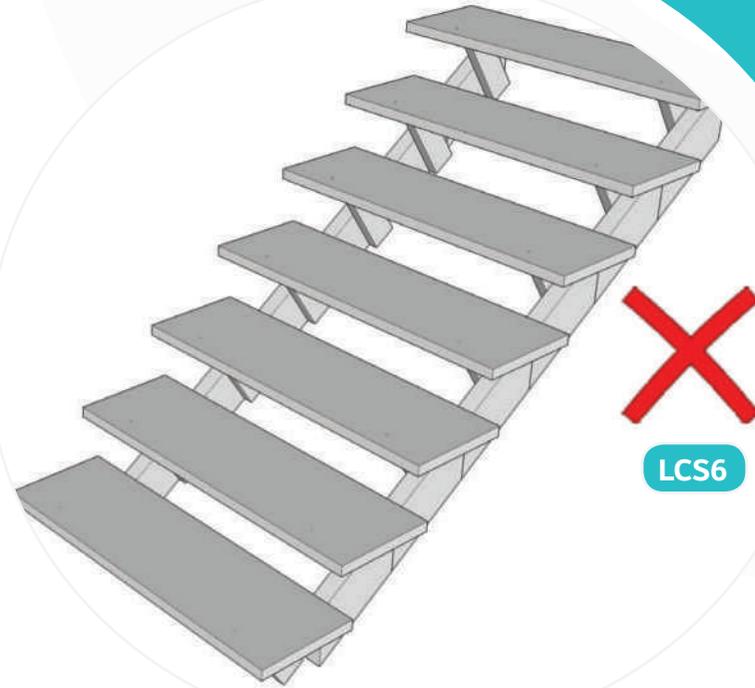
LCS2 Steps rises between 150 - 175mm

LCS3 Steps stair treads between 300 - 340mm

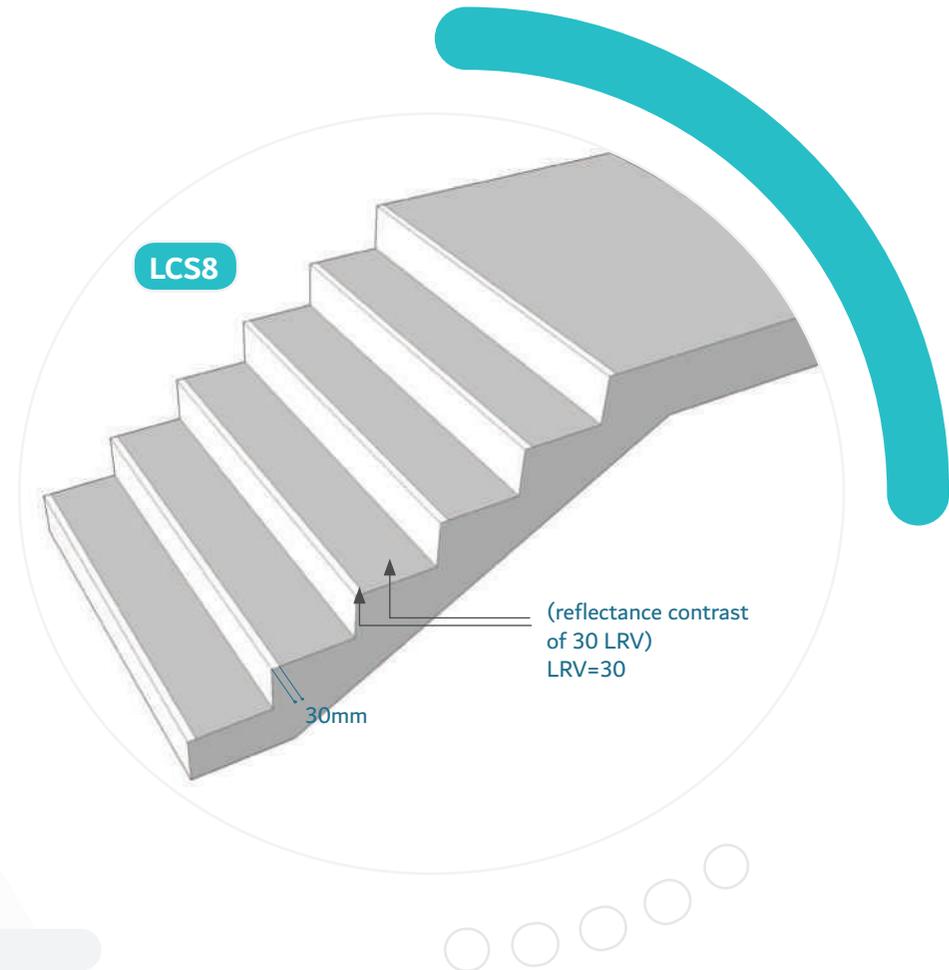
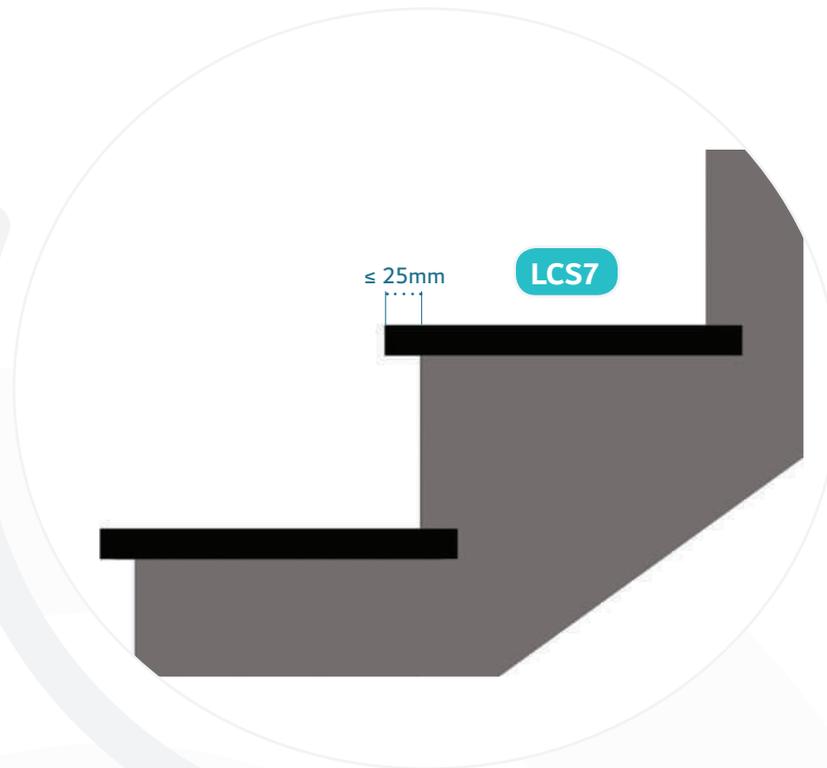
LCS4 Steps rise (R) and Tread (T) fulfil: $600\text{ mm} < 2R + T < 650\text{mm}$



LCS5 No curved stairs



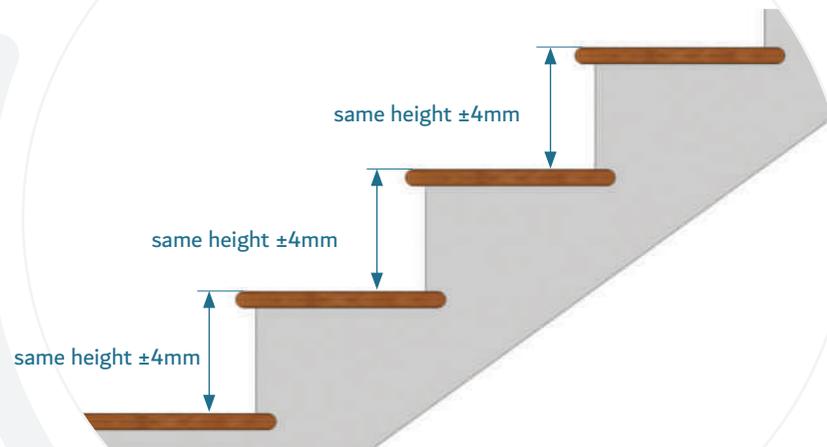
LCS6 No open risers or discontinued treads



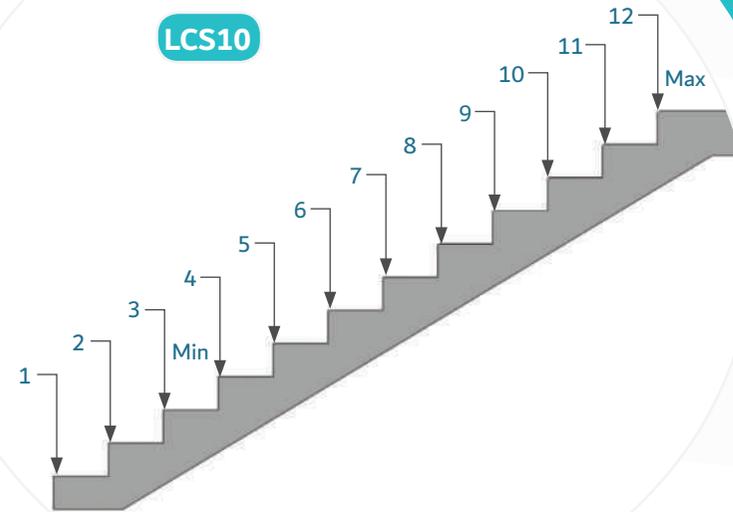
LCS7 Steps with nosing ≤ 25 mm

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

LCS9

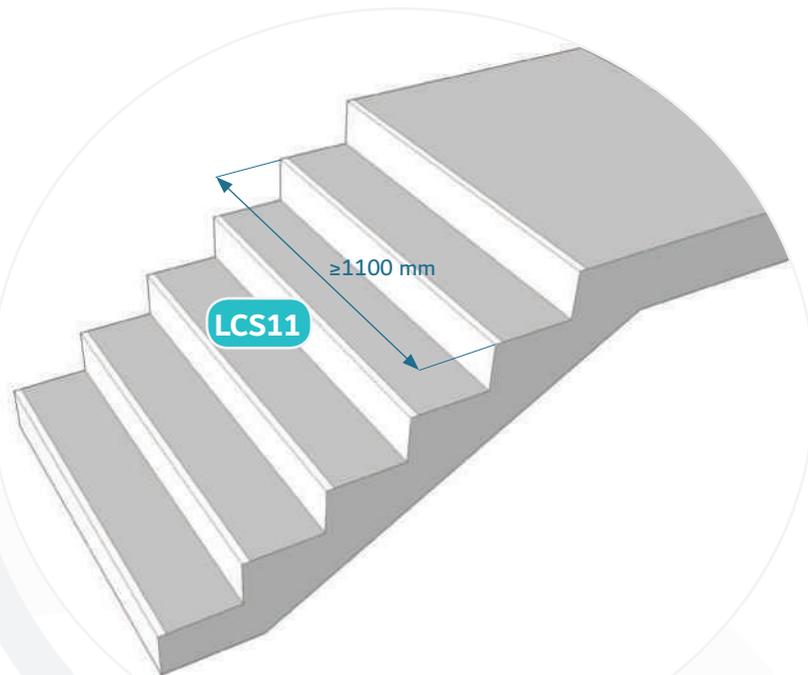


LCS10

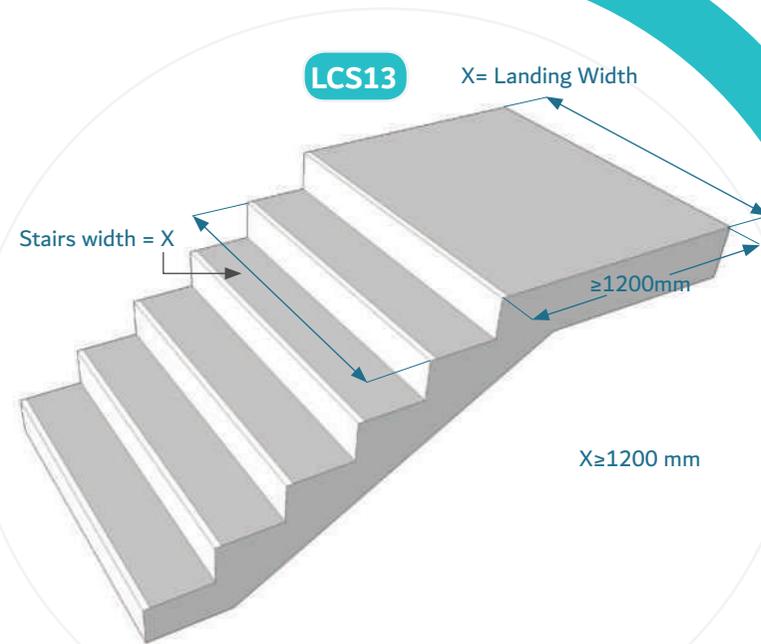


LCS9 Steps with same height with a $\pm 4\text{mm}$ tolerance

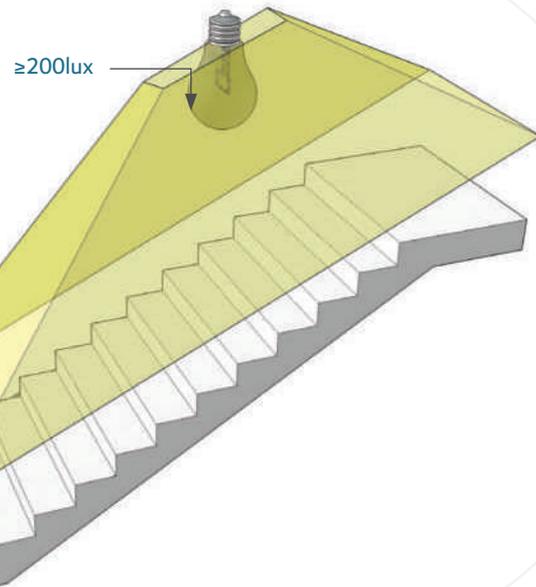
LCS10 Stair flights steps number between 3 and 12



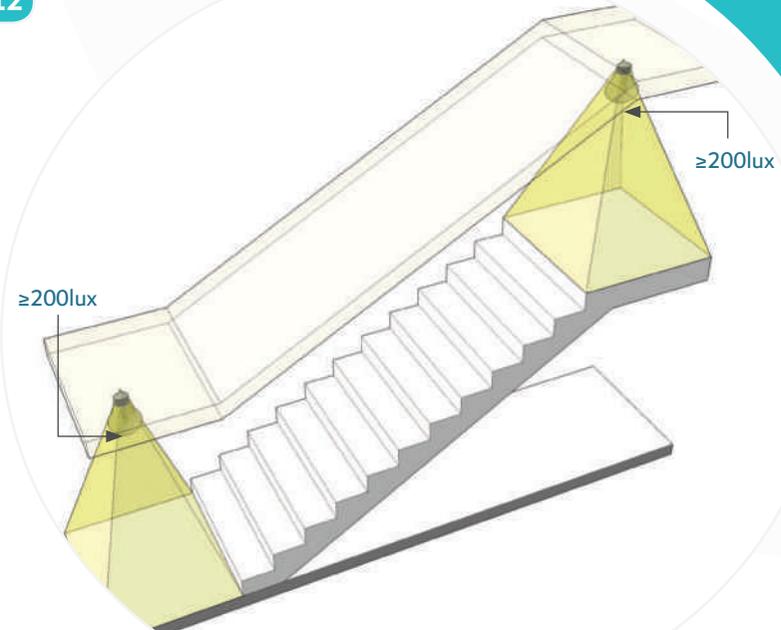
LCS11 Usable stair flight width $\geq 1100 \text{ mm}$



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

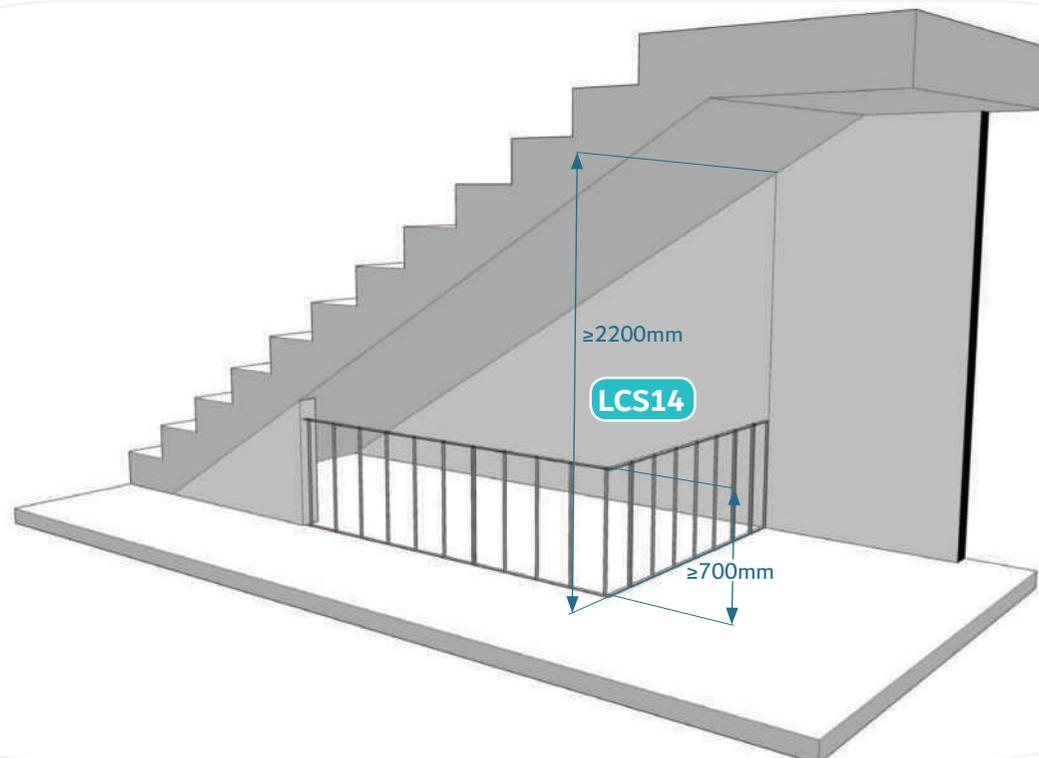


LCS12

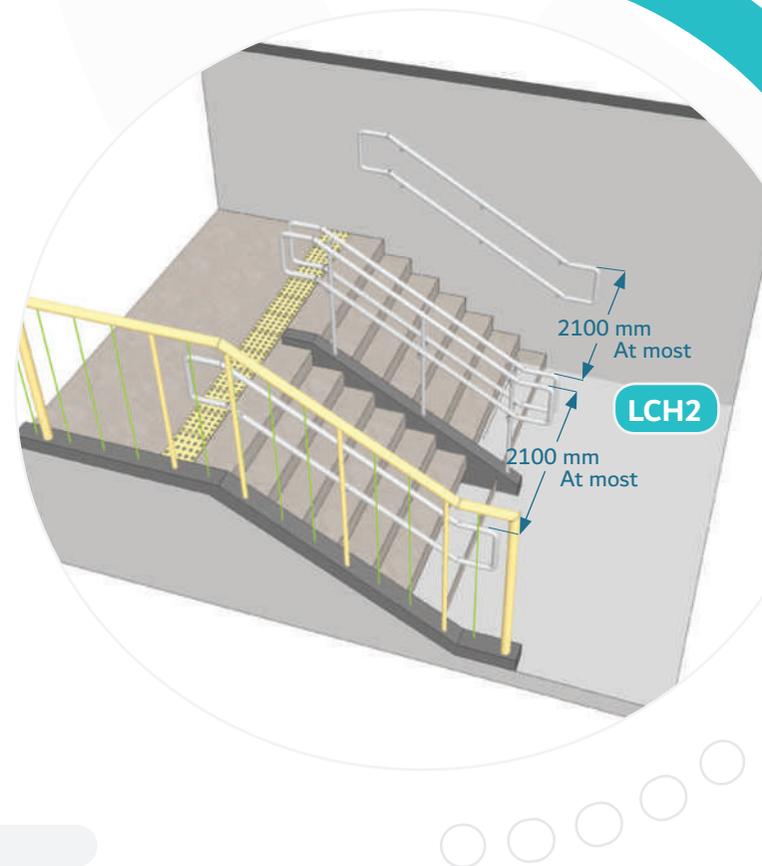
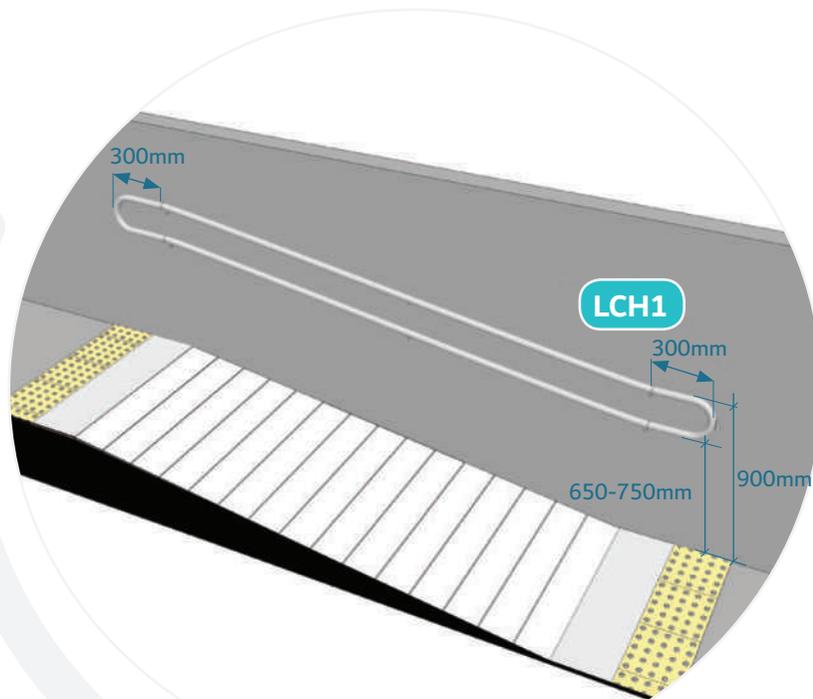


LCS12

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

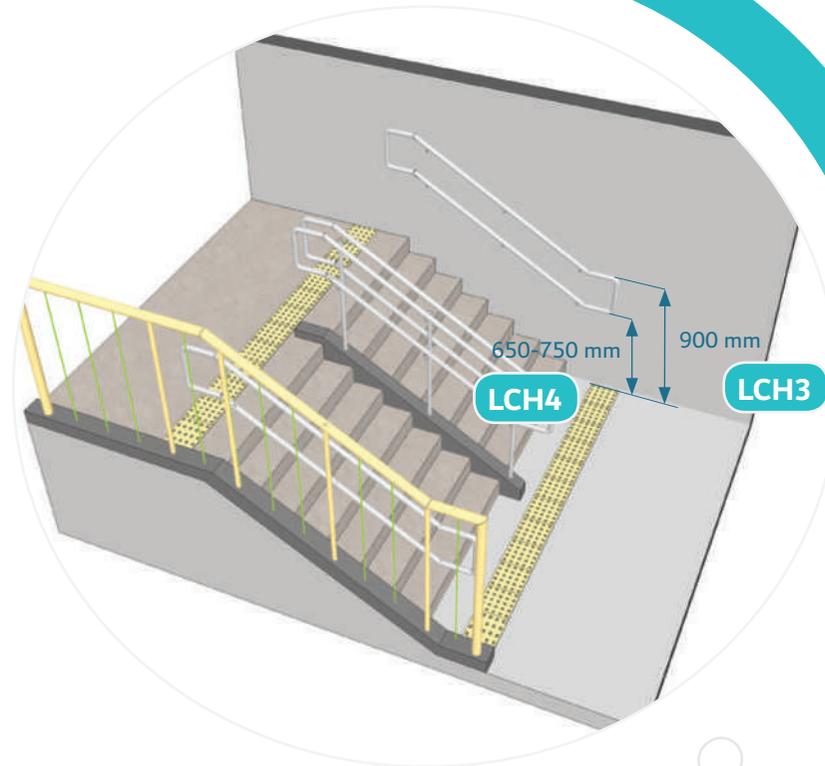
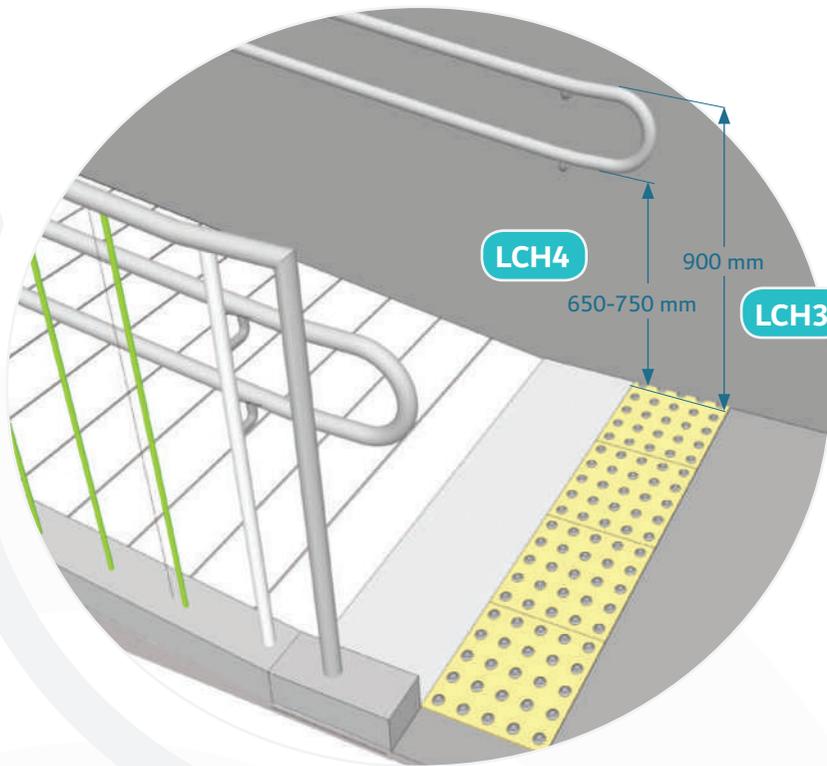


LCS14 Empty space with height $< 2200\text{mm}$ under the stair is protected



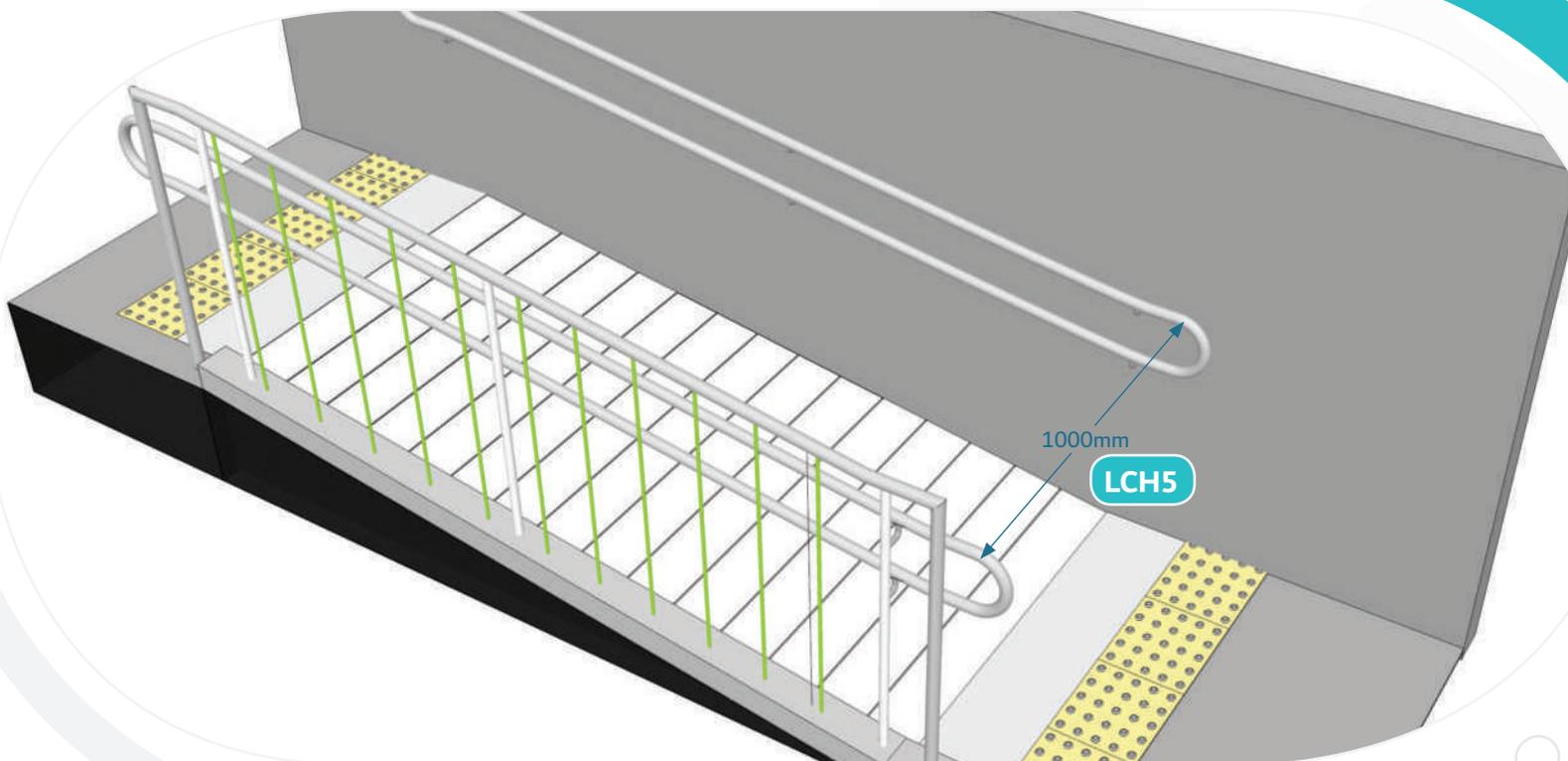
LCH1 300 mm horizontal extension at its ends

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



LCH3 Mounted at height of 900mm

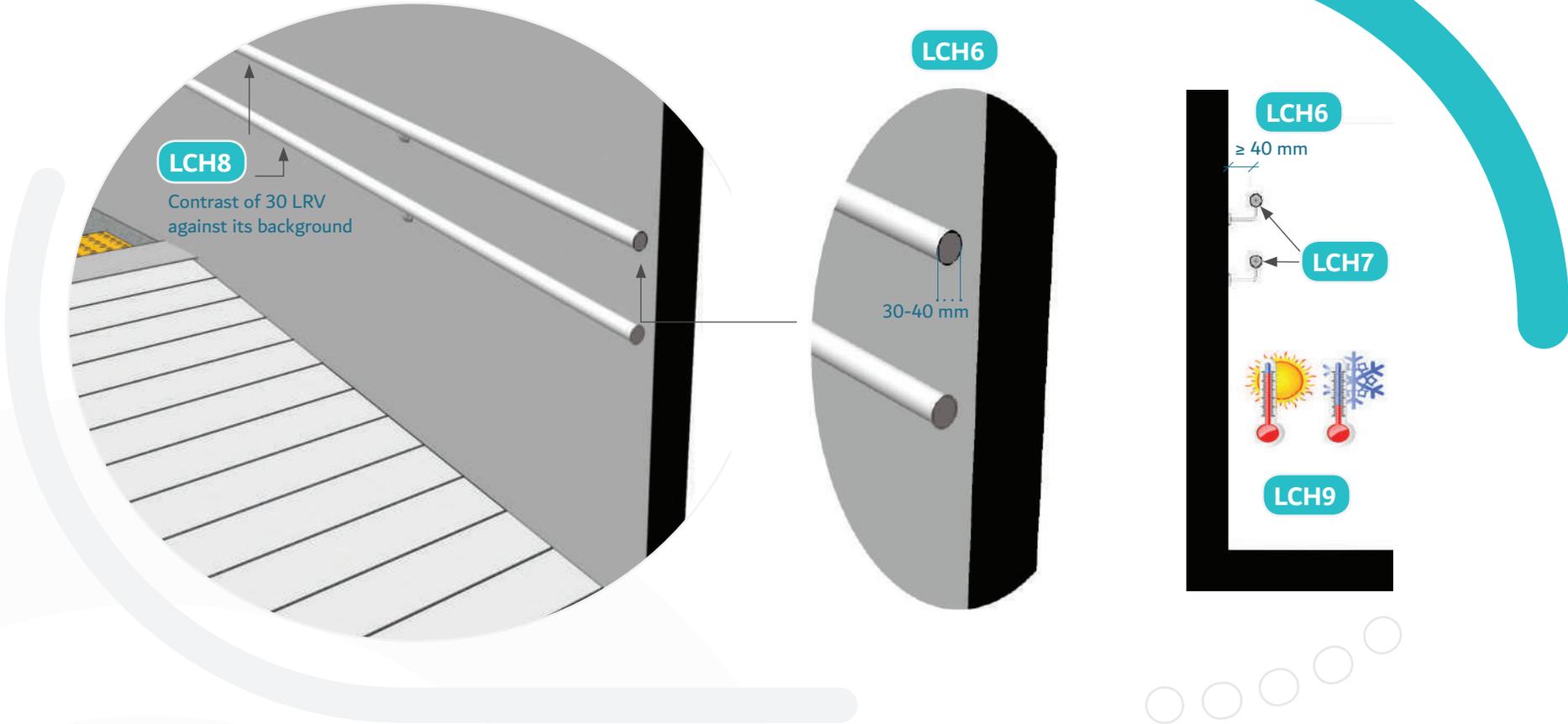
LCH4 Additional handrail at a height between 650 - 750mm



LCH5

The distance between both sides of handrails is 1000mm

LCH Level Changes - Handrail for ramp and stairs

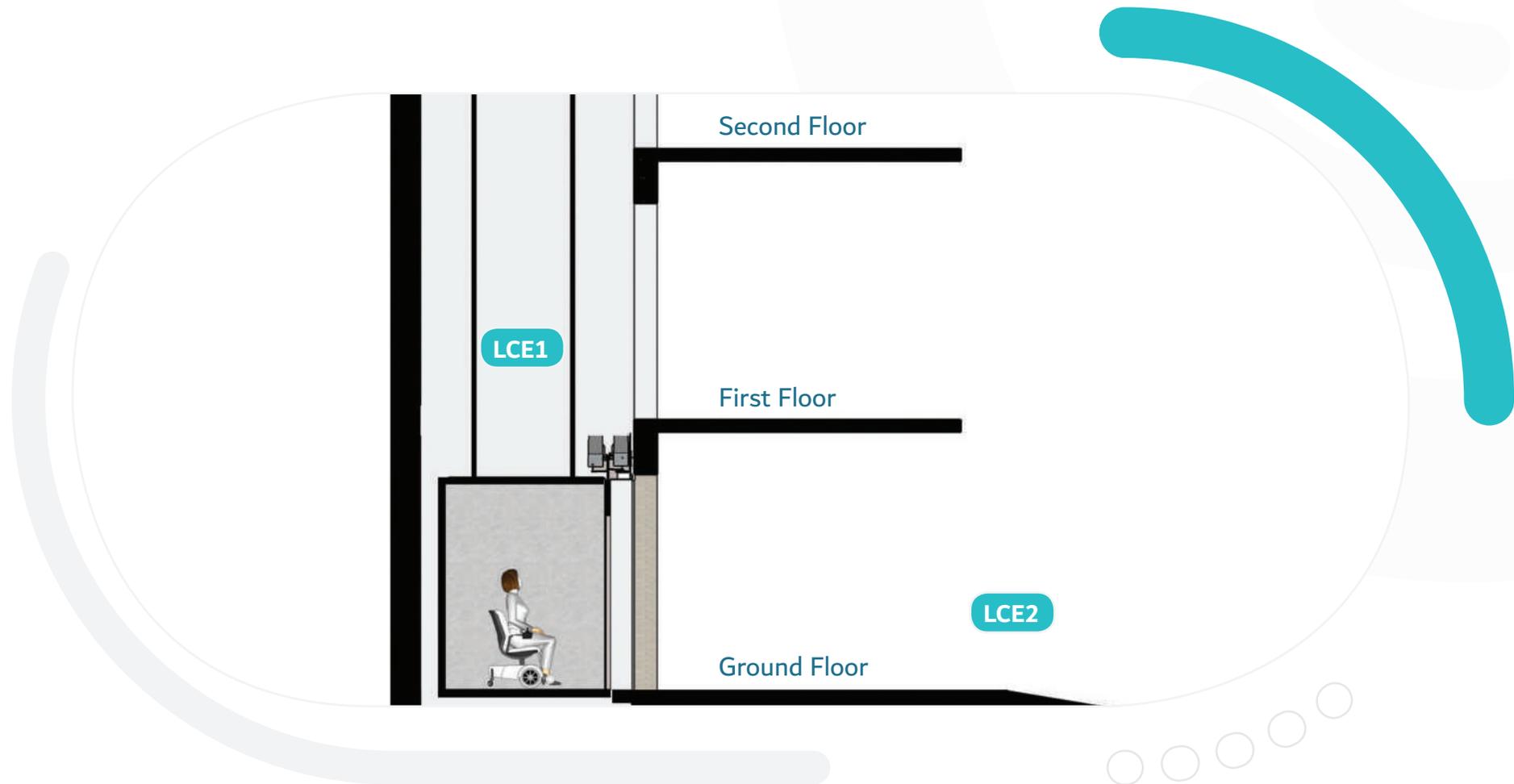


LCH6 Rounded section of 30 - 40 mm separated from the wall with a distance ≥ 40 mm

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

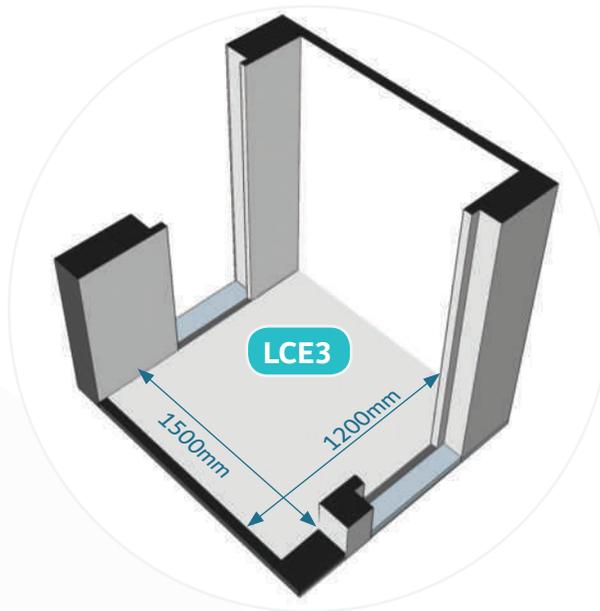


LCE1 Present in buildings with more than one floor

LCE2 Accessible from ground floor in public areas



One door



Two Doors (opposing)

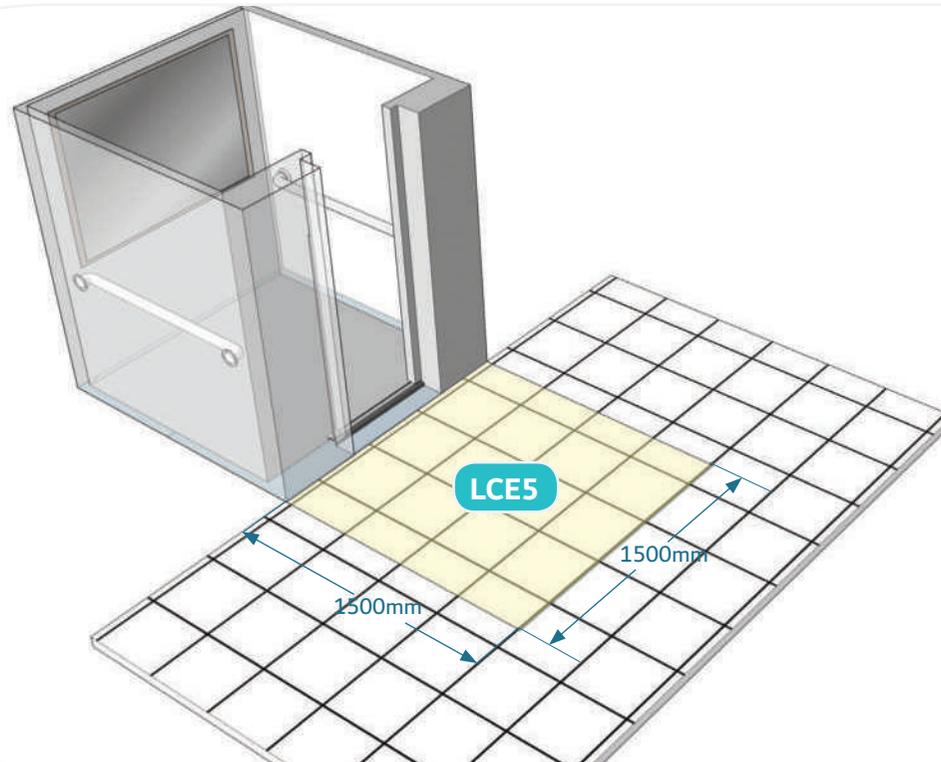


Two Doors (in 90°)

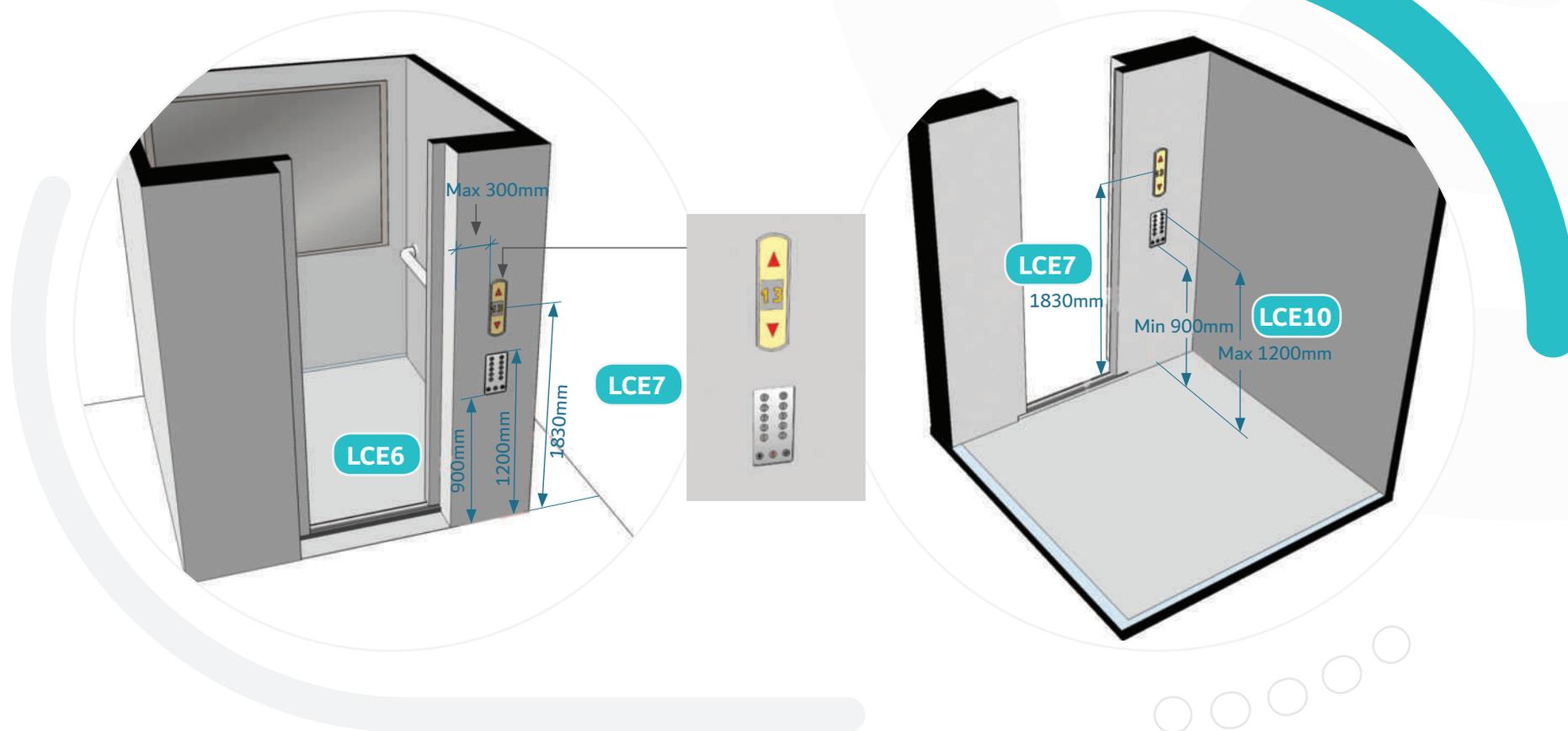
LCE3 Dimensions shall comply: One door $\geq 1200 \times 1500\text{mm}$ - Two opposing doors $\geq 1200 \times 1500\text{mm}$
- Two doors in $90^\circ \geq 1500 \times 1500\text{mm}$



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

**LCE5**

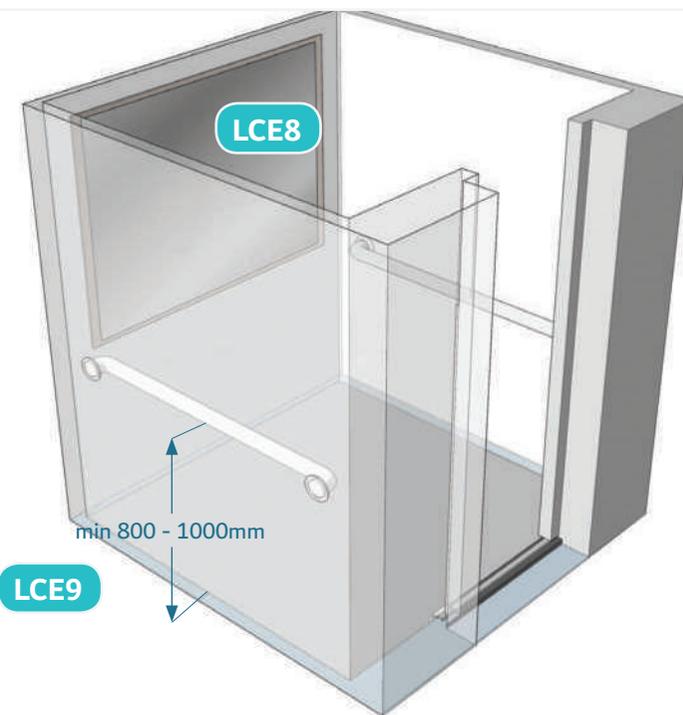
Maneuvering space of 1500 x 1500mm in front the elevator access



LCE6 Elevator calling buttons height between 900 - 1200mm

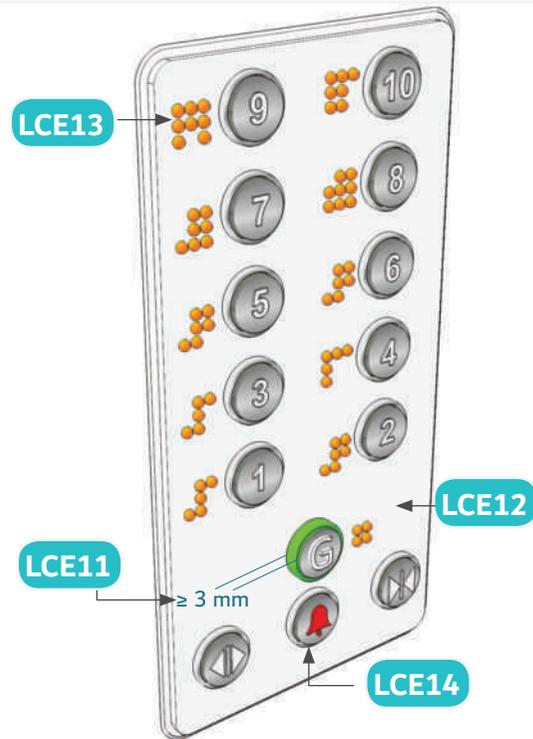
LCE10 Inside the cabin buttons height between 900 - 1200mm

LCE7 Floor indicator located at 1830mm

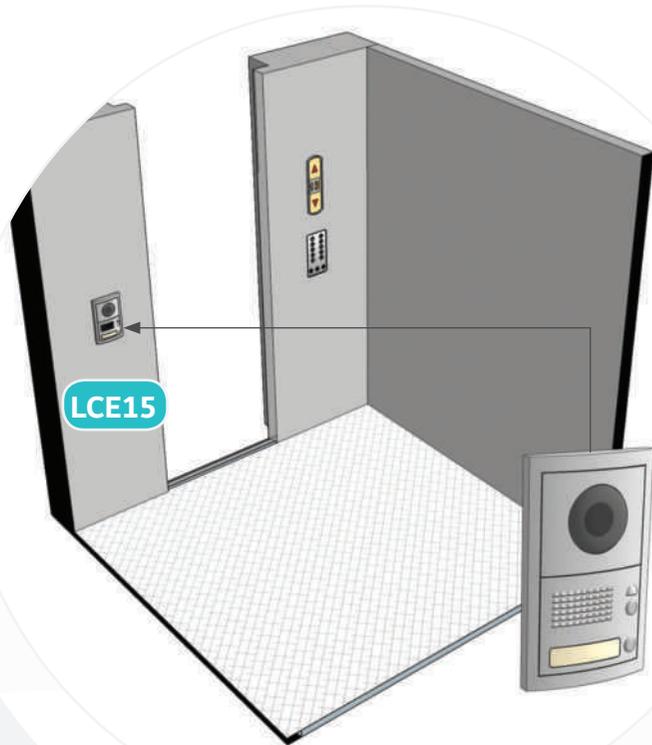


LCE8 Only one mirror inside the cabin on the wall opposite to the door over the handrail level

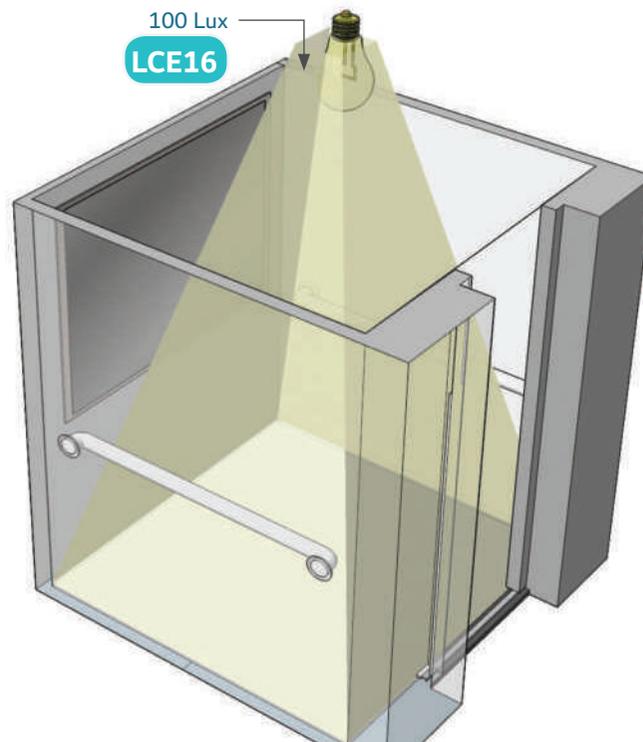
LCE9 Inside the cabin, minimum two handrails at a height of 800 mm to 1000mm from the floor



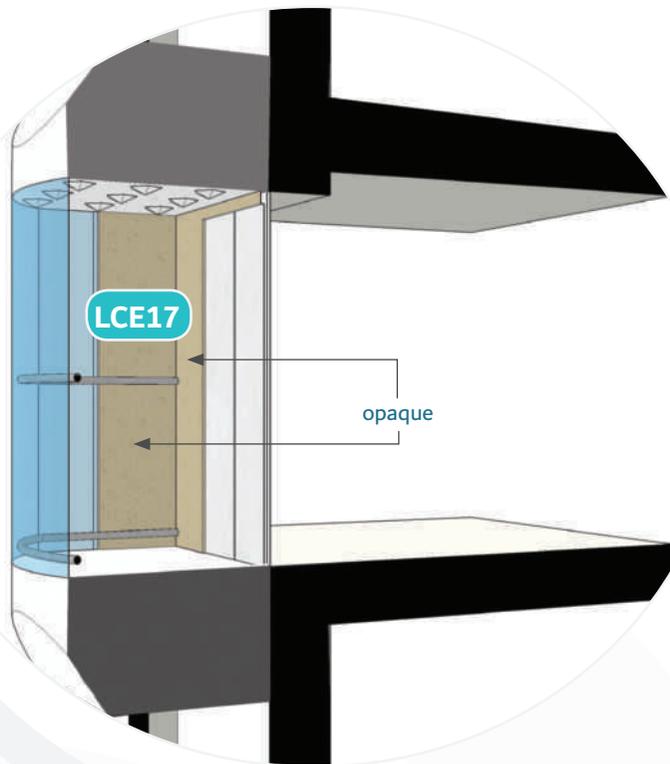
- LCE11** The ground floor button protruded ≥ 3 mm distinguished with a green color
- LCE12** Call buttons distinguished with icons and color contrast against background
- LCE13** Buttons provide two-channel feedback/ visual & acoustic OR visual & tactile
- LCE14** Emergency phone number is indicated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

LCE Level Changes - Elevators



LCE18 Automatic doors open at least 3 seconds

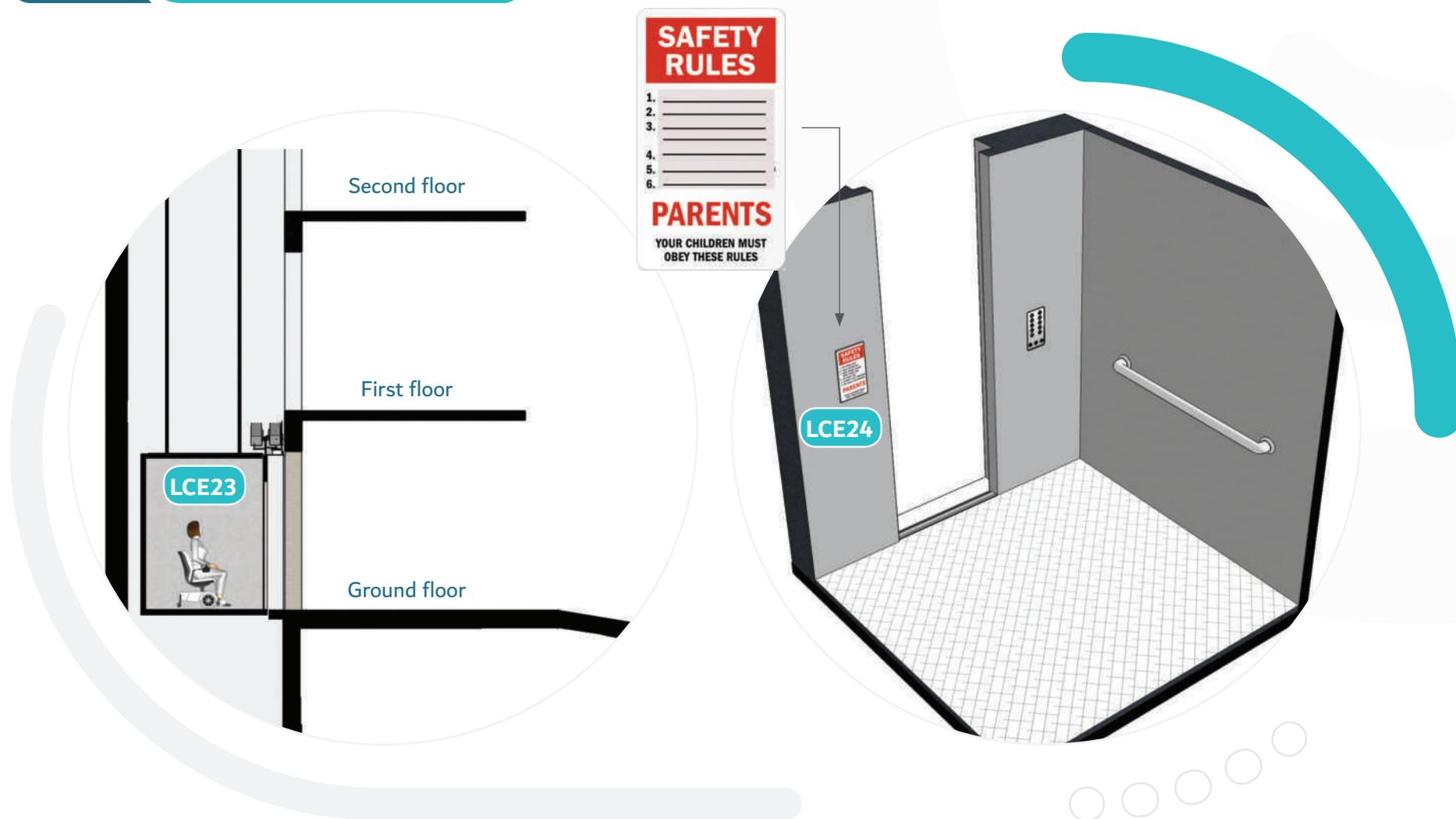
LCE19 Doors provided with sensors at two levels open automatically

LCE20 Door force less than 135N

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

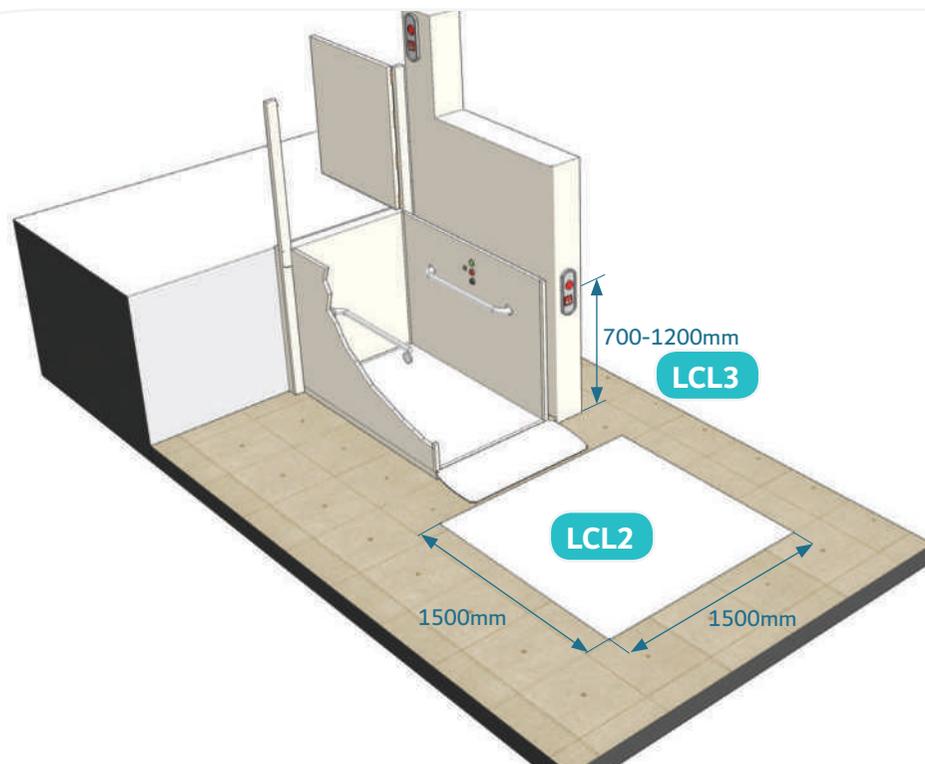


LCE21 Indication sign of accessible elevator direction when various options of vertical circulation



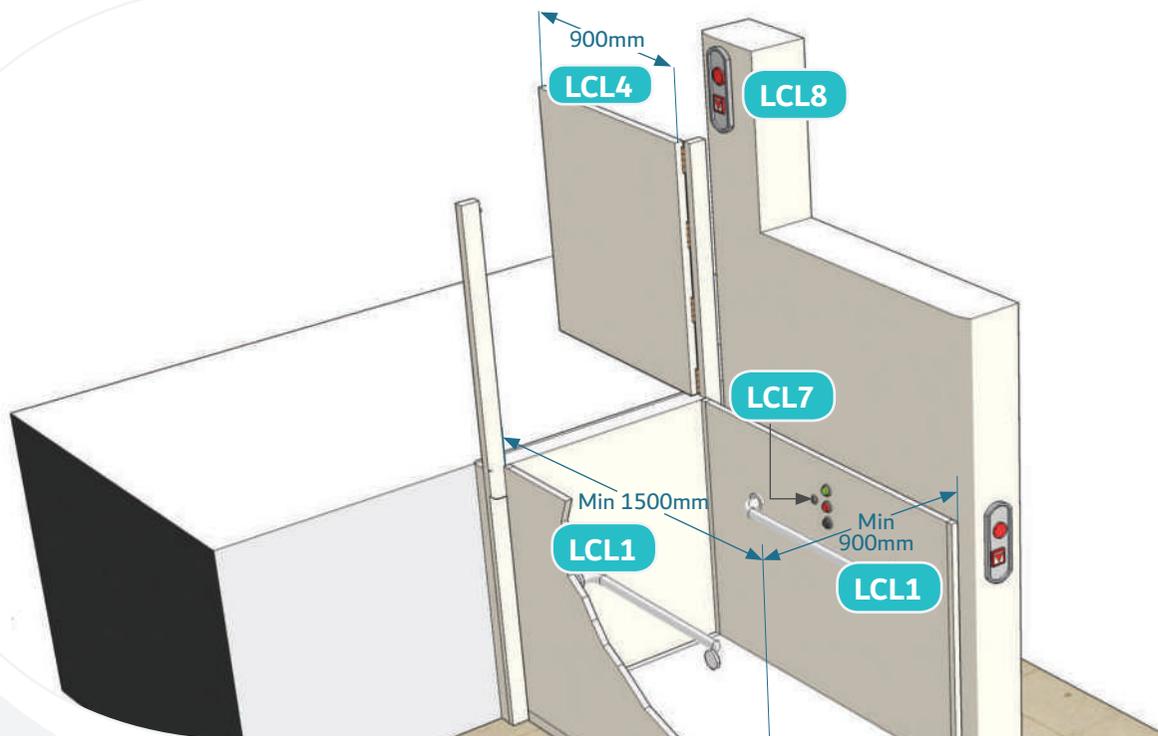
LCE23 Audible signal or voice announcement when reaching each floor

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

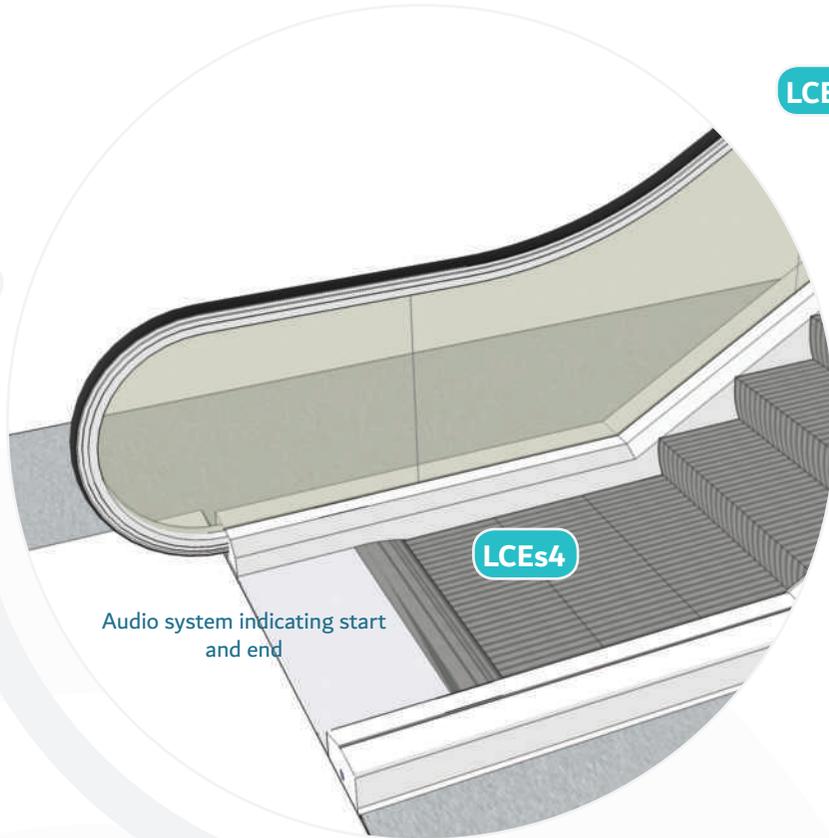
LCL9 2000mm travel height if open cabin- 4000mm height if full cabin



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

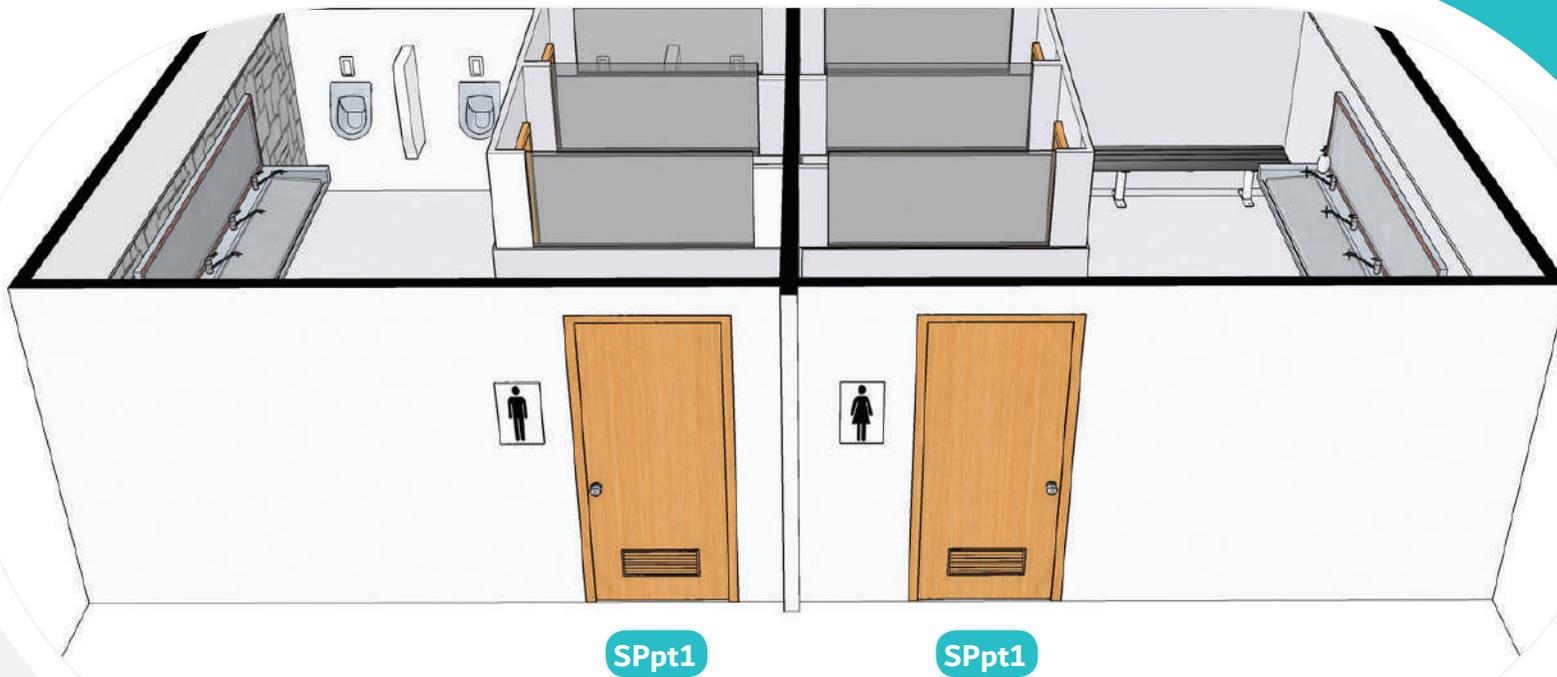
Audio system indicating start and end

LCEs4

Audio system indicating start and end

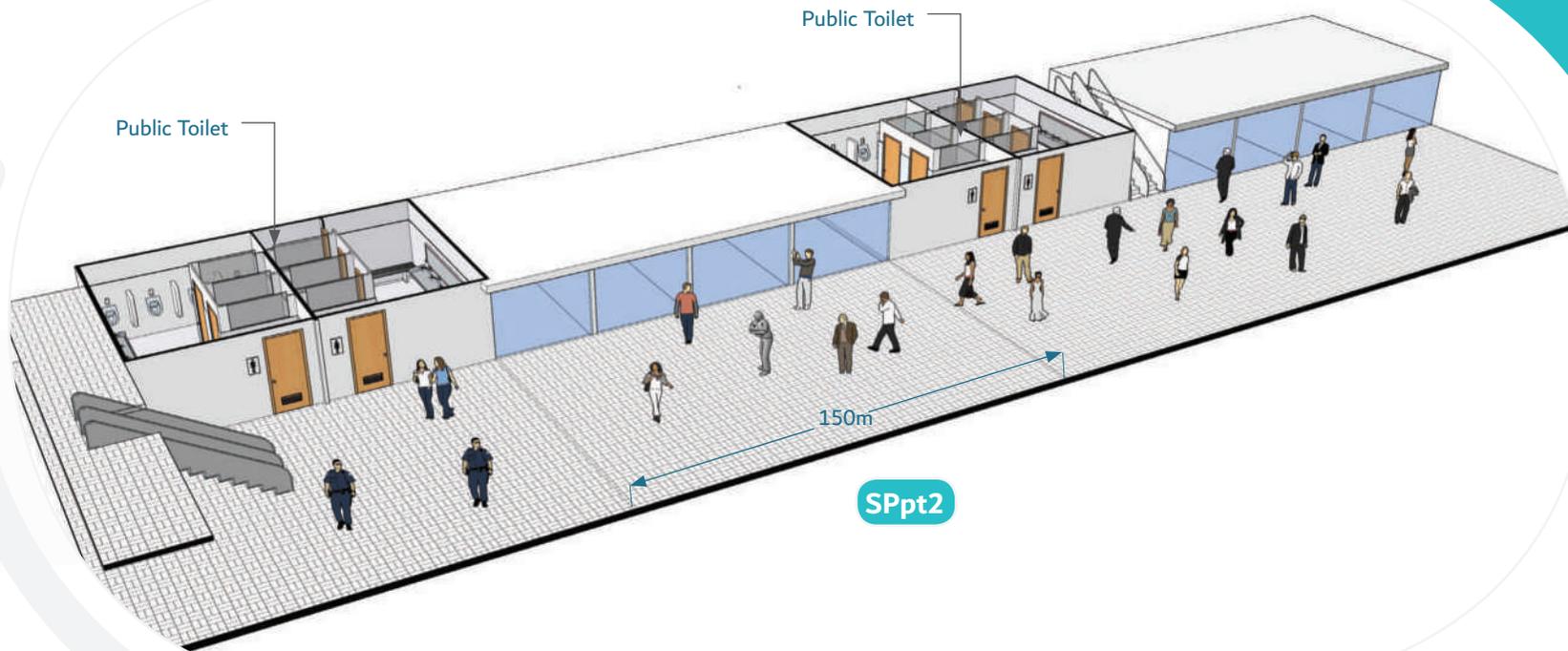
Sanitary Provisions





SPpt1

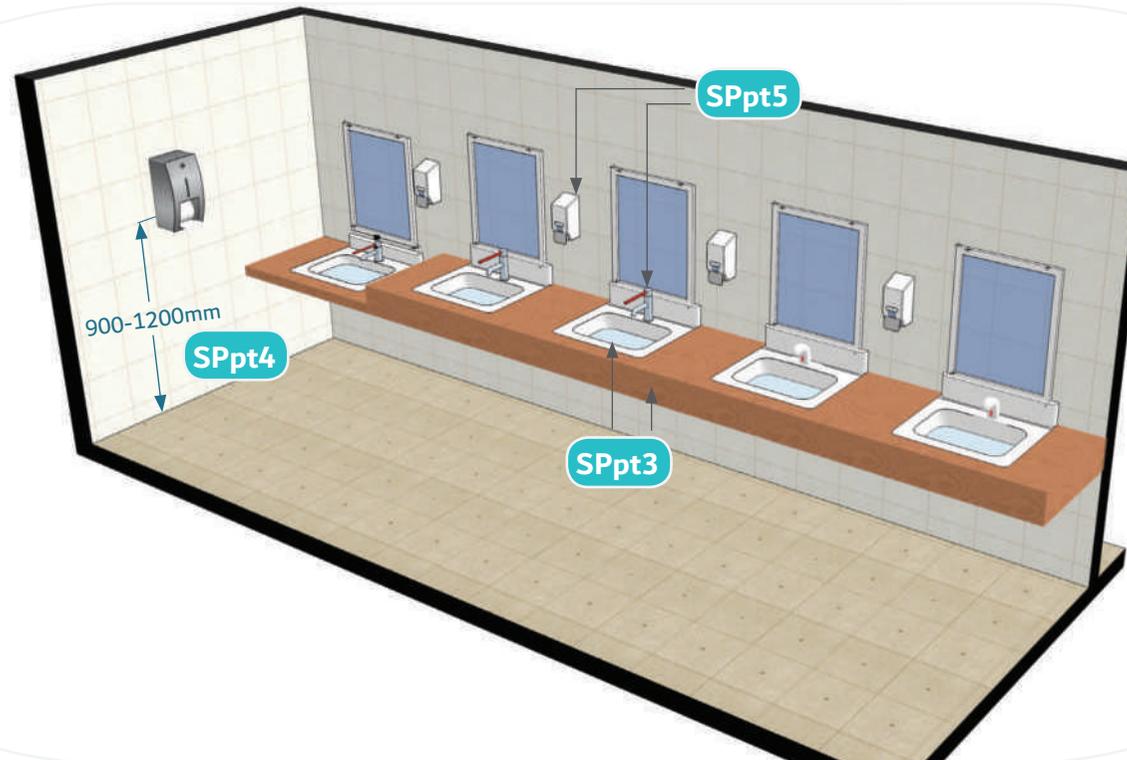
Public toilets for male and female provided



SPpt2

SPpt2

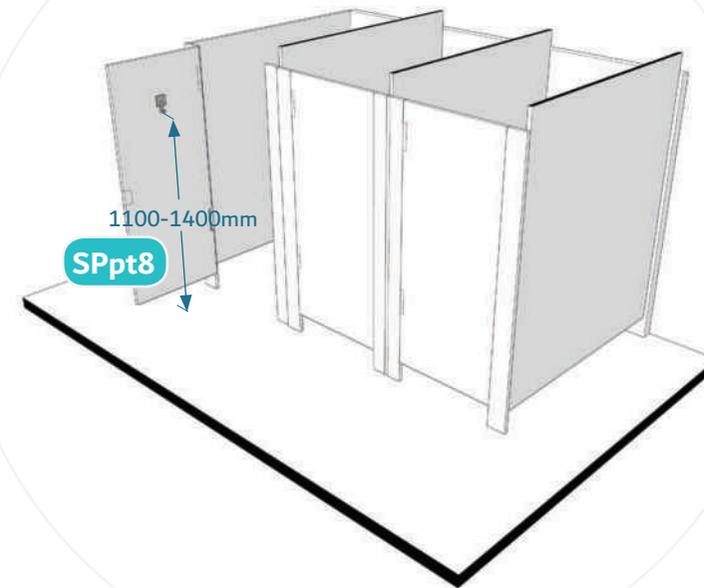
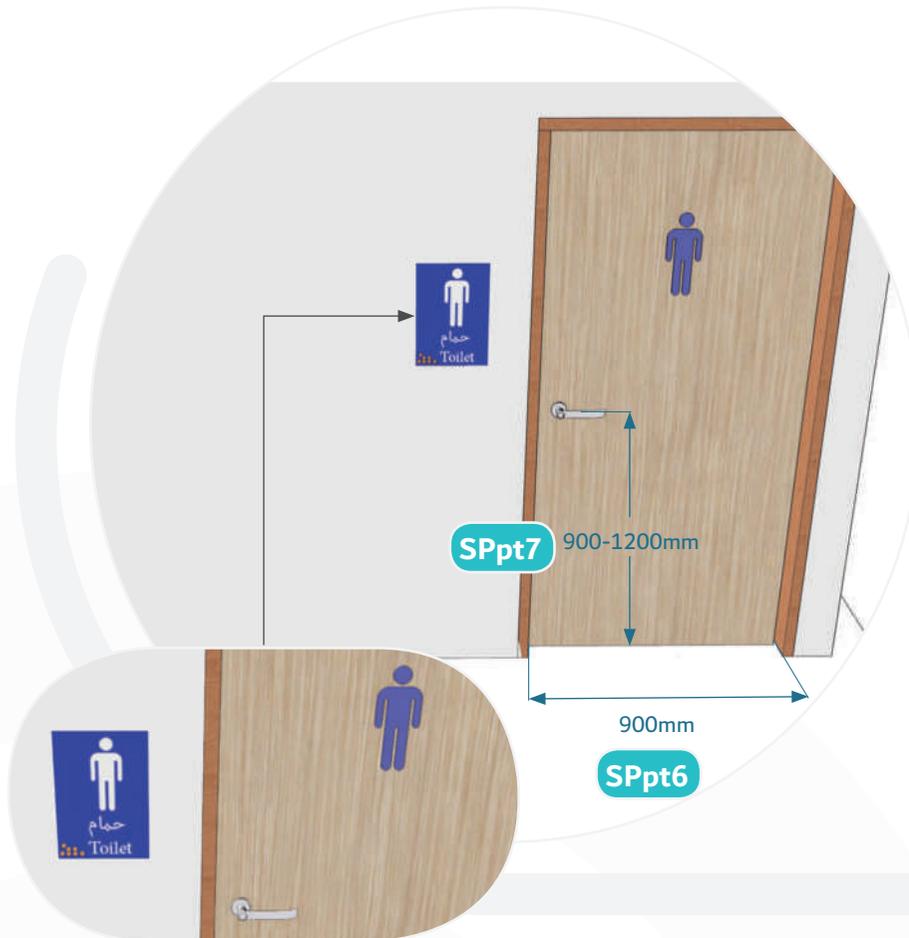
Public toilet within 150m distance



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**

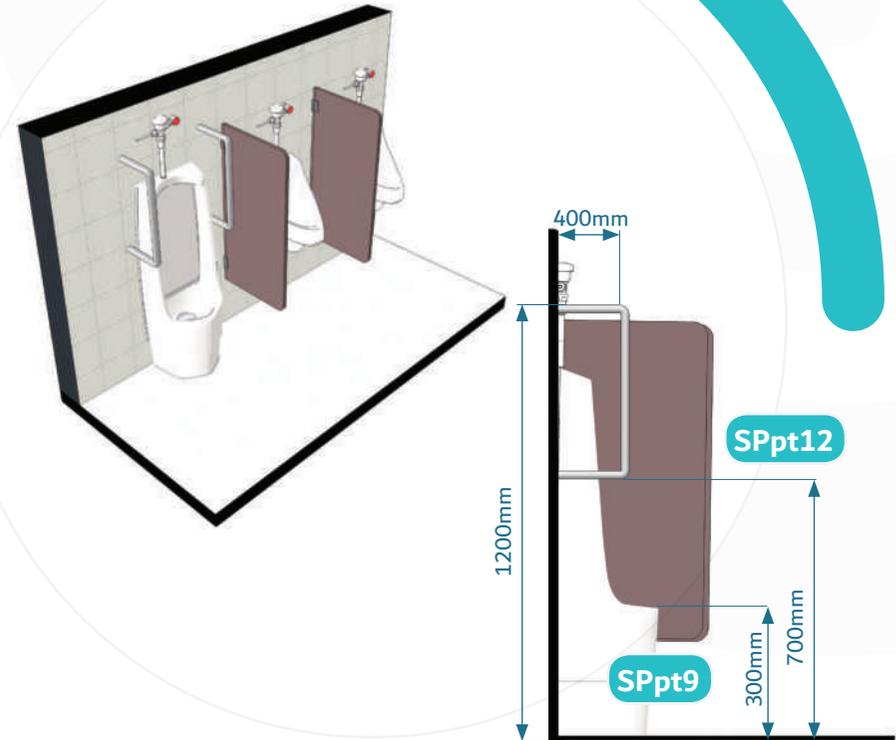
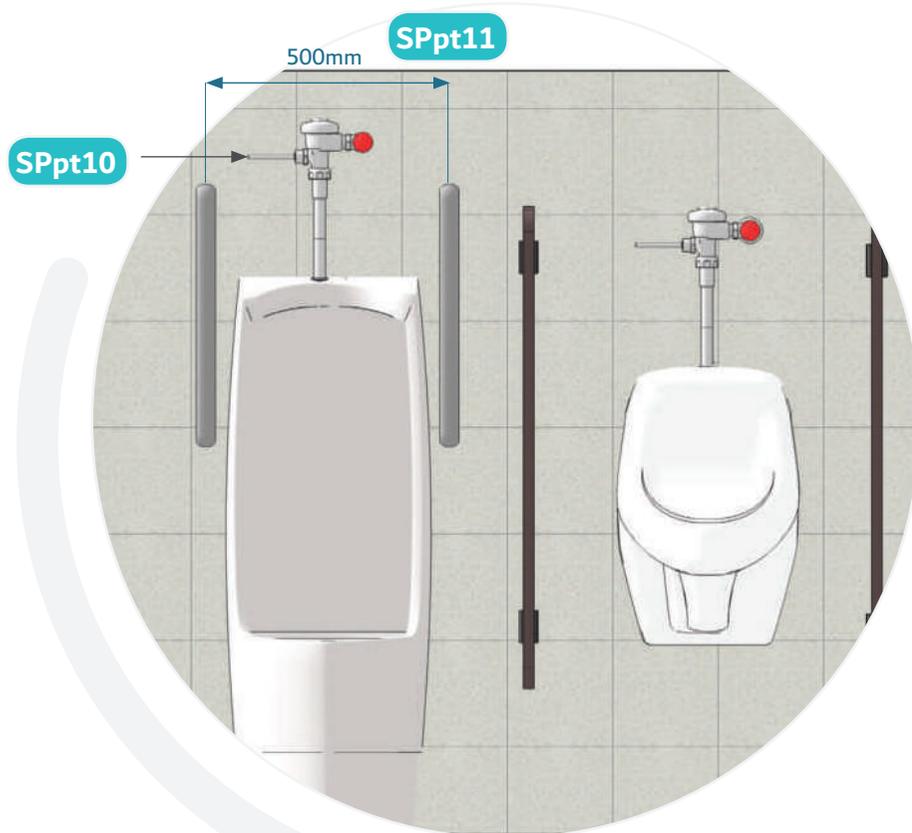
Door clear width 900mm and comply door requirements

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

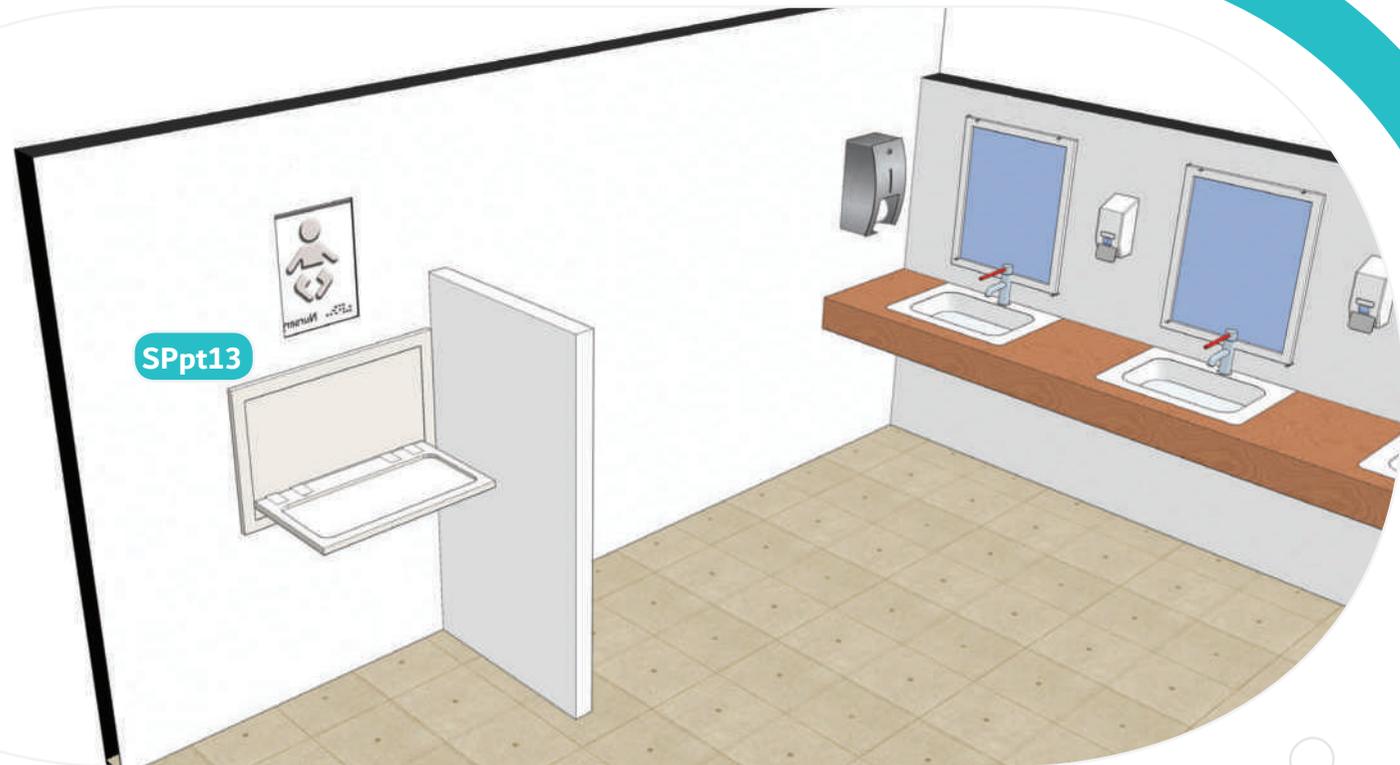


SPpt9 If 2 or more urinals, 1 with usable height at 300mm and with grab bars

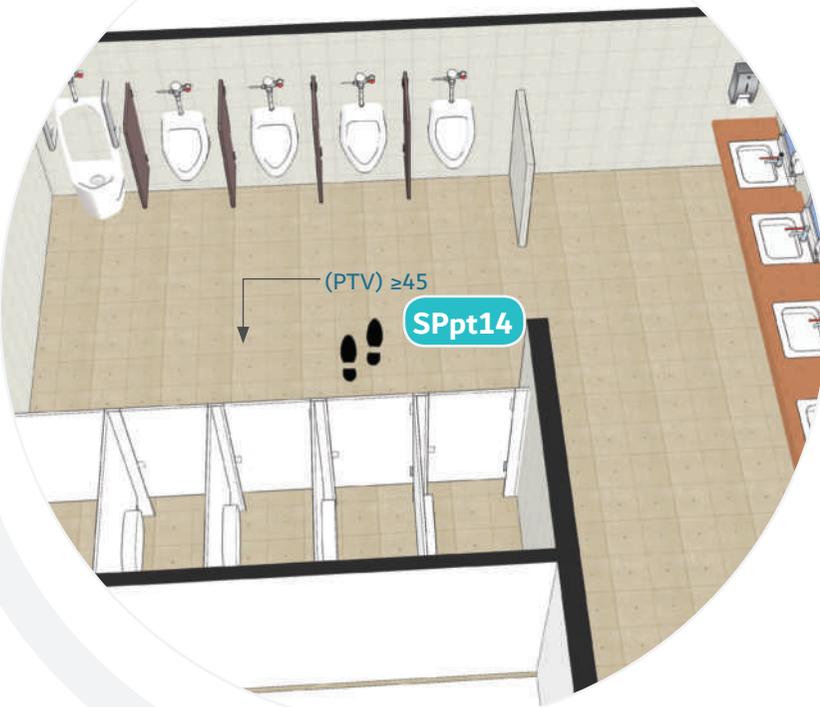
SPpt10 Flushing systems are operated by pressing or with a flush handle with large surface and operable with one hand or elbow

SPpt11 Distance between the grab bars is 500mm

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

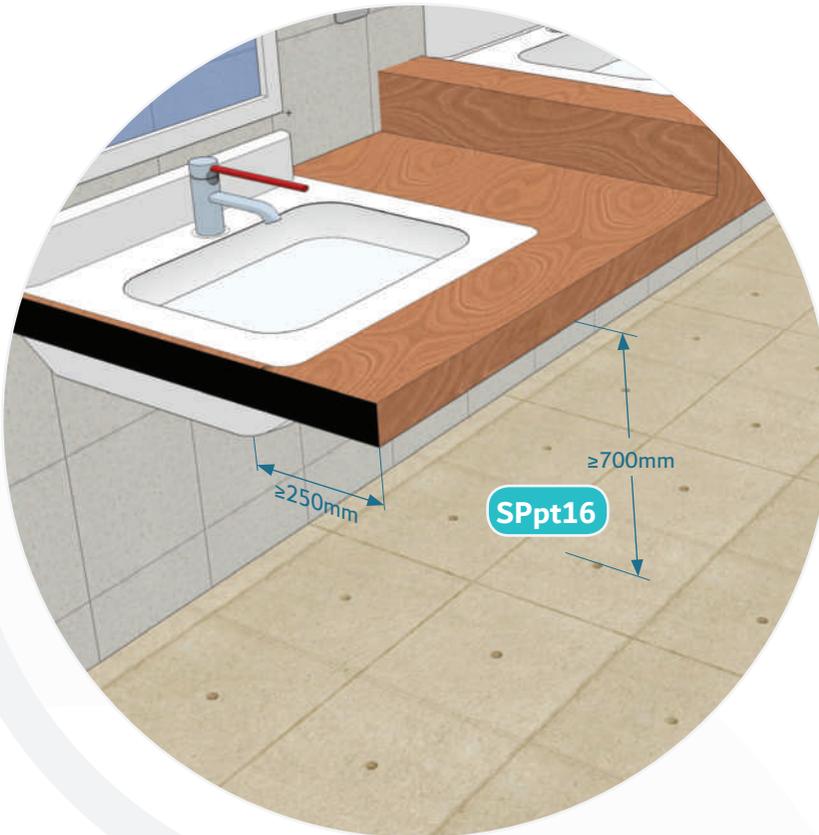


SPpt13 In each toilet block a baby changing board is provided



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

SPpt15 With wash basins in a row, 1 is accessible



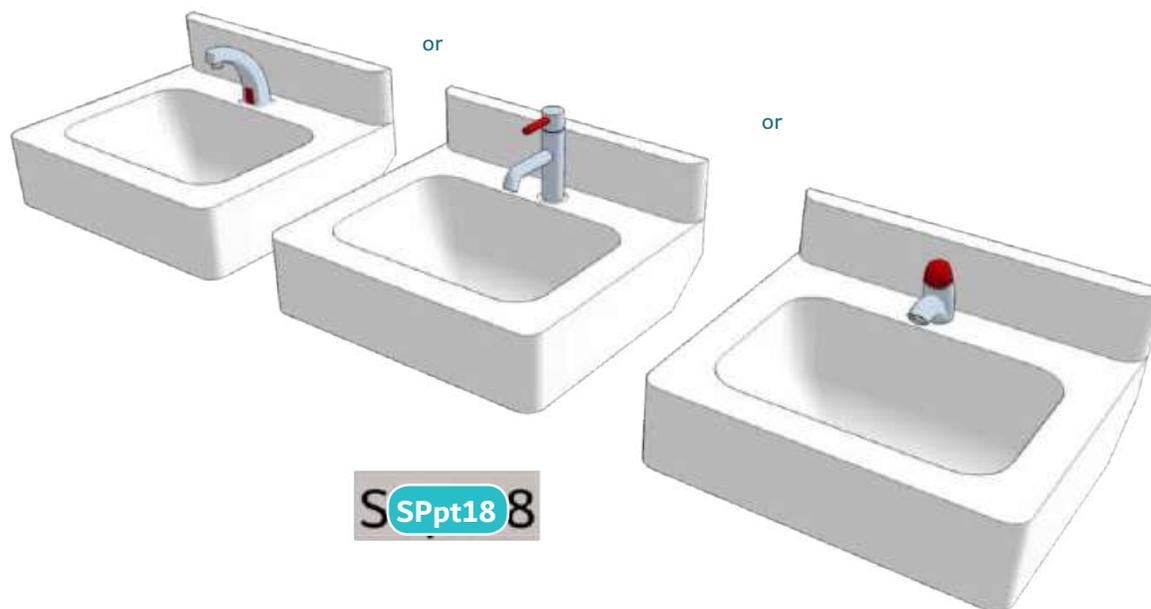
SPpt16



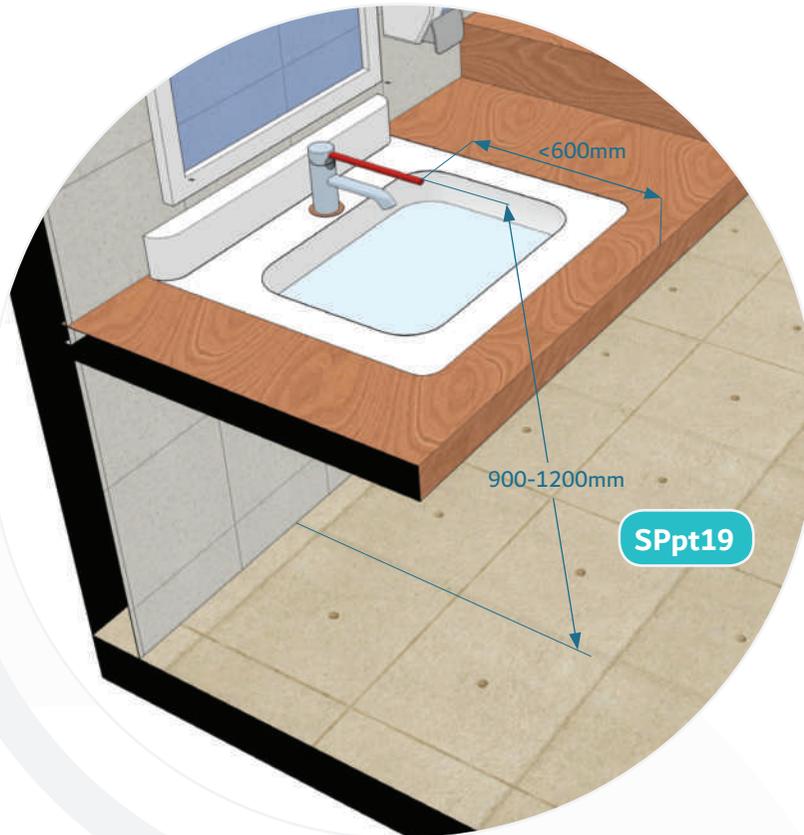
SPpt17

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

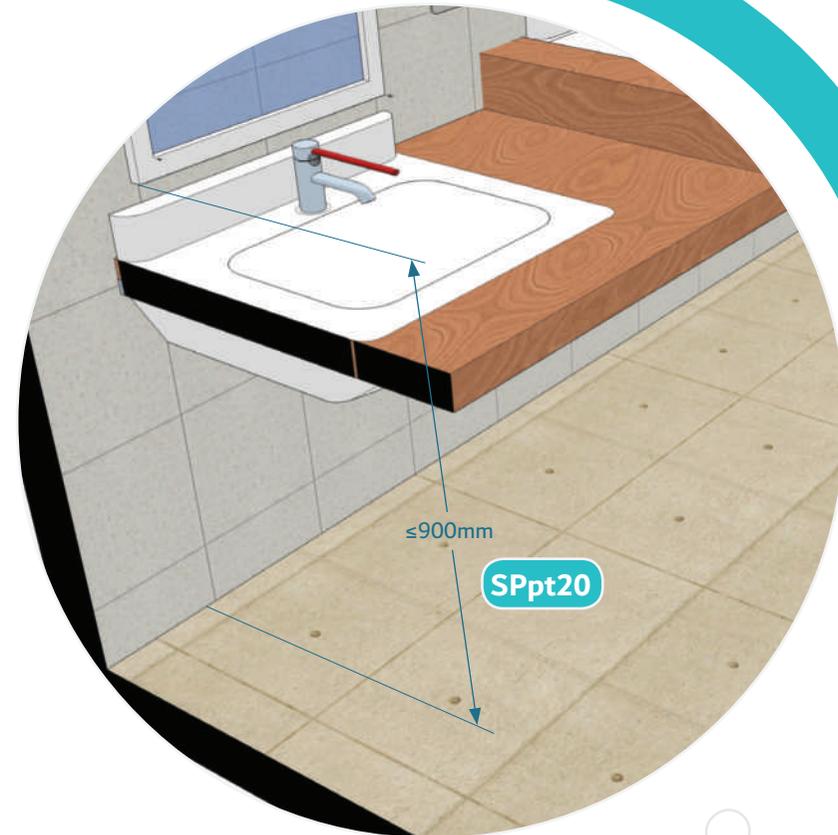
SPpt17 Usable wash basin surface top height between 800 - 850mm

**SPpt18**

Faucets (water tap) operated by pressing button or a lever handle or with a sensor (Not turning valve)



SPpt19



SPpt20

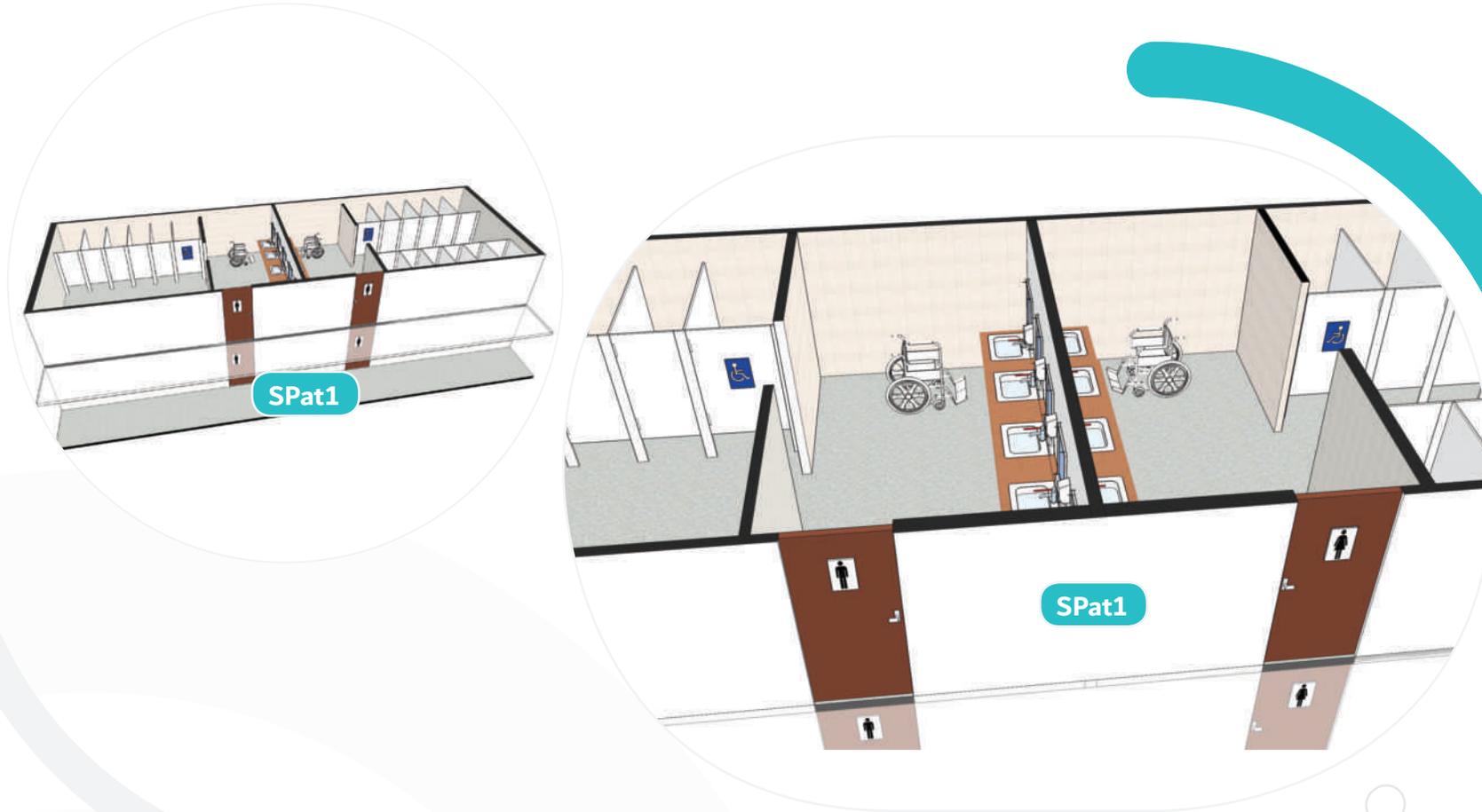
SPpt19 Distance to the faucet (water tap) shall be less than 600mm and vertical between 900mm and 1200mm.

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

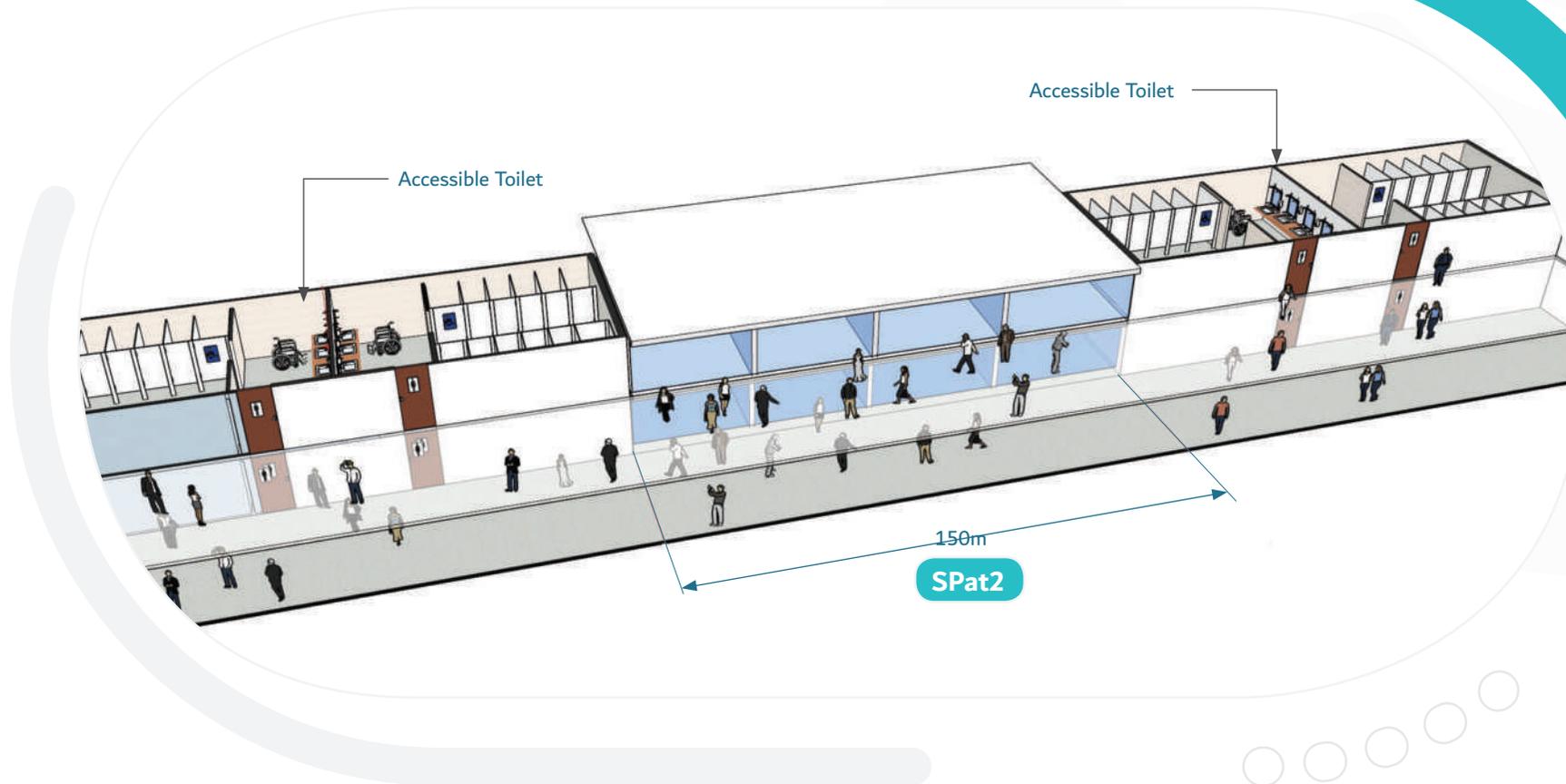


SPpt21 Controls and accessories height (soap dispenser, dryer) mounted at height 700 - 1200mm

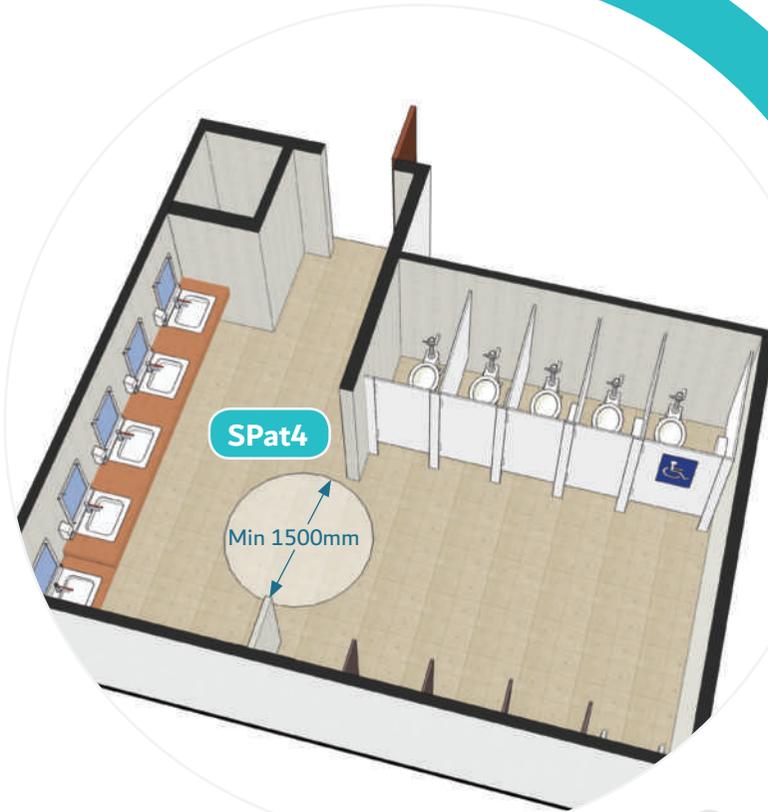
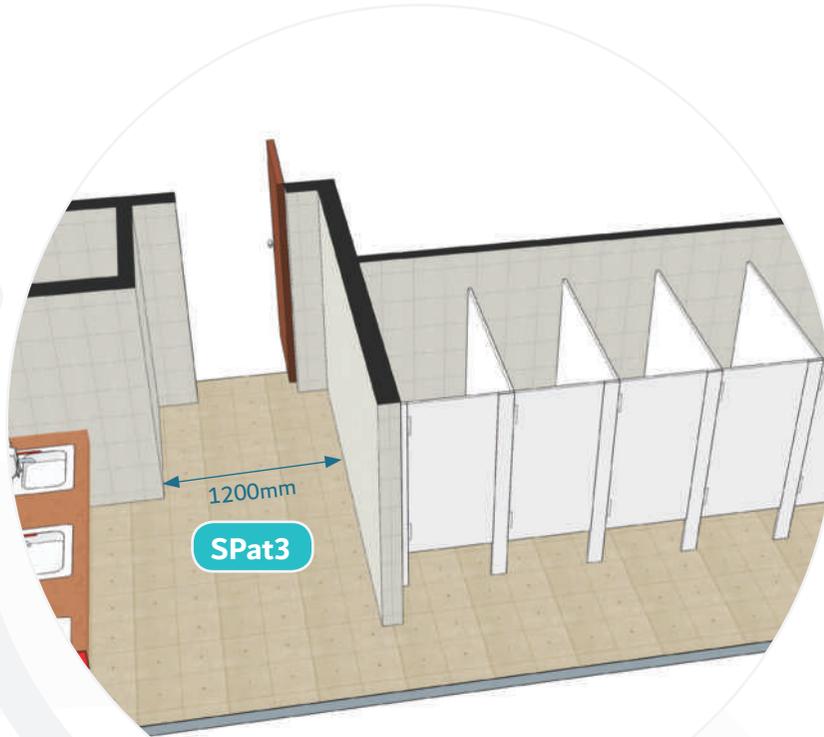
SPpt22 Advisory signs indicating safety procedures and other regulatory information

**SPat1**

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

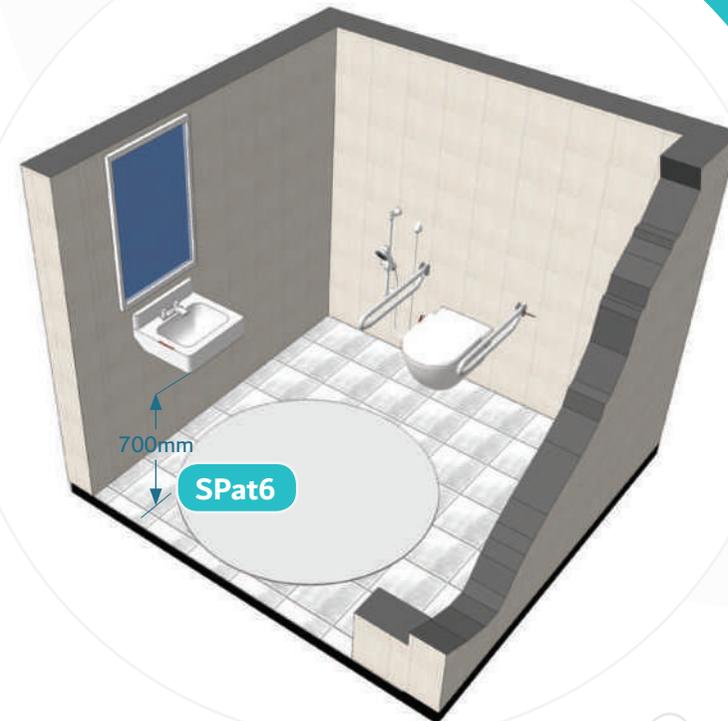
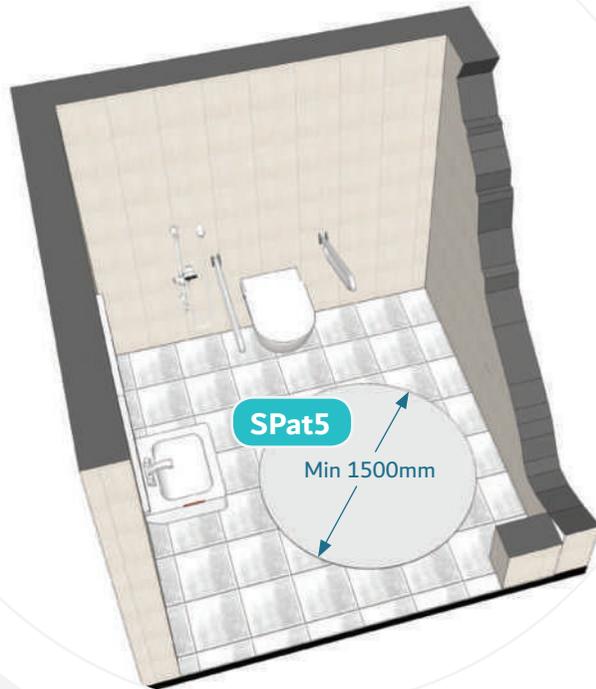


SPat2 One accessible toilet within a 150m distance from any part of the building



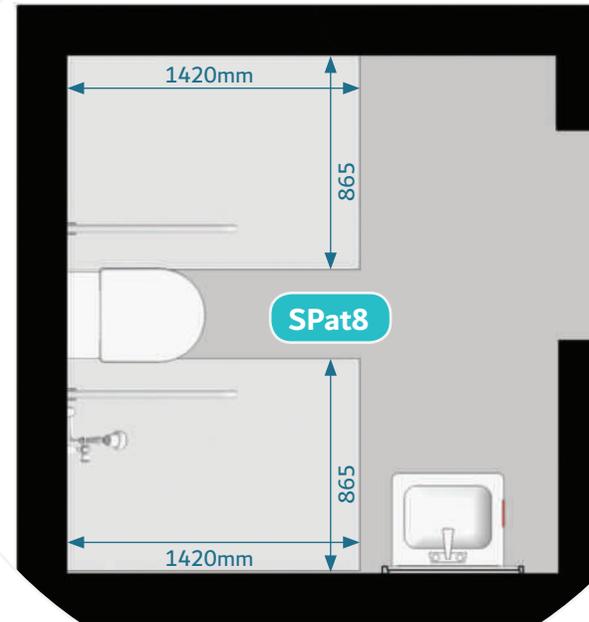
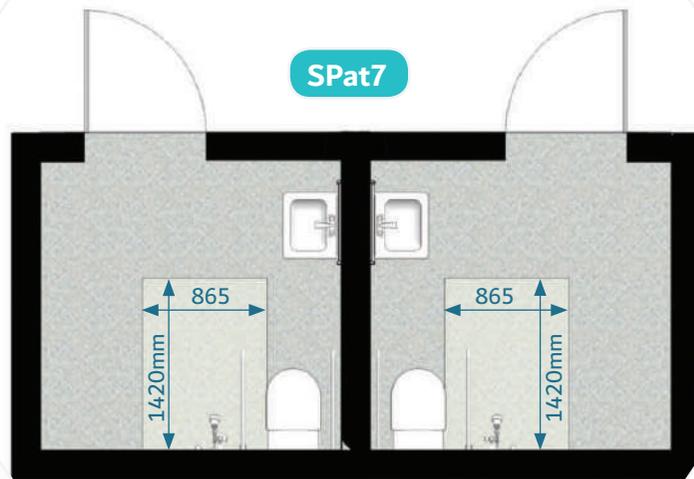
SPat3 Corridors width in toilets, showers, lockers spaces of 1200mm

SPat4 Maneuvering turning space diameter of 1500mm in circulations



SPat5 Maneuvering space diameter of 1500mm inside the toilet

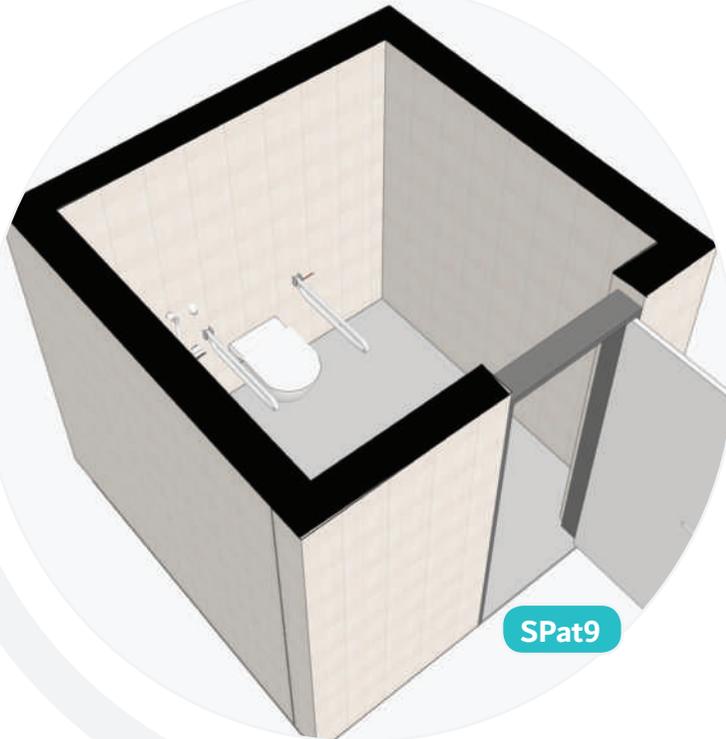
SPat6 Maneuvering space height between 0 to 700mm free of obstacles

**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

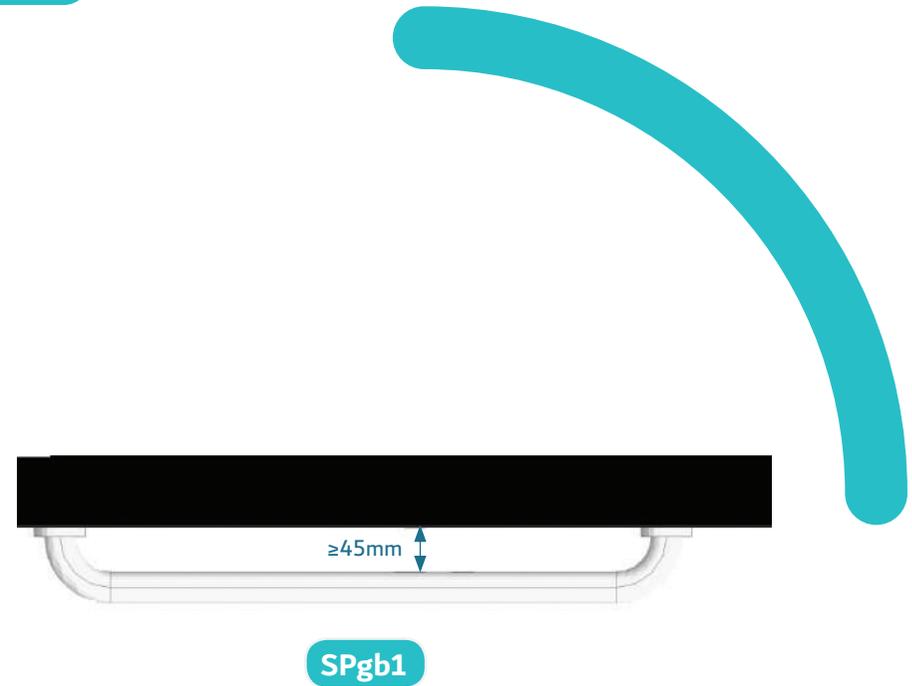
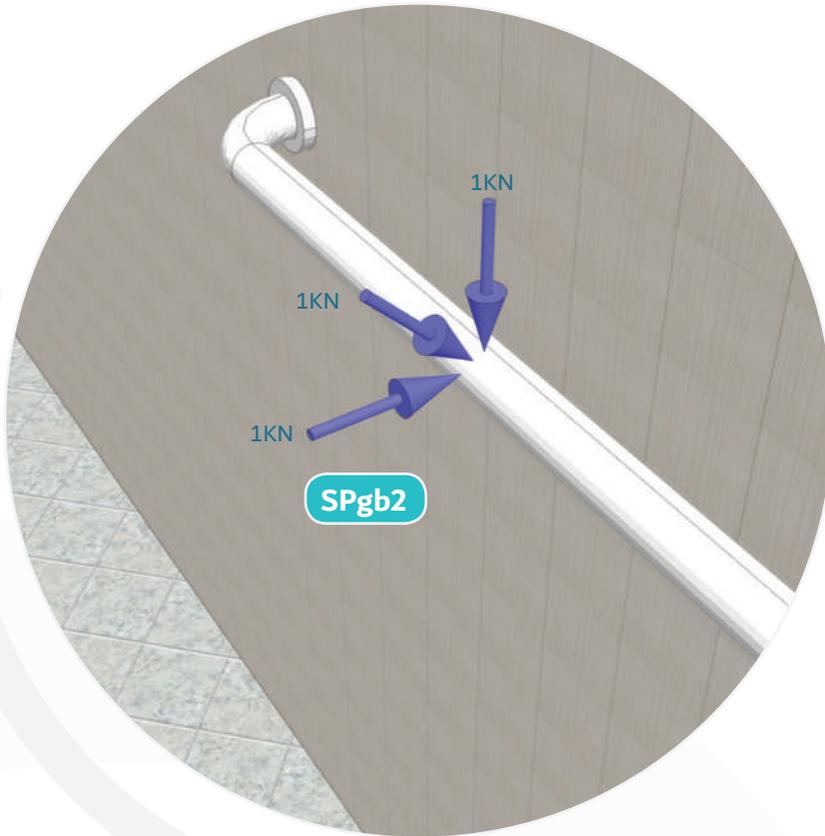


SPat9 Door open outwards or sliding

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

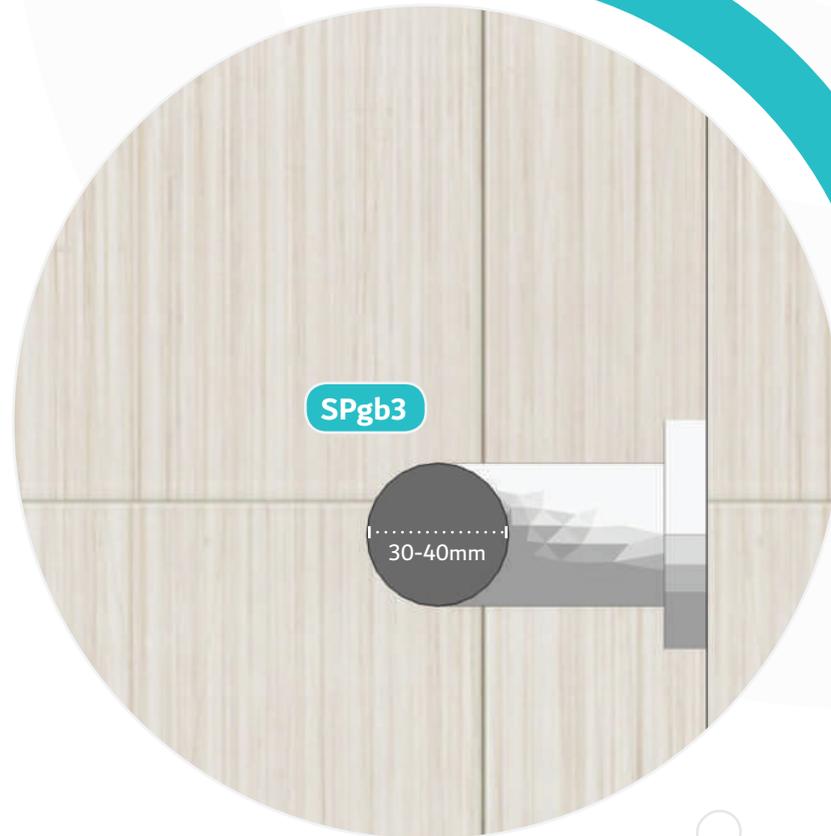
SPat11 Latch operable with the elbow installed between 900 - 1200mm

SPat12 Coat hanger between 1100 - 1200mm



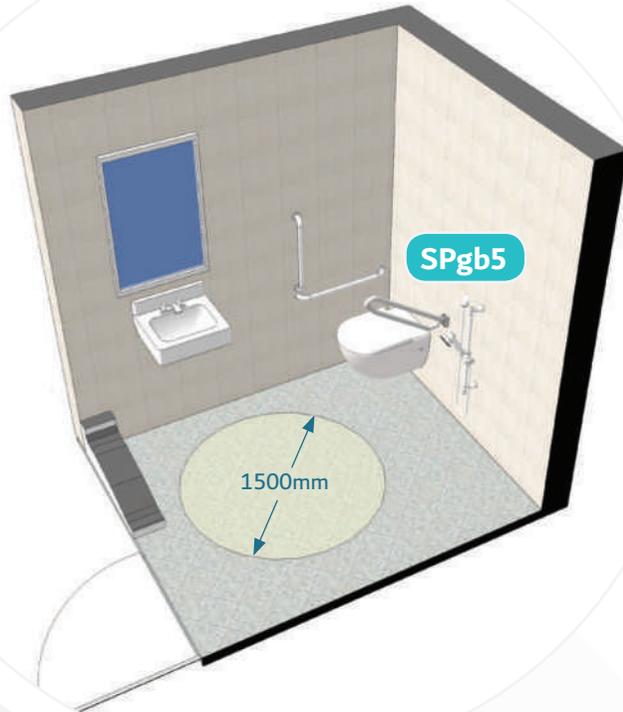
SPgb1 The space between grab bars and the wall $\geq 45\text{mm}$

SPgb2 Withstand a force of 1 kN in any direction



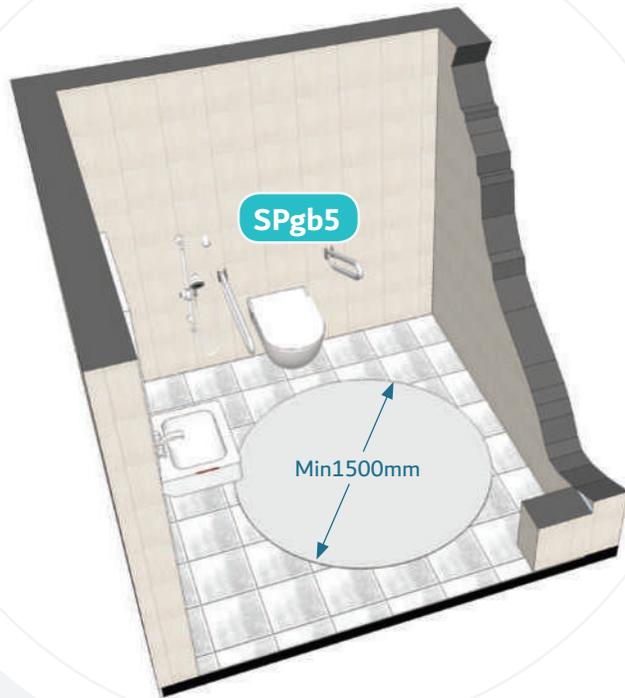
SPgb3 Circular diameter between 30 - 40mm

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



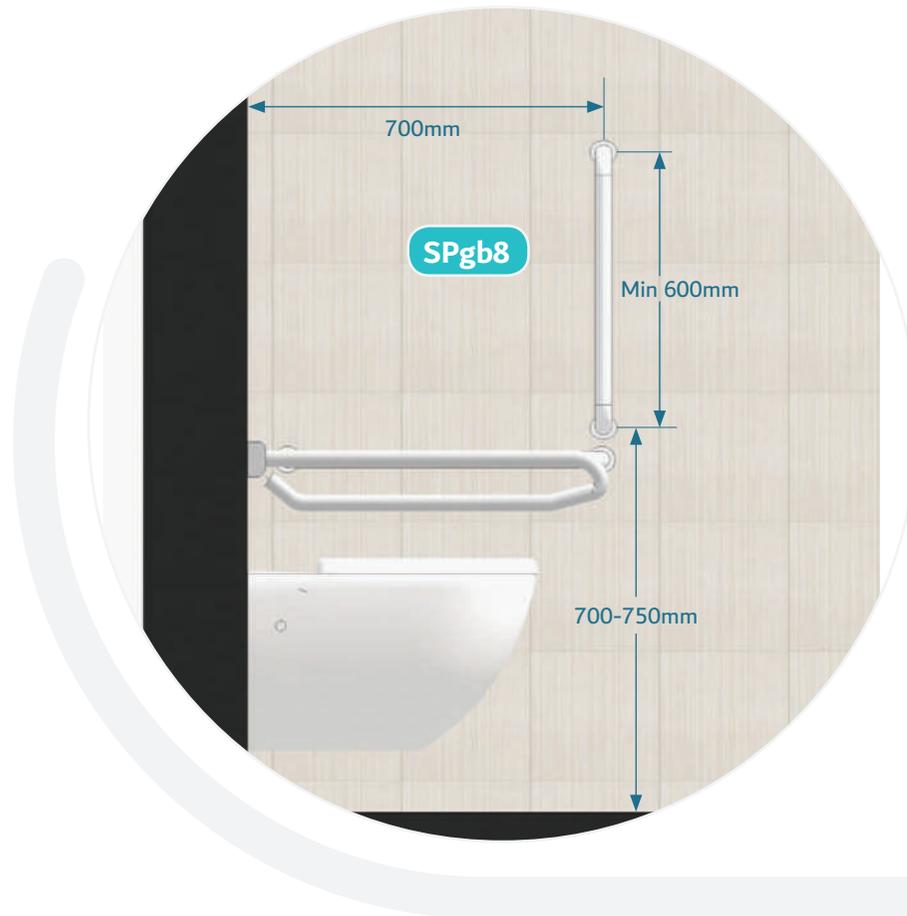
SPgb5 Bars mounted in the transfer space must be foldable

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



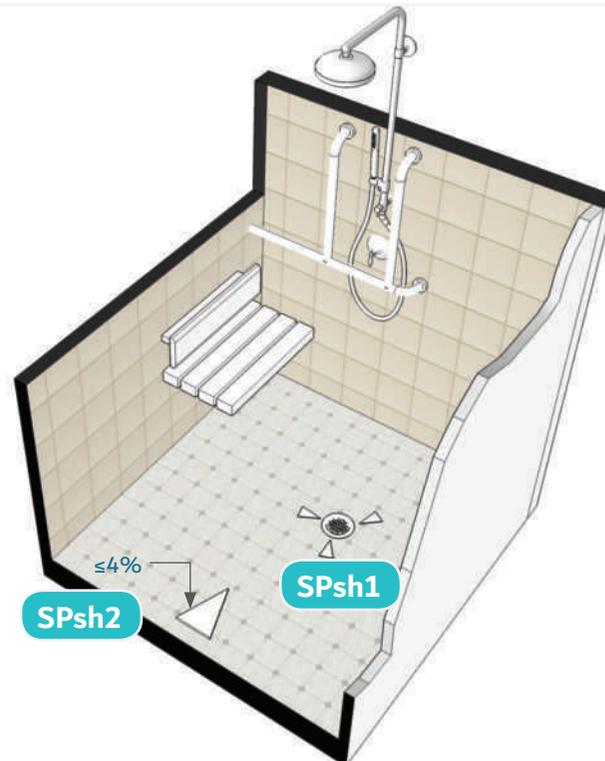
SPgb7

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



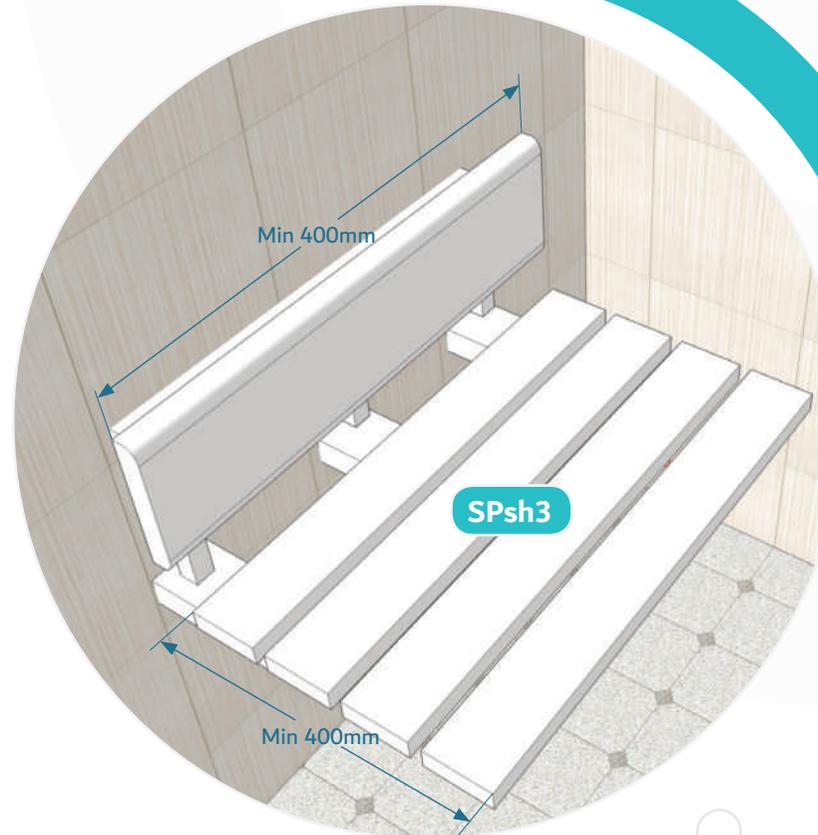
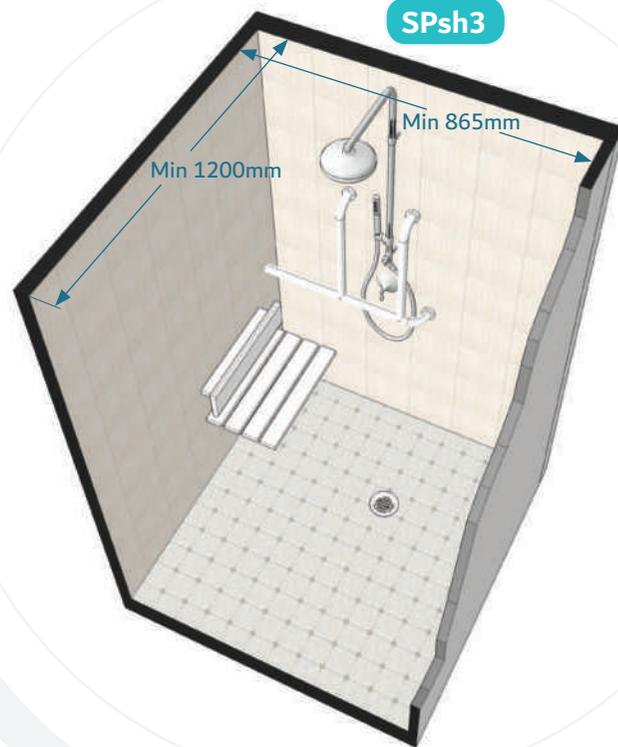
SPgb8 600mm vertical bar mounted 700 - 750mm from ground away 700mm from the wall

SPgb9 Toilet height between 450 - 500 mm



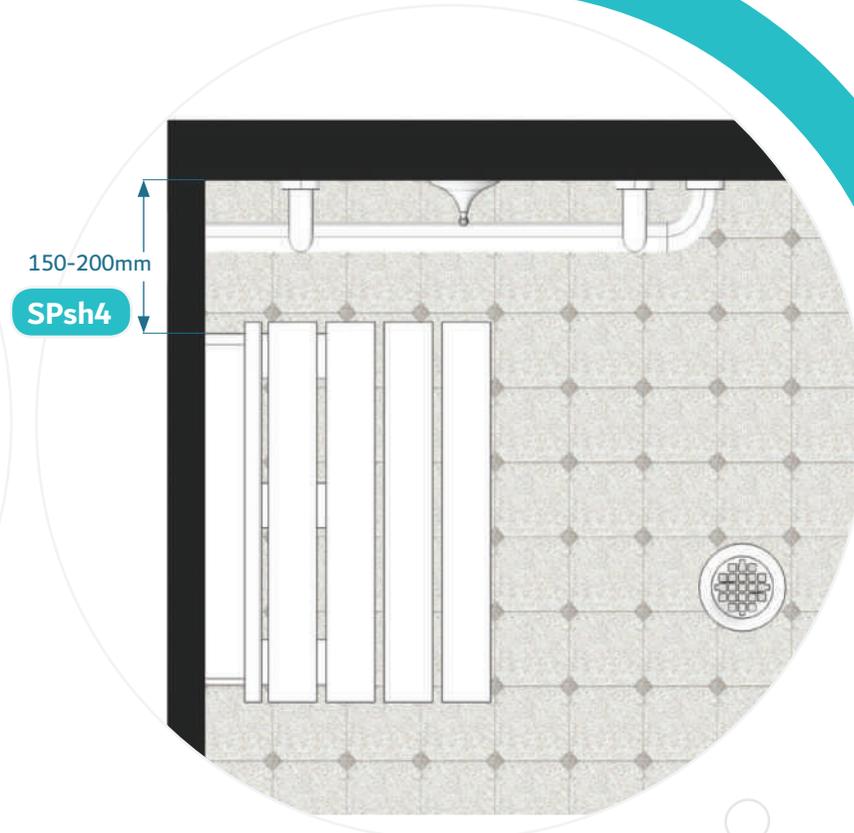
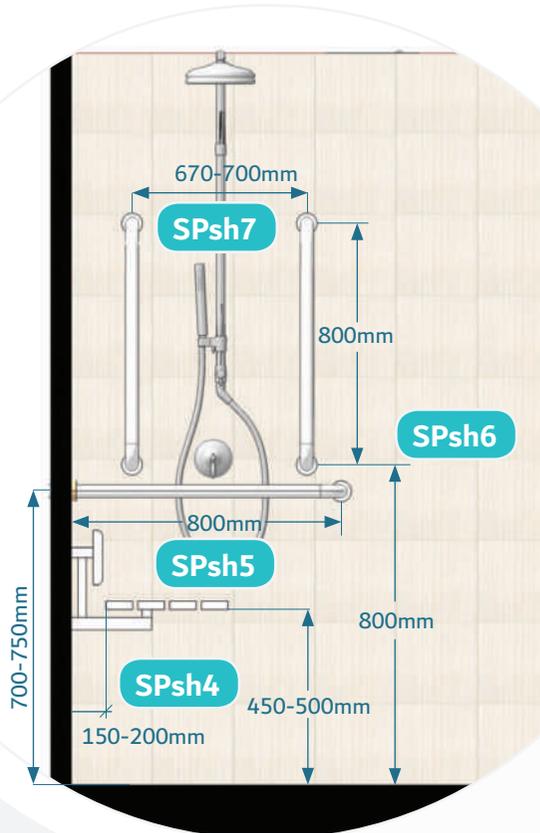
SPsh1 Shower floor surface at same floor level with surrounding area

SPsh2 Drain water slope $\leq 4\%$

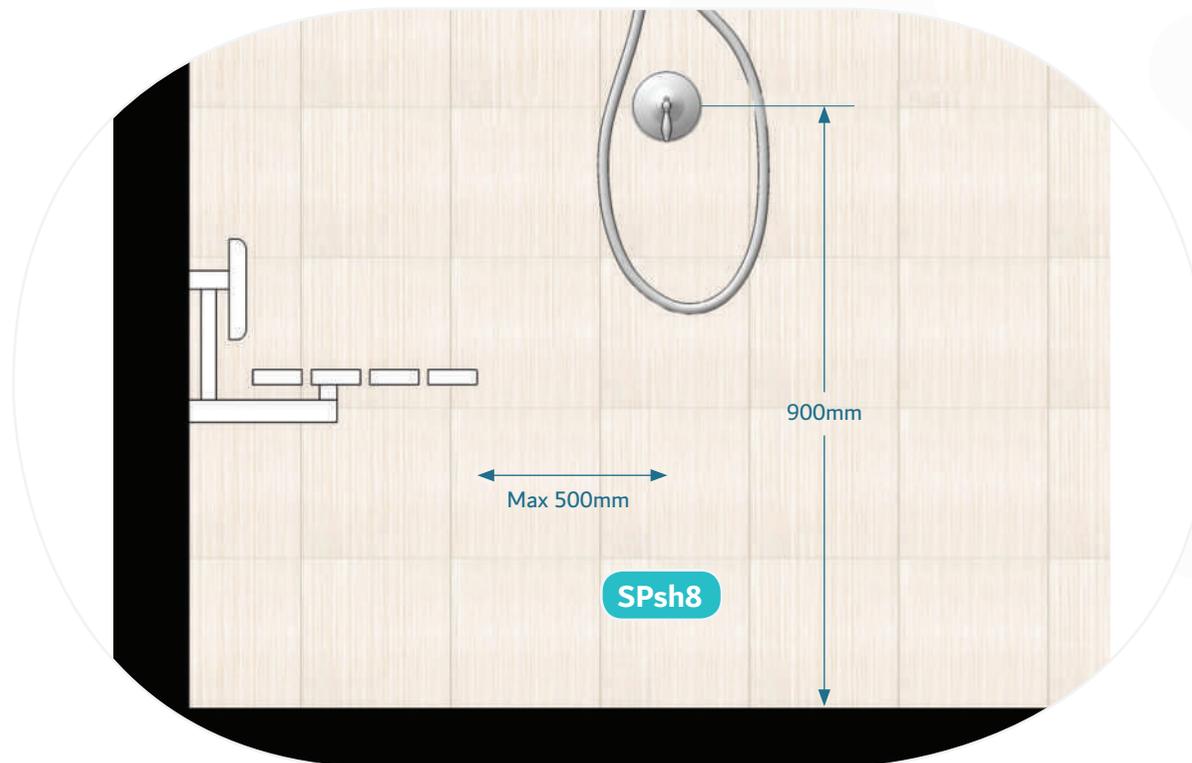


SPsh3

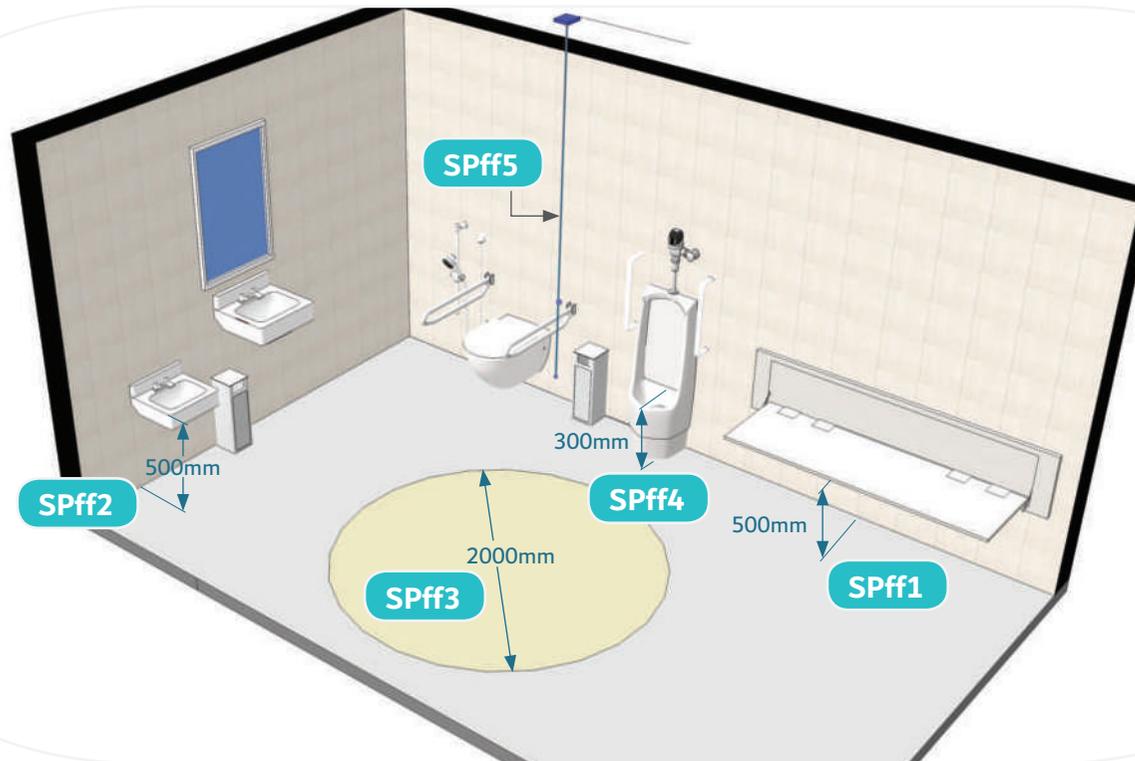
Dimensions of showers area at least 865 x 1200mm and a seat of at least 400 x 400mm



- 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

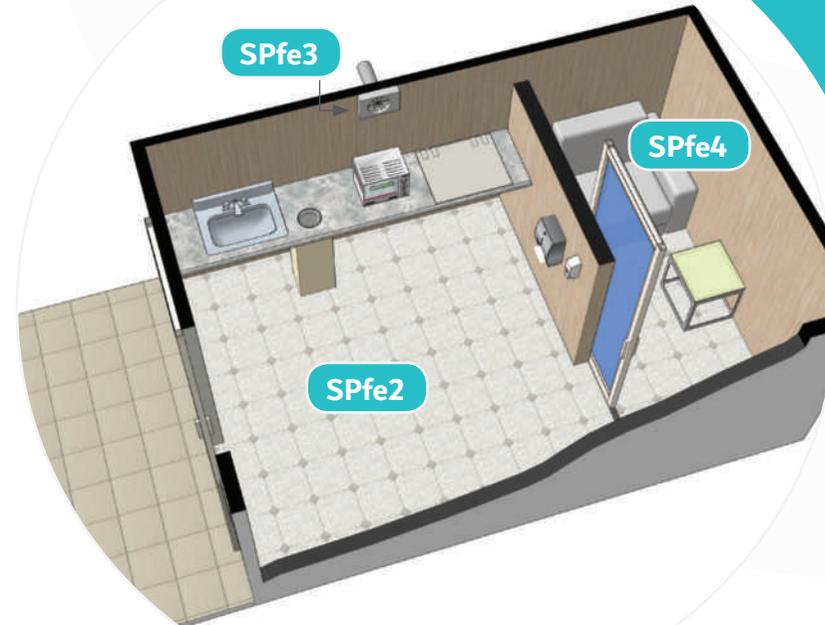
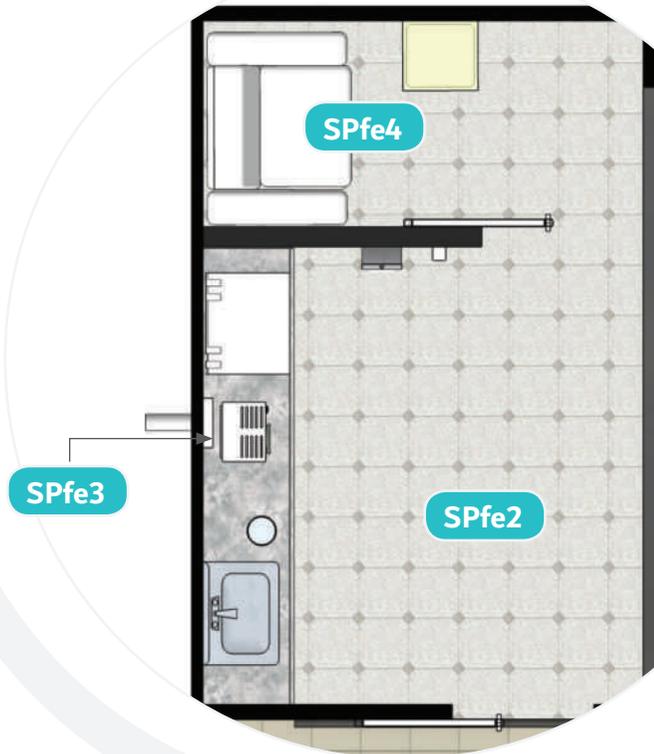
SPff4

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

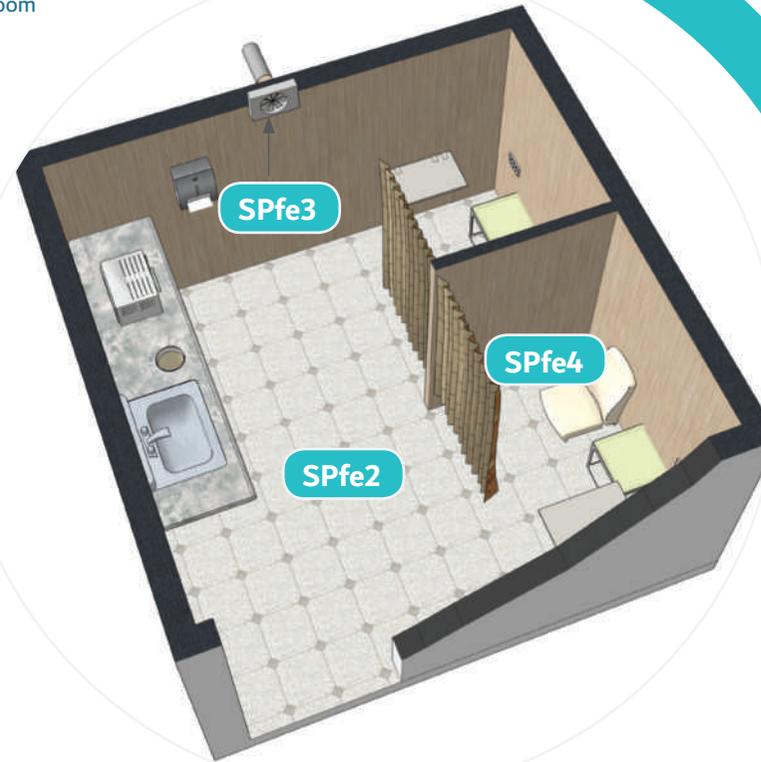
SPfe4

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

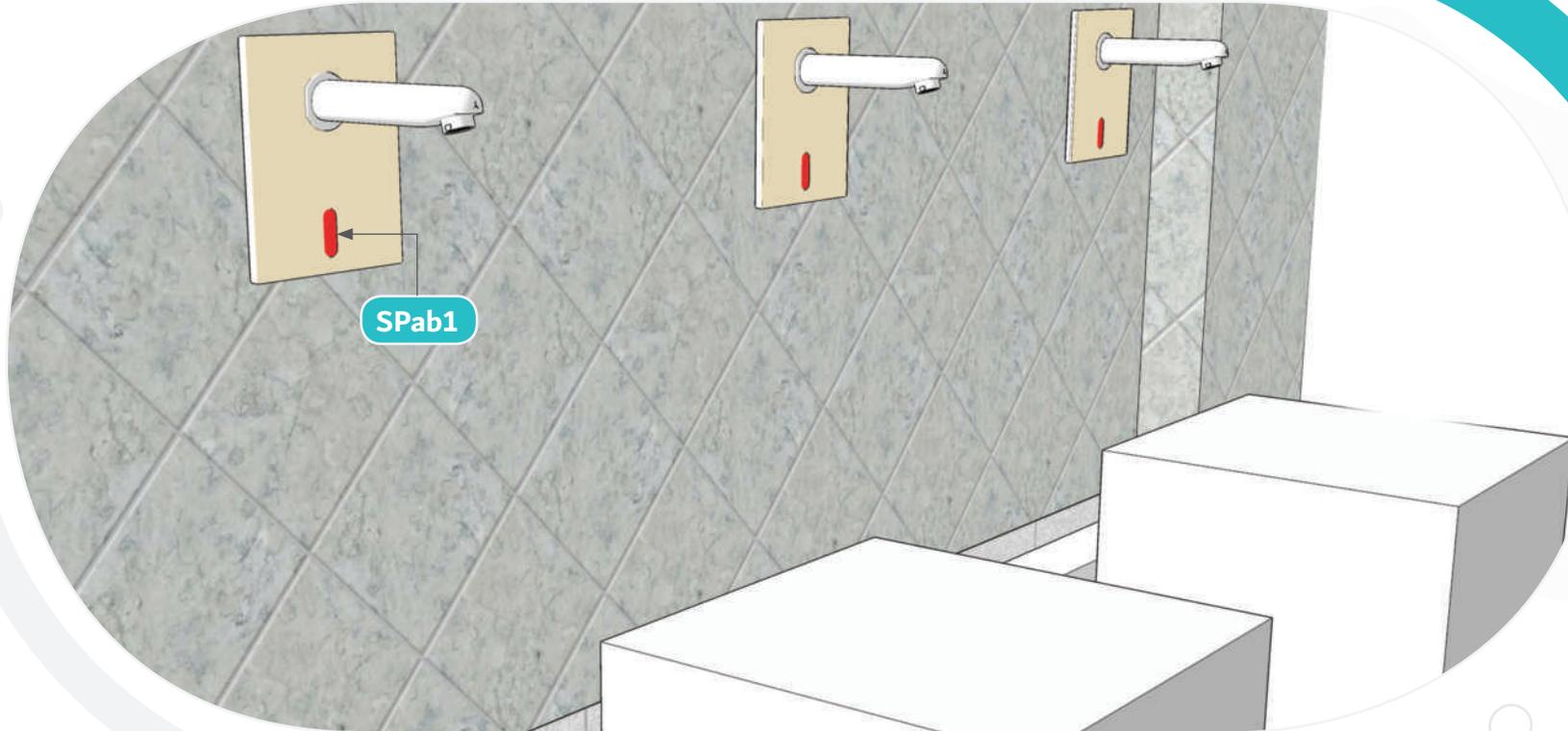
SPfe4

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

SPfe2

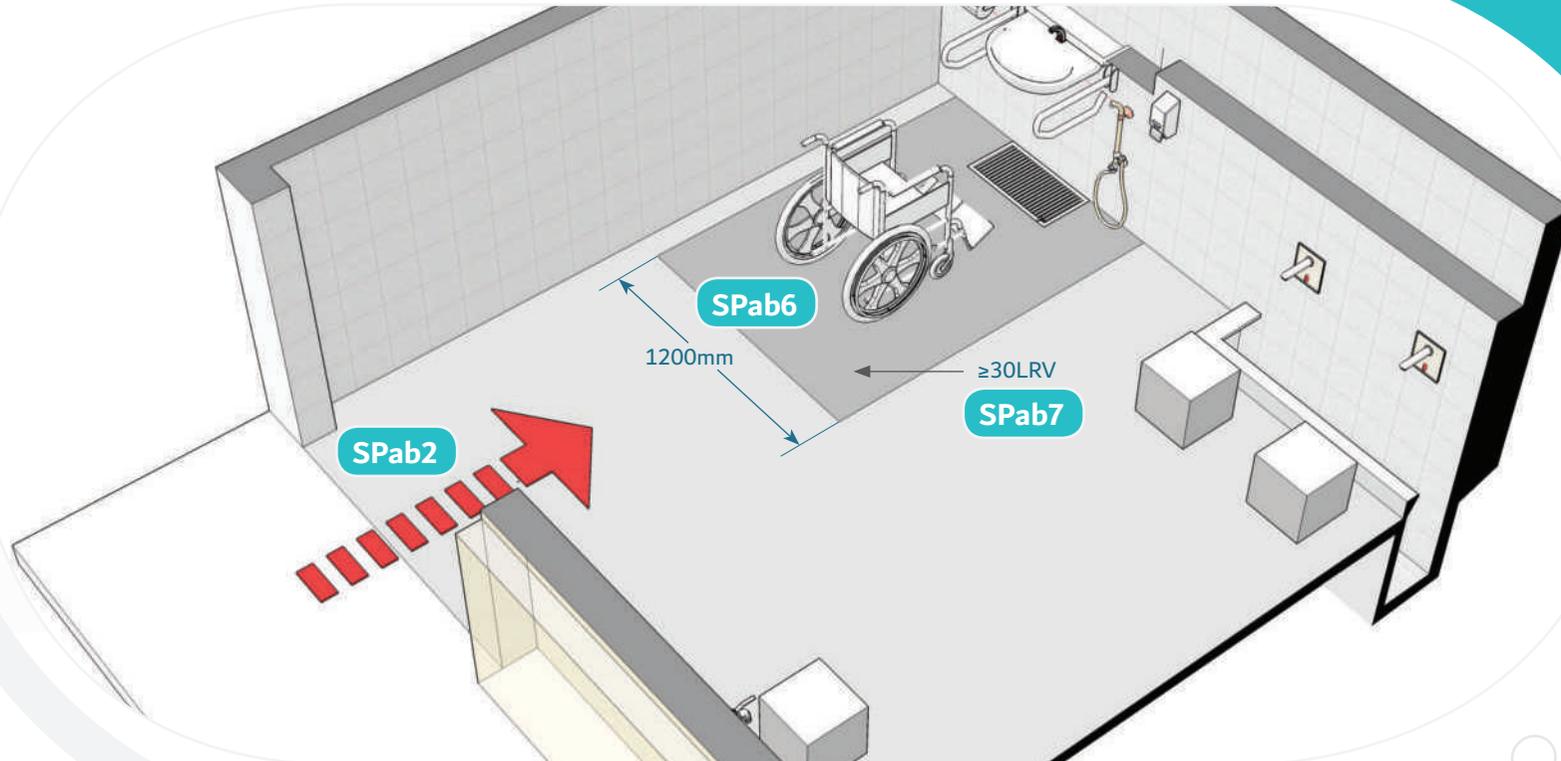
Surface:

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



SPab1

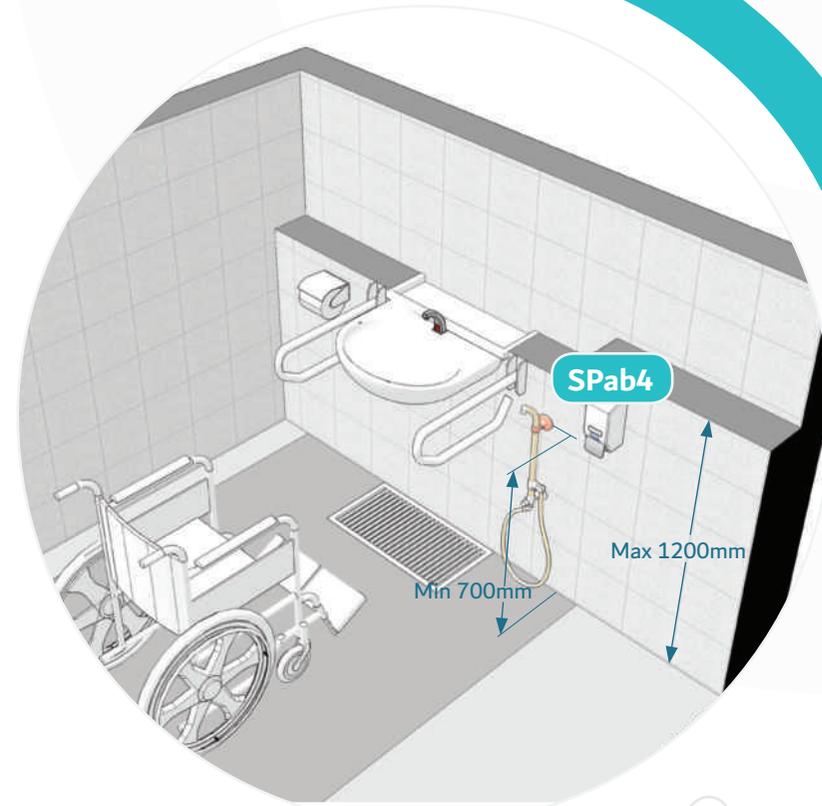
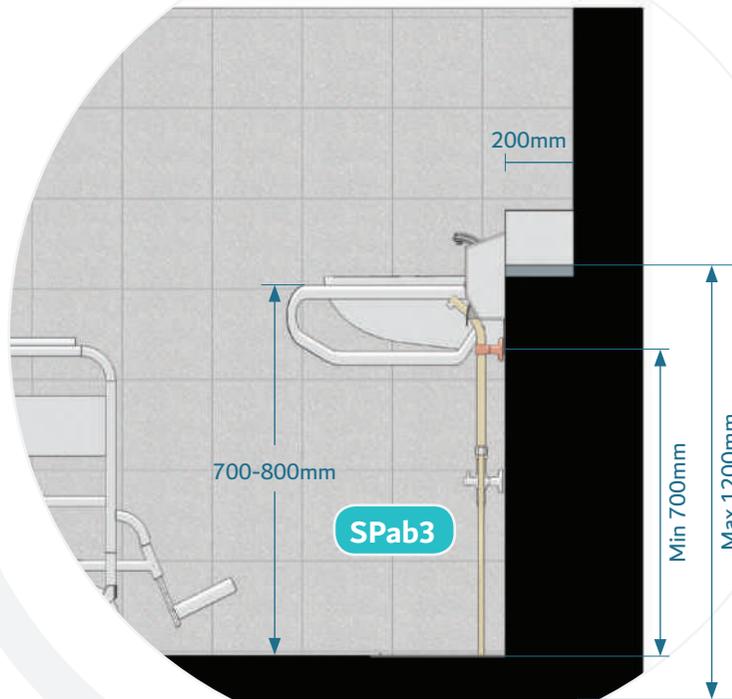
Electronic or sensor faucets



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

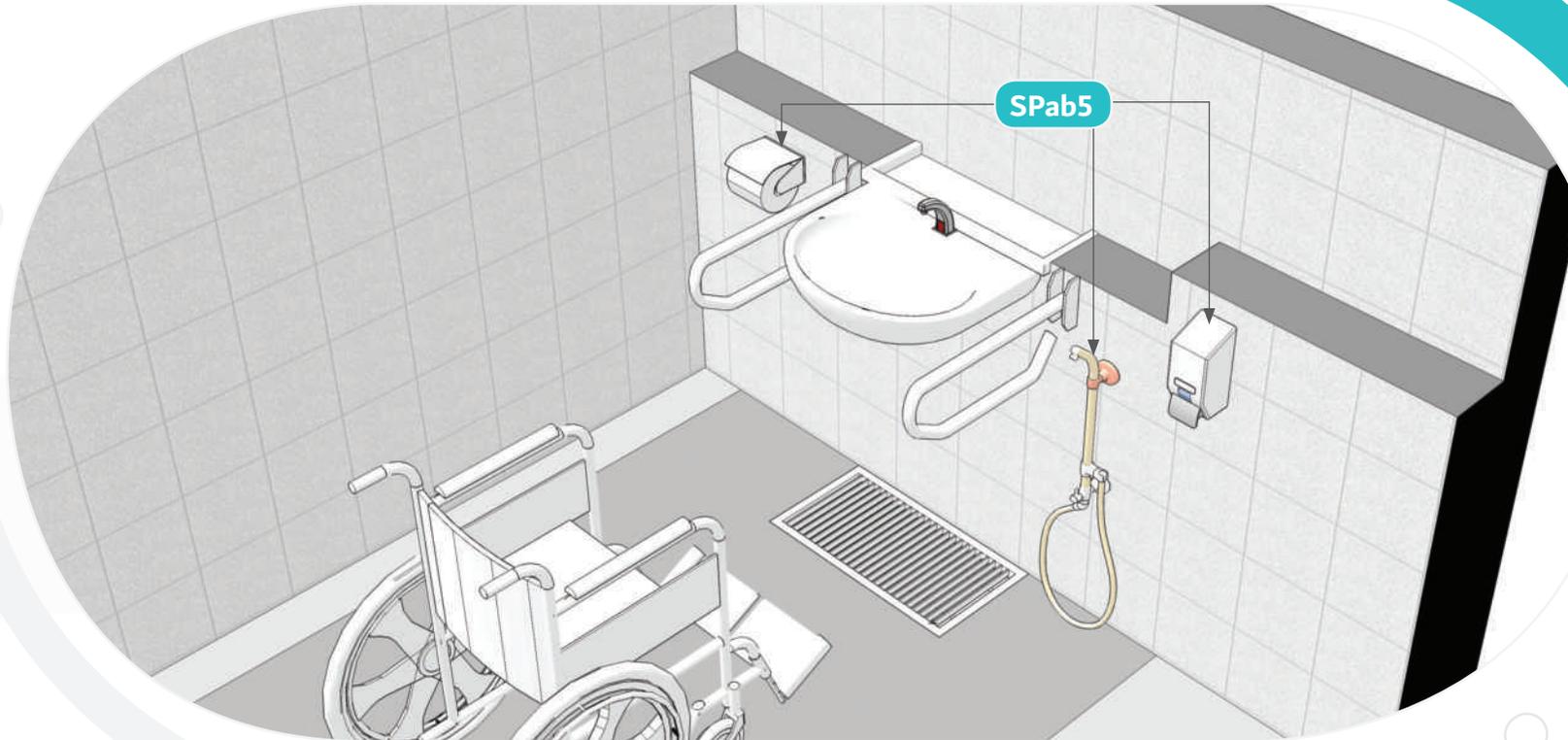
SPab6 Approaching free space of 1200mm

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

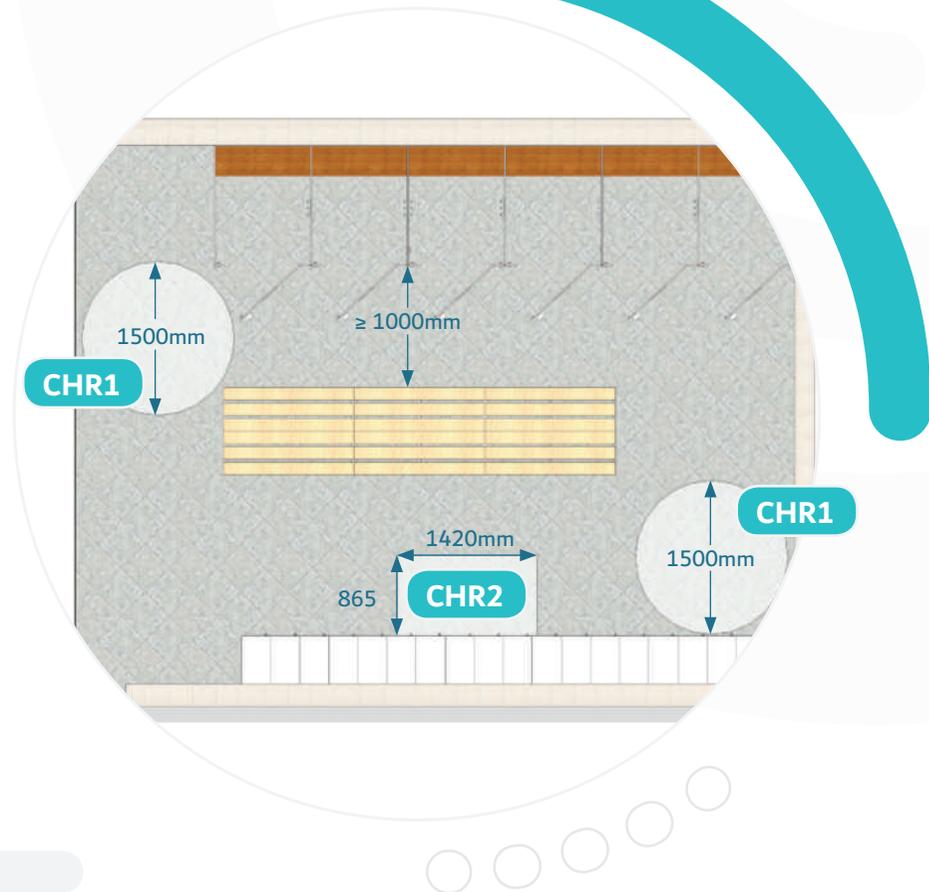
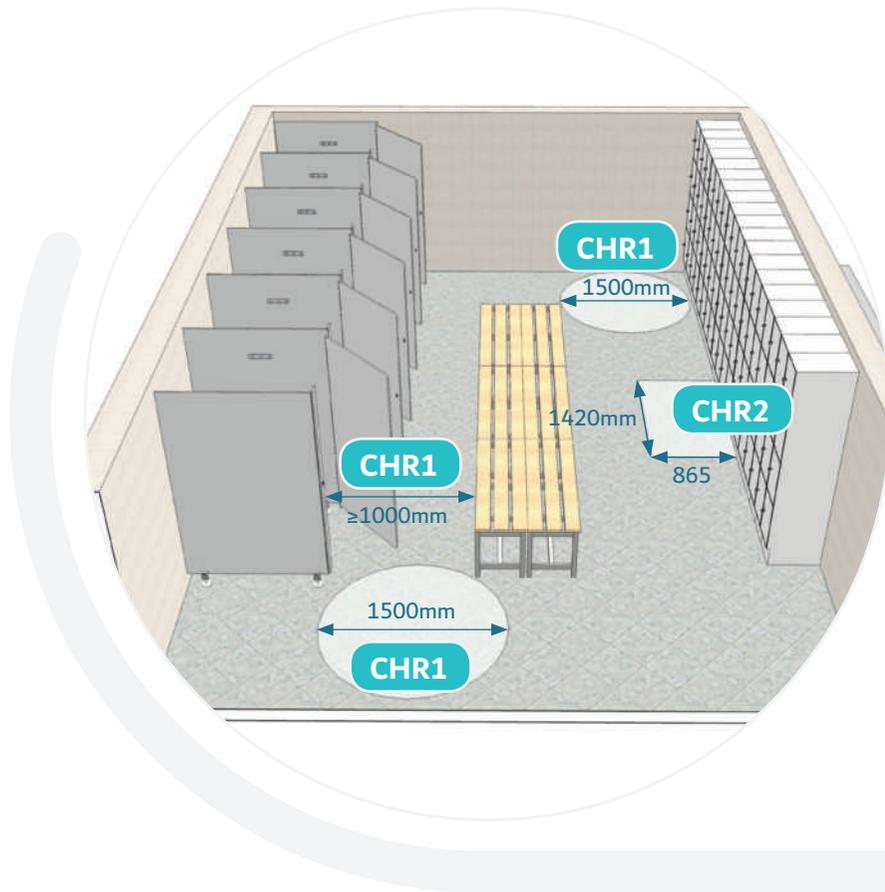
SPab4 All Accessories at a height between 700 - 1200mm



SPab5 Provides bidet shower system, soap and paper

Changing Rooms

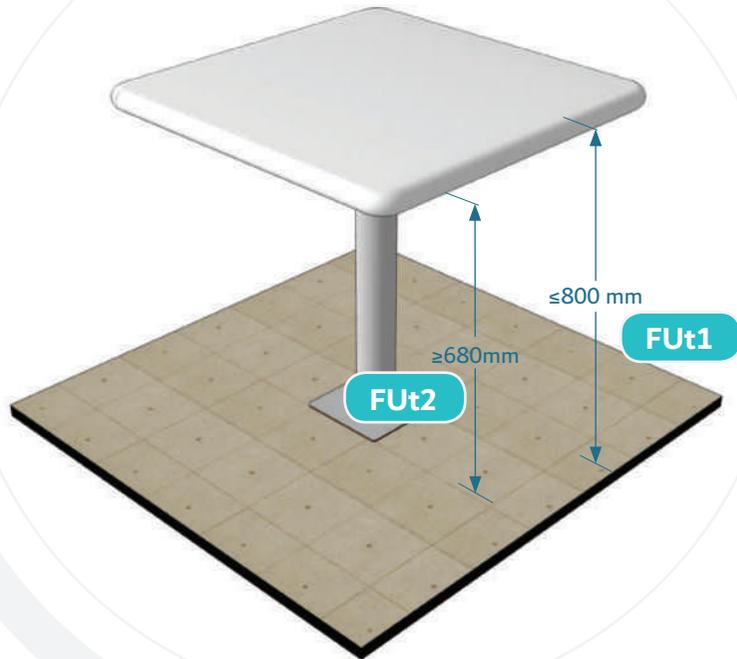




- CHR1** Corridors width $\geq 1000\text{mm}$ and direction changes with manoeuvring turning space of 1500mm
- CHR2** Approaching space for lockers, benches and furniture 1420 x 865mm
- CHR3** 1 of 10 showers is accessible, if provided
- CHR4** 1 of 10 toilet is accessible, if provided

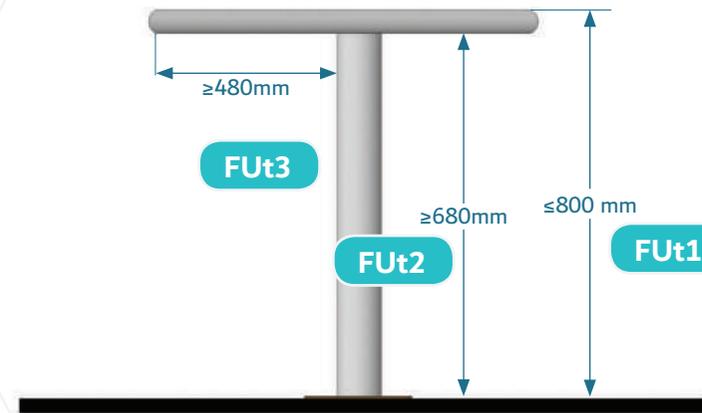
Furniture





FU1 Without sharp edges, protruding

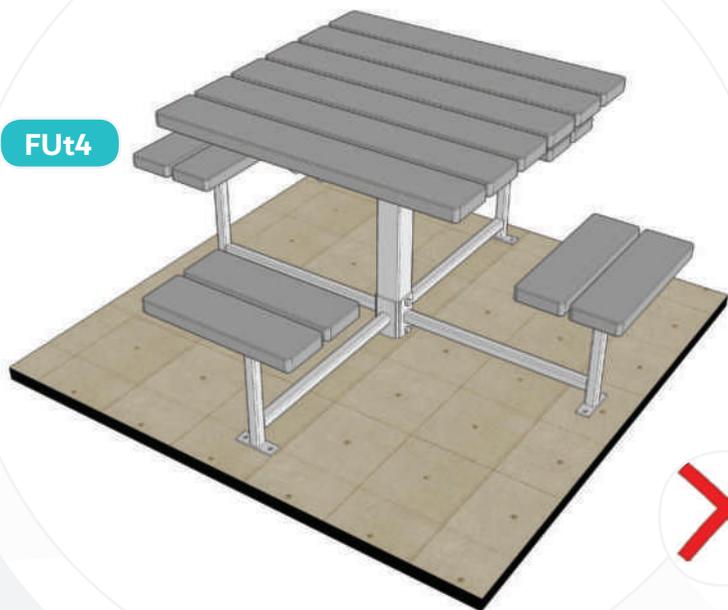
FUt2 Clearance height under the table ≥ 680 mm



FUt1 Height of the top ≤ 800 mm

FUt3 Clearance depth under the table ≥ 480 mm

FUt4

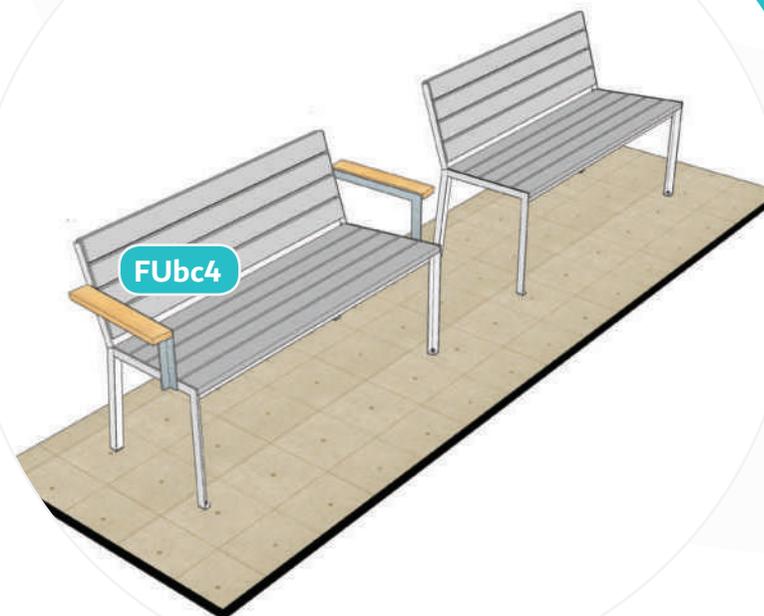
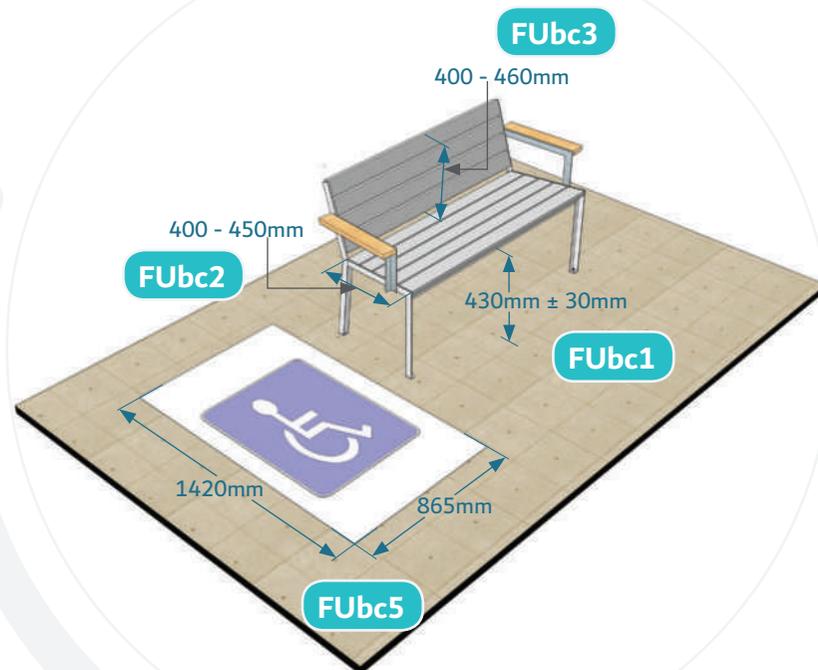


FU1

Without sharp edges, protruding

FUt4

Tables without integrated seats



FU1 Without sharp edges, protruding

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

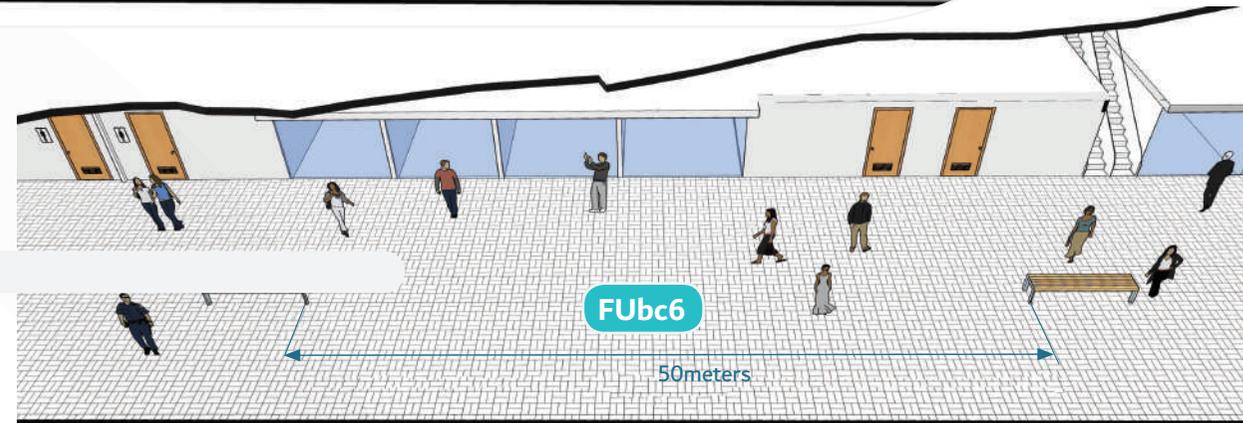
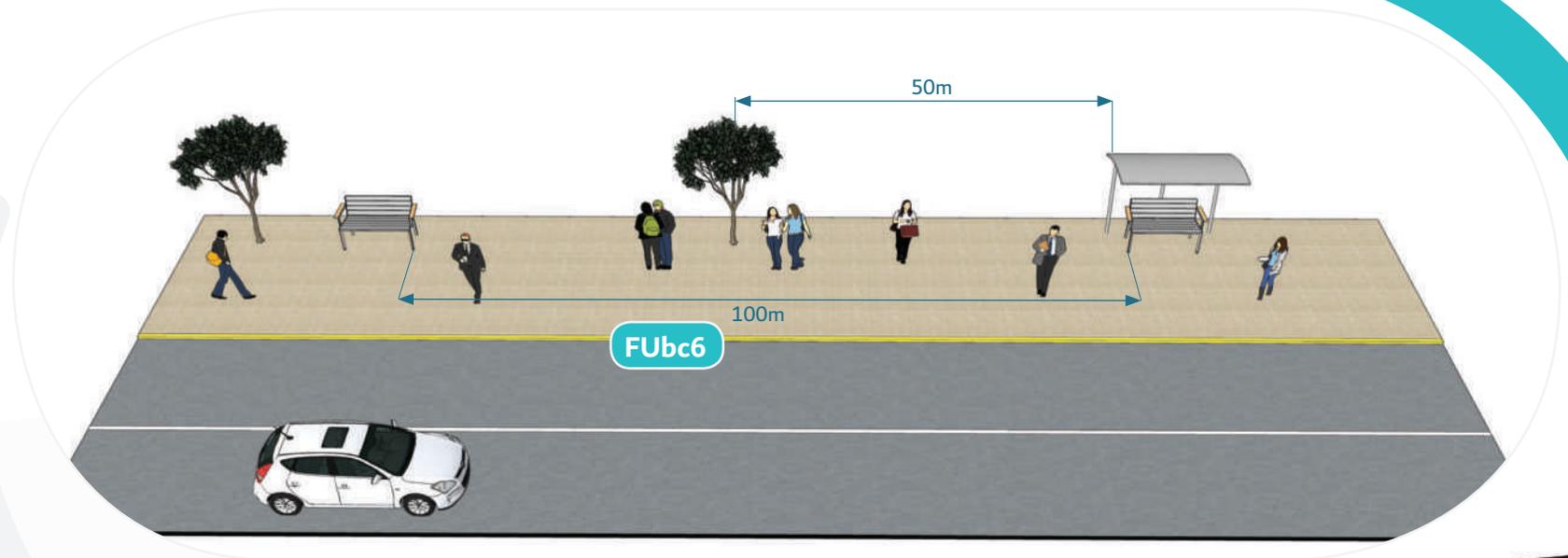
FUbc2 Seat depth between 400 - 450mm

FUbc3 With backrest height between 400 - 460mm

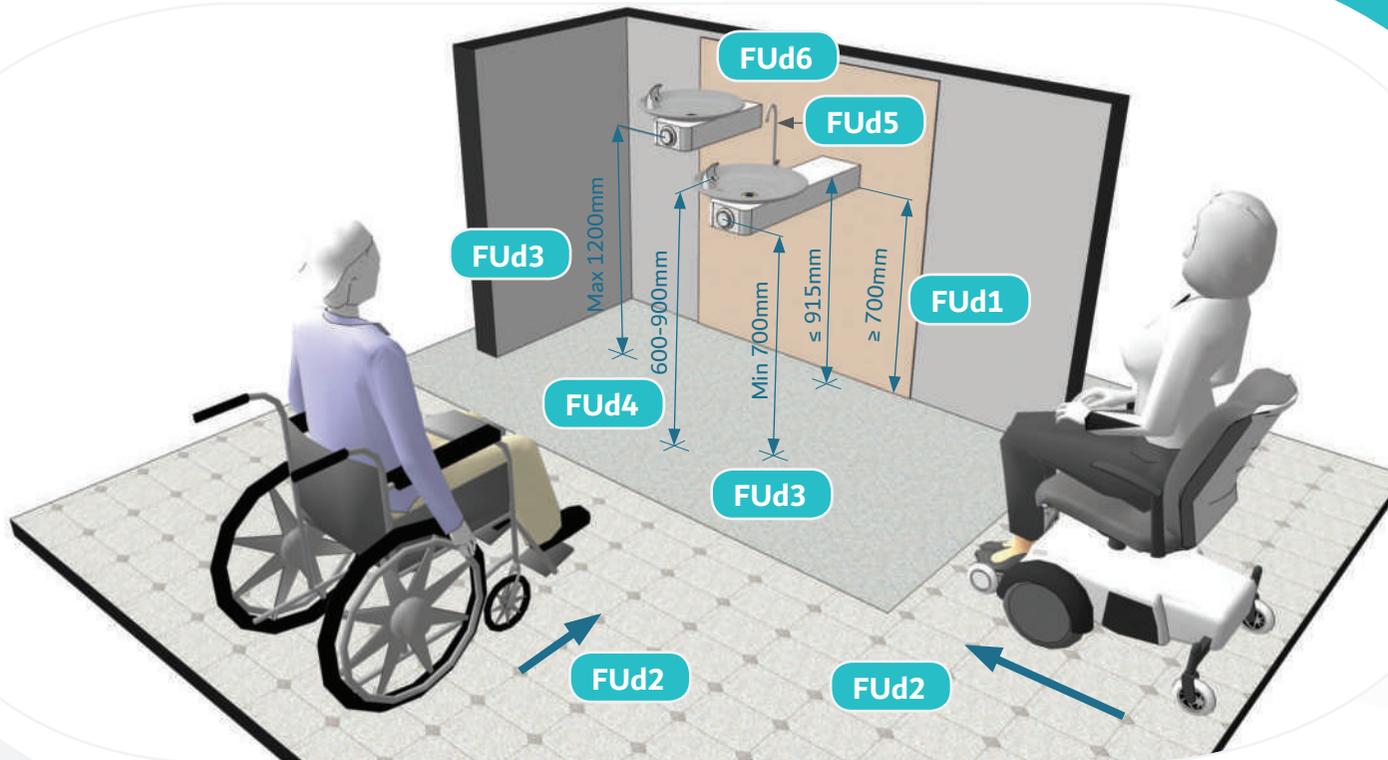
FUbc4 Some seats with armrests

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

FUbc Furniture - Benches and Chairs



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

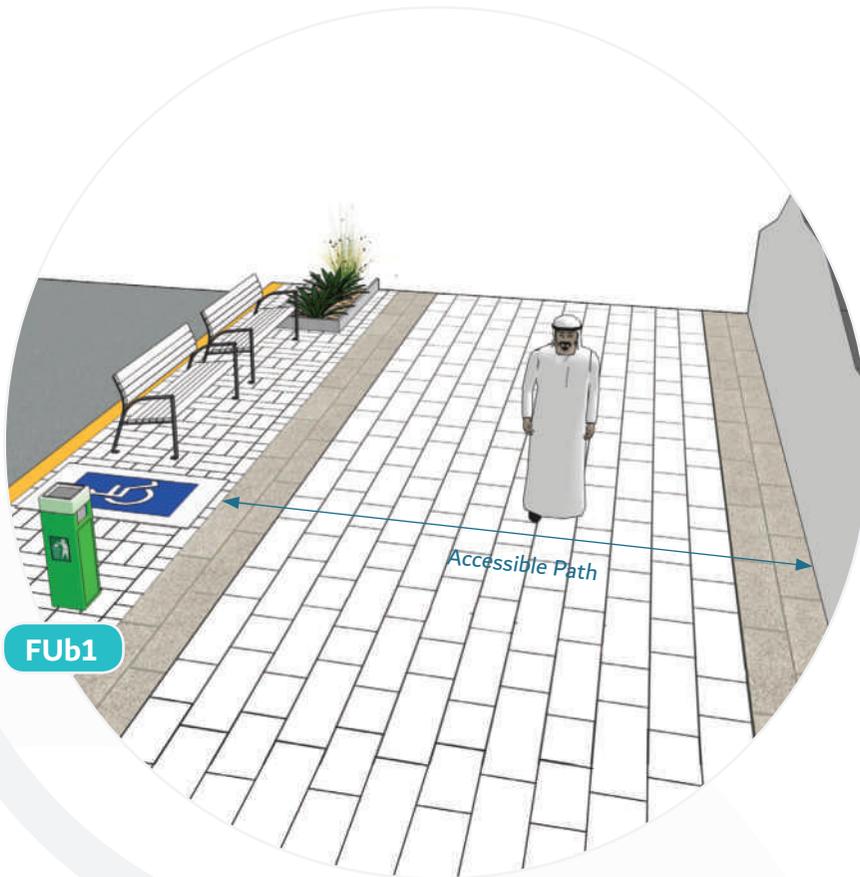
FUd2 Comfortable frontal and lateral approach

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

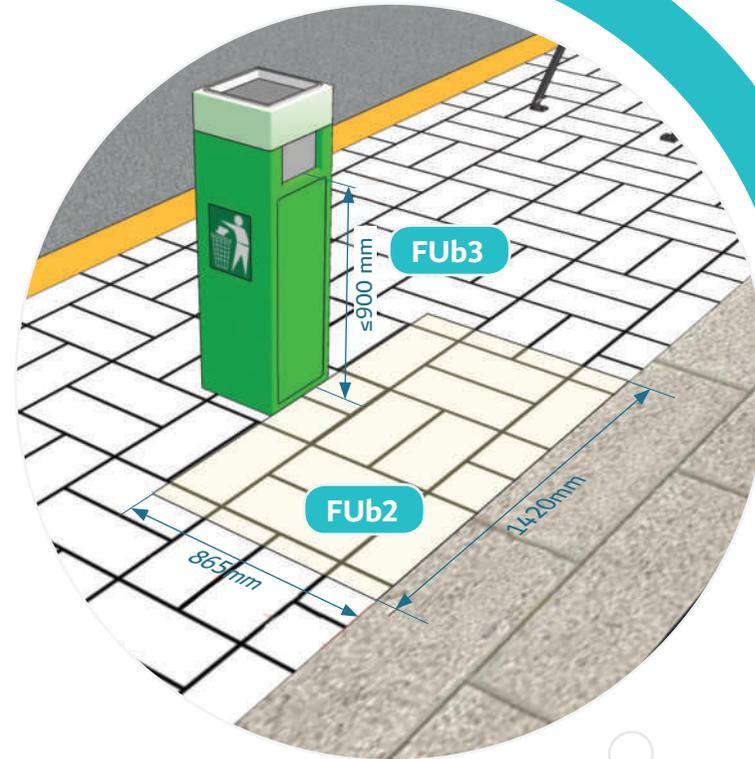
FUd4 Water supply between 600 - 900mm height

FUd5 With bottle filler

FUd6 Clearly visible with contrasting background



FUb1



FUb3

FUb2

FUb1 Not located in the accessible path

FUb3 Trash bin opening height ≤ 900 mm

FUb2 Lateral space of interaction of at least 865 x 1420mm

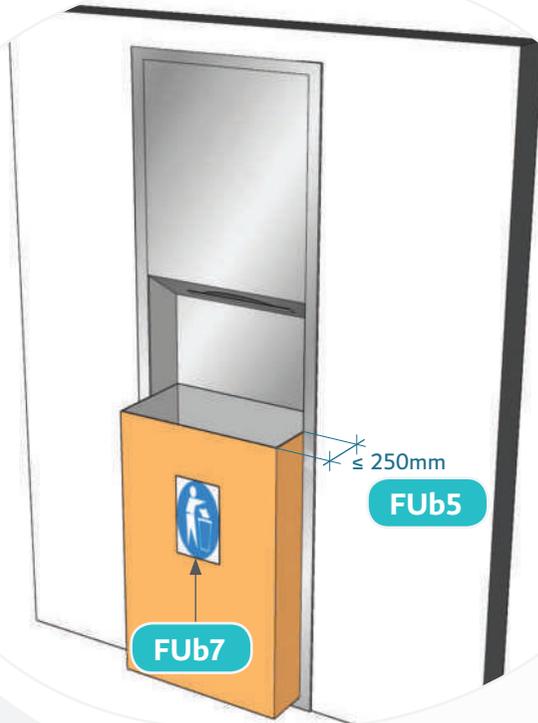
FUb

Furniture - Trash Bins, If Provided



FUb4

Trash bins every 50 meters



Push Button

FUb6

FUb7



FUb5

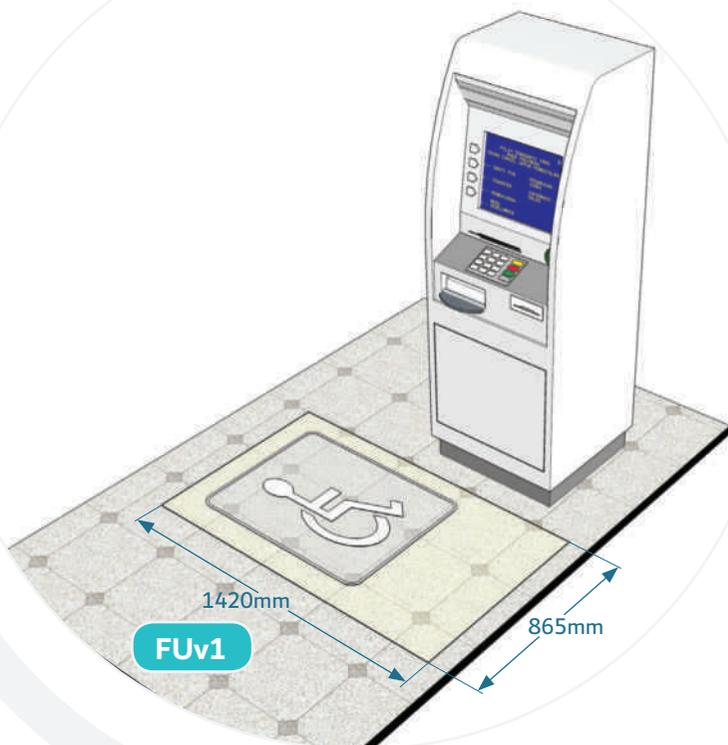
When fixed to the walls protrude $\leq 250\text{mm}$

FUb6

Operable with an elbow if opening mechanism is provided

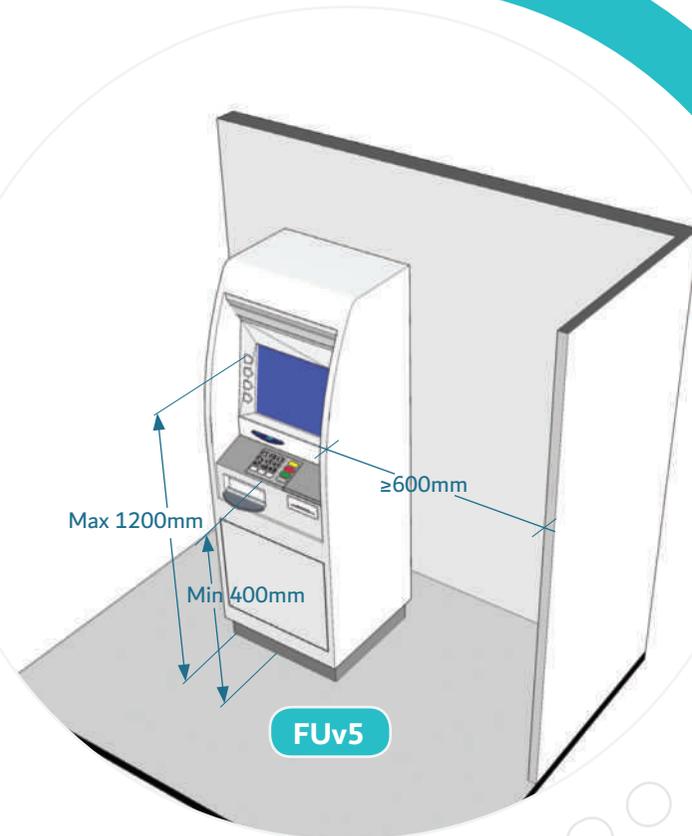
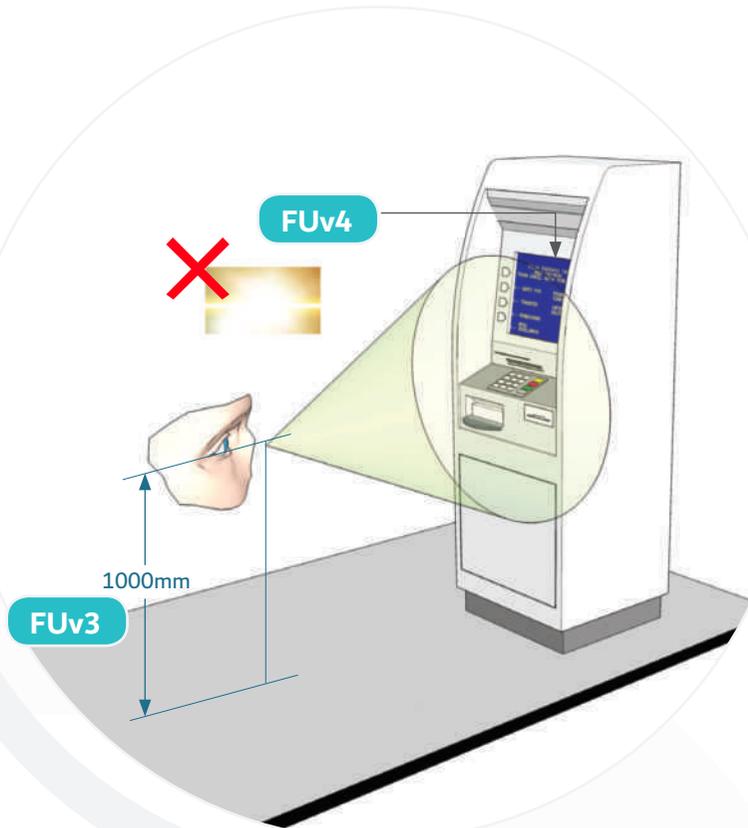
FUb7

Well contrasted signage



FUv1 One frontal or lateral interaction space 865 - 1420mm

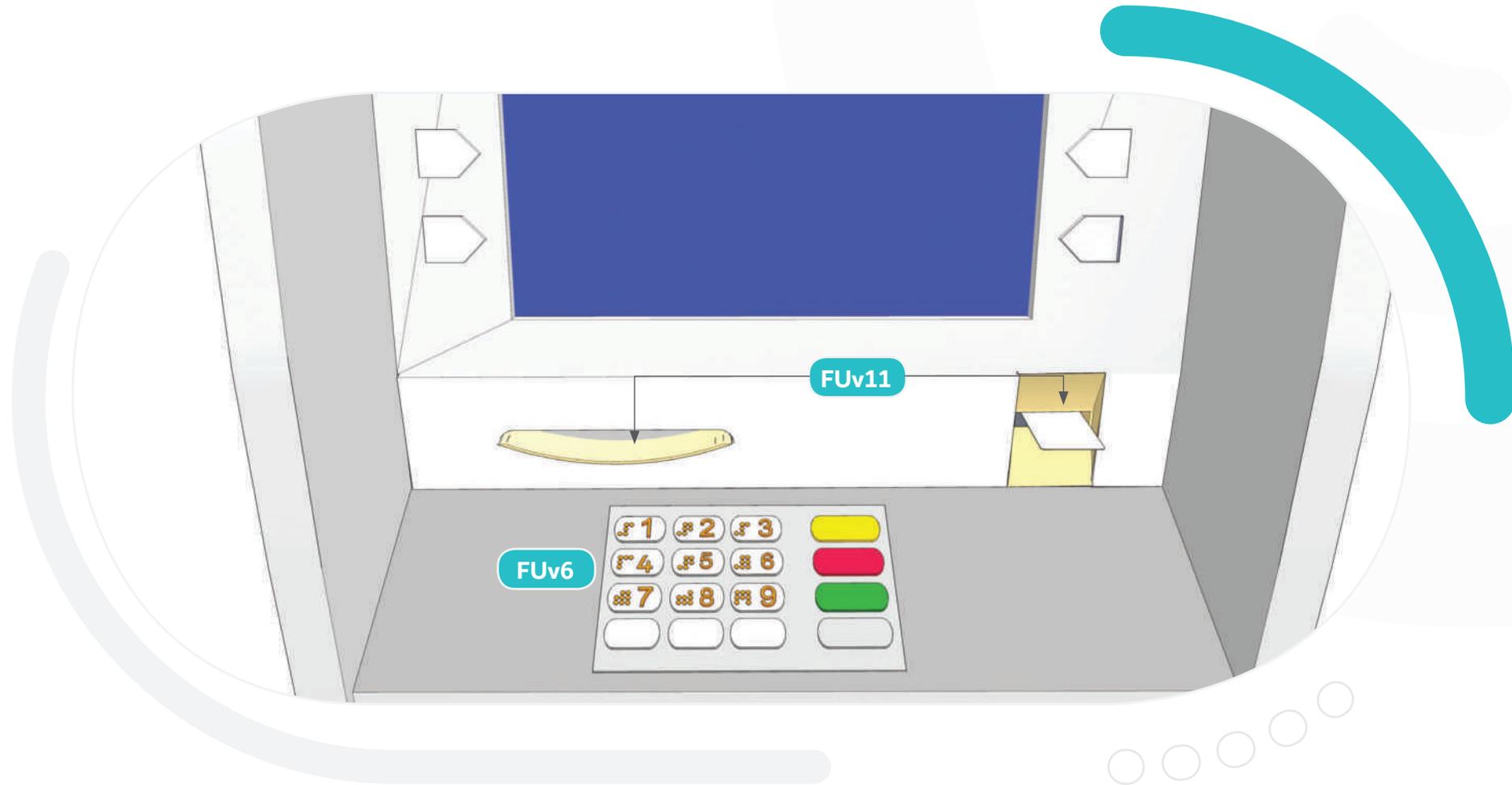
FUv2 Floor surface is smooth, non-slippery with a gradient $\leq 2\%$



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

FUv4 Screen and keyboard with no reflection or glare

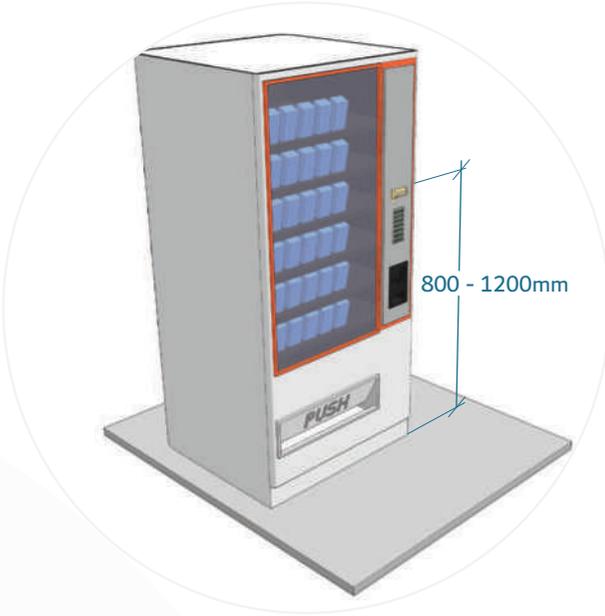
FUv5 Control buttons height between 400 - 1200mm and ≥ 600 mm from any corner if exist



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

FUb

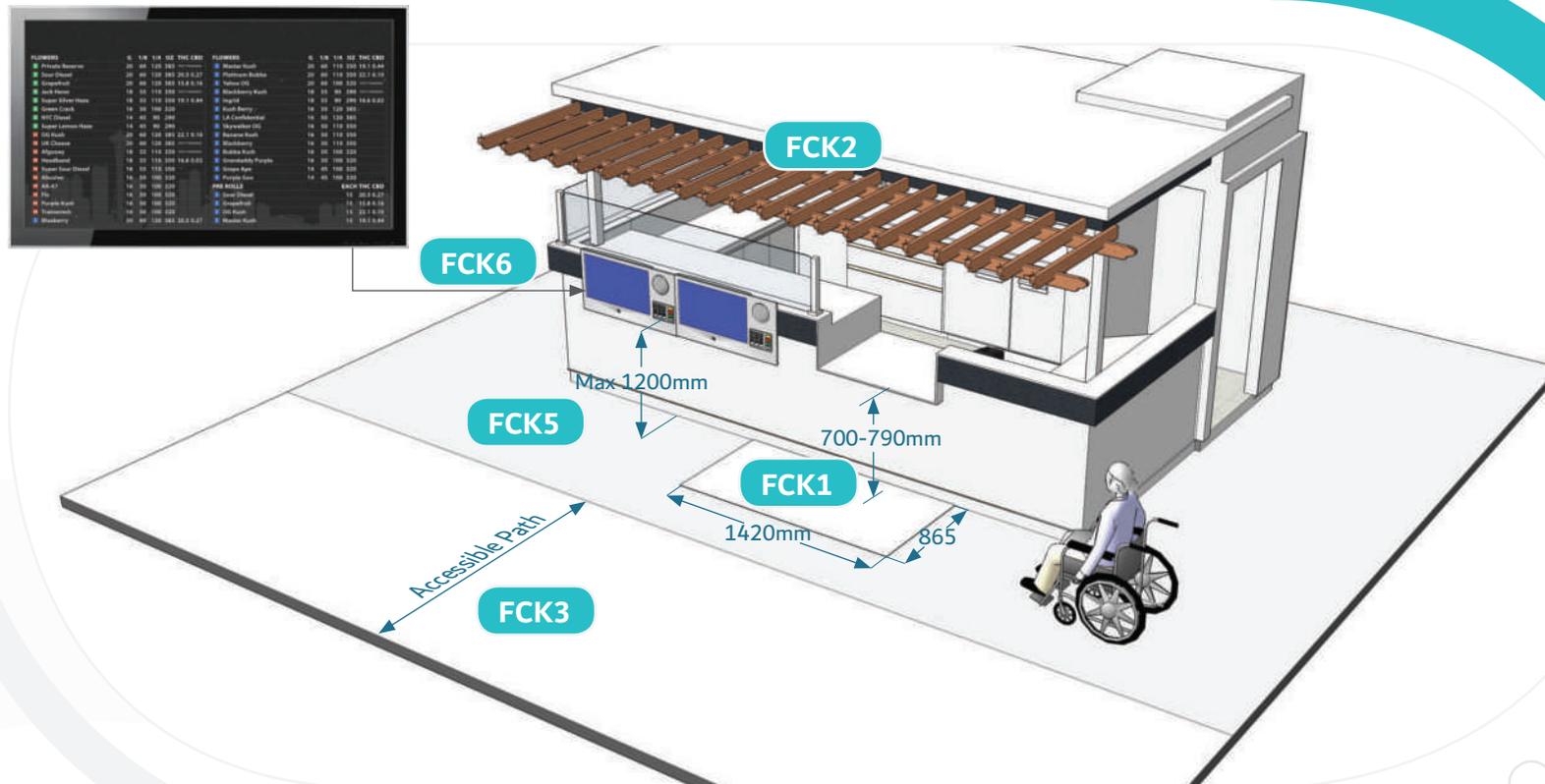
Furniture - Bollards, planters, telephone booths and other furniture elements, if provided



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

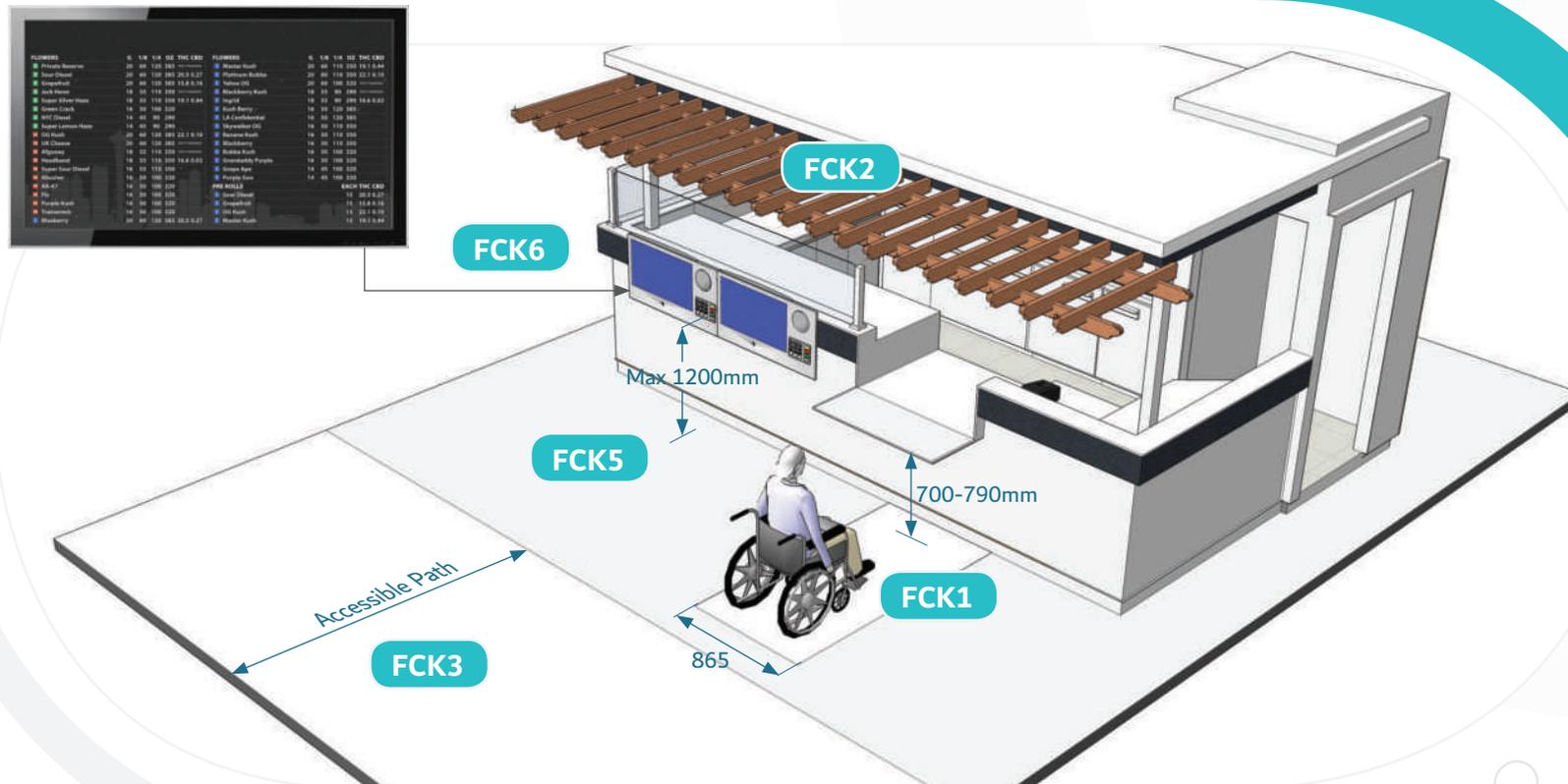
FCK2 With pergola in the front side for outdoor

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

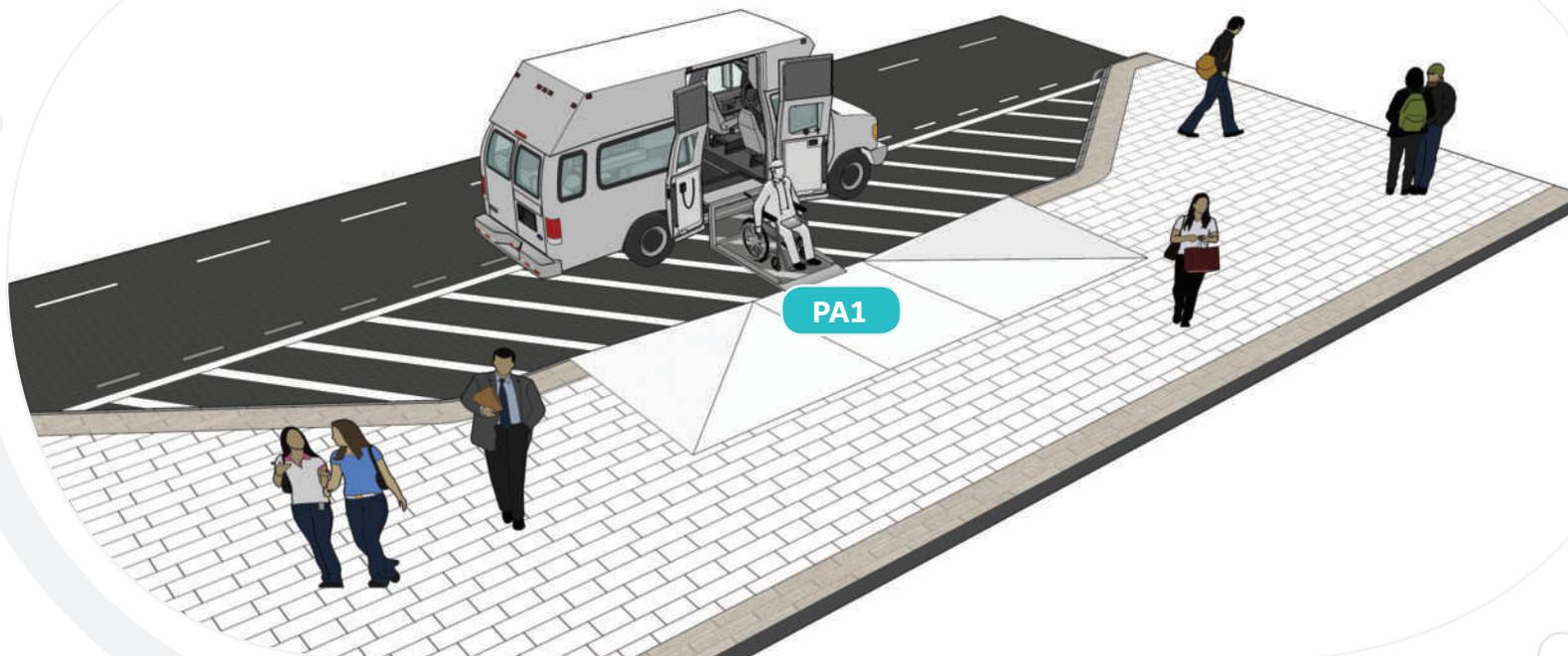
- FCK4** Equipped with hearing enhancement system and indicating post
- FCK5** Controls at height of 1200mm
- FCK6** Audio and Visual information provided

**Parking and
drop off point**



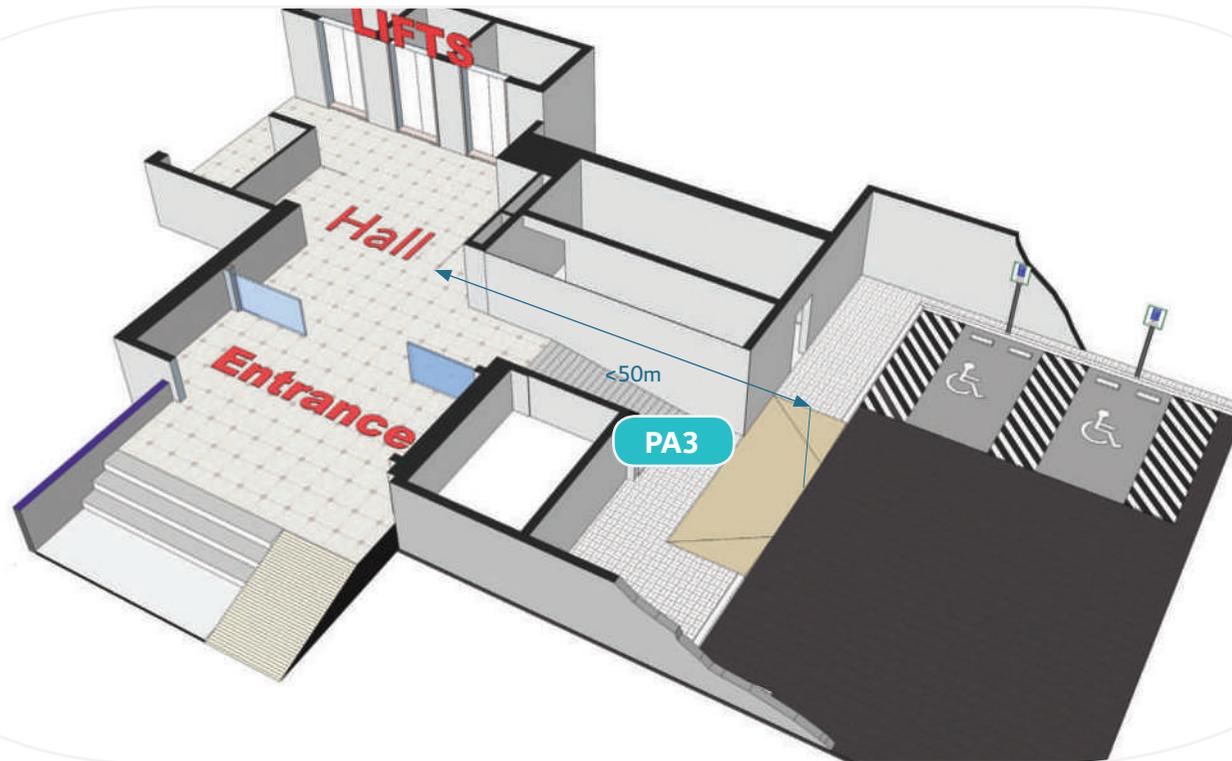
PA

Parking and drop off point - Accessible Parking places, access to parking lots



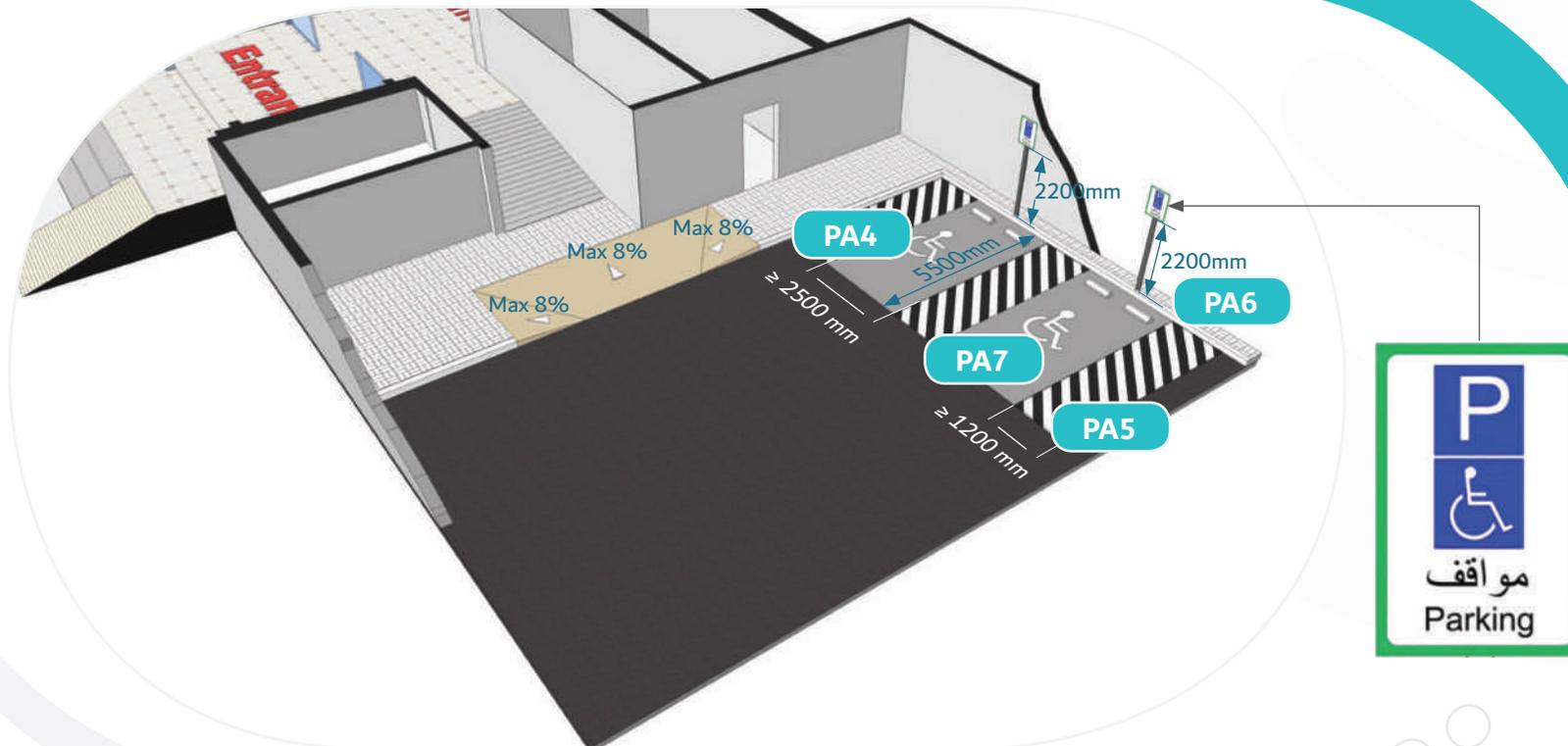
PA1

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

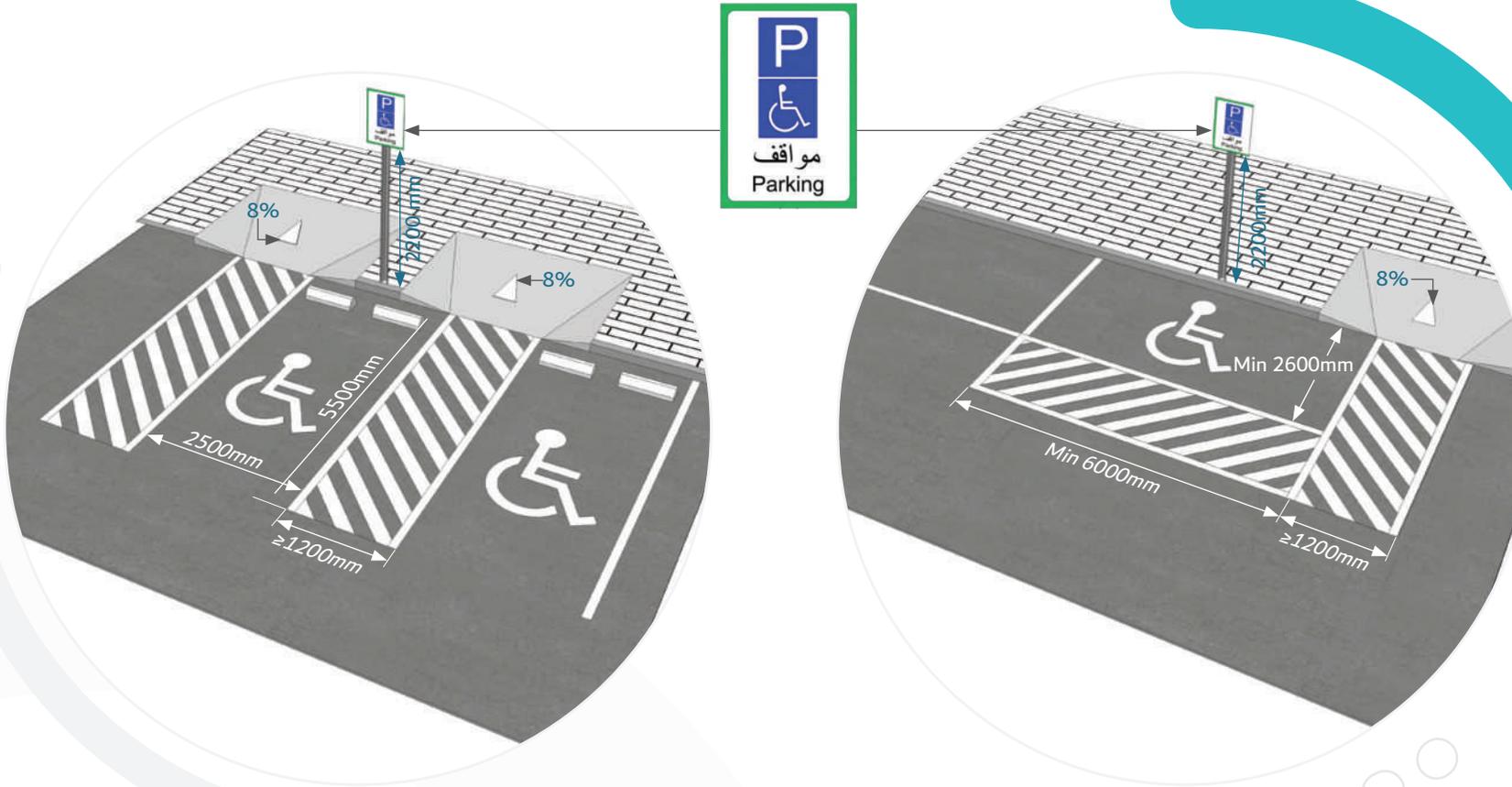
With lateral access aisle $\geq 1200\text{mm}$

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 ≥ 1200 mm

PA6

Signs mounted at 2200mm with international symbol

PA7

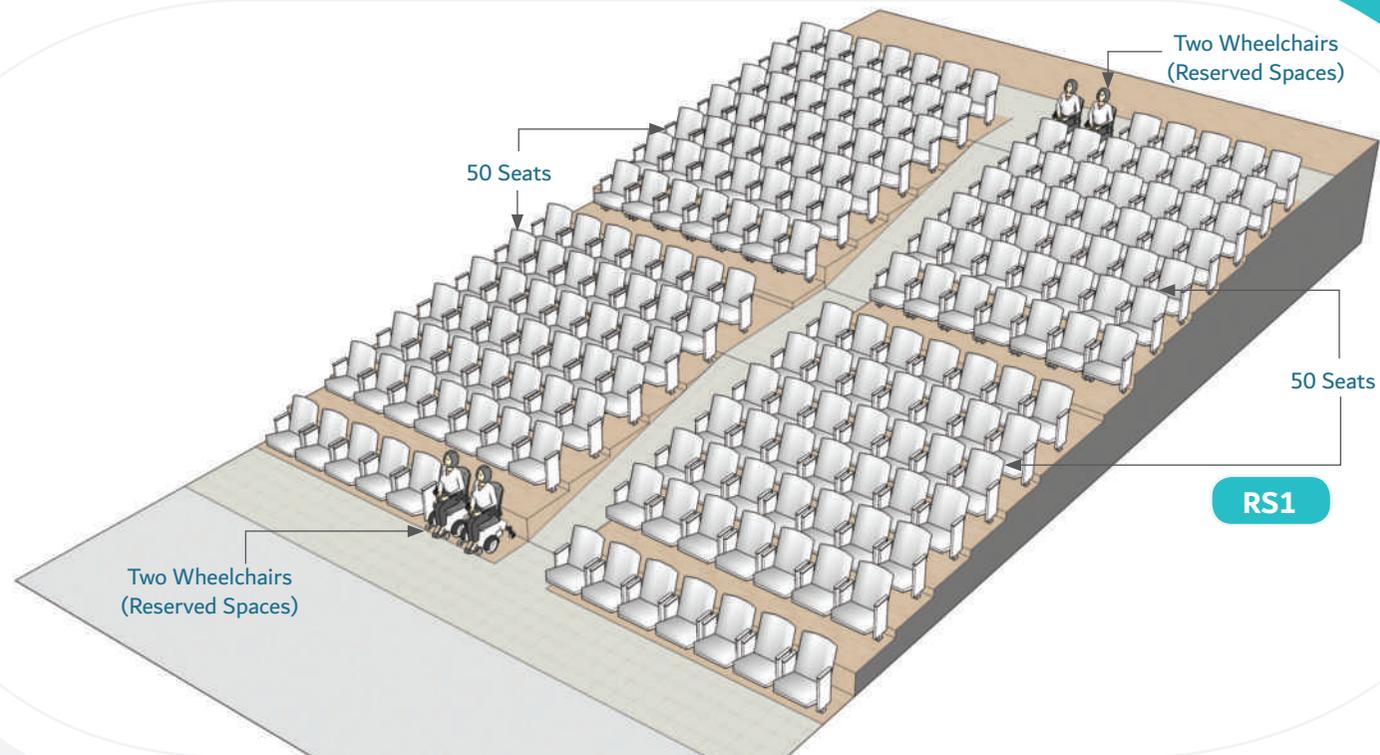
Marked with international symbols

PA8

Curb cut with maximum 8% slope

Reserved Seating Spaces

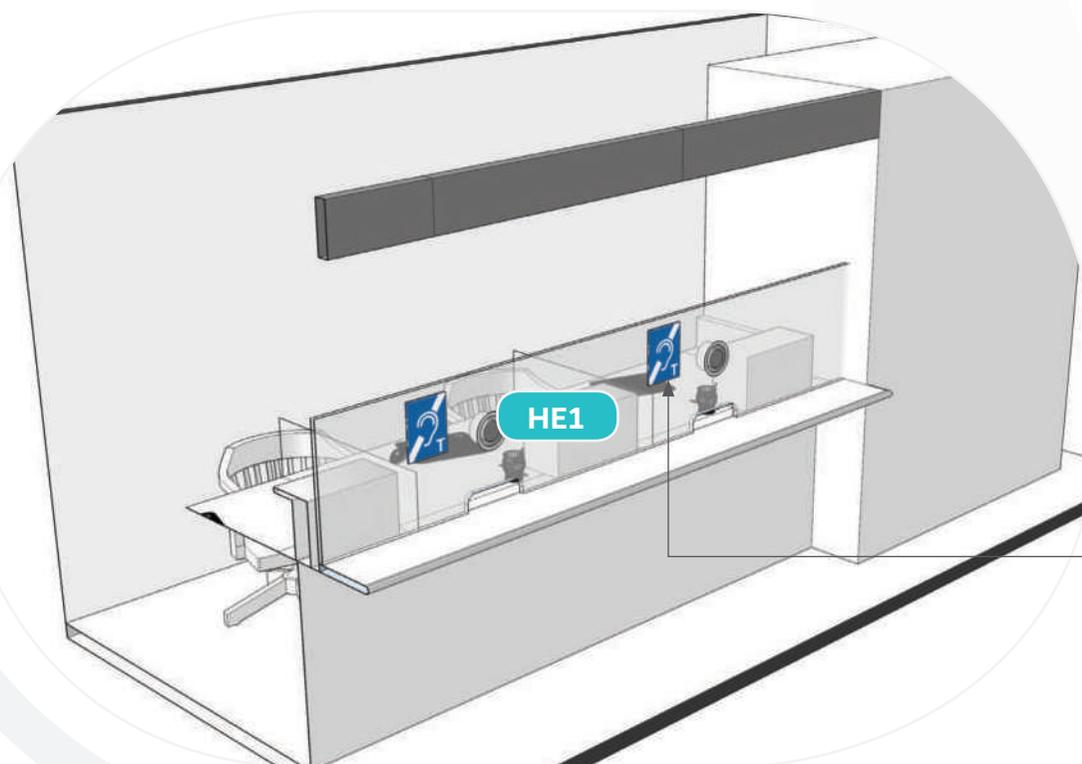


RS**Reserved Seating Spaces****RS1**

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



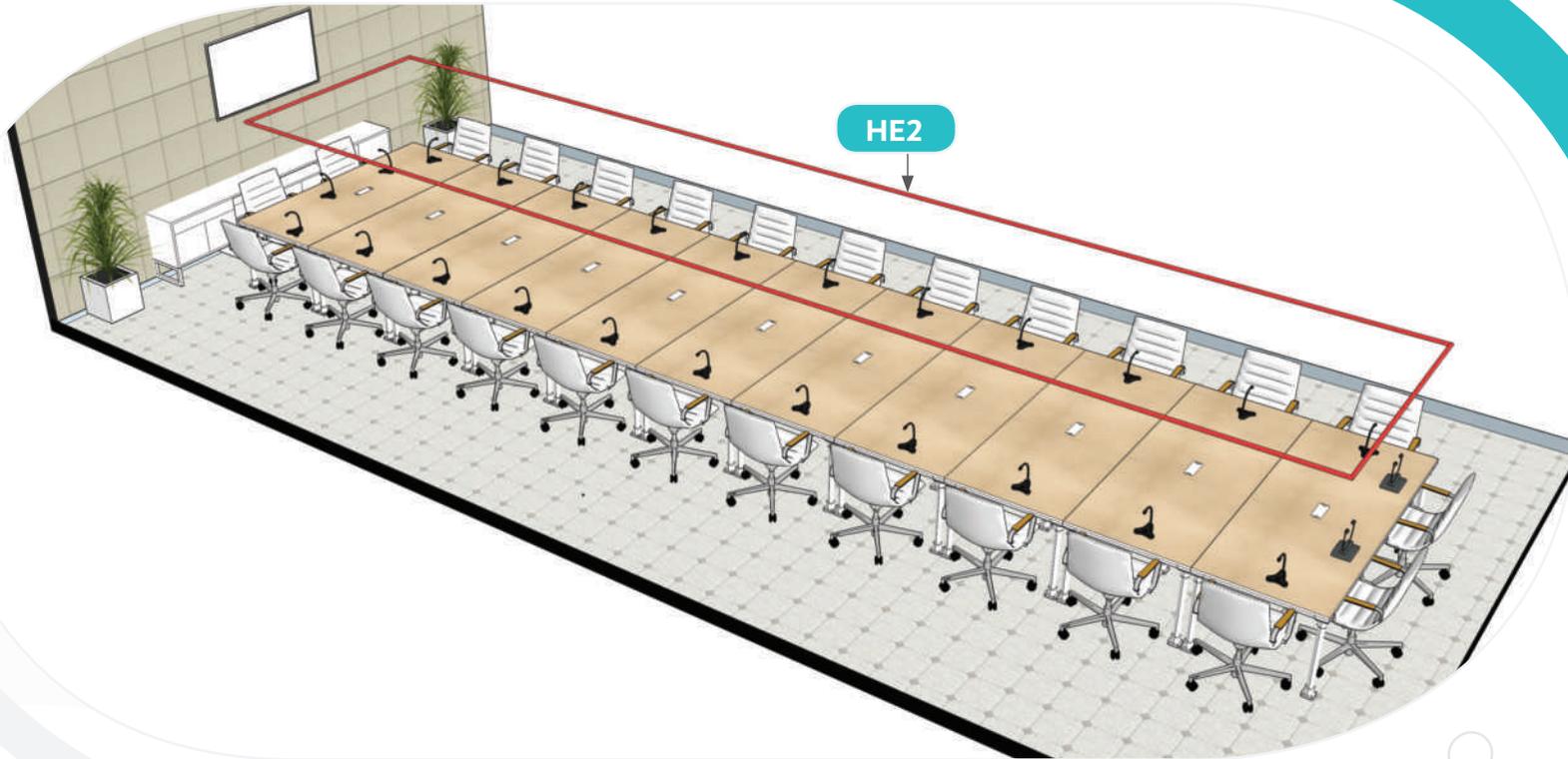


HE1

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

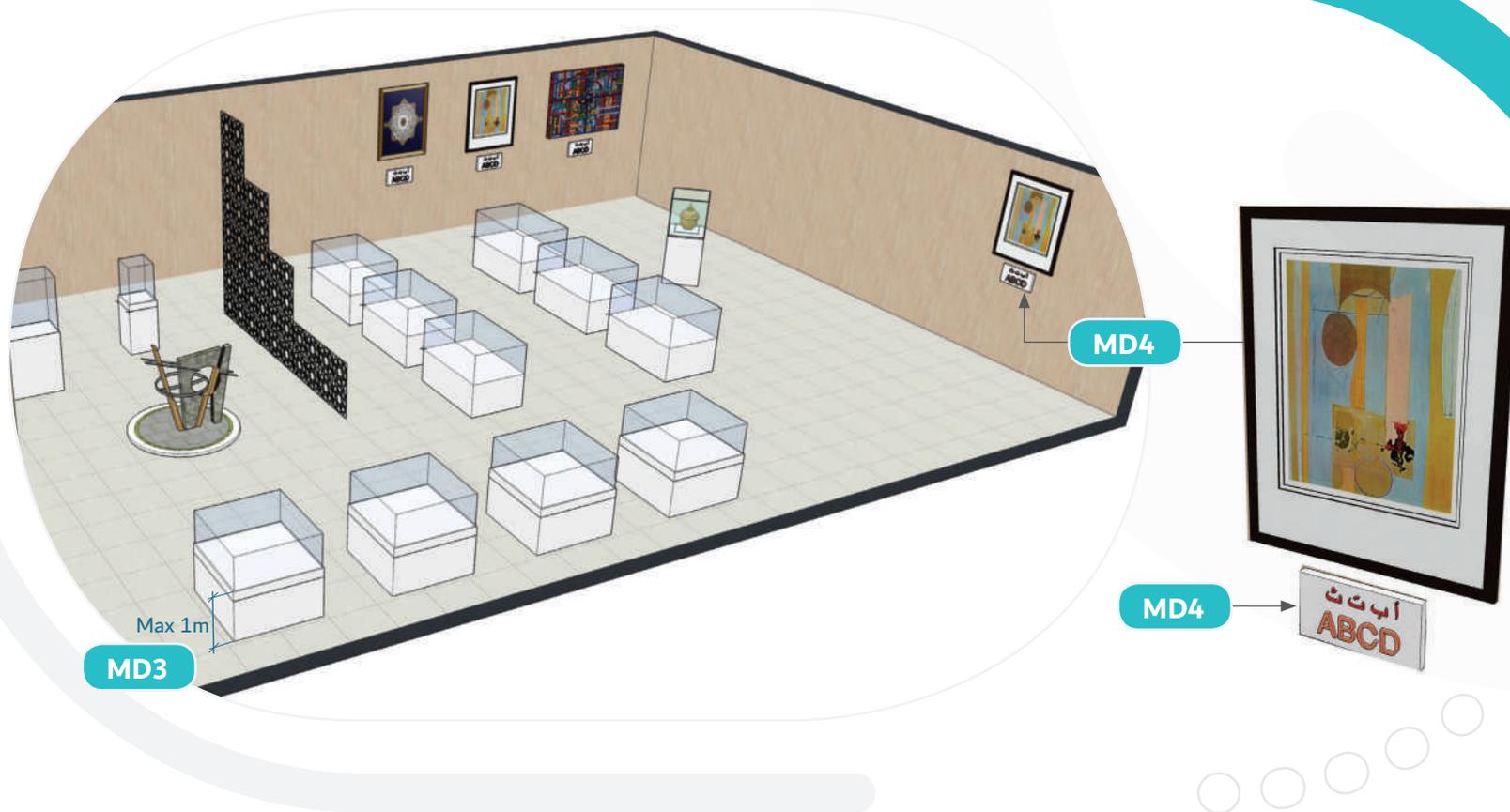
HE4 Posted sign to indicate that the enhancement system is available

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

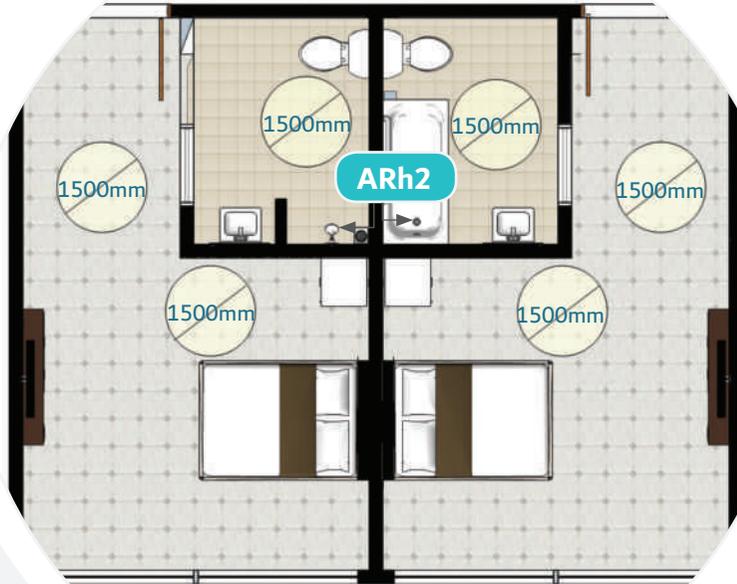
Displays are visible at a maximum height of 1 m

MD4

Signage of at least 14 pt and well illuminated

Accessible Room



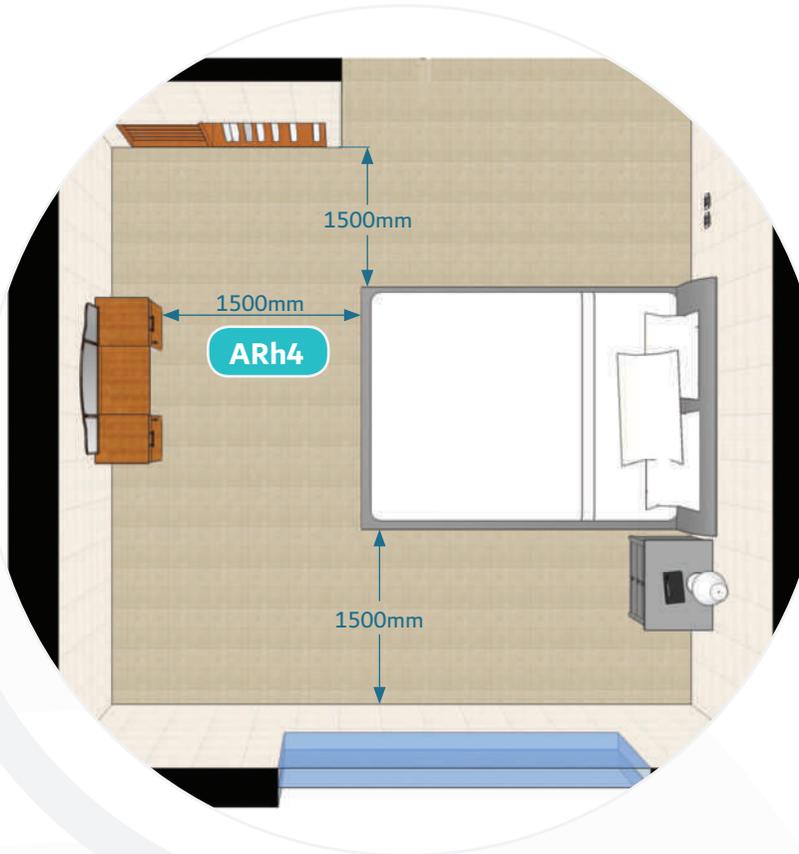


ARh1 2% of rooms are accessible with accessible toilet

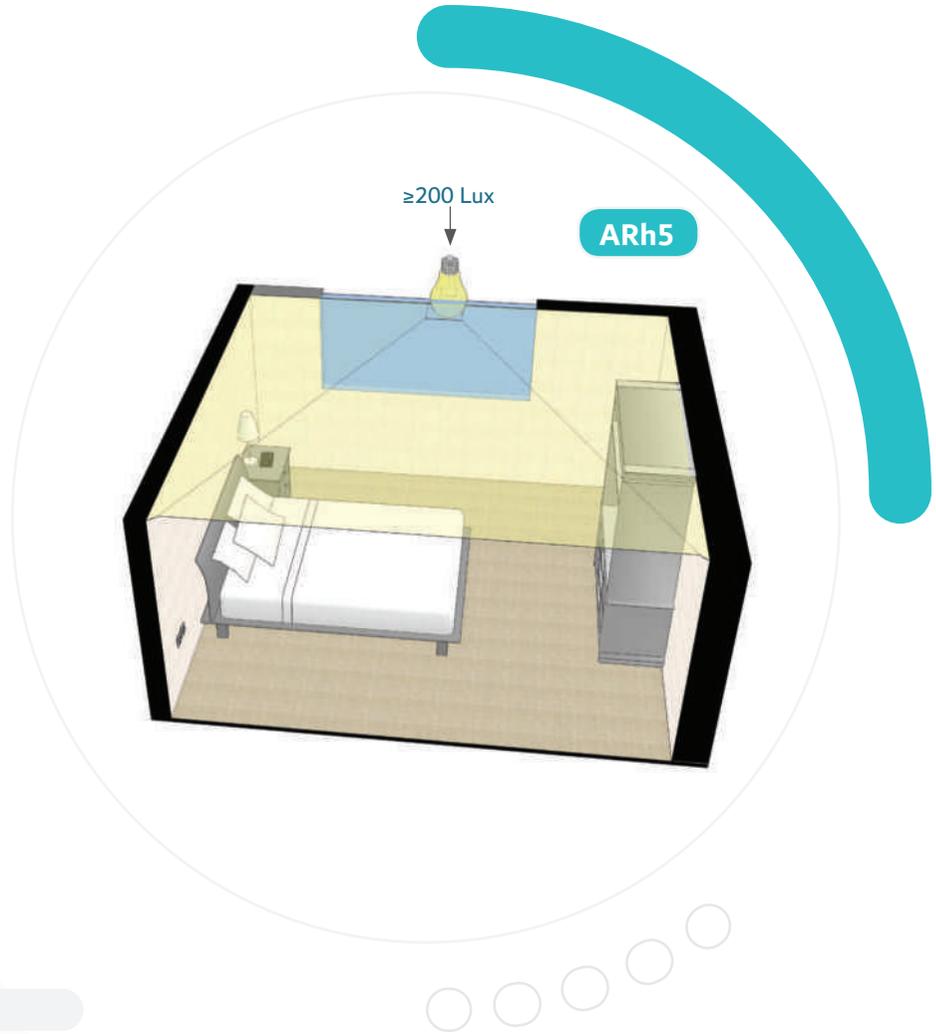
ARh2 Half of the accessible hotel rooms with roll-in showers and other half bathtub

ARh3 Toilet with alarm string

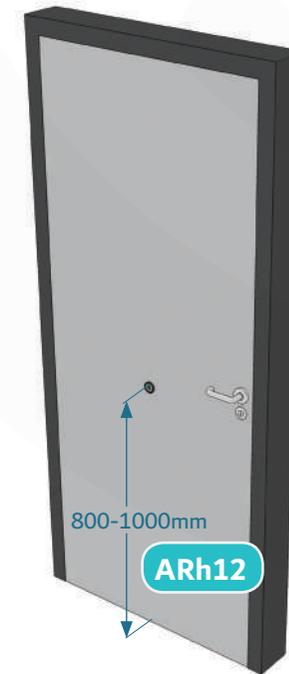
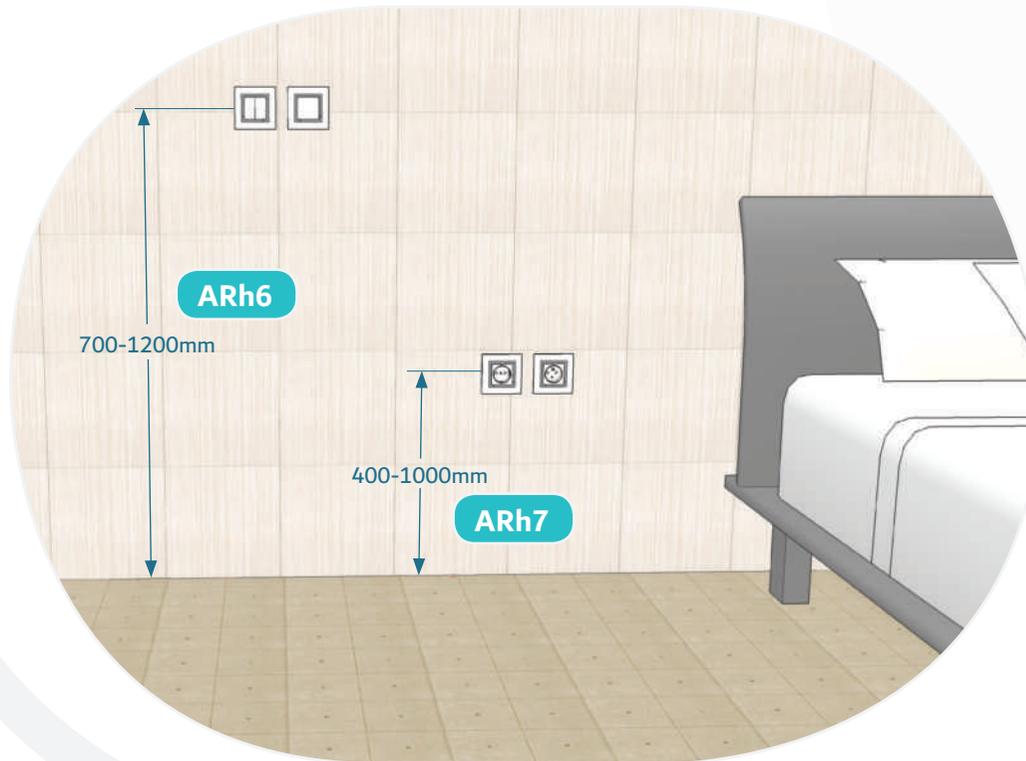
ARh9 Acoustic and visual fire alarm provided and audible door bell



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



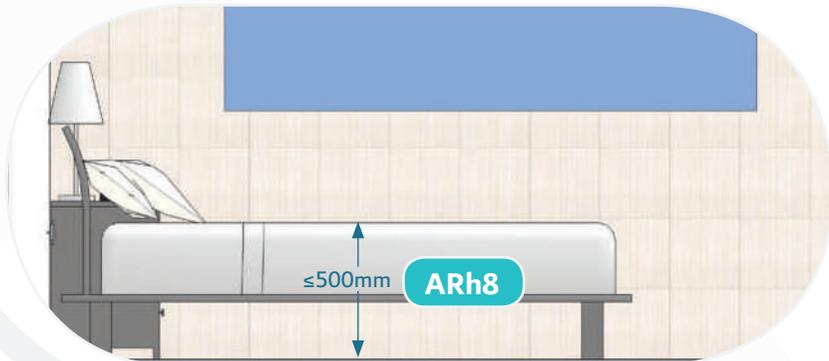
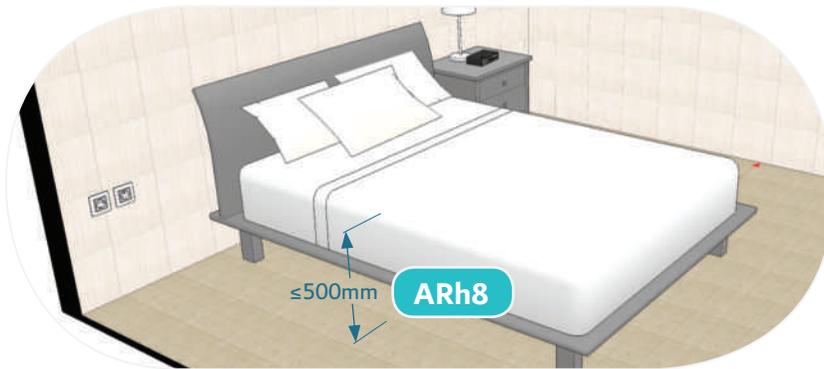
ARh5 Illumination ≥ 200 lux



ARh6 Controls placed at height between 700 - 1200mm

ARh7 Electronic outlets at height between 400 - 1000mm

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

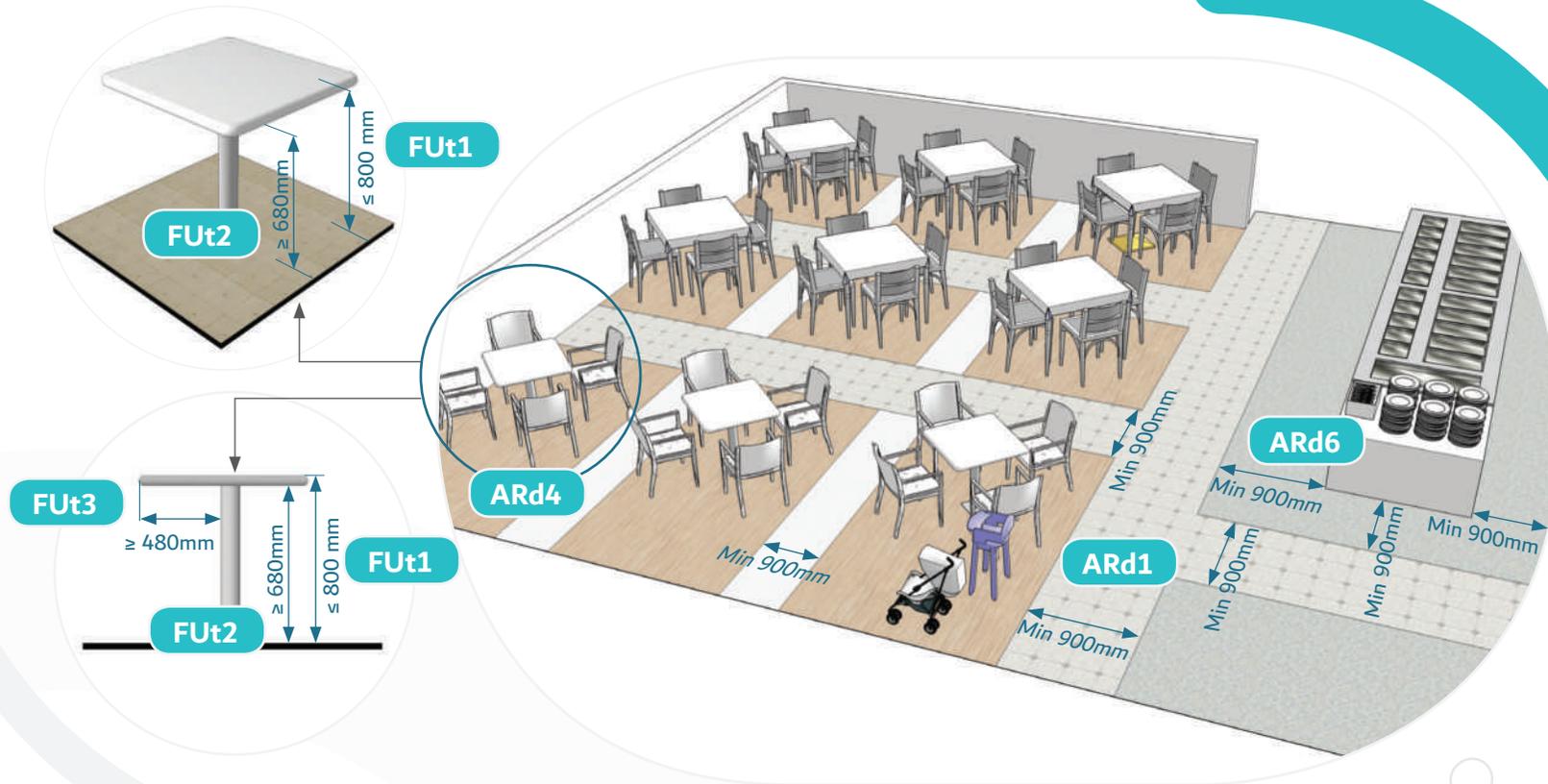


ARh8 The bed height $\leq 500\text{mm}$

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)

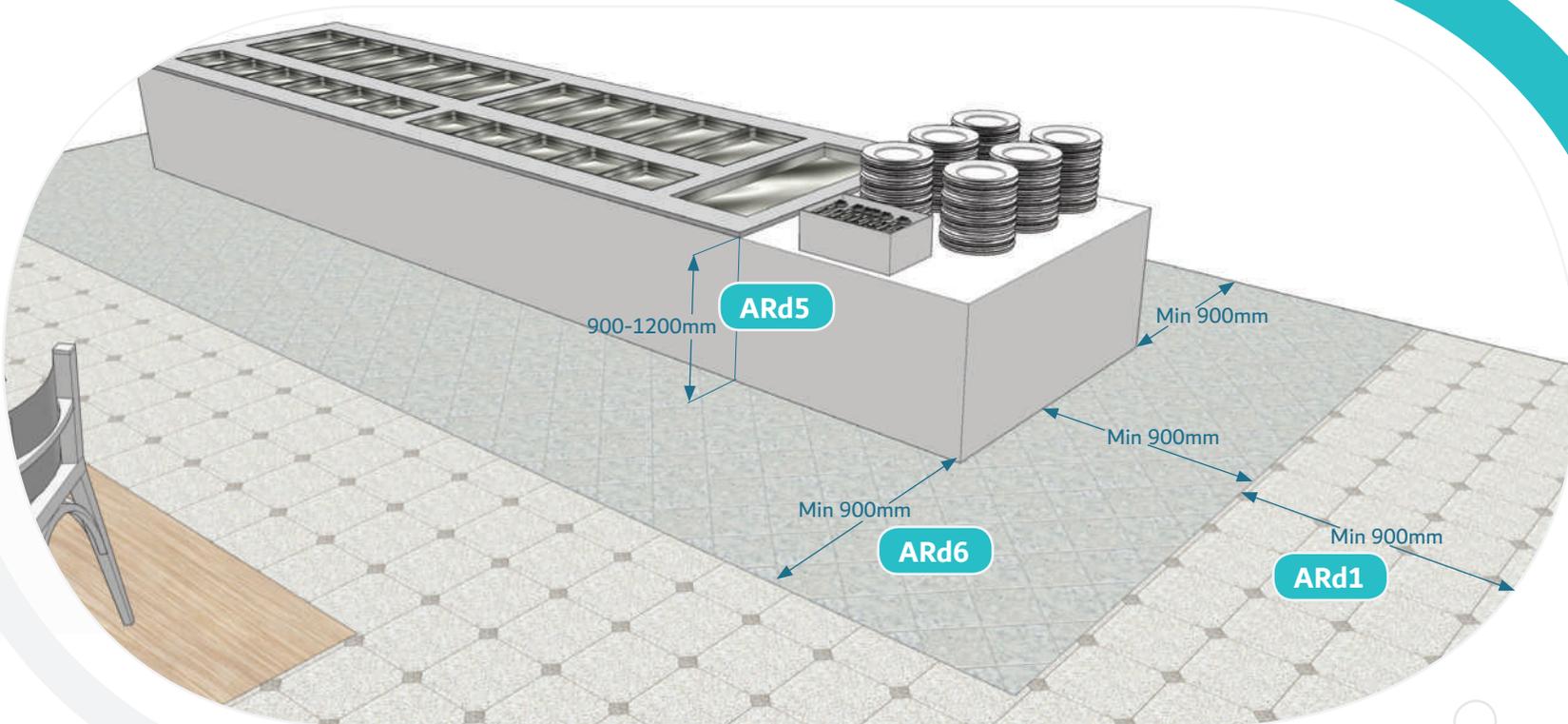
ARd4 10% of the tables shall comply with the dimensional criteria for tables

ARd6 Minimum 900mm clear passage to all food service area



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

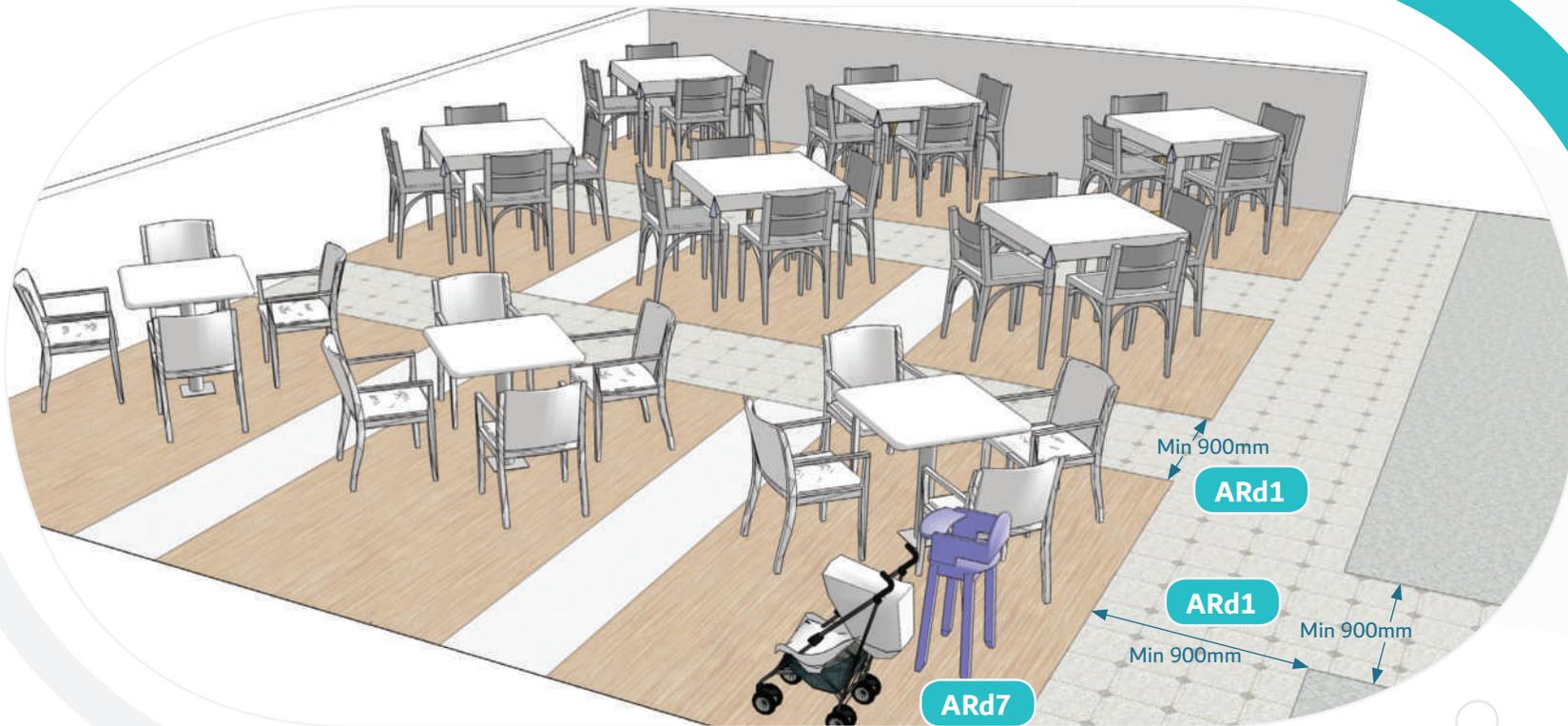
ARd3 Sound reduction materials used in dining rooms, floors and walls made of washable materials



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 $\geq 900\text{mm}$

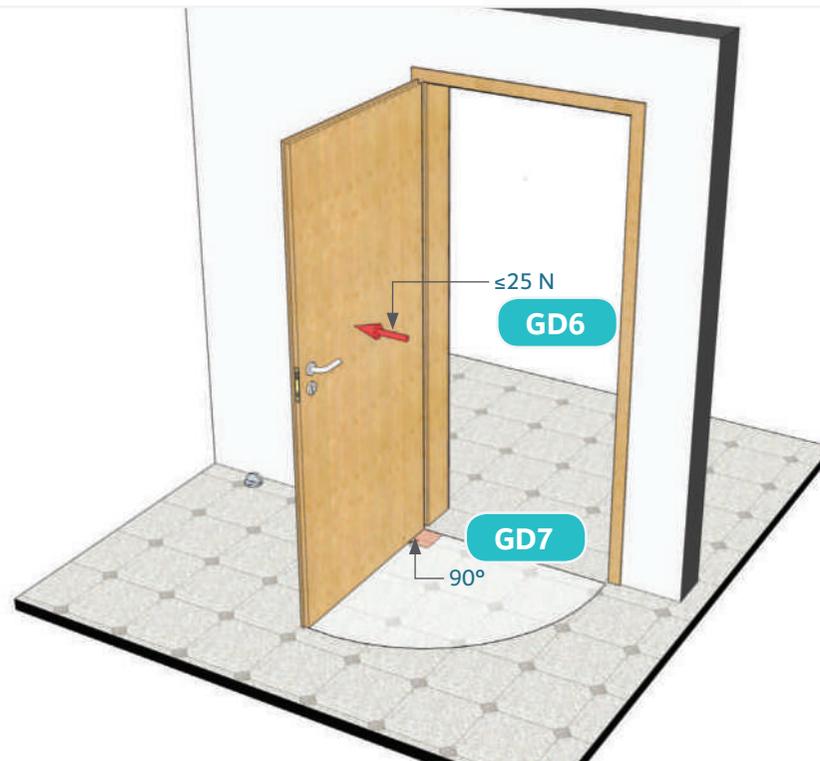
GD2 900-1200mm handle of opening mechanism height and operable by elbow or automatic

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

GD4 No round knobs



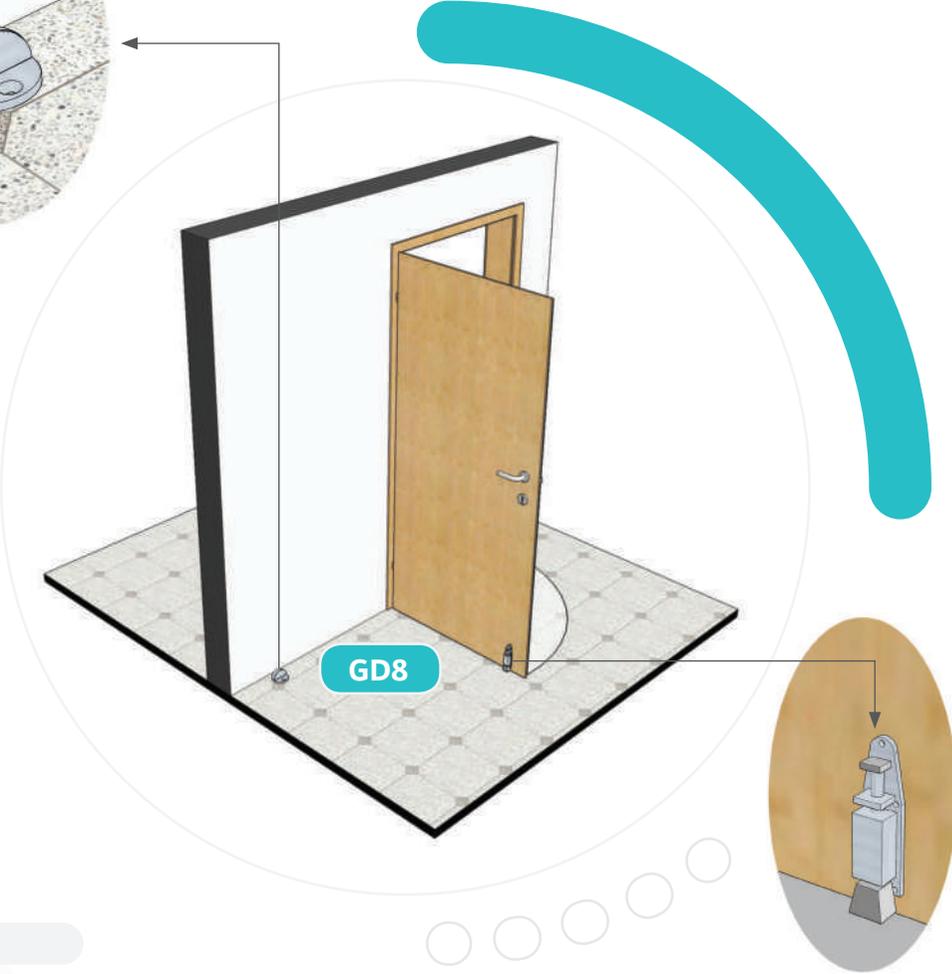
GD5 Sliding doors with vertical fixed opening bars



GD6 Force to open the door ≤ 25 N

GD7 Swinging door open 90°

GD General - Doors



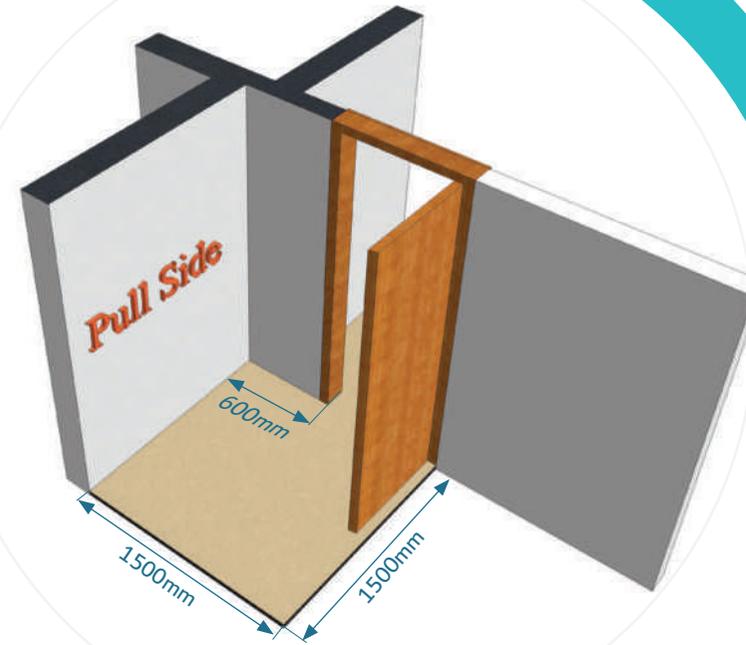
- GD8** Door stoppers provided
- GD9** 250mm height kick plate provided to doors in high use areas



GD10 Alternative door provided when there is a revolving door



GD11



GD11

Dimensions of maneuvering spaces / one way swinging door comply:

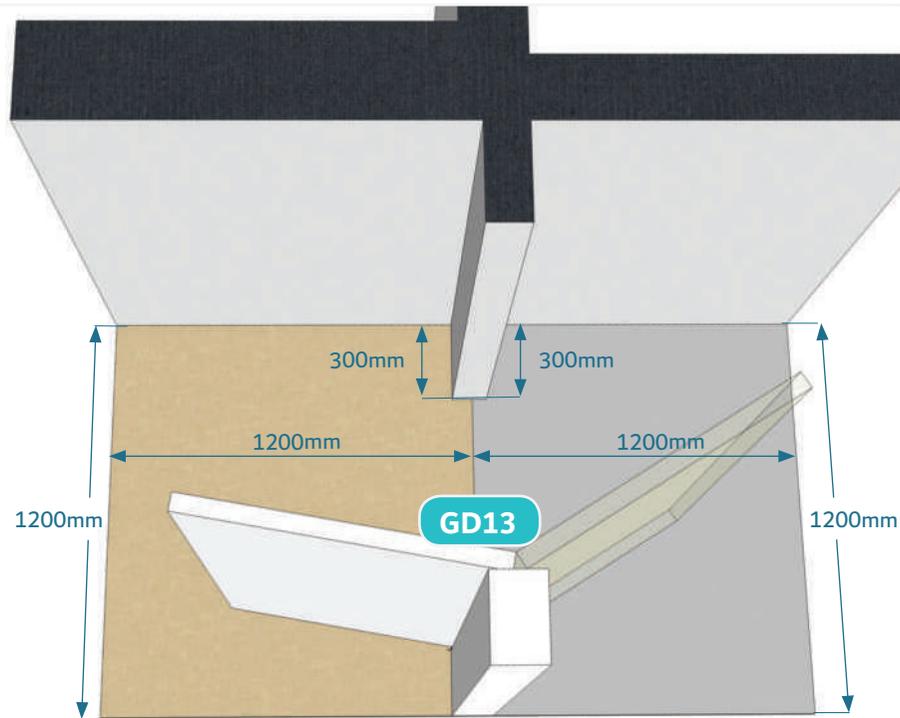
On pull side – 600mm space adjacent to the leading edge and 1500 x 1500mm space

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

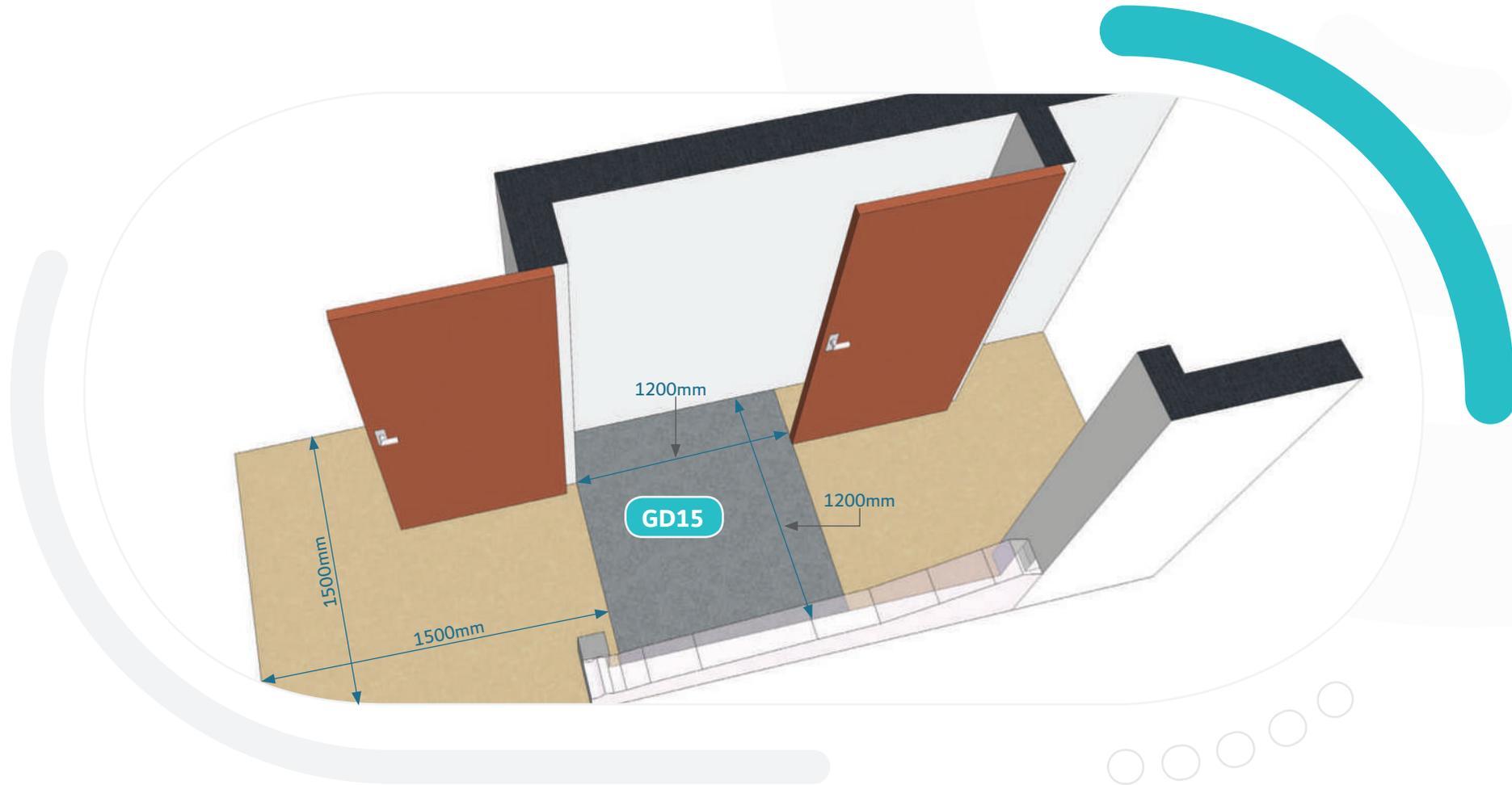


GD12

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

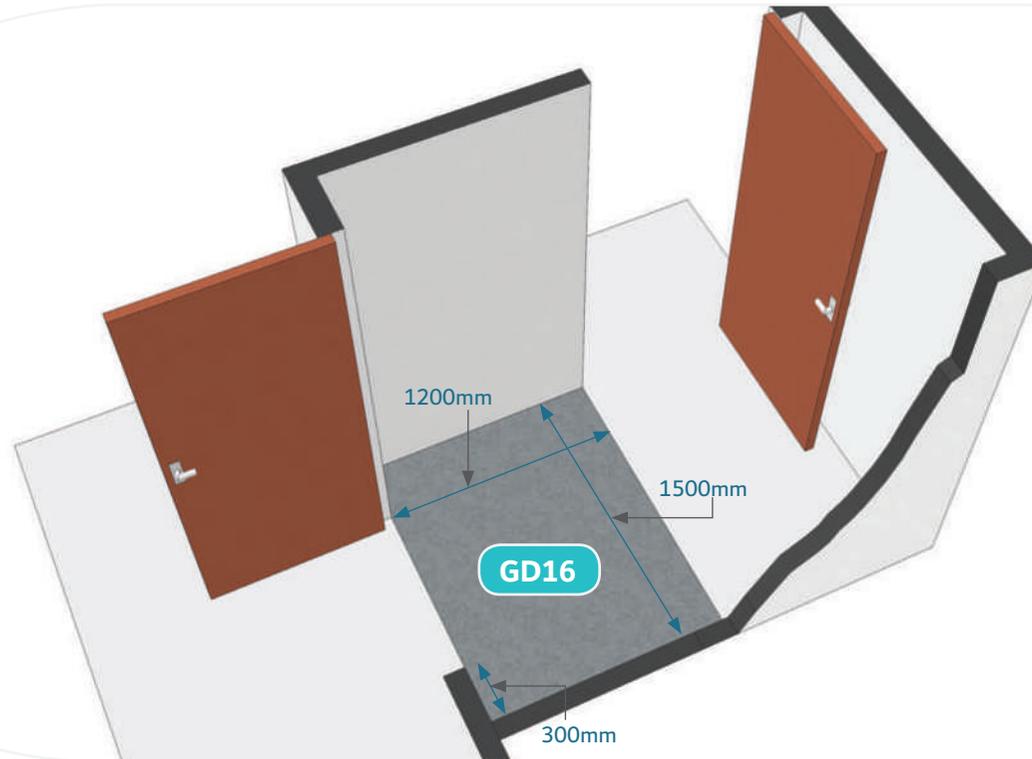
**GD13****Dimensions of manoeuvring spaces comply:**

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

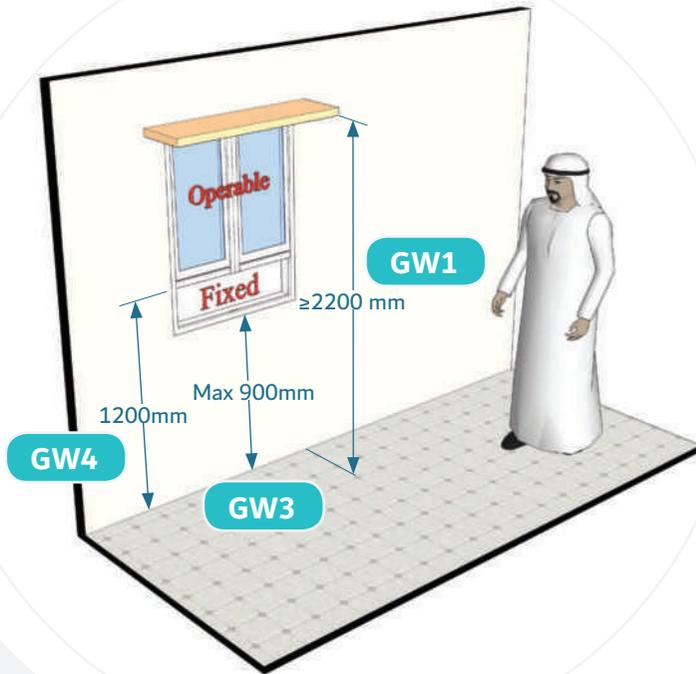


GD14 Clear spaces without obstructions of other doors

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 x1500mm clear between them



GW1 Without projections ≤ 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



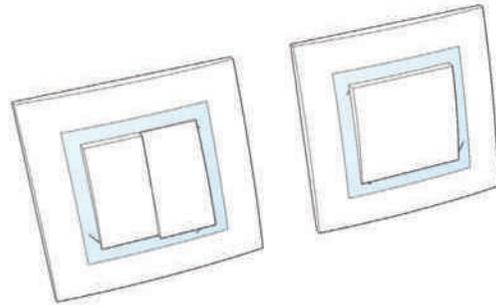
GW2



GW2



GW2 Opening mechanisms not require wrist turning



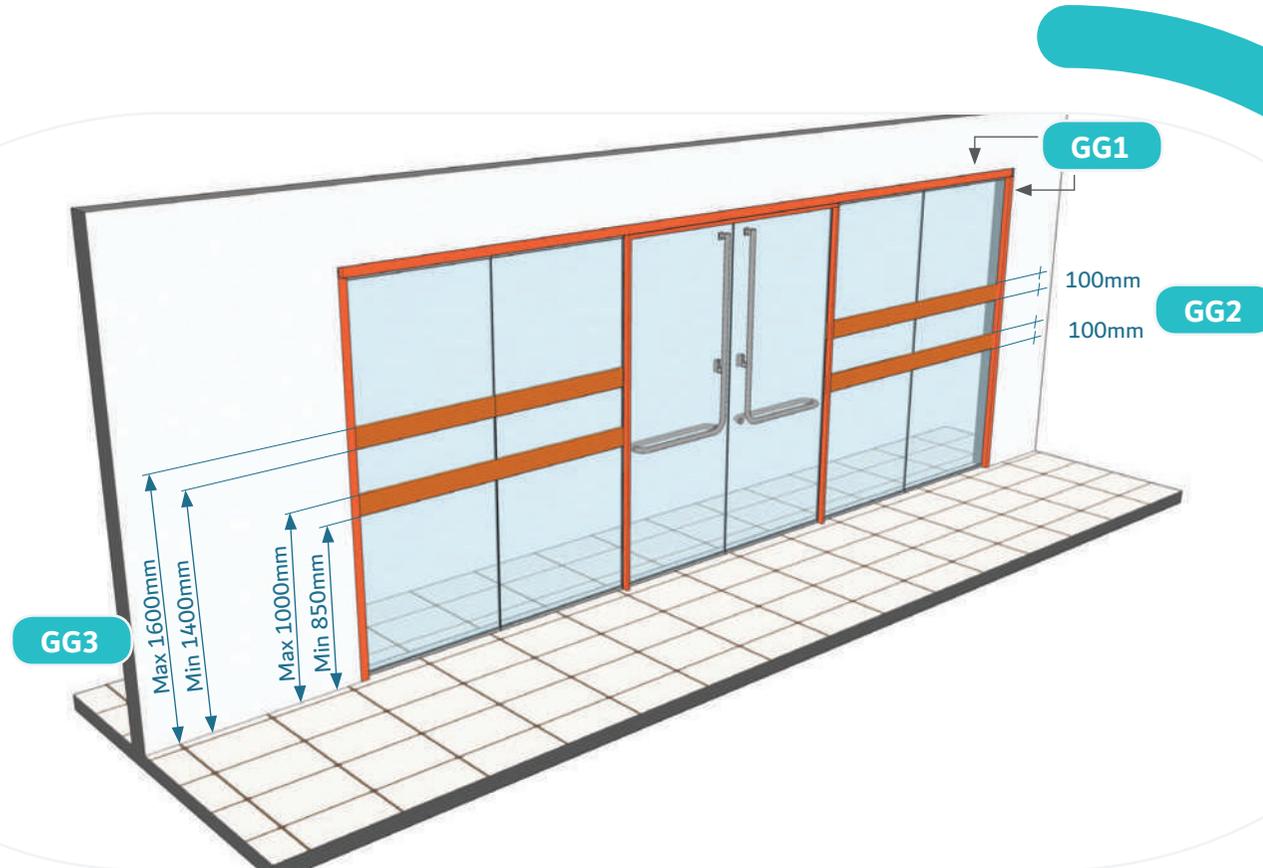
GS3



GS1 Located between 900 – 1200mm height and located ≥ 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

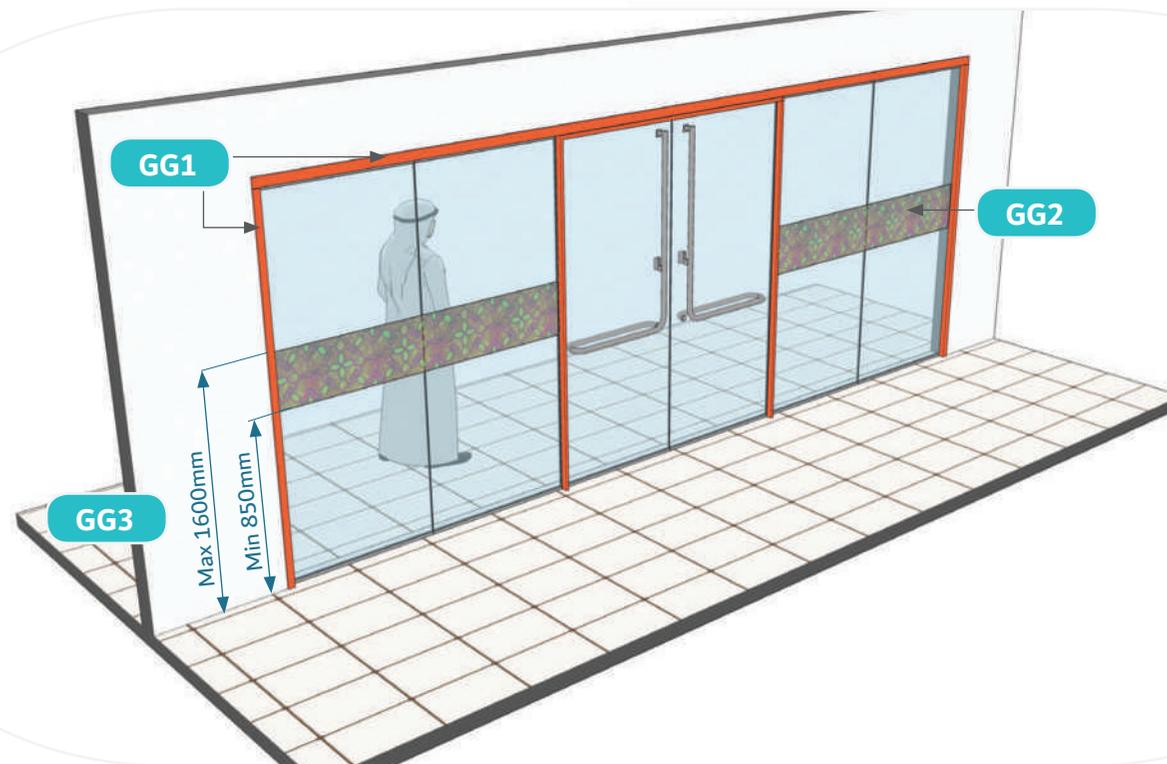
Glazed surfaces are identified clearly from adjacent doors or other openings

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

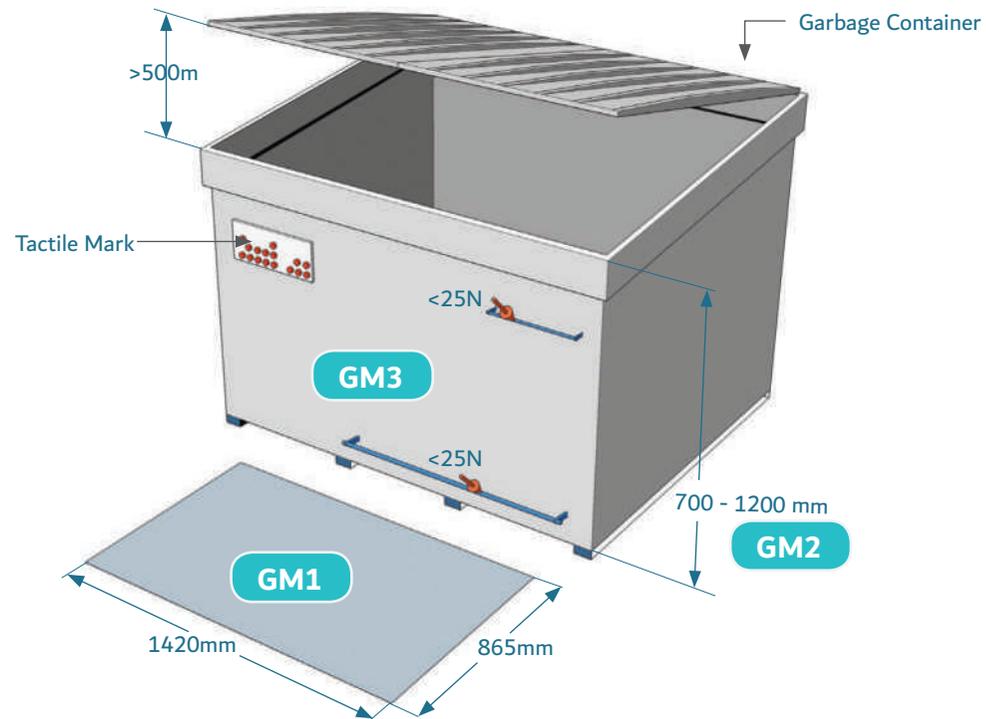
First horizontal band height between 1400 - 1600mm from the ground level
Second horizontal band height between 850 - 1000mm from ground level



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

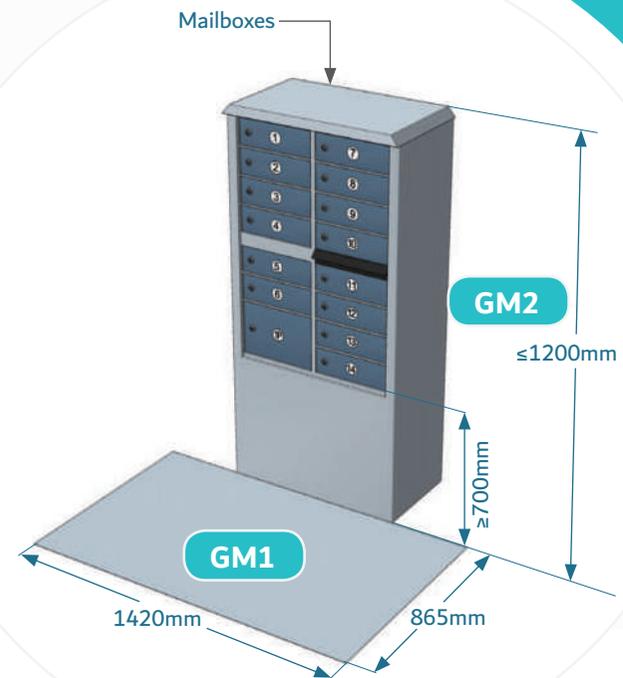
GG3 First horizontal band height between 1400 - 1600mm from the ground level
Second horizontal band height between 850 - 1000mm from ground level



GM1 With frontal or lateral interaction space 865 x 1420mm

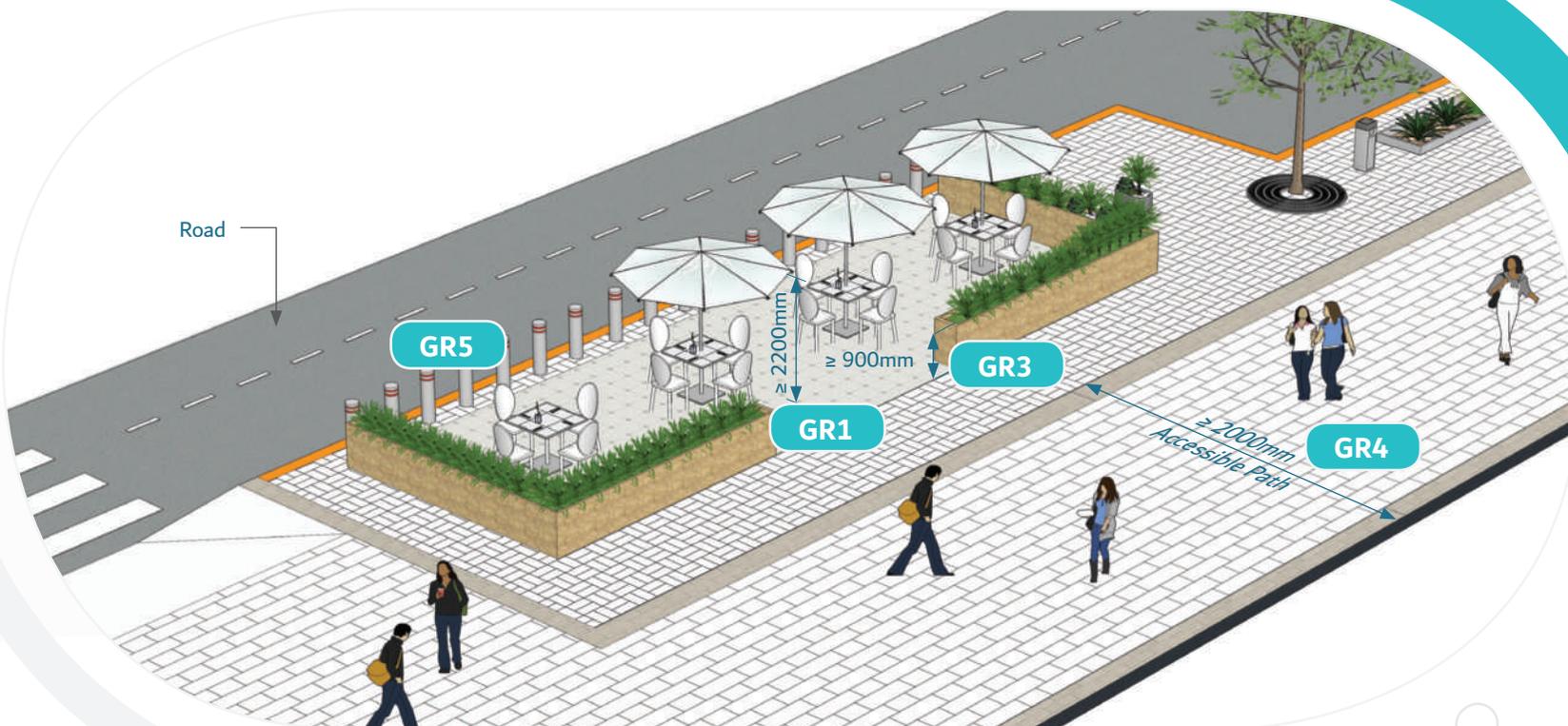
GM2 Interaction mechanisms height between 700 - 1200 mm

GM3 At least one garbage container can be opened with one hand and force < 25 N



GM1 With frontal or lateral interaction space 865 x 1420mm

GM2 Interaction mechanisms height between 700 - 1200mm



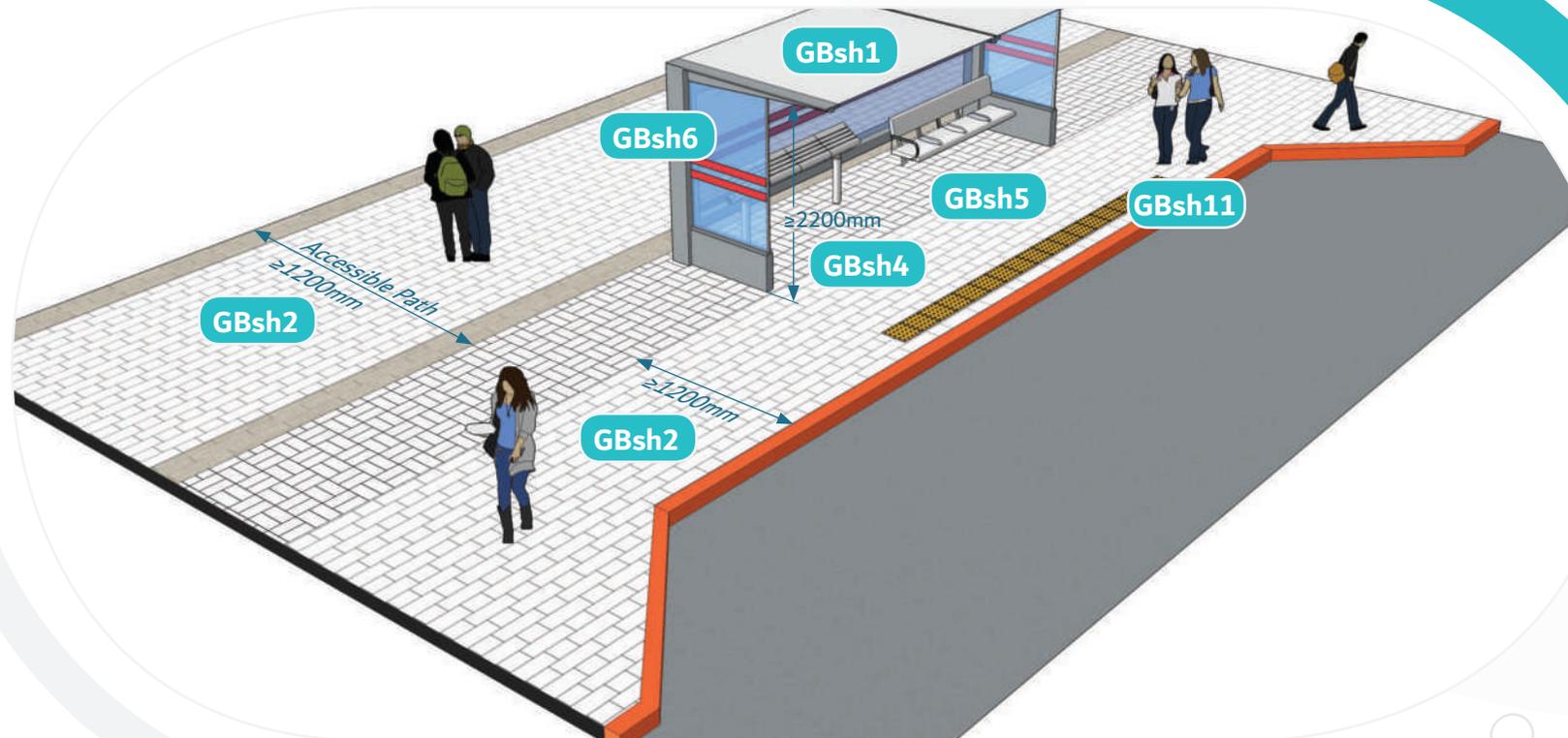
GR1 No invading accessible path and headroom

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

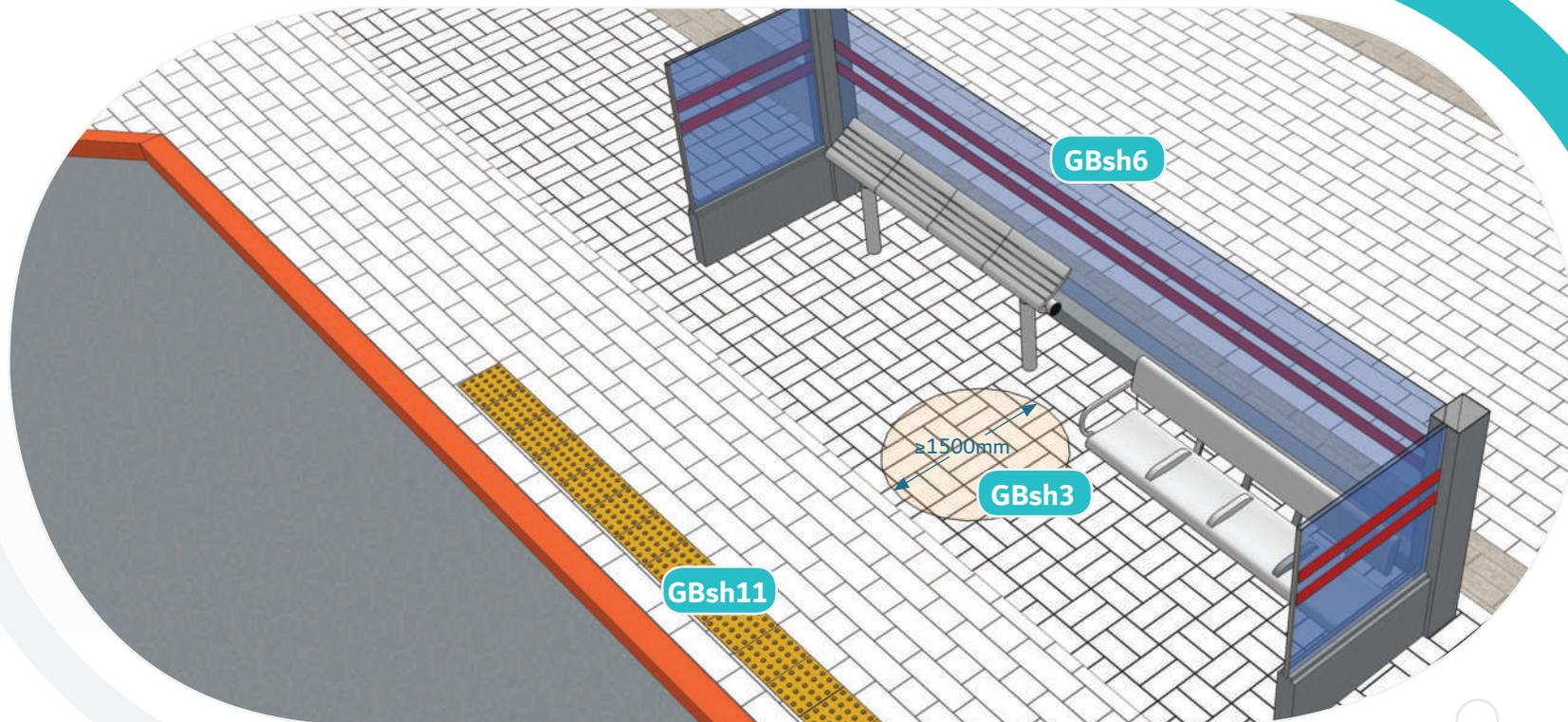
GBsh2 With a free of protruding obstacles path in both sides of at least 1200mm width

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

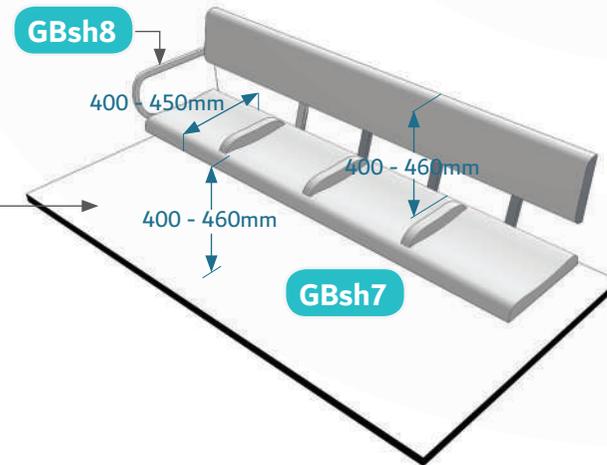
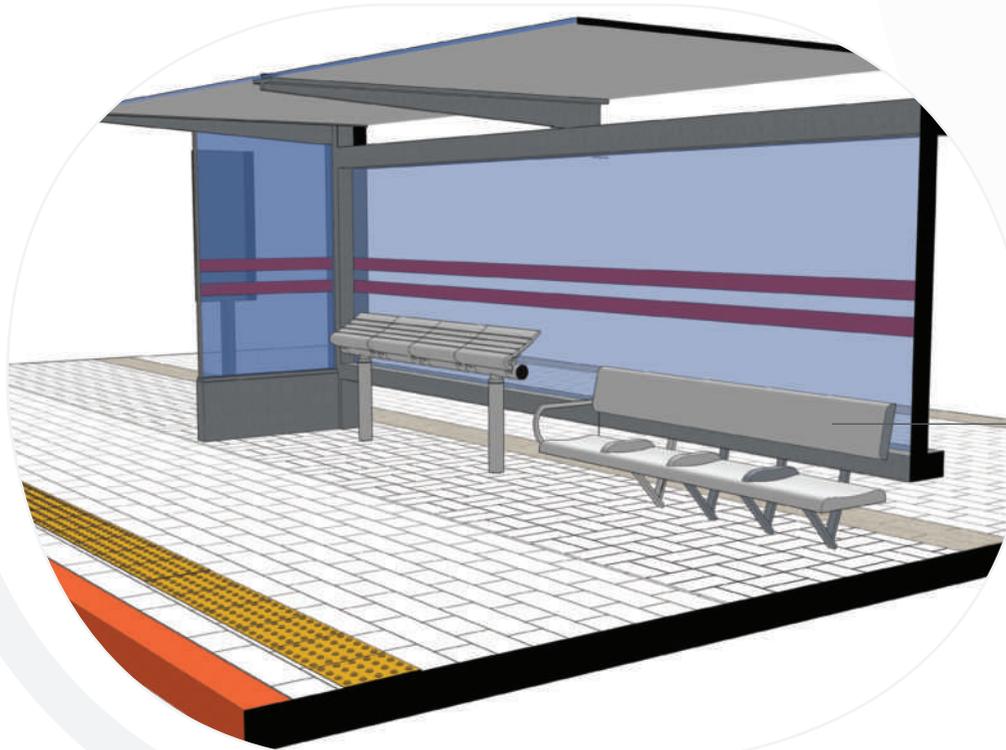
GBsh5 No obstacles between shelter and access to bus

GBsh6 Glazed walls with indication and warning marks, if provided

GBsh11 Boarding area platform with tactile warning surface

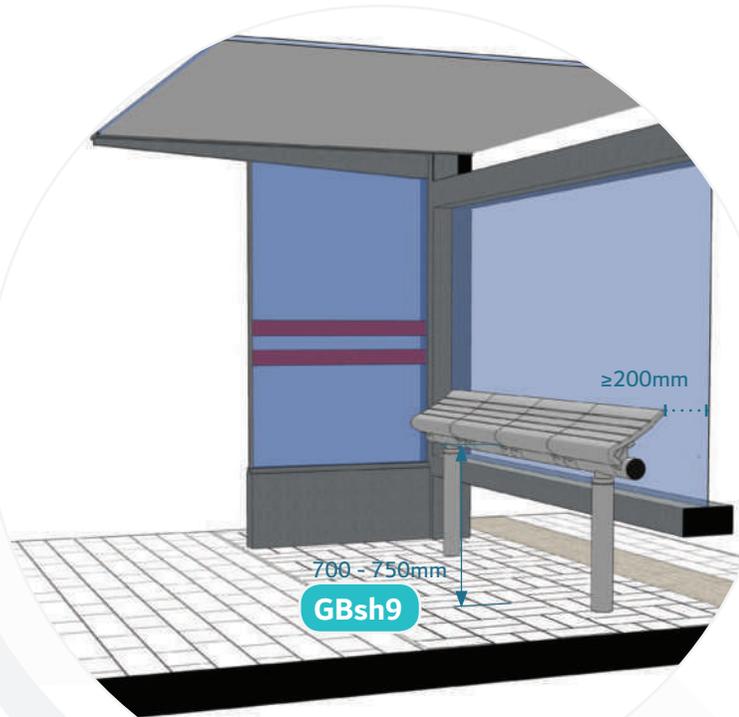


- GBsh3** Manoeuvring space ≥ 1500 mm diameter inside the shelter
- GBsh6** Glazed walls with indication and warning marks, if provided
- GBsh11** Boarding area platform with tactile warning surface

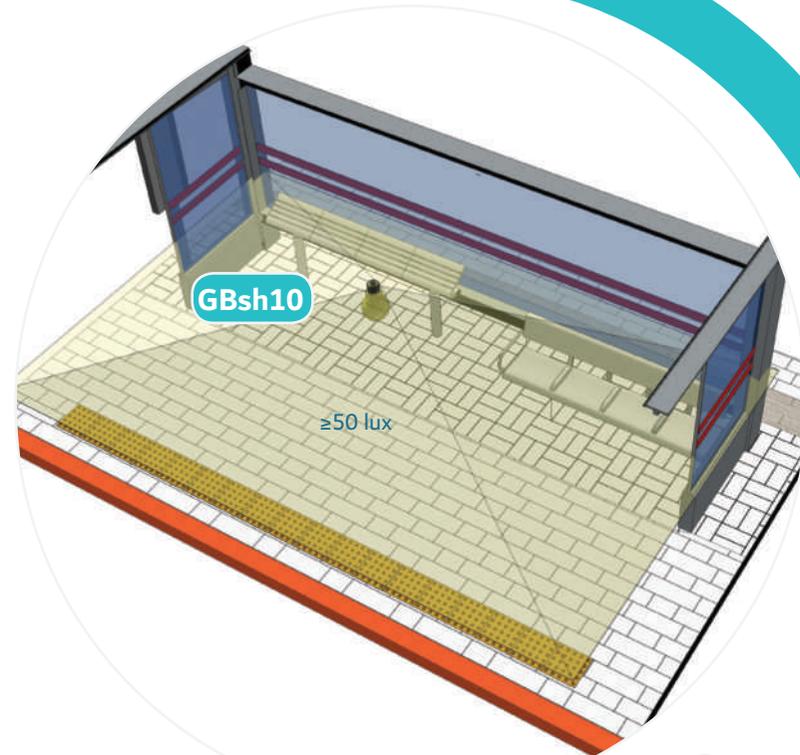


GBsh7 With fixed bench + seat height 400 - 460mm, depth from 400 - 450mm, backrest ≥ 400 mm

GBsh8 With armrest on one of its side



GBsh9



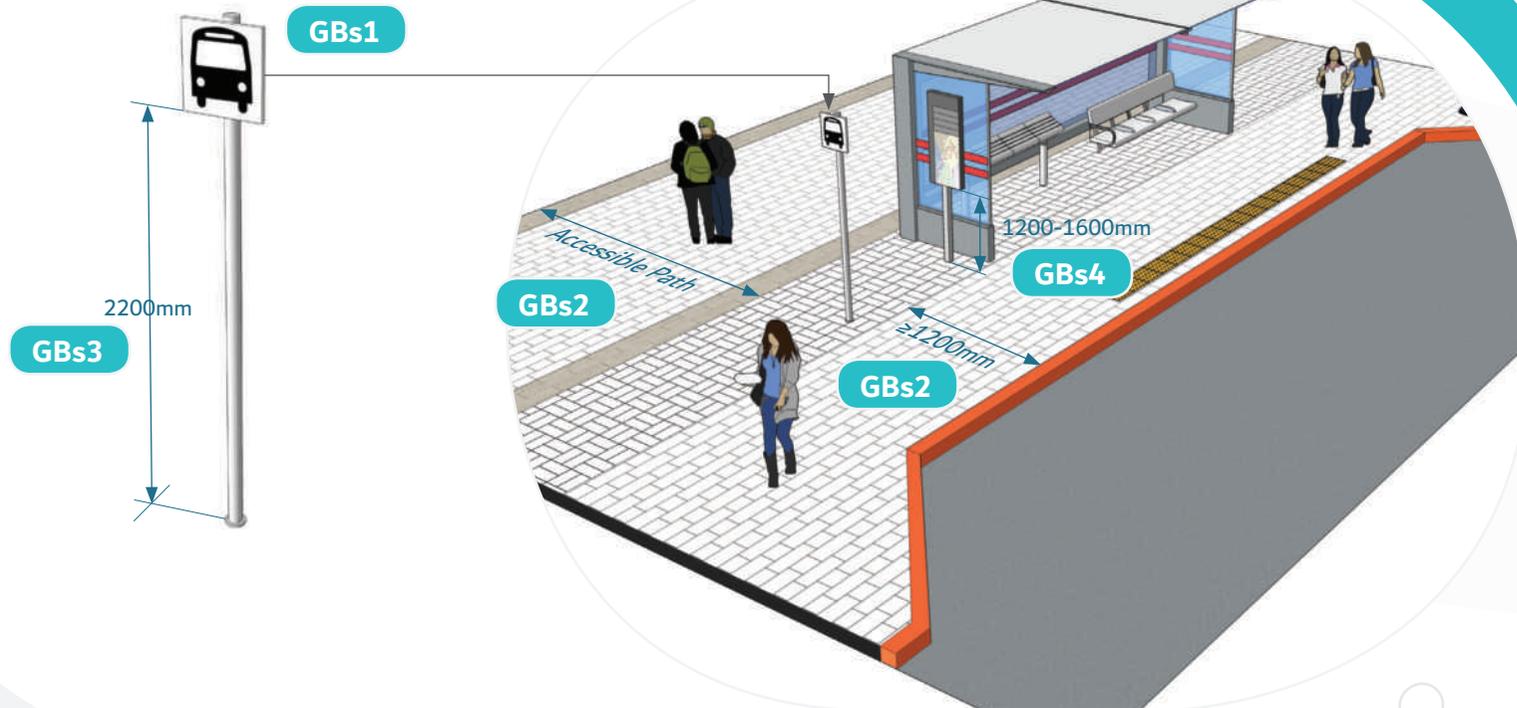
GBsh10

GBsh9

With standing support (perch seat) of height between 700 - 750mm and separated ≥ 200 mm from wall

GBsh10

Average illumination ≥ 50 lux, and ≥ 100 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

GBs General - Bus Signpost



GBs5

≥140mm 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



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

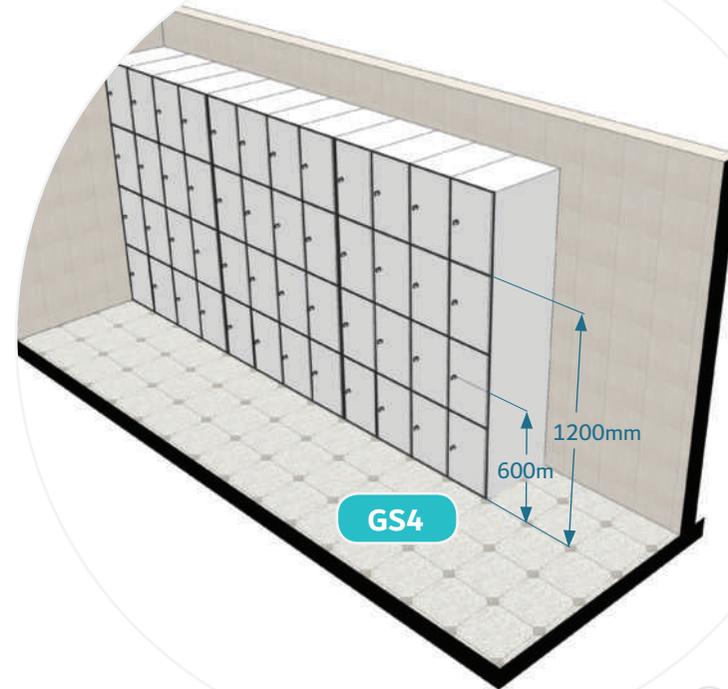
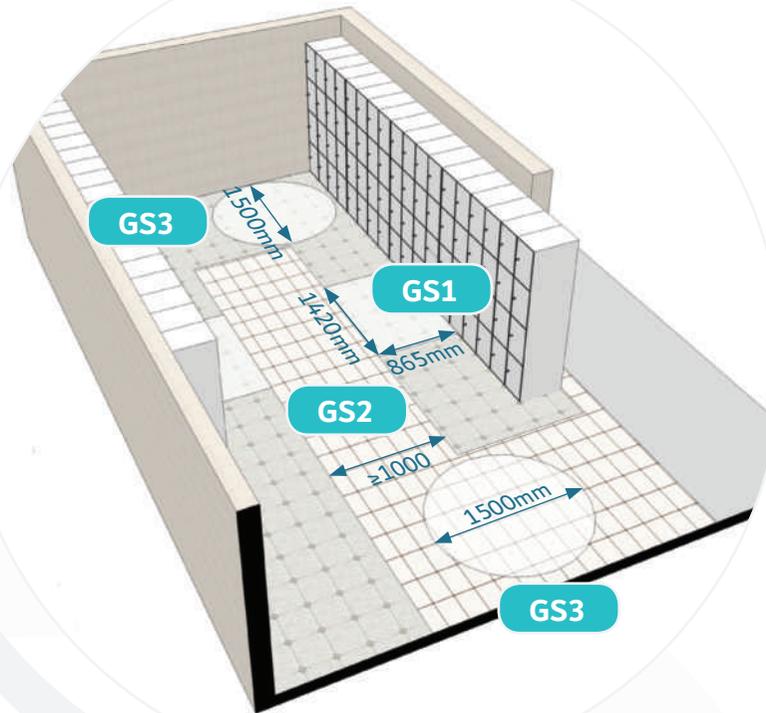
GAE9

Fire personnel and persons with activity limitation are trained to use evacuation devices



GGe1

In case of segregated use by gender, same level of accessibility for both genders

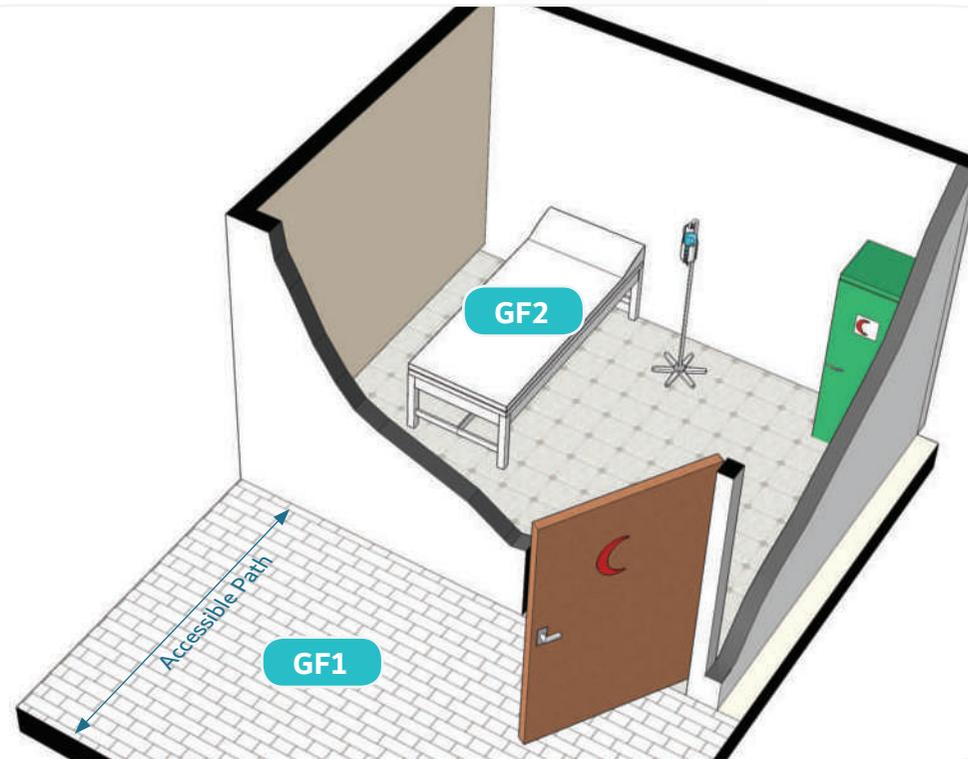


GS1 Approaching space 1420 x 865mm

GS2 Corridor width ≥ 1000 mm

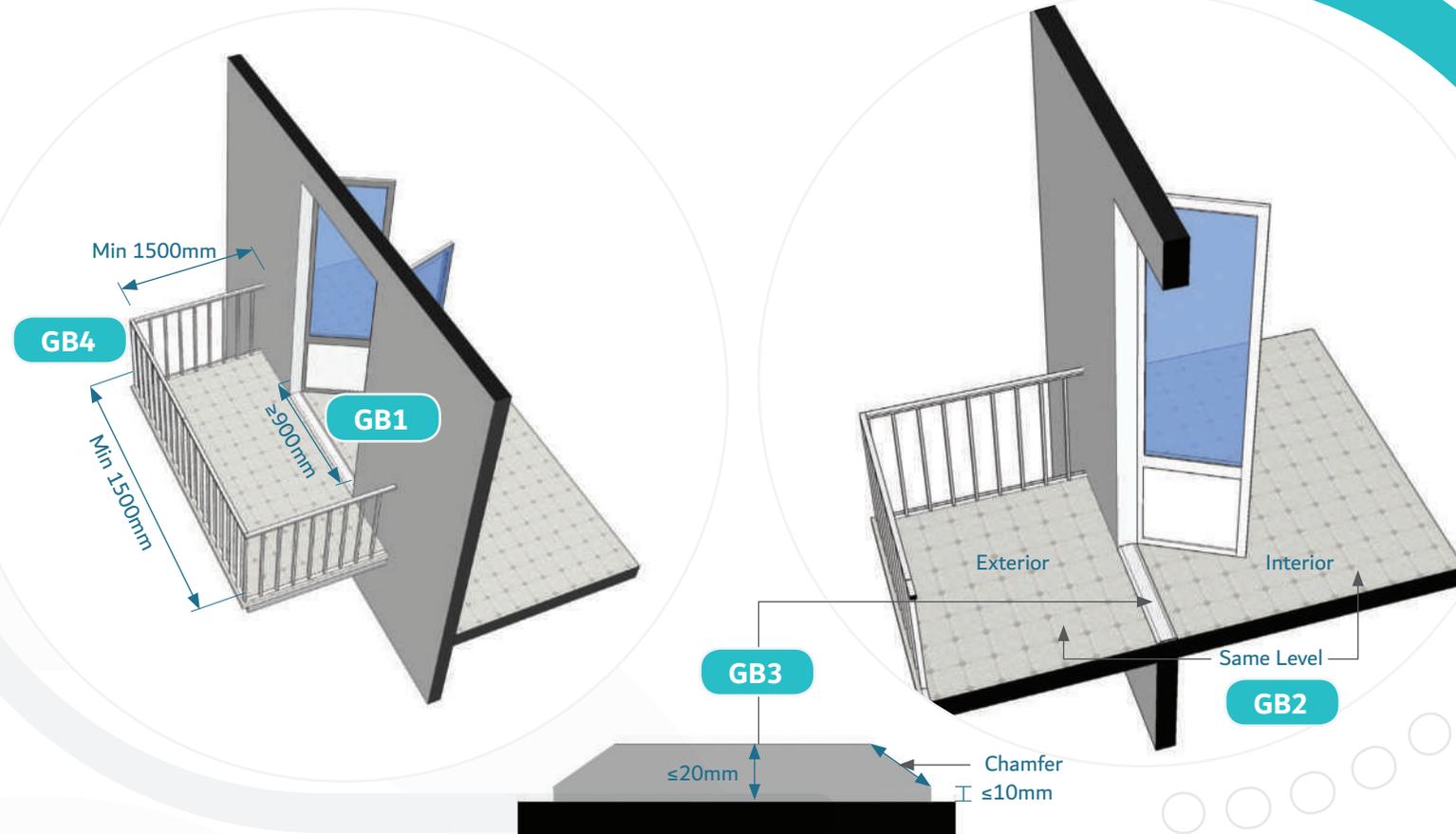
GS3 Maneuvering turning space 1500mm

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



GF1 With an accessible door and path to the treatment area

GF2 With adult changing table

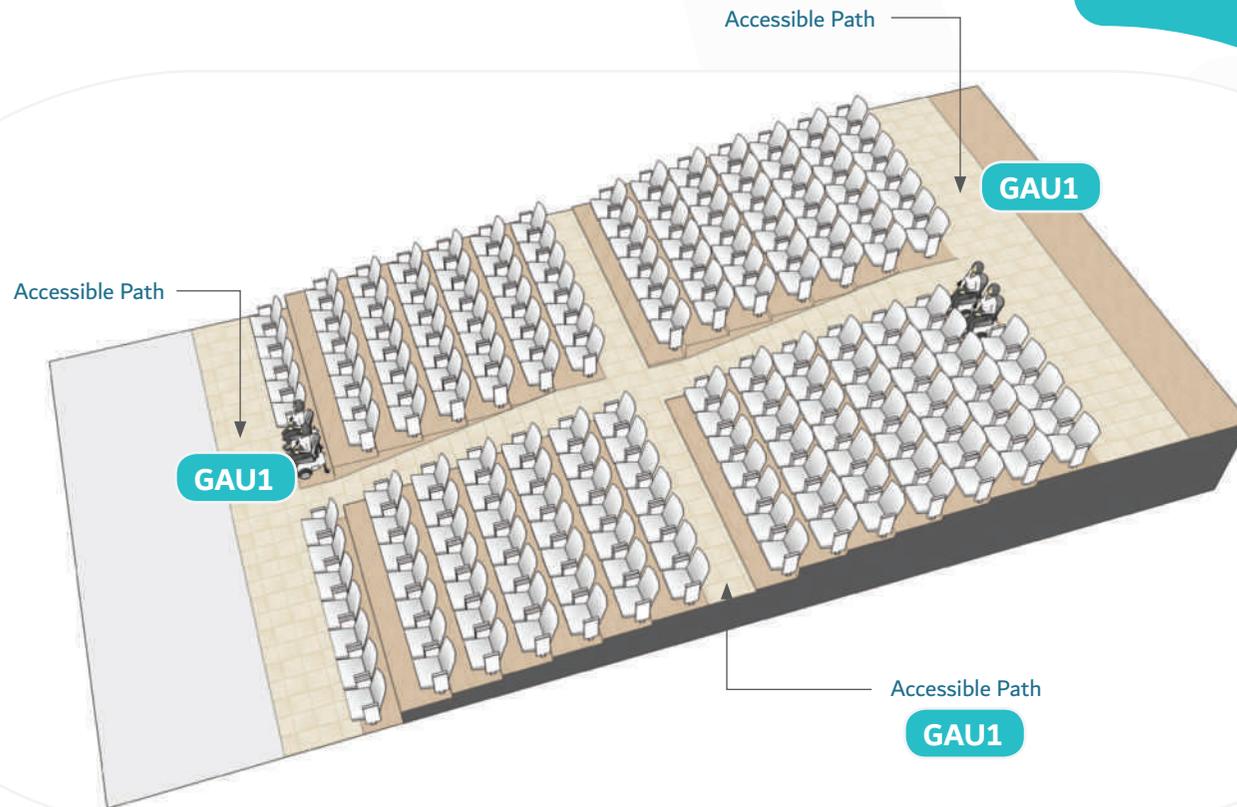


GB1 Door Width $\geq 900\text{mm}$

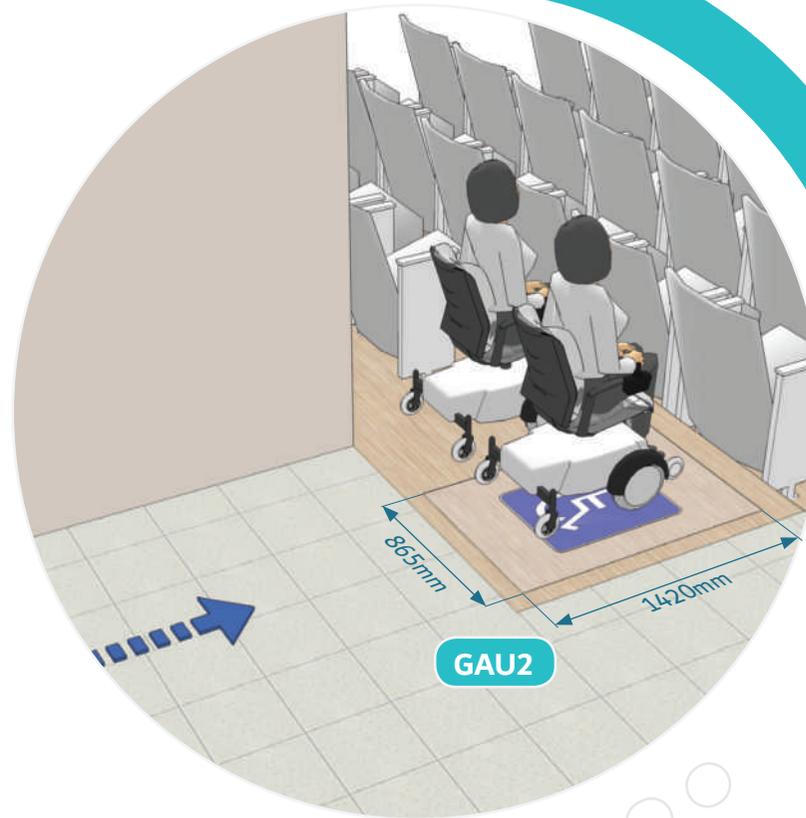
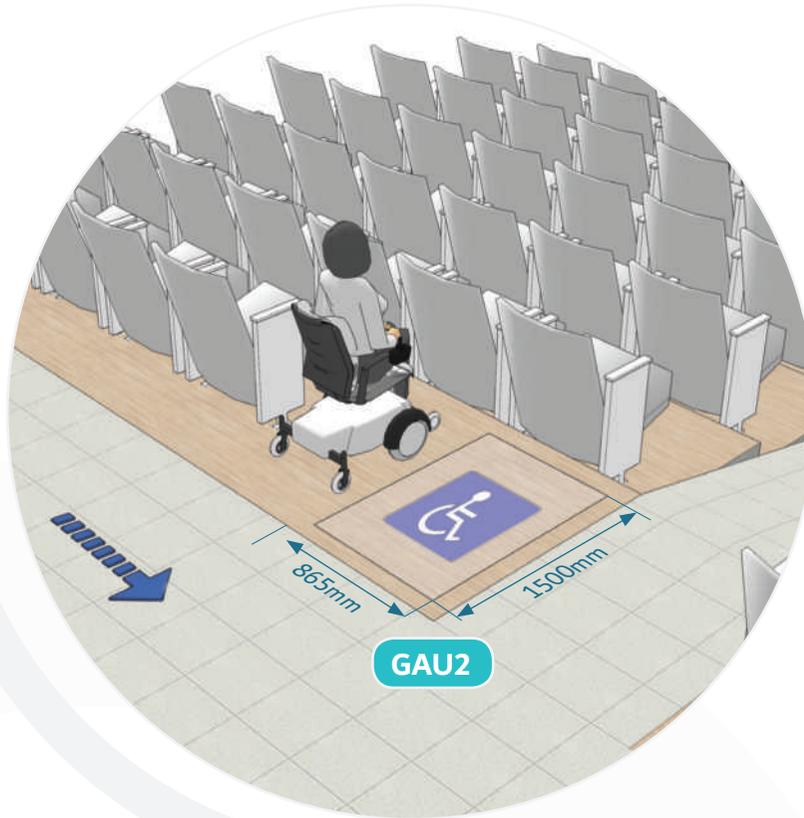
GB2 Balcony exterior and interior level are the same

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

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

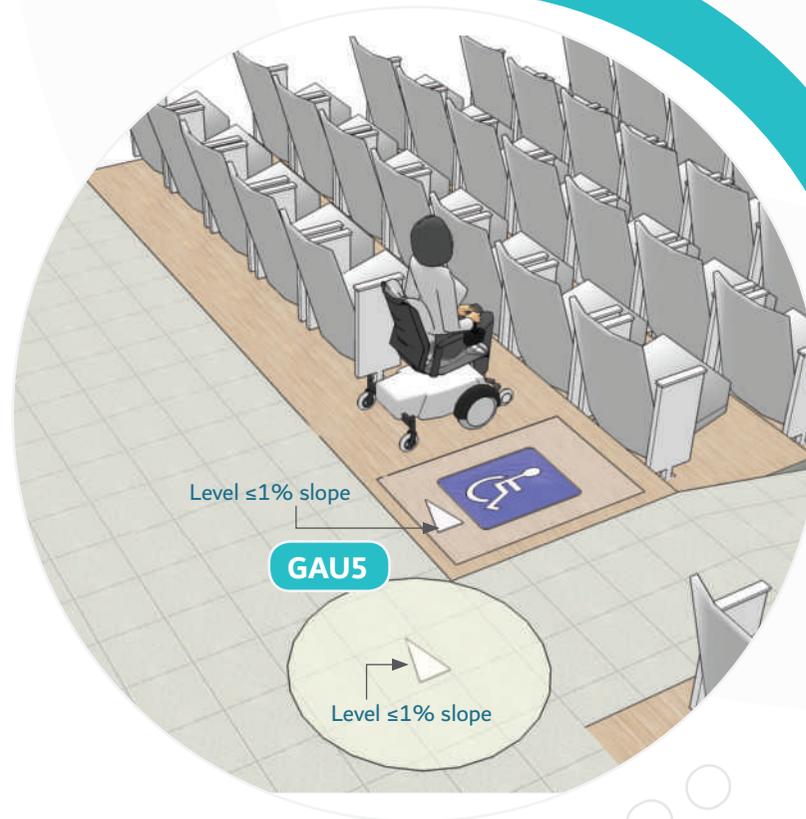
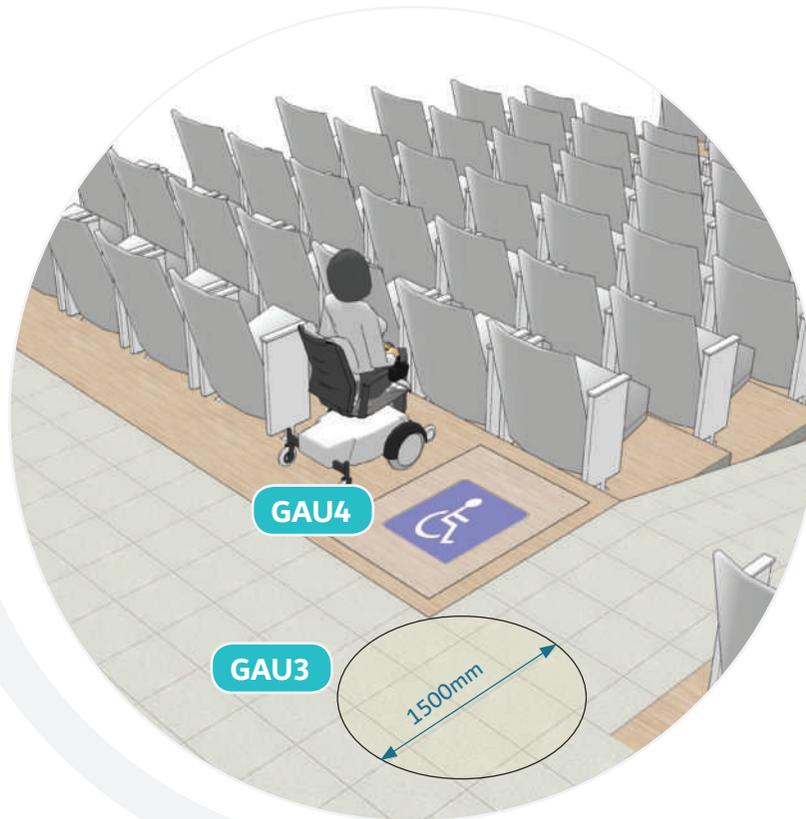
**GAU1**

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



GAU2

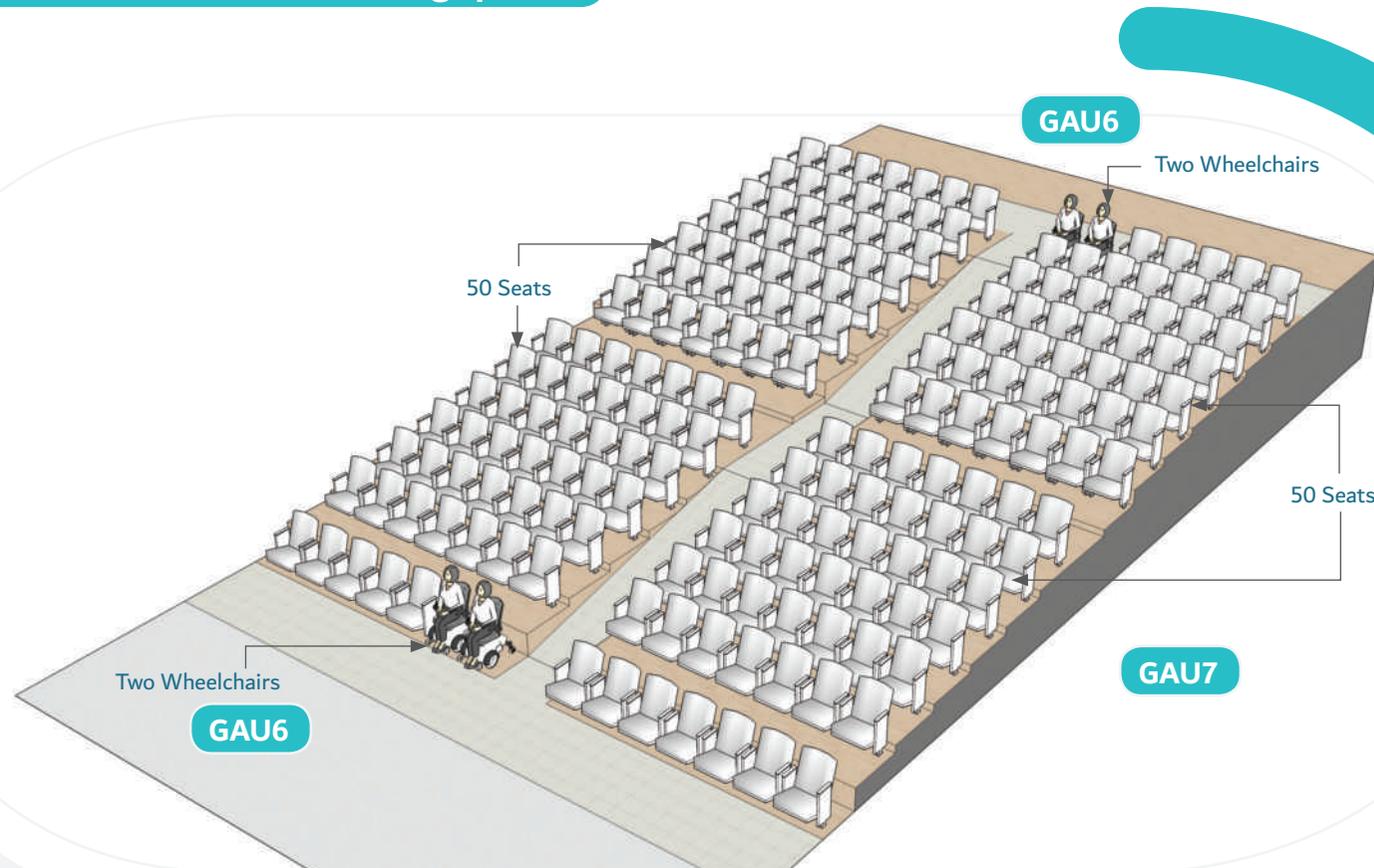
Dimension of wheelchair seating space 865 x 1420mm if frontally approached or 865 x 1500mm if laterally approached



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



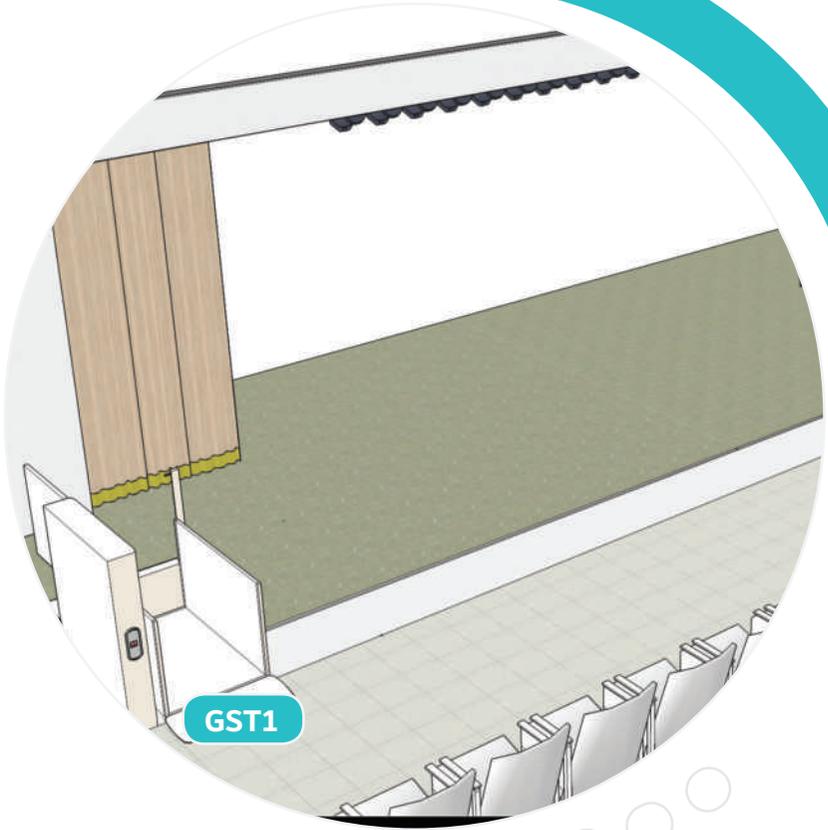
GAU8 Clearly visible space for sign language interpreter with overhead light

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

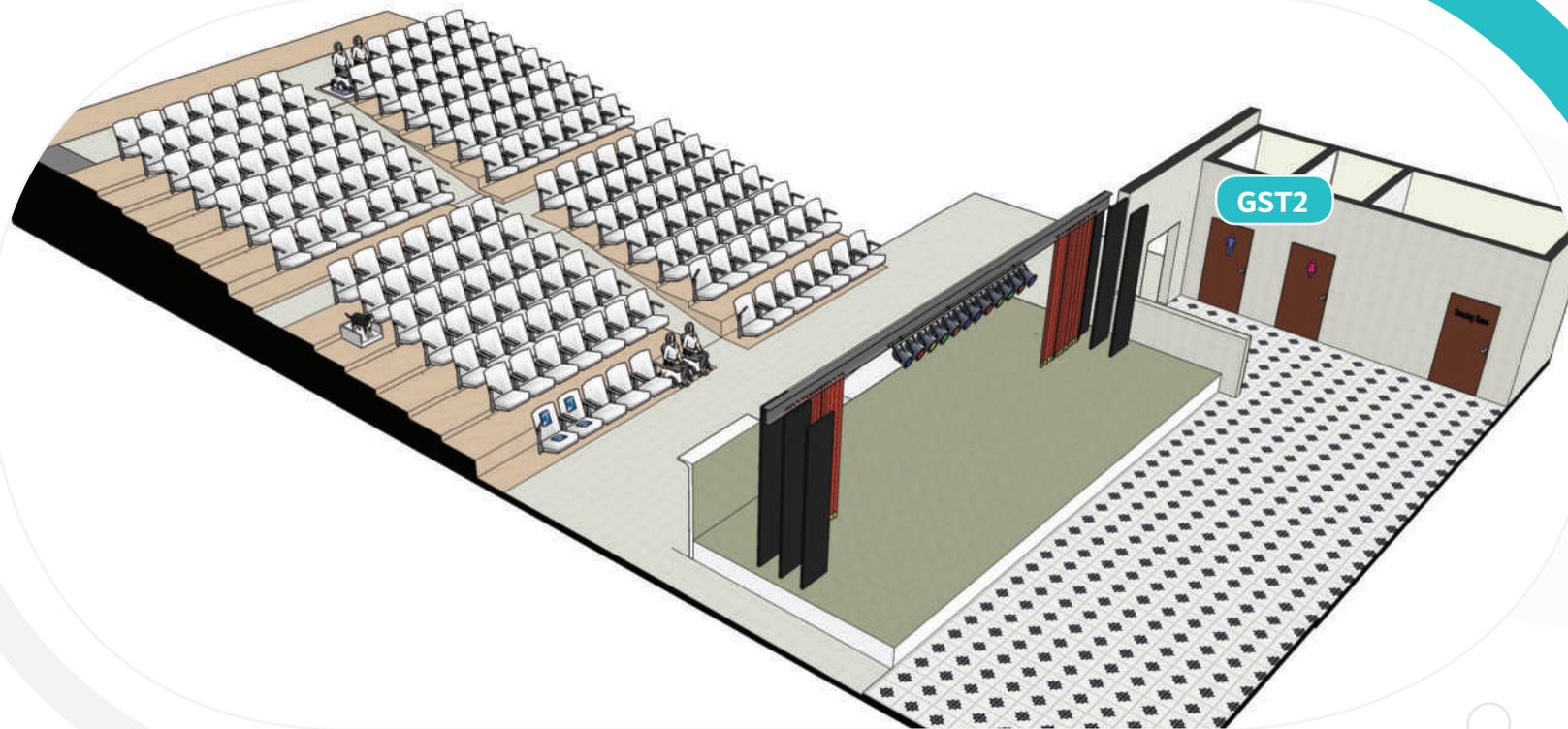
GAU10 Aisle seats and its adjacent have foldable armrests

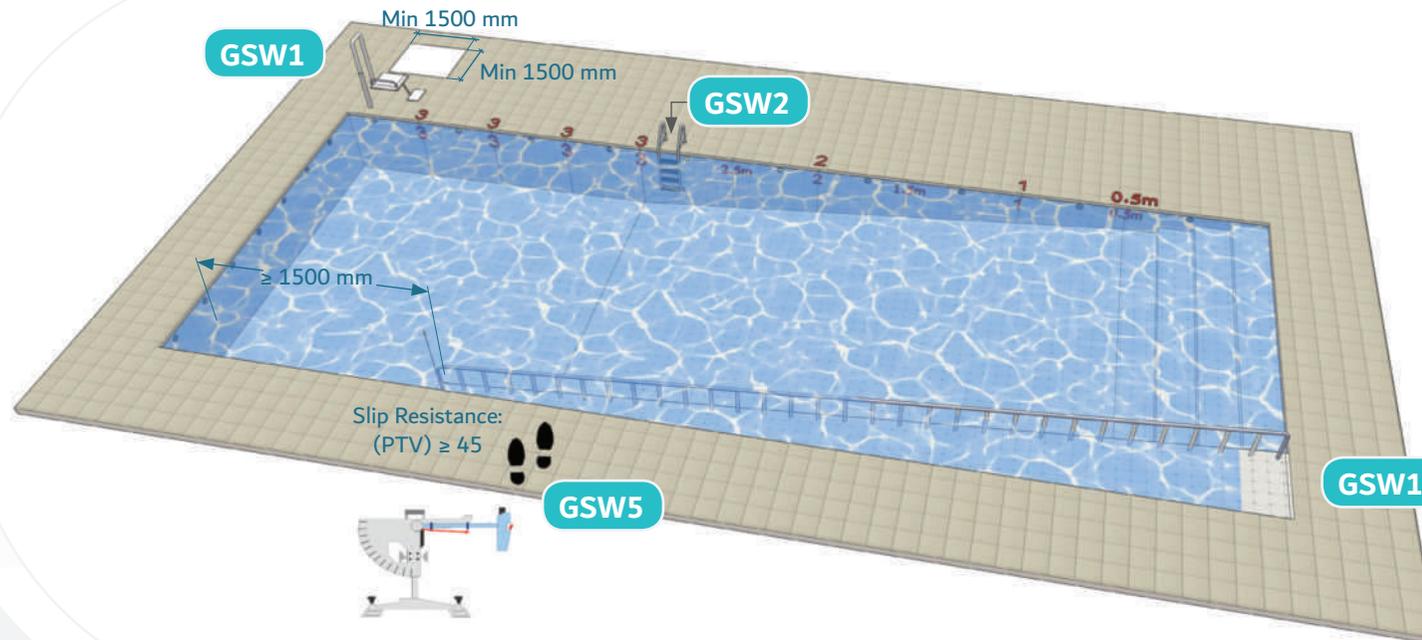
GAU11 Some seats have spaces to serve pets

GST General - Stage And Backstage



GST1 Stage is accessible via ramp or lift

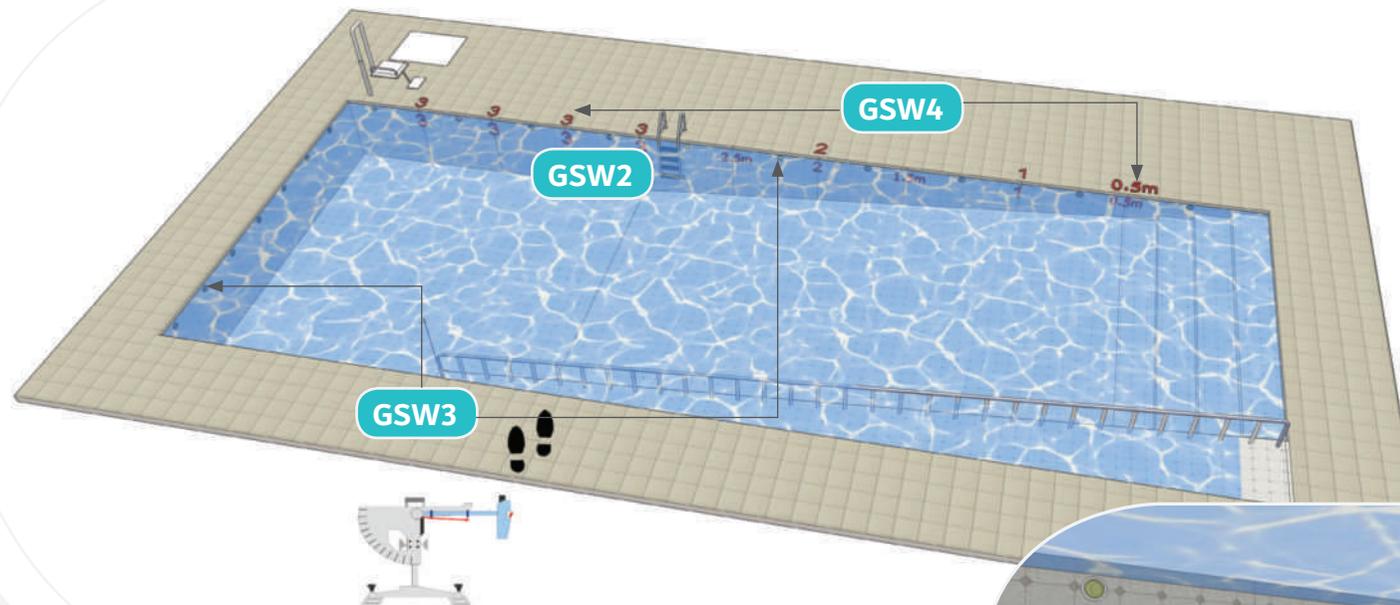




GSW1 With accessible entrance, chair lift, ramp or hoist

GSW2 With safety ladder

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

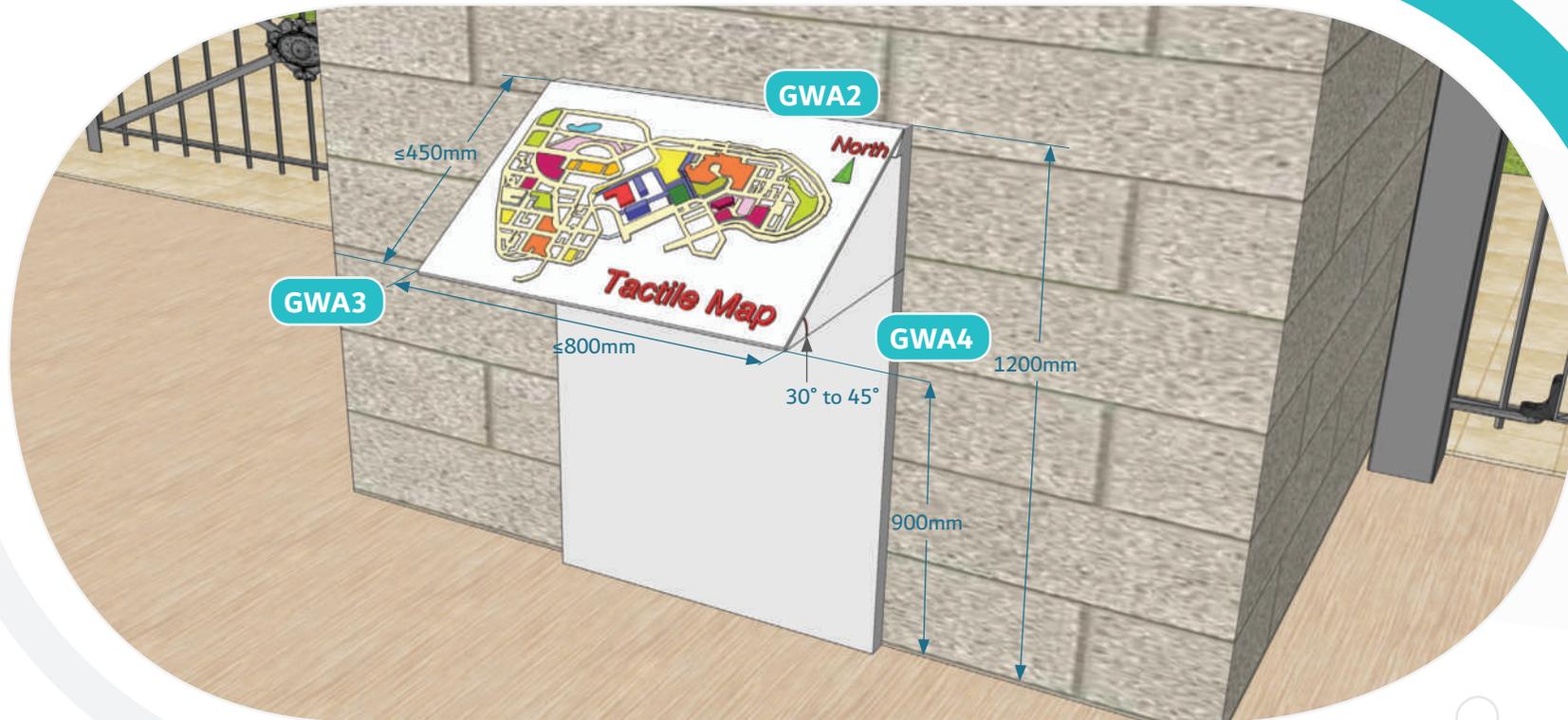


GSW3 With underwater illumination if night use is foreseen

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

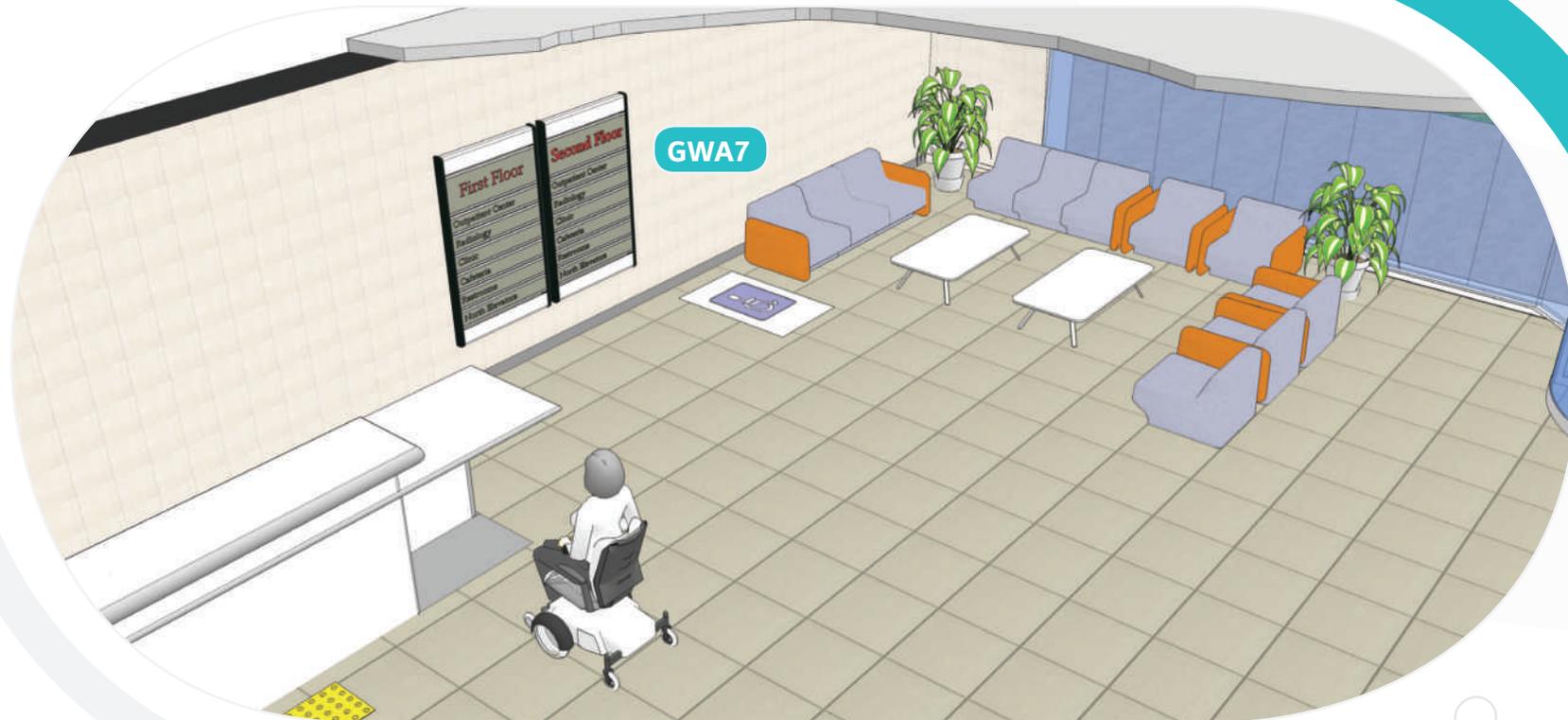
GWA3 Dimension of the tactile map $\leq 800 \times 450\text{mm}$ and the font size $>20\text{mm}$ San serif type

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



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

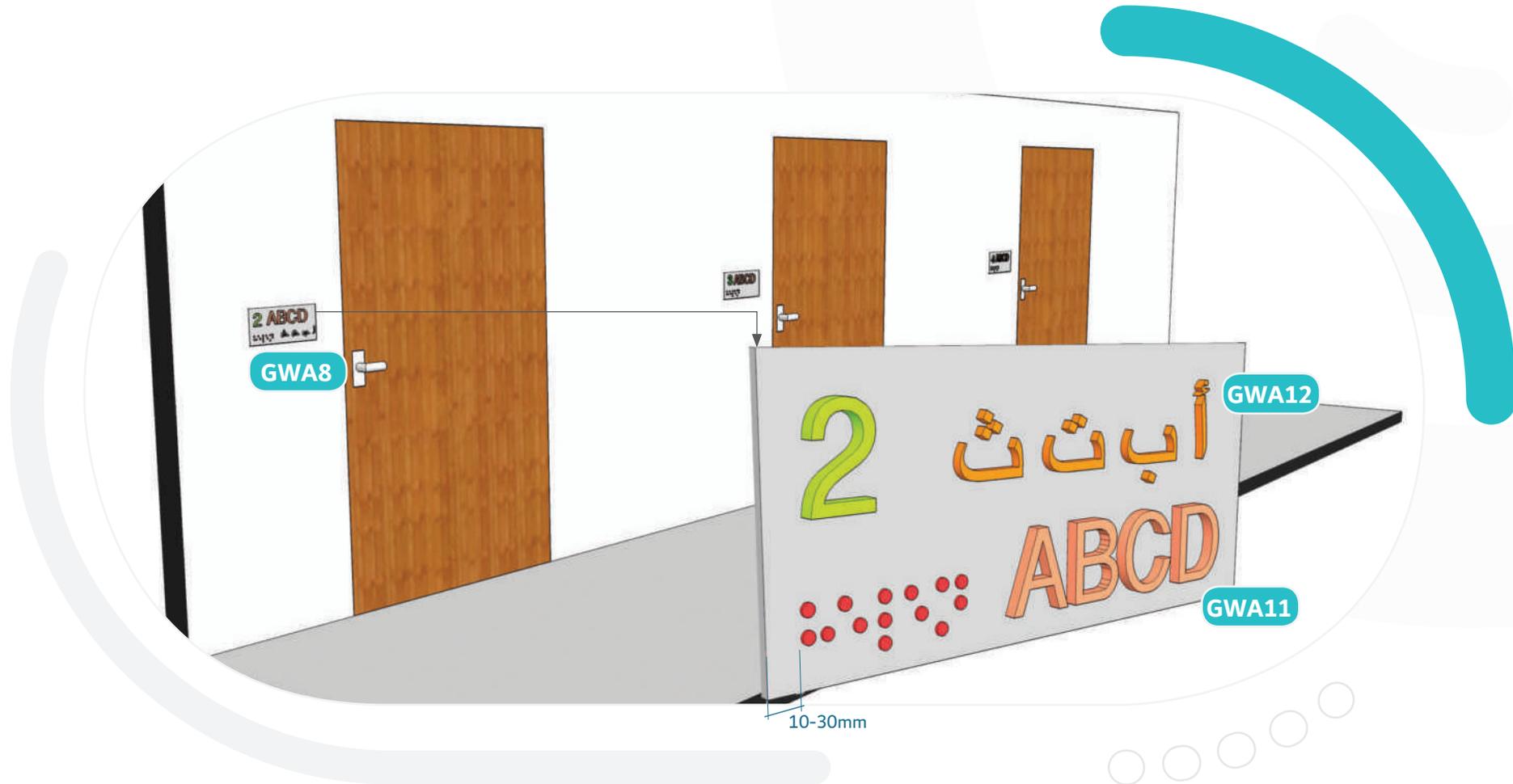
GWA13 Directional signs are simple, clearly visible, good shape and well organized with no duplicated information and with reflectance contrast ≥ 50 LRV



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



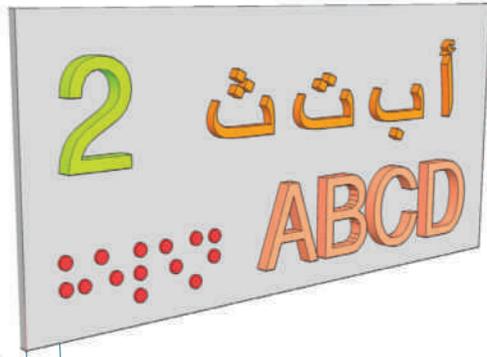
GWA10 In parks and open spaces orientation sign every 70 meters for nearest exit and nearest toilets



GWA8 All door frames with information signs in public buildings

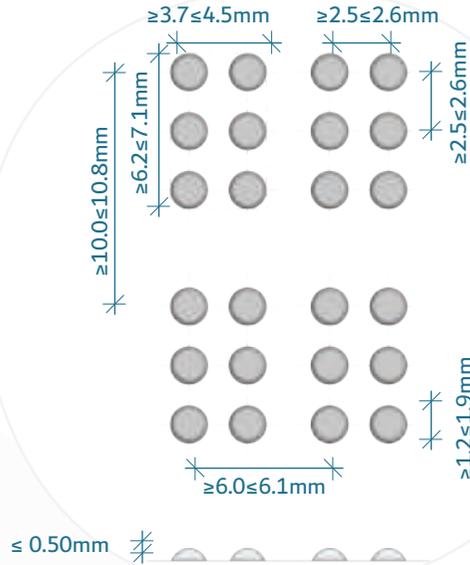
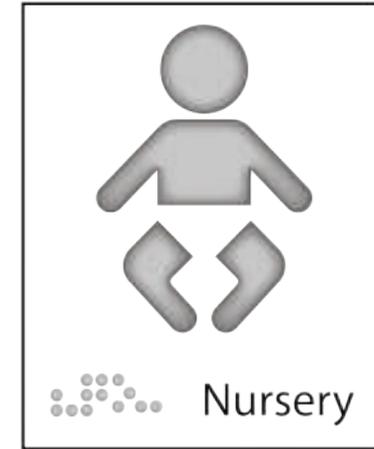
GWA11 Letters, numbers, symbols and pictographs are not glare and high reflectance contrast

GWA12 Includes both Arabic and English languages



10-30mm

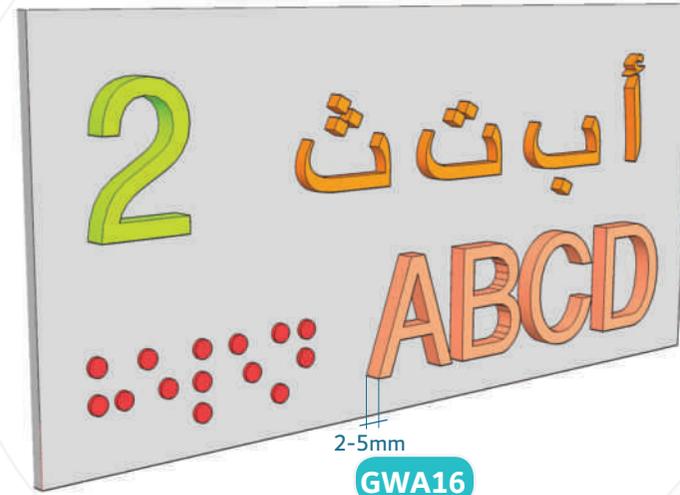
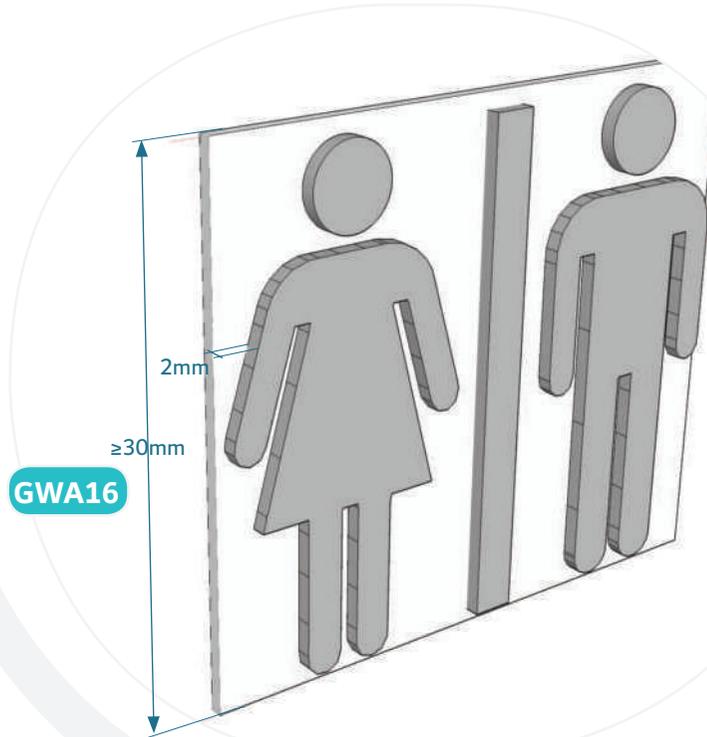
GWA14

 $\le 0.50 \text{ mm}$ 

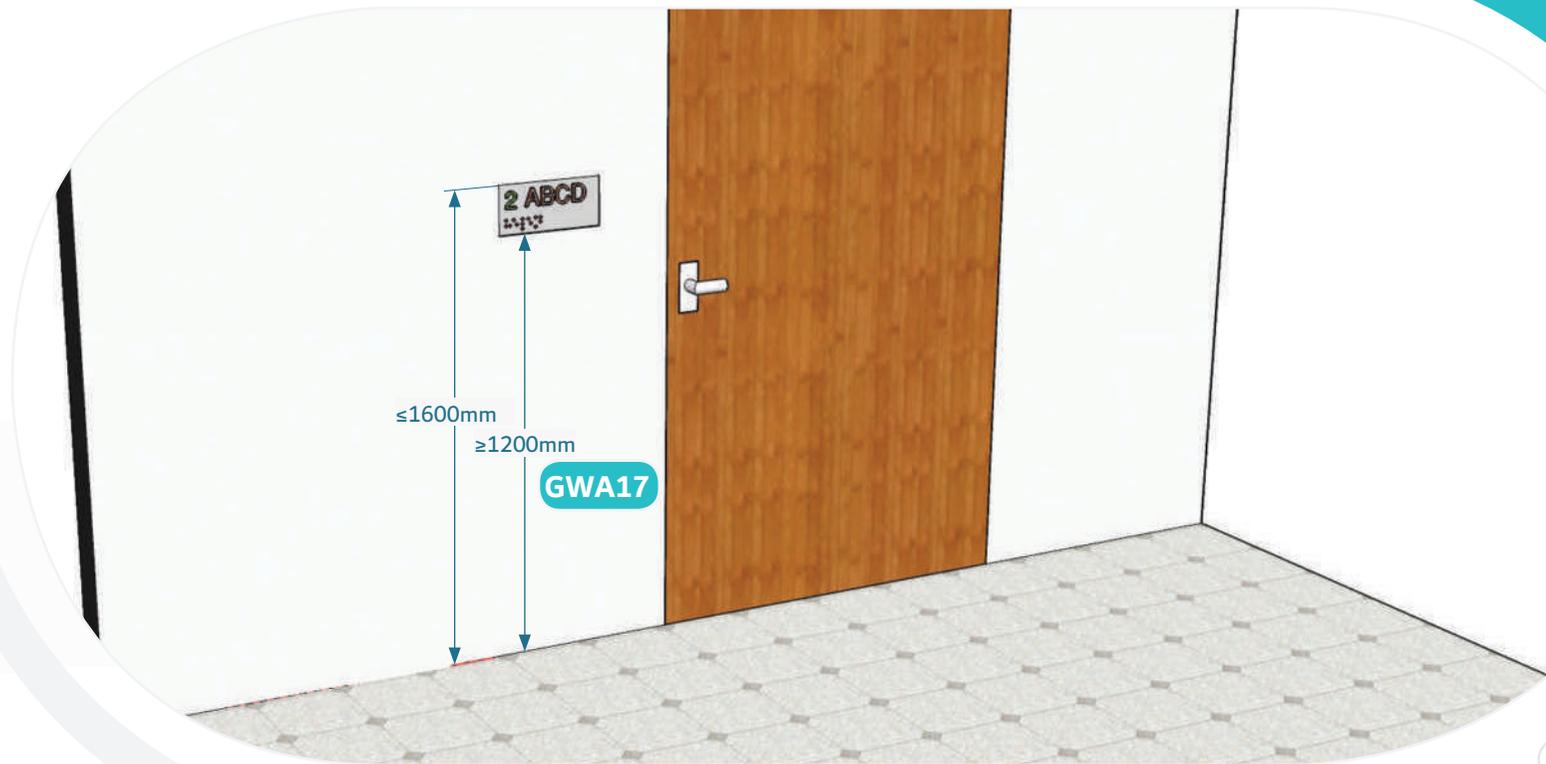
GWA15

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

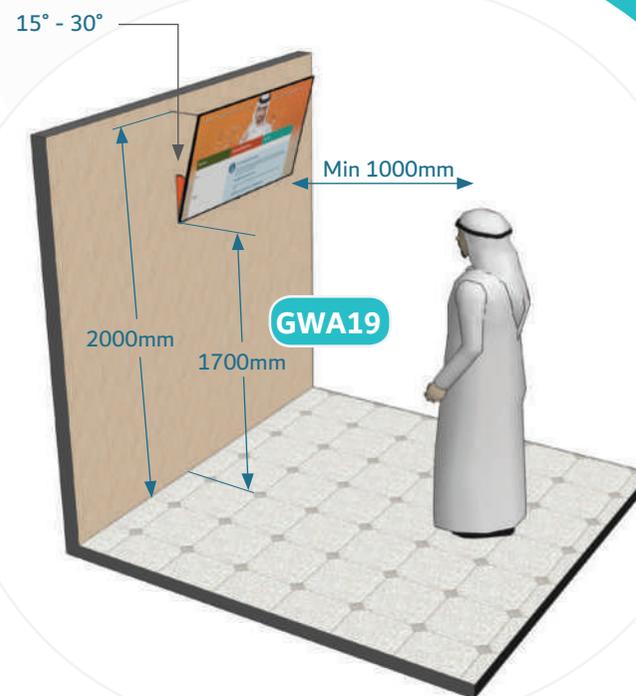
GWA15 Pictograms and symbols follow ISO 7000 : 2004 standards



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

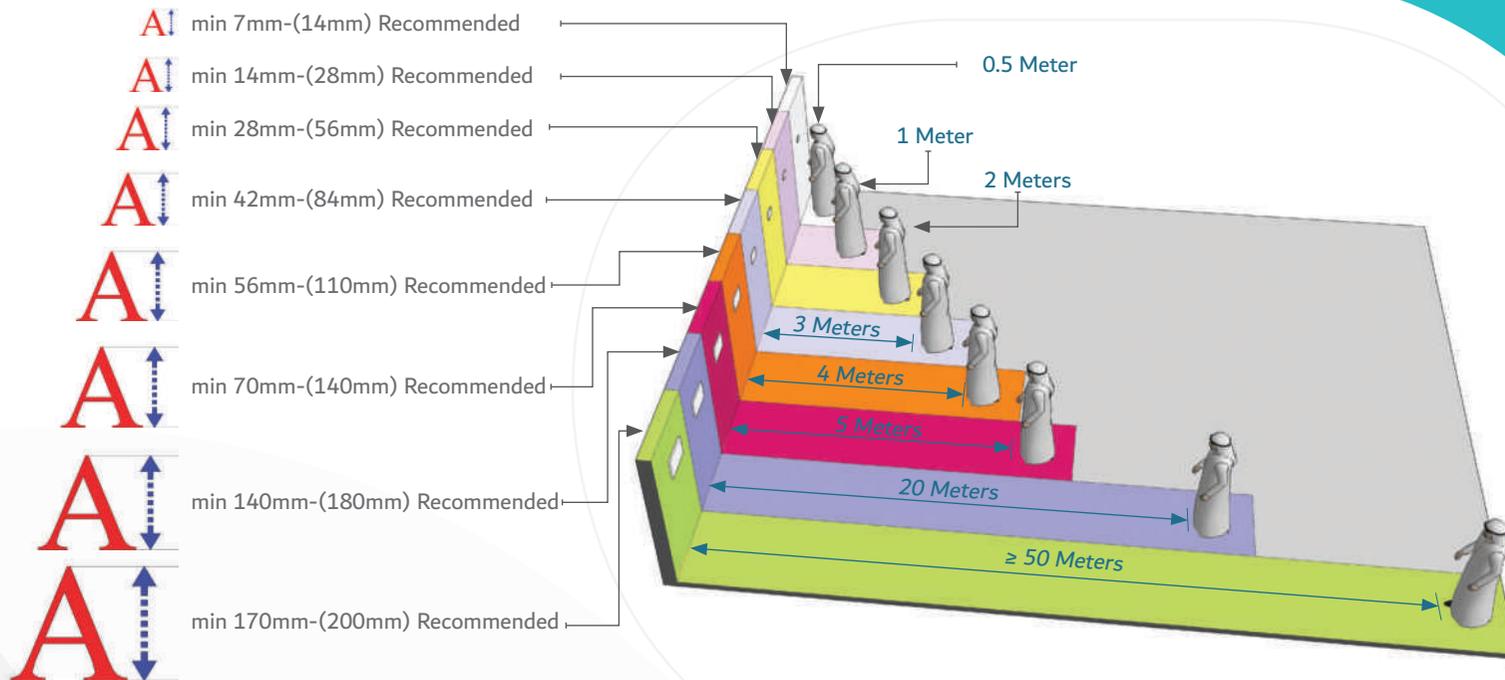


GWA17 Signs at walls located at height 1200 - 1600mm on the left side of the door



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

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

GWA20 Signs Font size according to reading distance



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



بلدية دبي
DUBAI MUNICIPALITY



بناء مدينة سعيدة ومستدامة
Developing a happy and sustainable city

800900
www.dm.gov.ae

@DubaiMunicipality

