

# MAUAP 2.0

## Measure of accessibility to urban infrastructures for adults with physical disabilities version 2.0

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# Introduction

## Theoretical conceptualization and development

The foundation of the MAUAP is based on the concepts of accessibility, of universal design and of the Human development model - Disability creation process (HDM-DCP).

- **Universal accessibility** aims at getting rid of the artificial, or built, restrictions to opportunities of use of the environment.<sup>1</sup> Building codes and other legislations related to accessibility for disabled persons are based on universal accessibility standards and recommendations.<sup>1</sup> Universal accessibility aims at being beneficial to individuals with incapacities. Hence, the goal is to create accessible environments which can include additions or adaptations.<sup>1</sup> An example would be the installation of a ramp at the entrance of a building.
- **Universal design** is an architectural concept which is not absolute and without predefined criteria, which principles can be adapted to each situation of use of the environment and which is not linked to legislative powers.<sup>1</sup> It is a process allowing diverse populations to improve their performance, their health, their well-being and their social participation. Universal design, although it is not part of a legal framework in Quebec, rests on a political process aiming at developing environments that are accessible to all, without the need for adaptations.<sup>1</sup> It includes seven principles: 1) equitable use, 2) flexibility in use, 3) simple and intuitive use, 4) perceptible information, 5) tolerance for error, 6) low physical effort, 7) size and space for approach and use.<sup>2</sup> An example would be the conception of a ground-level entrance to a building instead of a ramp.
- The **Human development model - Disability creation process** (HDM-DCP) maps out the interaction between personal factors (identity factors, organic systems, capabilities), environmental factors (social and physical, considered either as facilitators or obstacles at various scales (micro, meso, macro)) as well as life habits (daily activities and social roles).<sup>3</sup> This interaction can result in a handicap situation or social participation depending on the level of adequacy and of congruence between these factors. This nomenclature offers a common language for professionals of various domains.

It is therefore with these 3 concepts that the MAUAP has been developed. Since it is impossible to develop an environmental measure of existing environments respecting the principles of universal design, the concept of universal accessibility has been identified as adequate. If however possible, the principles of universal design should be respected when improving environments and the consideration of all users in this concept remain present in the MAUAP's labels. Finally, the HDM-DCP acts as a nomenclature, the vocabulary used ensures a uniformity in the terms used in the objective of facilitating exchanges with all types of individuals which can benefit from the use of this measure.

The criteria selection proposed in the MAUAP was done with different guides, recommendations and norms, from different countries. A compilation of gathered data in these tools has been done and applicable recommendations in a Canadian context answering the needs of individuals with physical disabilities the best have been selected. The Group CSA recommendations, which is a Canadian document, have been selected as the principal source of information since it is more representative of the possible progress in accessibility and in Canadian practices. Moreover, ISO recommendations, because of their influence since it is from an editor of controlled norms from a group of various experts, have also been used. Even so, all gathered data from other sources have been considered in the development of the MAUAP and have been added if the information was pertinent. The origin of the criteria or label is presented for each one of

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them, it is the exponent associated to the reference list for each section. It should also be noted that a particular attention has been given to recommendations from Nordic countries where climatic conditions are similar to ours in order to ensure the applicability of the criteria in our context.

## Users

This measure can be used by organizations, institutions, clinicians of the health sector, designers and managers of urban centres, researchers or anyone who wishes to ensure an equitable access to the built environment to people with physical disabilities.

The assessment of an environment using this measure should be associated with a planned improvement process of the environment. It is important to mention that the MAUAP should be used in a diligent manner by providing all the information collected to the parties concerned in order to offer solutions while avoiding the use of unanalyzed or undetailed ratings.

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### Description of the Measure of accessibility to urban infrastructures for adults with physical disabilities version 2.0

This measure enables the assessment of interior and exterior urban infrastructures “ideal” for people with physical disabilities (motor, visual, hearing) and this, in order to promote inclusion for all citizens. The urban infrastructures that can be assessed with the MAUAP are the following:

Exterior environment			Interior environment			
Group	Section	#	Group	Section	#	
Pedestrian infrastructures	1- Curb ramps/Curb cuts	1		7- Signage and outdoor access	11	
	2- Pedestrian crossing	3		8- Doors	12	
	3- Pedestrian signals	4		9- Security	16	
	4- Sidewalk and pedestrian path	5		10- Signage	18	
	5- Designated parking	7		11- Desks	21	
Parking	6- Parking meter, Ticket machine or Toll station	9		12- Tables and chairs	23	
				13- Accessible routes	25	
			Circulation	14- Walls	30	
				15- Obstacles	32	
				16- Staircase	33	
				17- Access ramp	36	
				18- Handrails and guardrails	38	
				19- Elevator	40	
				20- Platform lift	44	
				21- Manoeuvring devices	45	
				22- Equipment	Drinking fountain	46
					Automatic teller machine	46
				Telephone	48	
				Trashcans, bins, ashtrays	49	
Locker rooms and toilets				23- Locker rooms	50	
				24- Toilet, changing and shower stalls	52	
				25- Washrooms	58	
Learning and leisure facilities				26- Room and auditorium	64	
				27- Library and resource centre	65	
				28- Cafeteria	66	
				29- Accessible seats	67	

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The measure proposes assessment criteria of the built environment that are objective and measurable. Three levels of assessment are proposed:






- 1) The actual measure;
- 2) The compliance of the actual measure with regard to the proposed assessment criterion;
- 3) The observations and modifications (concerns, preferences, analysis of the overall situation) proposed by the rater.

At the end of the evaluation with the MAUAP 2.0, no global score is given to the infrastructure. It is the three levels of rating which allow the analysis of accessibility in its globality in order to facilitate the decision making process regarding planning solutions. Ruling on the level of accessibility therefore requires a certain level of reflection from the rater sustained by the cumulated data.

## Instructions

Once the element to be assessed has been determined, the rater should browse through the MAUAP 2.0 to identify all the relevant sections. In order to avoid repetitions and overload, each element is cited only once in the measure. Consequently, the user might have to consult different sections in order to cover all the desired elements to be measure. For example, to assess toilet stall(s), the rater should refer to the section “Washrooms”, but also to the sections “Door”, “Circulation”, etc.



The rater should also, beforehand, select the material that he will need to take measures. At the head of each section, on the right, there are pictograms representing the instruments necessary for measure taking per section. Here is their meaning:

	<b>Stopwatch</b>		<b>Level</b>		<b>Luxmeter</b>		<b>Measuring wheel</b>		<b>Measuring tape</b>		<b>Sonometer</b>		<b>Thermometer</b>
Time		Inclines		Light		Distances		Distances		Level of acoustic pressure		Temperature	

Here is how to complete the assessment:

- 1- Have in hand the sections and the necessary material to perform the assessment;
- 2- Take the actual measure of the elements presented in the assessment criteria and write them down in the box “Actual measures”;

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- 3- Determine the accessibility level by ticking “Compliant”  or “Non-Compliant”  with regard to the proposed criteria;
- 4- Indicate in the box “Observations and modifications” your analysis of the accessibility situation and what could be done to make the environment more accessible, whether they are minor or major modifications.
  - Some characteristics cannot be assessed through direct observation (e.g. outdoor lighting during the day, or intensity of an alarm). In this case, the assessor should consult the staff to obtain the missing data.
  - Please note that the turning and approach areas (manoeuvring area free and level) proposed in the MAUAP consider scooter users in the perspective of circulation on long distances, hence outside. According to the Ministry of Health and Social Services<sup>4</sup>, it should be considered that people using a scooter have a certain walking capacity allowing them to access the environment (principle for scooters’ assignment: capacity to do transfers autonomously, severe walking disability on a distance of more or less 30 meters). The MAUAP proposes a free and level area for circulation of  $\geq 1700\text{mm}$  in diameter outside because it allows access to users of manual or motorized wheelchairs as well as scooter users. It also proposes a diameter of  $\geq 1500\text{mm}$  inside which allows access to users of manual or motorized wheelchairs and considers the characteristics of scooter users mentioned above. However, please note that it is suggested to have a dimension of  $\geq 1700\text{mm}$  inside. This dimension goes far beyond building standards in force, but would favour a better interior access to scooter users.
  - When a free manoeuvring area is required in front of an equipment (e.g. telephone, elevator), this area should have its central point aligned with the commands of the assessed structure (buttons) (excluding the area in front of a door). The assessed structure should not be part of the manoeuvring area. Please also note that, if the clearance height allows it, the free area under a counter can be part of the free manoeuvring area. Where removable furniture can be found in the free manoeuvring area, record it under the section “Observations and modifications”, but consider that the manoeuvring area is properly free only if the furniture can be moved by a single person. Also consider that people with a visual disability tend to walk close to walls. If an object protrudes on a place where a person might circulate, please record it as an obstacle.
  - As far as the presence of Braille signage is concerned, it would be preferable to use standardized French Braille.

To measure the height of environmental elements, make sure to always take the measure from the ground accessible for a wheelchair user. For instance, for a parking meter placed on a raised grass edge without access to a sidewalk, the height of the control buttons of the latter should be measured from the asphalt of the parking space and not from the raised grass edge.

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### Glossary :

- Access ramp : Inclined surface that facilitates access from a level to another.
- Back light : Lighting of an object receiving light from the opposite side to the one from which we look at it.
- Curb cut or curb ramp : Lowering of the sidewalk at intersections to go from the sidewalk to the street and which is round to allow the two perpendicular sidewalk segments to meet.
- Disability : A disability corresponds to a degree of anatomical, histological or physiological impairment of an organic system which is an ensemble of body components working for a common function.<sup>3</sup>
- Drop off area : Space allowing individuals to get out of their vehicle. The equivalent used in the « Guide pratique d'accessibilité universelle » in section 13 is lateral manoeuvring area of the designated space.
- Guardrail : Vertical architectural element installed along stairs, ramps, landings or mezzanines, to avoid falls.
- Gyration area (manoeuvring area) : Free space in which it is possible to turn completely on oneself (including wheelchair and other mobility aid users) and which allows one to do a U-turn.
- Handrail : Continuous surface used to maintain the hand in stairs, ramps, landings or mezzanines, to allow a solid and safe grip.
- Nosing : Protruding part of a step, being the protrusion with regard to the vertical with the riser.
- Pedestrian path : Circulation space accessible to pedestrians and city and authorities maintenance vehicles, such as a path at the entrance of a park or leading to a stream.
- Pictogram : Stylized figurative drawing allowing the expression of an idea, a concept.
- Riser : Vertical surface between two steps, between a step and the floor or a stair landing.
- Serif : In typography, serif represents the small perpendicular lines at the extremities of a letter (example under the vertical line of the « f »). Here is an example : Serif, Sans serif.
- Teletypewriter : Telecommunication device for deaf individuals or partially deaf individuals allowing communication by writing messages on a keypad.
- Ticket machine : Equipment for the payment of parking. It is generally implanted to control out of the street parking and emits, during payment, a ticket that the user needs to put in his/her vehicle.
- Toll station : Equipment for the payment of a parking. It is generally situated on the street and replaces a parking meter.
- Visual contrast : Visual contrast is the difference in light reflection value (LRV) between two adjoining surfaces. Recent research demonstrate that signage is more visible for individuals with visual disabilities when the figure-ground contrast is of 70% (Black = 0%. White = 100%). (see **Contrast, in percentage between different named colours** page ix)

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### Slope calculation

Measure the angle of the slope with a level (inclinometer):

#### Curb ramps:

- Cross slope: Surface linking the sidewalks to the curb ramp (device flat on the surface at the edge of the street)
- Running slope: Surface between the interior (towards the grass or the buildings) and exterior (towards the street) edges of the curb ramp (device in the centre of the arch of the curb ramp).

#### Sidewalk, pedestrian path or access ramp:

- Cross slope: Surface between the interior and exterior edges (device perpendicular to the circulation axis on the surface).
- Running slope: Surface in the direction of circulation (device in the same direction as pedestrian circulation on the surface).

In any case, many measures should be taken on the entire incline, and, in the same proposed orientation, in order to determine the highest angle. The latter is in fact the measure to retain for rating.

Conversion table of the slope ratio in degrees and in percentage						
Ratio	Degrees	Percentage	Ratio	Degrees	Percentage	
1:111	0.52	0.90	1:17	3.37	5.88	
1:100	0.57	1.00	1:16	3.58	6.25	
1:90	0.64	1.11	1:15	3.81	6.67	
1:83	0.69	1.20	1:14	4.09	7.14	
1:80	0.72	1.25	1:13	4.40	7.69	
1:70	0.82	1.43	1:12	4.76	8.33	
1:60	0.95	1.67	1:11	5.19	9.09	
1:50	1.15	2.00	1:10	5.71	10.00	
1:45	1.27	2.22	1:9	6.34	11.11	
1:40	1.43	2.50	1:8	7.13	12.50	
1:35	1.64	2.86	1:7	8.13	14.29	
1:30	1.91	3.33	1:6	9.46	16.67	
1:25	2.29	4.00	1:5	11.31	20.00	
1:20	2.86	5.00	1:4	14.04	25.00	
1:19	3.01	5.26	1:3	18.43	33.33	
1:18	3.18	5.56	1:2	26.57	50.00	

\*\*\* A slope of 1:50 is less inclined than a slope of 1:40.



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## Contrast, in percentage between different named colours<sup>5</sup>

### 8.2. Use of colour/contrast (continued)

**Table 2:** Contrast, in percentage, between various named colours

Table 2 presents contrast, in percentage, between various named colours. In the case of previously painted surfaces, the use of a photometer is recommended in order to accurately measure the reflective index of the light of the colours present.

	Beige	White	Grey	Black	Brown	Pink	Purple	Green	Orange	Blue	Yellow	Red
Red	78	84	32	38	7	57	28	24	62	13	82	0
Yellow	14	16	73	89	80	58	75	76	52	79	0	
Blue	75	82	21	47	7	50	17	12	56	0		
Orange	44	60	44	76	59	12	47	50	0			
Green	72	80	11	53	18	43	6	0				
Purple	70	79	5	56	22	40	0					
Pink	51	65	37	73	53	0						
Brown	77	84	26	43	0							
Black	87	91	58	0								
Grey	69	78	0									
White	28	0										
Beige	0											

do not use  
 acceptable  
 borderline case

Derived from Arthur, P. (1988). *Orientation et points de repère dans les édifices publics, Survol*, p.84.

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# 1. Pedestrian infrastructures – Curb ramps/Curb cuts



#	Elements	Components	Criteria	Actual measures	Absent	Compliance		Observations and modifications
1.	Surface	Ground	Level, continuous and slip-resistant even if wet <sup>1</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
2.		Obstacles	No unevenness nor hole in front			<input type="checkbox"/>	<input type="checkbox"/>	
3.		Joints	Type: saw cuts <sup>1</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
4.		Alignment	With the unimpeded pedestrian corridor on the sidewalk and guiding pedestrians to their reserved circulation area <sup>1, 2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
5.	Landing (top)	Depth	≥ 1200mm <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
6.	Transition	At the centre	Running length ≥ 1500mm <sup>1, 3</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
7.	Running slope		$\leq 6.66\%$ (1:15) <sup>2</sup> <ul style="list-style-type: none"> <li>Where the curb ramp has flared sides: 6.66-10% (1:15-1:10)<sup>2</sup></li> </ul>			<input type="checkbox"/>	<input type="checkbox"/>	
8.	Cross slopes		<ul style="list-style-type: none"> <li>At junctions: &lt; 2% (1:50)<sup>2</sup></li> <li>Where pedestrians are likely to work across the curb ramp: &lt; 5% (1:20)<sup>2</sup></li> <li>At smooth transitions: &lt; 5% (1:20)<sup>2</sup></li> </ul>			<input type="checkbox"/>	<input type="checkbox"/>	
9.		Where there is a counterslope > 11% (sideways)	Transition starting at the ramp base and running over the entire width (sideways) on a distance ≥ 600mm in a street <sup>2</sup> and with a counterslope ≤ 2% (1:50) <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
10.	Curb cut width	Excluding flare sides	1200-1500mm <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
11.	Edge (lip)	Shape	Bevelled or round <sup>1</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
12.		Height	≤ 20mm <sup>4</sup> with the pavement (≤ 13mm ideally) without being reduced to 0 to remain detectable <sup>1</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
13.		Marking	Motif of contrasting colours (≥ 70%), decorative strip or granite curb <sup>1</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
14.		Distance between 2 lowerings	> 2500m <sup>5, 6</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
15.	Tactile tiles	Distance from the edge	150-200mm <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
16.		Length	600-650mm <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
17.	Lighting		Directed toward the curb ramp or cut: ≥ 50 lux			<input type="checkbox"/>	<input type="checkbox"/>	
18.	Obstacles	Distance	≥ 900mm <sup>7</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
19.	Bollards (if any)	Location	On both sides of the roadway <sup>7</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
20.		Width	≥ 1400mm <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
21.		Height	1200mm <sup>7</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
22.		Contrast	Contrasting top (≥ 70%) <sup>7</sup>			<input type="checkbox"/>	<input type="checkbox"/>	

# 1. Pedestrian infrastructures – Curb ramps/Curb cuts



23.		Chains	Bollards should not be linked with chains <sup>8,9</sup>			<input type="checkbox"/>	<input type="checkbox"/>
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## 2. Pedestrian infrastructures – Pedestrian crossing



### Additional Information

- Specific configurations rendering crossing difficult require special considerations to increase their accessibility: Intersections with an angle different from 90°, roundabouts, T junctions or misaligned intersections, intersections with traffic islands, median strips, high radii of curvature, extremely wide streets (possibility of deviating from the walking path), intersections with particular traffic patterns (high traffic that turns at corners and low traffic on one of the approaches).<sup>1</sup>
- Limit the length of pedestrian crossings<sup>1</sup>
- Favor pedestrian crossings that run in a straight-line<sup>1</sup>
- Narrow the roadway at intersections with curb extensions: To protect pedestrians (reduced crossing distance), give them a safe waiting area from which increases they can see and be seen before they start crossing.<sup>2</sup>

#	Elements	Components	Criteria	Actual measures	Absent	Compliance		Observations and modifications
								
1.	Visibility of pedestrian		No parking nor urban furniture blocking the view <sup>1</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
2.	Surface	Orientation	Perpendicular to the axis of the street to be crossed <sup>2, 3</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
3.			Aligned with curb ramps on both sides <sup>2, 4</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
4.		Location	Outside roads, bends or bus lanes (bend radius at the corners to prevent vehicles encroachment into the crosswalks) <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
5.		Ground	Stable <sup>5</sup> , level, continuous, slip-resistant even if wet <sup>1, 2, 4, 5</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
6.		Obstacles	No slope, hole or gutter <sup>1, 2, 4</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
7.	Gutters		≥ 1 on the side of the curb ramp <sup>3</sup> for water drainage <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
8.	Markings	Width	≥ 1800mm <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
9.		Contrast	Visual (≥ 70%) and tactile <sup>1, 6</sup> , as set out in the Manual of Uniform Traffic Control Devices for Canada, and visible at night <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
10.		Tactile markings	On the middle line of the crossing <sup>1, 2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
11.	Lighting		Lit corridor uniform and continuous <sup>1</sup> : ≥ 50 lux with luminous transitions ≤ 300 lux			<input type="checkbox"/>	<input type="checkbox"/>	

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### 3. Pedestrian infrastructures – Pedestrian signals



#	Elements	Components	Criteria	Actual measures	Absent	Compliance		Observations and modifications
<b>Monitoring equipment</b>								
1.	Ground surface to call button	Manoeuvring area	Free and unobstructed, uniform, continuous and slip-resistant <sup>1,2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
2.		Dimensions	≥ 760x1200mm near pedestrian walkway without blocking the latter <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
3.	Location	Distance of the pole to the inner edge of the sidewalk	300mm <sup>3</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
4.		Detectability	Detectable ground cue at a height of ≤ 350mm <sup>1</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
5.	Call button	Height	1100 ± 150mm <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
6.		Orientation	<ul style="list-style-type: none"> <li>Facing the crosswalk it signals<sup>3</sup></li> <li>Where there is a single call button for a two-way crosswalk: 45°<sup>3</sup></li> </ul>			<input type="checkbox"/>	<input type="checkbox"/>	
7.		Where there is a traffic island	Additional call buttons <sup>3</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
<b>Traffic lights</b>								
8.	Location	Height	2200-3000m <sup>3</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
9.	Countdown	Allotted time	<ul style="list-style-type: none"> <li>Pedestrian phase timing for ≤ 4-way crosswalk: length ÷ allotted time = ≤ 0.9 m/s<sup>1,3</sup></li> <li>Pedestrian phase timing for &gt; 4-way crosswalk: total length of pedestrian crossing ÷ allotted time = ≤ 0.9m/s<sup>1,3</sup></li> </ul>			<input type="checkbox"/>	<input type="checkbox"/>	
10.	Audible signals	Walk signals <sup>1</sup>	10-80 dBA, ≥ 10 dBA above ambient noise <sup>4</sup> but avoid noise overload			<input type="checkbox"/>	<input type="checkbox"/>	
11.	Visual signage	Square lens	Black background and same dimension at both ways <sup>3</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
12.		Countdown	In orange <sup>3</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
13.		Walk sign	Fix white pedestrian silhouette <sup>3</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
14.		Safe to finish crossing	Flashing orange hand <sup>3</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
15.		Don't walk sign	Fix orange hand <sup>3</sup>			<input type="checkbox"/>	<input type="checkbox"/>	

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## 4. Pedestrian infrastructures – Sidewalk and pedestrian path



#	Elements	Components	Criteria	Actual measures	Absent	Compliance		Observations and modifications
1.	Surface	Ground	Firm, stable <sup>1-3</sup> , uniform, continuous and slip-resistant even if wet <sup>4</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
2.		Obstacles	Plain <sup>5-7</sup> : No unevenness, hole or gutter <sup>8</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
3.			No big design <sup>5-7</sup> or confusing decorations <sup>5,6</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
4.	Joints	Number	Reduce the number to the minimum with respect to building standards <sup>4</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
5.		Orientation	Perpendicular to pedestrian walkway <sup>2,5,9</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
6.		Type	Avoid trowel marks, favor sealed saw cuts <sup>4</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
7.		Width	Control and expansion joints: $\leq 10\text{mm}^4$			<input type="checkbox"/>	<input type="checkbox"/>	
8.			Construction joints (asphalt plank) $\leq 12.5\text{mm}^4$			<input type="checkbox"/>	<input type="checkbox"/>	
9.	Vertical offset	$\leq 10\text{mm}^4$ (depth)			<input type="checkbox"/>	<input type="checkbox"/>		
10.	Running slope		$\leq 5\%$ (1:20) <sup>10</sup> <ul style="list-style-type: none"> <li>Where the slope <math>&gt; 4\%</math> (1:25): Landings every <math>10\text{m}^2</math></li> <li>Where the slope <math>&gt; 5\%</math> (1:20): Considered like a ramp and equipped with a lift which can be used by a person alone<sup>1,10-12</sup></li> <li>Where <math>&gt; 6.25\%</math> with length <math>\geq (1:16) \geq 30\text{m}</math>: Landings every <math>30\text{m}^4</math></li> </ul>			<input type="checkbox"/>	<input type="checkbox"/>	
11.			Where the slope $> 6.25\%$ (1:16): Indicate its gradient in percentage at each end <sup>4,10</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
12.	Cross slope		$\leq 2\%$ (1:50) <sup>1-3,7,10,12</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
13.	Path width	According to the configuration	<ul style="list-style-type: none"> <li>Constant two-way traffic: <math>&gt; 1800\text{mm}^3</math> <ul style="list-style-type: none"> <li>Where <math>&lt; 1800\text{mm}</math> and the length <math>&gt; 50\text{m}</math>: <math>\geq 1</math> passing space at a distance <math>\leq 25\text{m}</math> (Passing space for 2 wheelchairs: <math>&lt; 1800\text{mm}</math> width and <math>&lt; 2000\text{mm}</math> length)<sup>3</sup></li> </ul> </li> <li>Frequent two-way traffic: <math>&gt; 1500\text{mm}</math>, provided that passing spaces are included at intervals <math>\leq 25\text{m}^3</math></li> <li>Infrequent two-way traffic: <math>&gt; 1200\text{mm}</math>, with a passing and turning space <math>\geq 1800\text{mm} \times 2000\text{mm}</math> every <math>25\text{m}^3</math></li> <li>Each in turn traffic: <math>&gt; 900\text{mm}</math>, with a turning space <math>\geq 1500\text{mm} \times 1500\text{mm}</math> every <math>25\text{m}^3</math></li> <li>At path crossings or in front of door openings: <math>\geq 1.5\text{m}</math> to do a U-turn<sup>6</sup></li> </ul>			<input type="checkbox"/>	<input type="checkbox"/>	
14.		Path crossings	Free and level manoeuvring space: $\geq 1700 \times 1700\text{mm}$ (different inlaid designs)			<input type="checkbox"/>	<input type="checkbox"/>	
15.	Free height		$\geq 2030\text{mm}$ ( $1980\text{mm}^4$ is acceptable) <sup>10</sup>			<input type="checkbox"/>	<input type="checkbox"/>	

## 4. Pedestrian infrastructures – Sidewalk and pedestrian path



#	Elements	Components	Criteria	Actual measures	Absent	Compliance		Observations and modifications
			<ul style="list-style-type: none"> <li>Where the free height &lt; 2030mm: Gardrails with leading edge at &lt; 680mm from the ground<sup>10</sup></li> </ul>					
16.	Depressions		No depression in the sidewalk (laneways aside) <sup>4</sup> <ul style="list-style-type: none"> <li>Otherwise, running slope: ≤ 8.33% (1:12) of a length ≥ 1500mm<sup>4</sup></li> </ul>			<input type="checkbox"/>	<input type="checkbox"/>	
17.	Adjacent ground		Level with sidewalk and visually contrasting with the sidewalk (≥ 70%) <sup>4</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
18.			Where there is a change in level of a height of 75-250mm: Edge protection of a height of ≥ 75mm <sup>10</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
19.		Conflict points	Obvious signs with an unobstructed view <sup>10</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
20.	Signage	Where sidewalk width is > 2m	Motifs of contrasting colours (≥ 70%), decorative strip or granite curb on the free walkway guiding pedestrians <sup>4</sup> <ul style="list-style-type: none"> <li>Visual indications different from crossings different from crossing's inlaid designs</li> </ul>			<input type="checkbox"/>	<input type="checkbox"/>	
21.	Lighting (rest areas included)		Linear <sup>1</sup> , uniform, continuous, glare-free, including rest areas: > 100 lux <sup>10</sup> with luminous transitions > 300 lux			<input type="checkbox"/>	<input type="checkbox"/>	

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## 5. Parking – Designated space



#	Elements	Components	Criteria	Actual measures	Absent	Compliance		Observations and modifications
1.	Signage	Information	Presence of a standardized sign clearly indicating the reserved parking space <sup>1</sup> and having the following characteristics: <ul style="list-style-type: none"> <li>• Contrasting background and writing (<math>\geq 70\%</math>)</li> <li>• Font size: <math>\geq 22\text{mm}</math></li> <li>• Simple sans serif fonts</li> <li>• Key message (avoid sentences)</li> <li>• Arrow signs to clearly demarcate the accessible space<sup>2</sup></li> </ul>			<input type="checkbox"/>	<input type="checkbox"/>	
2.		Reserved parking sign	Not impeding on movements <sup>3</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
3.			Dimensions: Width $\geq 300\text{mm}$ and height $\geq 450\text{mm}$ <sup>2,3</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
4.			Vertical clearance under the sign: $> 2100\text{mm}$ <sup>1</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
5.		Markings	Reserved parking surface is blue and the limits are white lines 100-150mm wide <sup>1</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
6.			International Symbol of Access painted on the pavement at the centre of the parking space and of a length of $\geq 1000\text{mm}$ <sup>1-3</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
7.			Hatched drop-off zone <sup>1</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
8.			Pedestrian walkway(s) leading to building entrance marked with yellow diagonal lines <sup>1</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
9.		Lighting	Visible and lit sign: $\geq 200\text{ lux}$ <sup>1</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
10.	Designated parking	Minimum number of reserved spaces required <ul style="list-style-type: none"> <li>• 10 parking spaces = 1 reserved spaces</li> <li>• 50 parking spaces = 2 reserved spaces</li> <li>• 100 parking spaces = 4 reserved spaces</li> <li>• 200 parking spaces = 6 reserved spaces</li> </ul> $\geq$ for specialized facilities <sup>1</sup> (e.g. health care institutions, shopping areas, recreation facilities) <sup>3</sup>			<input type="checkbox"/>	<input type="checkbox"/>		
11.		For vans: 1 designated spaces for 6 parking spaces <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>		
12.		Location	At $\leq 50\text{m}$ <sup>3</sup> from the main entrance <sup>1-6</sup> or an accessible entrance (or an elevator for interior parking) <sup>1</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
13.			At the ends of aisles for the door not to be between 2 cars <sup>7</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
14.			Bollards/curbs separating the vehicles' access aisle from pedestrian walkway <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
15.	Access to a curb ramp or curb cut to enable circulation on sidewalk up to the building entrance <sup>2,3</sup>			<input type="checkbox"/>	<input type="checkbox"/>			



## 5. Parking – Designated space



#	Elements	Components	Criteria	Actual measures	Absent	Compliance		Observations and modifications
16.			Path leading to building entrance without having to move behind vehicles other than one's own <sup>1, 2, 8</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
17.		In case of <b>interior parking</b>	Unobstructed vision or presence of convex mirrors where the vision may be obstructed <sup>1</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
18.			Presence of a call-bell or a two-way communication system located near the reserved space(s) <sup>1, 9</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
19.		Surface	Level (< 5mm) <sup>1-3, 7</sup> , stable <sup>2, 3</sup> , firm <sup>1-3</sup> and slip-resistant even if wet <sup>1-3</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
20.		Width	<ul style="list-style-type: none"> <li>• Single parking space: ≥ 2400mm<sup>2, 3</sup>, ideally ≥ 4600mm<sup>1</sup> (3m for vehicle and 1600mm for the drop off area<sup>1</sup>)</li> <li>• Adjacent parking spaces: Width of each space ≥ 3m<sup>1</sup></li> <li>• For vans: ≥ 2600mm<sup>2</sup></li> </ul>			<input type="checkbox"/>	<input type="checkbox"/>	
21.		Length	<ul style="list-style-type: none"> <li>• ≥ 5500mm<sup>1, 2</sup></li> <li>• For vans: Side and rear access aisles ≥ 2000mm wide<sup>2</sup></li> </ul>			<input type="checkbox"/>	<input type="checkbox"/>	
22.		Drop off area adjacent to reserved space	Width: <ul style="list-style-type: none"> <li>• Single parking space: ≥ 1500mm<sup>2, 3, 5, 8</sup></li> <li>• Adjacent parking spaces: ≥ 1800mm of shared drop off area<sup>1</sup></li> <li>• For vans: ≥ 2000mm<sup>2</sup></li> </ul>			<input type="checkbox"/>	<input type="checkbox"/>	
23.			Length: ≥ 6000mm <sup>2, 8</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
24.		Free height	≥ 2750mm <sup>1, 2, 5</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
25.		Lighting	Uniform, continuous and glare-free. ≥ 50 lux with luminous transitions ≤ 300 lux			<input type="checkbox"/>	<input type="checkbox"/>	
26.			Continuous up to the main entrance			<input type="checkbox"/>	<input type="checkbox"/>	

### References



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## 6. Parking – Parking meter, ticket machine or toll station



### Additional Information

Force needed to activate the functions: Require little force (use of 2 fingers) ( $\leq 22.2 \text{ N} = 5 \text{ lbs}$ )<sup>1</sup>

#	Elements	Components	Criteria	Actual measures	Absent	Compliance		Observations and modifications	
									
1.	Position	Location	<ul style="list-style-type: none"> <li>Close to reserved spaces<sup>1</sup></li> <li>In the entrance hall of the adjacent building<sup>1</sup></li> </ul>			<input type="checkbox"/>	<input type="checkbox"/>		
		<b>Where the equipment is located outdoors, add the following criteria:</b>							
2.		Transition	<ul style="list-style-type: none"> <li>Curb ramp/cut to access the equipment</li> <li>Same level as circulation area</li> </ul>			<input type="checkbox"/>	<input type="checkbox"/>		
3.		Orientation	Perpendicular to the passageway where it is found (not necessarily with respect to the street)			<input type="checkbox"/>	<input type="checkbox"/>		
4.		Ground surface	Running slope: $\leq 2\%$ (1:50) <sup>1</sup>			<input type="checkbox"/>	<input type="checkbox"/>		
5.			Cross slope: $\leq 2\%$ (1:50) <sup>1</sup>			<input type="checkbox"/>	<input type="checkbox"/>		
6.			Uniform and slip-resistant even if wet			<input type="checkbox"/>	<input type="checkbox"/>		
7.			No sidewalk joints or with saw cut joints of a width and a clearance height of $\leq 10\text{mm}$			<input type="checkbox"/>	<input type="checkbox"/>		
8.		Manoeuvring area	Free and level of a diameter $\geq 1500\text{mm}^{1,2}$ , ideally $\geq 1700\text{mm}$			<input type="checkbox"/>	<input type="checkbox"/>		
9.		Free height	$\geq 1980\text{mm}$			<input type="checkbox"/>	<input type="checkbox"/>		
10.		Obstacles	No obstacle in the circulation area (terrace, work zone, trashcans, urban furniture, snow bank, sidewalk sale)			<input type="checkbox"/>	<input type="checkbox"/>		
11.			Equipment located at $> 400\text{mm}$ of any other obstacle <sup>3</sup>			<input type="checkbox"/>	<input type="checkbox"/>		
12.		Equipment	Assistance	Assistance system provided <sup>1,4</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
13.			Detectability	Extended up to the ground for detectability with a white-cane <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
14.			Audible signals	Indicates an operation/location of an audible function <sup>1</sup> : 10-80 dB, $\geq 10 \text{ dB}$ above ambient noise <sup>5</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
15.			Visual signage	Contrast to indicate an operation/location of a function <sup>1</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
16.	Signage	Display of instructions <sup>1</sup>	Near the equipment and having the following characteristics: <ul style="list-style-type: none"> <li>Height of the average horizontal line: <math>1200 \pm 100\text{mm}</math></li> <li>Contrasting background and writing: (<math>\geq 70\%</math>)</li> <li>Font size: <math>\geq 22\text{mm}</math></li> </ul>			<input type="checkbox"/>	<input type="checkbox"/>		

## 6. Parking – Parking meter, ticket machine or toll station

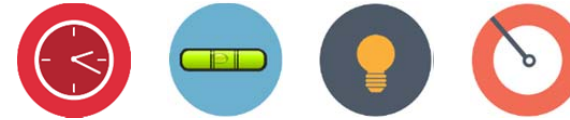


#	Elements	Components	Criteria	Actual measures	Absent	Compliance		Observations and modifications
			<ul style="list-style-type: none"> <li>• Simple sans serif fonts</li> <li>• Favor pictograms (avoid sentences)</li> </ul>			<input type="checkbox"/>	<input type="checkbox"/>	
17.	Screen	Centre height	≤ 1200mm			<input type="checkbox"/>	<input type="checkbox"/>	
18.		Writing	Contrasting background/writing (≥ 70%). Height: > 22mm			<input type="checkbox"/>	<input type="checkbox"/>	
19.	Keypad and coin slot	Height	800-1100mm <sup>6</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
20.		Keys	Height: ≥ 19mm <sup>1</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
21.			Indication of the function with contrasting raised characters (≥ 70%) of ≥ 16mm <sup>1</sup> in height			<input type="checkbox"/>	<input type="checkbox"/>	
22.			Spottable numbers from 1 to 9 set out in a square pattern, aligned from left to right, 5 (at the centre) with a raised spot, and 0 under 8 <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
23.		Operability	Operable with a fist without torsion of the wrist <sup>1</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
24.	Needed force	Require little force (use of 2 fingers)			<input type="checkbox"/>	<input type="checkbox"/>		
25.	Lighting		≥ 200 lux <sup>4</sup>			<input type="checkbox"/>	<input type="checkbox"/>	

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4. CSA Group. *Accessible Design for the Built Environment*. Mississauga, Ontario: CSA Group; 2012.
5. Institut Nazareth et Louis Braille, Société Logique. Critères d'accessibilité répondant aux besoins des personnes ayant une déficience visuelle. Québec: Institut Nazareth et Louis Braille et Société Logique. 2003 - [cited. Available from: <http://www.inlb.gc.ca/modules/pages/index.php?id=63&langue=fr> et <http://www.societelogique.org/contenu?page=actualites&nID=28>.
6. ISO. *Building construction — Accessibility and usability of the built environment*. 2011.

## 7. Signage and outdoor access



### Additional Information

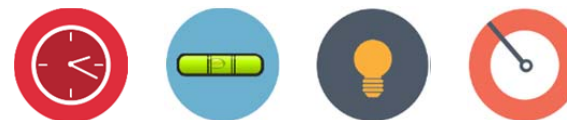
- Where the building entrance is  $\geq 200\text{m}$  away from the sidewalk: Place, every 100m,  $\geq 2$  seats or 2-seat benches out of the circulation area<sup>1</sup>

#	Elements	Components	Criteria	Actual measures	Absent	Compliance		Observations and modifications
								
1.	Exterior signage	Street number	Height of the average horizontal line of lettering: $1500\pm 100\text{mm}^2$			<input type="checkbox"/>	<input type="checkbox"/>	
2.			Numbers' height: $\geq 100\text{mm}^2$ (readable from the distance where the reader stands)			<input type="checkbox"/>	<input type="checkbox"/>	
3.			Colour contrast with the wall ( $\geq 70\%$ ) and on a matt surface <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
4.			Visible and lit ( $\geq 200\text{lux}$ ) <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
5.		Entrance	<ul style="list-style-type: none"> <li>Main entrance marked as accessible<sup>3</sup></li> <li>Where the main entrance is not accessible: Directions to reach an accessible entrance identifiable with the accessibility sign<sup>3</sup></li> </ul>			<input type="checkbox"/>	<input type="checkbox"/>	
6.			Height of the average horizontal line of accessibility signage: $1500\pm 100\text{mm}$			<input type="checkbox"/>	<input type="checkbox"/>	

### References

- Collectif Accessibilité Wallonie Bruxelles. Guide d'aide à la conception d'un bâtiment accessible. 2013 - [cited. Available from: <https://sites.google.com/site/cawabasbl/>].
- Service de l'aménagement du territoire de la Ville de Québec. Guide pratique d'accessibilité universelle. 2010 - [cited. Available from: [www.irdpq.qc.ca/communication/publications/guide\\_accessibilite/acces\\_Manuel\\_utilisation\\_2010.pdf](http://www.irdpq.qc.ca/communication/publications/guide_accessibilite/acces_Manuel_utilisation_2010.pdf)].
- Americans with disabilities act [ADA]. Checklist for readily achievable barrier removal. Adaptive Environments Center, Inc. and Barrier Free Environments, Inc. 1995 - [cited. Available from: [www.ada.gov/checkweb.htm](http://www.ada.gov/checkweb.htm)].

## 8. Doors



### Additional Information

- Doors that open automatically are preferable<sup>1,2</sup>
- Sliding automatic doors are generally the most convenient to use<sup>1</sup>
- If it is the main entrance: Presence of more than one power-assisted door<sup>1</sup>
- For doors that are not automatically activated: Use activation pads<sup>1</sup> (**see section on Power-assisted doors**)
  - A 2<sup>nd</sup> activation pad should be located at a height of 200mm for activation by the foot<sup>1</sup>
- If it is a power-assisted swinging door, it would be ideal to have cane-detectable guardrails or other barriers perpendicular to the wall of the door<sup>1</sup>
- Avoid a door completely made of glass on a glass facade<sup>2</sup>
- Avoid knob, ball, butterfly, “T” and thumb-latch handles
- Possibility to lend equipments and mobility aids at the entrance (reception)
- Force needed to pull or push the door:
  - Exterior swinging door:  $\leq 38 \text{ N}^{1-6}$
  - Interior swinging door:  $\leq 22 \text{ N}^{1-6}$
  - Sliding and folding door:  $\leq 22 \text{ N}^1$
- Force needed to stop door movement:  $\leq 66 \text{ N}^1$

### Information on measurement process

- For swinging doors, the clear opening width of doorways is measured between the face of the door or the panic hardware and the face of the stop with the door open at 90°<sup>1</sup>
- For sliding doors, the clear opening is measured between the edge of the open door and the door frame<sup>1</sup>

#	Elements	Components	Criteria	Actual measures	Absent	Compliance		Observations and modifications
1.	Doors	Location	<ul style="list-style-type: none"> <li>• If it is a door opening on a staircase going down or a ramp: Safety distance <math>\geq 2000\text{mm}^5</math></li> <li>• On a main circulation route: Compliant transparent glass panel<sup>1, 2</sup> (<b>see below for glass panel</b>)</li> </ul>			<input type="checkbox"/>	<input type="checkbox"/>	
2.		Manoeuvring area	Out of the door opening area <ul style="list-style-type: none"> <li>• Exterior door: Diameter <math>\geq 1800\text{mm}^2</math></li> <li>• Interior door: Diameter <math>\geq 1500\text{mm}^2</math></li> </ul>			<input type="checkbox"/>	<input type="checkbox"/>	
3.		Side clearance (handle side)	Pulling side: $\geq 750\text{mm}^2$			<input type="checkbox"/>	<input type="checkbox"/>	
4.			Pushing side: $\geq 300\text{mm}^{1,2}$			<input type="checkbox"/>	<input type="checkbox"/>	



## 8. Doors



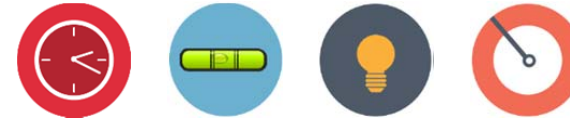
#	Elements	Components	Criteria	Actual measures	Absent	Compliance		Observations and modifications
5.	Hardware (handles, latches, or locks)	Threshold	$\leq 13\text{mm}^{1,4,6}$ , should be ideally avoided if possible <sup>2,5</sup> <ul style="list-style-type: none"> <li>If <math>&gt; 6\text{mm}</math> high: Bevelled <math>\leq 50\%</math> (1:2)<sup>1</sup></li> <li>Where a raised threshold (<math>\leq 20\text{mm}</math>) is required: Descending chamfered threshold with LRV difference to floor <math>\geq 30</math> points<sup>5</sup></li> </ul>			<input type="checkbox"/>	<input type="checkbox"/>	
6.		Protective strip	On both sides of the door and 300mm high <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
7.		Clear opening	Clear width: <ul style="list-style-type: none"> <li>Exterior door: <math>\geq 920\text{mm}^2</math></li> <li>Interior door: <math>\geq 865\text{mm}^2</math></li> </ul>			<input type="checkbox"/>	<input type="checkbox"/>	
8.			Clear height: $\geq 2030\text{mm}$ (1980mm is acceptable) <sup>1,2,4</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
9.		Visual contrast $\geq 70\%$ between	The door and the door frame <sup>1</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
10.			The door frame and the wall (outside and inside the room) <sup>1</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
11.			The door and its handle <sup>1,7</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
12.		Glass panel <sup>2</sup>	Transparent <sup>1</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
13.			Height of lower edge: $\geq 900\text{mm}^1$			<input type="checkbox"/>	<input type="checkbox"/>	
14.			Height of upper edge: $\geq 1600\text{mm}^5$			<input type="checkbox"/>	<input type="checkbox"/>	
15.			Width: Corresponds to a distance of 200mm from the latch edge of the door and $\geq 150\text{mm}^5$			<input type="checkbox"/>	<input type="checkbox"/>	
16.			If the door or the side panel is made of glass, add an opaque continuous strip having all of the following characteristics <sup>1</sup> <ul style="list-style-type: none"> <li>Colour- and brightness-contrast with the door colour<sup>1</sup></li> <li>Strip height: <math>\geq 50\text{mm}^1</math></li> <li>Extends on the entire width of the door or side panel at a height of 1350-1500mm<sup>1</sup></li> </ul>			<input type="checkbox"/>	<input type="checkbox"/>	
17.		Operating devices (handles, latches, or locks)	Height: 800-1200mm <sup>1</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
18.			If it is a sliding door: Exposed and usable from both sides <sup>1</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
19.			Operable with one hand <sup>5</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
20.			Space between door and handle: 35-45mm <sup>5,8</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
21.	For manually-operated swing door	<ul style="list-style-type: none"> <li>"D"- or "L"-type curved handle (lever type)<sup>2</sup></li> <li>Commercial or institutional handles: Vertical tubular OF full height of the door with a diameter <math>\leq 40\text{mm}^2</math></li> <li>Panic bar</li> </ul>			<input type="checkbox"/>	<input type="checkbox"/>		
22.		Height: 915mm <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>		

## 8. Doors



#	Elements	Components	Criteria	Actual measures	Absent	Compliance		Observations and modifications	
									
23.	Optical drive	Configuration	Height: 800-1200mm <sup>1</sup>			<input type="checkbox"/>	<input type="checkbox"/>		
24.			Include audible (beep) and visual (light) signals to indicate that access is granted <sup>1</sup>			<input type="checkbox"/>	<input type="checkbox"/>		
25.	Security	Fire door	Can be easily opened from inside without using a key <sup>5</sup>			<input type="checkbox"/>	<input type="checkbox"/>		
26.		Revolving door	Near a barrier and having a clear width $\geq 810\text{mm}^1$			<input type="checkbox"/>	<input type="checkbox"/>		
27.		Revolving door	Favour large models, large-diameter type, offering all the space and security needed for wheelchairs and equipped with a reduced speed button <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>		
28.		Obstacles		Fix the hinges on the door frame and not on the floor, on pivot <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
29.				Favour a 300mm protective strip at the bottom of the door <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
30.			Install weatherstripping at the bottom of the door not on the threshold <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>		
31.	Power-assisted doors	Activation	<ul style="list-style-type: none"> <li>Where there is a presence detector: Detect a person sitting or standing<sup>9</sup></li> <li>Where there is an activation pad: By touching anywhere on the surface<sup>1</sup></li> </ul>			<input type="checkbox"/>	<input type="checkbox"/>		
32.		Activation pads (not automatic)		Location: Along the access route, visible before reaching the door and on the wall adjacent to the pad or any adjacent wall, but away from the door path <sup>1</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
33.				Free and level manoeuvring space: 750x1200mm in front of the pad <sup>1</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
34.				Signage: International symbol of accessibility <sup>1,2</sup> and button contrasting with the support <sup>1</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
35.				<ul style="list-style-type: none"> <li>Ideal type: Vertical activation bar at a height between 175-900mm<sup>1</sup></li> <li>Rectangular <math>\geq 25 \times 75\text{mm}^1</math></li> <li>Round with a diameter <math>\geq 100\text{mm}^1</math></li> </ul>			<input type="checkbox"/>	<input type="checkbox"/>	
36.				Height: 800-1200mm <sup>1</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
37.		Lighting (e.g. door opening pad, videophones): $\geq 200\text{ lux}^2$			<input type="checkbox"/>	<input type="checkbox"/>			
38.	Power-assisted swing door, automatic sliding or folding door	Opening time	Having the following characteristics <sup>1</sup> : <ul style="list-style-type: none"> <li>Door closed to fully opened: <math>\geq 3</math> seconds</li> <li>Time that the door remains open: <math>\geq 5</math> seconds</li> <li>Closing time (door opened at 90° to closed at 12°): <math>\geq 3</math> seconds</li> </ul>			<input type="checkbox"/>	<input type="checkbox"/>		
39.		Detection device	Ensuring that a person approaching or leaving the door does not come into contact with the door during the opening and closing phases <sup>5</sup>			<input type="checkbox"/>	<input type="checkbox"/>		

## 8. Doors



#	Elements	Components	Criteria	Actual measures	Absent	Compliance		Observations and modifications
40.		Return delay mechanism	Allowing the passage of a person (sufficient opening time) and detects the presence of a person on the floor within the door closing area <sup>5</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
41.			Can be used manually in the event of electrical failure <sup>5</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
42.			Does not stand in the way of the evacuation route <sup>5</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
43.	Two doors in series	Manoeuvring area	≥ 1500mm plus the width of any door swinging into the space <sup>1</sup> and opening not requiring any change of direction			<input type="checkbox"/>	<input type="checkbox"/>	
44.			<ul style="list-style-type: none"> <li>• Straight-line circulation: <ul style="list-style-type: none"> <li>• Pulling side: ≥ 1500x1500mm<sup>1</sup></li> <li>• Pushing side: ≥ 1200x1200mm<sup>1</sup></li> </ul> </li> <li>• Where “L”-type direction change is required: <ul style="list-style-type: none"> <li>• Pulling side: ≥ 1500 (width on the wall of the door) x 1200mm (depth on the wall perpendicular to the door)<sup>1</sup></li> <li>• Pushing side: ≥ 1500x1050mm<sup>1</sup></li> </ul> </li> <li>• Where a turning space at 180° is required: Clear space ≥ 1600x2150mm<sup>5</sup></li> </ul>			<input type="checkbox"/>	<input type="checkbox"/>	



### References

1. CSA Group. *Accessible Design for the Built Environment*. Mississauga, Ontario: CSA Group; 2012.
2. Service de l'aménagement du territoire de la Ville de Québec. Guide pratique d'accessibilité universelle. 2010 - [cited. Available from: [www.irdpq.gc.ca/communication/publications/guide\\_accessibilite/acces\\_Manuel\\_utilisation\\_2010.pdf](http://www.irdpq.gc.ca/communication/publications/guide_accessibilite/acces_Manuel_utilisation_2010.pdf).
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4. Americans with disabilities act [ADA]. Checklist for readily achievable barrier removal. Adaptive Environments Center, Inc. and Barrier Free Environments, Inc. 1995 - [cited. Available from: [www.ada.gov/checkweb.htm](http://www.ada.gov/checkweb.htm).
5. ISO. *Building construction — Accessibility and usability of the built environment*. 2011.
6. Régie du bâtiment du Québec. *Code de construction du Québec*. 2008; Québec: Régie du bâtiment du Québec.
7. Greater Toronto Hotel Association [GTHA]. Hospitality checklist. 2003 - [cited; Greater Toronto Hotel Association hospitality accessibility]. Available from: [www.gtha.com/dsp\\_Hosp-CheckLst.cfm](http://www.gtha.com/dsp_Hosp-CheckLst.cfm).
8. MacDowall D. Accessibility checklist, a self-assessment tool. Bass International Consulting for People Outdoors. 2004 - [cited; Accessibility checklist: a self-assessment tool. Available from: [www.auscamps.asn.au/accessibility/docs/FullAccessibility\\_Checklist.pdf](http://www.auscamps.asn.au/accessibility/docs/FullAccessibility_Checklist.pdf).
9. Collectif Accessibilité Wallonie Bruxelles. Guide d'aide à la conception d'un bâtiment accessible. 2013 - [cited. Available from: <https://sites.google.com/site/cawabasbl/>.





## 9. Security



#	Elements	Components	Criteria	Actual measures	Absent	Compliance		Observations and modifications
								
1.	Information	Emergency and security procedures	Displayed at every entrance and emergency exit leading outside <sup>1,2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
2.			Clear and adapted <sup>3</sup> with technical drawings for fire safety, descriptive text and product/system information related to fire safety <sup>1</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
3.			Print and/or digital form <sup>1</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
4.		Evacuation plans	Available in an understandable format for all (e.g. large print, audio, Braille, easy-to-read characters) <sup>1</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
5.			Oriented in the same direction as the user			<input type="checkbox"/>	<input type="checkbox"/>	
6.		Hazards	Indicate all hazards <sup>1,3</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
7.		Visual alarms <sup>4</sup>	Synchronized with audible signals <sup>5</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
8.			Flash frequency range: 1-3 Hz <sup>5</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
9.			Placed in the way that the visual signal is visible everywhere <sup>5</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
10.	Fire alarm	Manoeuvring area	Free and level in front of the equipment of a diameter $\geq 1500\text{mm}$			<input type="checkbox"/>	<input type="checkbox"/>	
11.		Height	$\leq 1200\text{mm}$ <sup>5</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
12.	Evacuation chairs	Manoeuvrability	Are safely and easily manoeuvred <sup>1</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
13.			Enable to go up and down staircases <sup>1</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
14.			Enable to cover long distances horizontally and outside (compensate for potential challenges of a particular environment) <sup>1</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
15.			Can carry heavy persons (up to 150kg) <sup>1</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
16.	Area for rescue assistance	Location	On every floor and near each evacuation staircase <sup>1</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
17.		Signage	Clearly indicated with the appropriate signage <sup>1</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
18.		Area	$\geq 2$ spaces of 850x1200mm <sup>5</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
19.			Include a space for persons in wheelchair of sufficient size for the storage of an evacuation chair, a manual fire alarm call point, a fire evacuation supply kit (for example, smoke hoods, protective gloves) <sup>1</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
20.			Equipment	Independent, accessible and reliable communication system fixed at a height of 800-1100mm <sup>1</sup>			<input type="checkbox"/>	<input type="checkbox"/>
21.	Fire extinguishers	Manoeuvring area	Free and level in front of the equipment of a diameter $\geq 1500\text{mm}$ <sup>6</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
22.		Detectability	Protruding with cue on the floor (avoid doors) <ul style="list-style-type: none"> <li>Where there is a door, height of the handle: 800-1100mm<sup>2</sup></li> </ul>			<input type="checkbox"/>	<input type="checkbox"/>	
23.	Emergency exits	Signage	Clearly indicated <sup>7</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
24.		Handle	Panic bars			<input type="checkbox"/>	<input type="checkbox"/>	

## 9. Security



#	Elements	Components	Criteria	Actual measures	Absent	Compliance		Observations and modifications
								
25.		Contrast	Colour-contrasting door for the entire building <sup>7</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
26.	Lighting	Exit paths	Lit in the dark <sup>4</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
27.	Emergency phone	Manoeuvring area	Free and level in front of the equipment of a diameter $\geq 1500\text{mm}$			<input type="checkbox"/>	<input type="checkbox"/>	
28.		Average height	$\leq 1200\text{mm}$ <sup>5</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
29.		Cord	Length: $\geq 915\text{mm}$			<input type="checkbox"/>	<input type="checkbox"/>	

### References

1. ISO. *Building construction — Accessibility and usability of the built environment*. 2011.
2. Collectif Accessibilité Wallonie Bruxelles. Guide d'aide à la conception d'un bâtiment accessible. 2013 - [cited. Available from: <https://sites.google.com/site/cawabasbl/>].
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7. Greater Toronto Hotel Association [GTHA]. Hospitality checklist. 2003 - [cited; Greater Toronto Hotel Association hospitality accessibility]. Available from: [www.gtha.com/dsp\\_Hosp-CheckLst.cfm](http://www.gtha.com/dsp_Hosp-CheckLst.cfm).

## 10. Signage





### General information

- The signage should be uniformly distributed, taking into consideration the routes' length<sup>1,2</sup>
- The signs shape should be consistent for one site.<sup>3</sup> Ensure a homogeneous visual identity (location, size, font, colour, shape, graphic design, etc.), including harmonization of arrows and their size (pay attention to their location, implantation, orientation, and direction)<sup>4</sup>
- Allow decision-making where direction changes are possible (strategic decisions points) facilitating spatial orientation<sup>3</sup>
- Favour the use of pictograms<sup>3</sup>; avoid any form of originality and do not modify them.<sup>2</sup> A text should reinforce the meaning of the image and not be used to compensate for the difficulty of comprehension of the pictogram<sup>2</sup>
- Use short and easy-to-understand messages<sup>3</sup>
- Respect the existing colour codes and always use the same colour codes<sup>1,5</sup>
- Electronic display requires larger fonts than the ones of traditional display, for the same reading distance.<sup>1</sup> Favour LED lighting<sup>3</sup>

### To be avoided

- Floor signage (even in large print)
- Vertical texts, special fonts, crowded signs with too much information, right or justified alignment, visual clutter<sup>2</sup>
- Letters scrolling on a screen<sup>2</sup>

#	Elements	Components	Criteria	Actual measures	Absent	Compliance		Observations and modifications
								
1.	Configuration	Location	Presence of a global sign of the building in the entrance hall or near the accessible entrance <sup>3</sup> <ul style="list-style-type: none"> <li>• Where the accessible entrance is not the main entrance and does not have an overall sign of the various services: Presence of indications to get to the reception desk</li> </ul>			<input type="checkbox"/>	<input type="checkbox"/>	
2.			If it is the identification of a room: On the wall adjacent to the door at about 200mm from the frame, handle side <sup>3</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
3.		Manoeuvring area	Free and level in front of the signage <sup>2</sup> of a diameter $\geq 1500\text{mm}$			<input type="checkbox"/>	<input type="checkbox"/>	
4.		Average height of signage	1200-1600mm <sup>6</sup> <ul style="list-style-type: none"> <li>• Where the signage protrudes: 1980-2300mm<sup>3</sup></li> <li>• Where the signage might be hidden (too many people circulating in front of it): <math>\geq 2100\text{mm}</math><sup>6</sup></li> </ul>			<input type="checkbox"/>	<input type="checkbox"/>	
5.		Height of letters, numbers, signs, and graphic symbols	Viewing distance: 1m Letter: 30mm. Pictogram: 50mm <sup>4</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
		Viewing distance: 2m Letter: 60mm. Pictogram: 100mm <sup>4</sup>						
		Viewing distance: 5m Letter: 150mm. Pictogram: 250mm <sup>4</sup>						



## 10. Signage



#	Elements	Components	Criteria	Actual measures	Absent	Compliance		Observations and modifications
			Viewing distance: 10m Letter: 300mm. Pictogram: 500mm <sup>4</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
6.		Thickness of raised letters	≥ 0.8mm, ideally between 1-1.5mm <sup>3, 6</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
7.		Formatting	Align text on the left			<input type="checkbox"/>	<input type="checkbox"/>	
8.			Spacing ≥ than the height of the font characters			<input type="checkbox"/>	<input type="checkbox"/>	
9.		Font	Sans serif <sup>3, 4, 6</sup> with Arabic numbers <sup>4</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
10.			First letter of the indication / message in uppercase and the following letters in enlarged lowercases / avoid capitalized texts or a writing fully in capital letters <sup>4</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
11.			Characters height-to-width ratio: 3:5-1:1 <sup>3, 4</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
12.			Stroke-width-to-height ratio: 1:5-1:10 <sup>3, 4</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
13.		Message	Separate two directions by a contrasted line <sup>5</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
14.	Contrast	Colour	Sign contrasted with the wall <sup>4</sup> and of a pale and plain colour (no image)			<input type="checkbox"/>	<input type="checkbox"/>	
15.			≥ 70% <sup>3</sup> in reversed polarity (pale writing on dark background) <sup>4</sup> and limited to a mix of 2 colours <sup>7</sup> ***Favour blue or black writing			<input type="checkbox"/>	<input type="checkbox"/>	
16.		Surface	Matte finish <sup>3</sup> and lit and out of a zone against the light <sup>4</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
17.		Lighting	≥ 200 lux <sup>3, 4</sup> , and well-lit day and night <sup>5</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
18.	Uncontracted Braille and tactile writing	Location	Height: Horizontal centreline at 1500±25mm <sup>4</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
19.			Latch edge with leading vertical edge at 150±10mm from the door frame <sup>4</sup> • Where there are double-leaf doors: On the nearest adjacent wall <sup>4</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
20.			Allow a person to approach to < 100mm without encountering protruding objects or standing within a door swing <sup>4</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
21.			Surrounded by a clearance of a width of ≥ 75mm <sup>4</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
22.	Formatting: Braille		Writing height: 0.6-0.8mm <sup>3, 8</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
23.			Diameter: 1.5mm <sup>3, 8</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
24.			Shape: Conical or hemispherical shape, non-cylindrical <sup>8</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
25.			Distance between 2 adjacent points, vertically, horizontally, but not diagonally, from centre to centre: 2.3-2.5mm <sup>3</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
26.			Distance between the same point of 2 adjacent cells on the same line: 6.1-7.6mm <sup>3</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
27.			Distance between the same point of 2 facing cells on consecutive lines:			<input type="checkbox"/>	<input type="checkbox"/>	

## 10. Signage





#	Elements	Components	Criteria	Actual measures	Absent	Compliance		Observations and modifications	
									
			10.0-10.1mm <sup>3</sup>						
28.		Formatting: Tactile characters	Thickness of raised letters: 0.8-1.5mm <sup>4</sup>			<input type="checkbox"/>	<input type="checkbox"/>		
29.			Height: 16-50mm <sup>4</sup>			<input type="checkbox"/>	<input type="checkbox"/>		
30.			Accompanied by uncontracted Braille near the bottom edge of the sign <sup>4</sup>			<input type="checkbox"/>	<input type="checkbox"/>		
31.	Plan of the building (Information to add to the one provided above)	Location	At readily identifiable decision places (entrance, floors' entrance, junctions) <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>		
32.				On the presentation documents of the establishment <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
33.		Information	Simple and free from any distractive information, ideally by pictograms <sup>2</sup> including the following characteristics: <ul style="list-style-type: none"> <li>• A "You are here" point<sup>2</sup></li> <li>• Legend listing elements in alphabetical order. Logos and pictograms used in the legend present on the plan<sup>2</sup></li> <li>• Indicate the specialized services/equipment with the International Symbol of Access, and the way to reach them<sup>9</sup></li> </ul>			<input type="checkbox"/>	<input type="checkbox"/>		
34.				Scale of the plan: Enable users to evaluate distances and to easily identify common premises and places <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
35.			Contrast	Colour codes to identify the floor or the area where one is and for continuous help to locate oneself <sup>2, 3</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
36.				Level and non-reflective surfaces (avoid glossy supports, reflections and backlights) <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
37.			Lighting	Good, whilst favouring indirect lighting <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	

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## 11. Desks



#	Elements	Components	Criteria	Actual measures	Absent	Compliance		Observations and modifications
								
1.	Desk	Manoeuvring area	Free, firm, and level of $\geq 850 \times 1200 \text{mm}^1$			<input type="checkbox"/>	<input type="checkbox"/>	
2.		Clearance	Height: $\geq 680 \text{mm}$ (or have an adjustable height) with extension $\leq 100 \text{mm}$ of supports <sup>1</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
3.			Width: $\geq 750 \text{mm}^1$			<input type="checkbox"/>	<input type="checkbox"/>	
4.			Depth: $\geq 480 \text{mm}$ , can overlap the clear floor area <sup>1</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
5.		Height - surface	730-860mm <sup>1</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
6.			950-1100mm for persons standing <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
7.		Contrast	Between the furniture and the environment: <ul style="list-style-type: none"> <li><math>\geq 70\%</math> with the walls and the floor<sup>3</sup></li> <li>Addition of a contrasting stripe on the desk's periphery<sup>4</sup></li> </ul>			<input type="checkbox"/>	<input type="checkbox"/>	
8.			Surface: Glare-free <sup>4</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
9.			Medium-coloured surface (contrasting with light/dark objects) <sup>3</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
10.			Where there is a glass: Contrasting horizontal stripes or patterns ( $\geq 70\%$ ) at a height of 900-1500mm, ideally no glass <sup>4</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
11.		Lighting	Surfaces dedicated to reading and filling of documents: $\geq 200 \text{ lux}$ in the room and 350-450 lux on the surface <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
12.			Where there is an employee: Face of the person well lit ( $\geq 700 \text{ lux}$ ) and out of backlight <sup>4</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
13.	If it is a reception desk:	Availability of plans <sup>5</sup>	Those which are found at each floor, and located, if possible, at the same place near access points (staircases, elevators) <sup>5</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
14.		Communication	Offer the possibility of written communication: tablet, paper <sup>6</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
15.		Location	Visible and on accessible route from entrance door <sup>1,4</sup> , ideally through a straight-line path <sup>5</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
16.		Signage	Simple appropriate signage and well located for easy orientation from the entrance to the reception <sup>2,4,5</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
17.	Information	Queue management <ul style="list-style-type: none"> <li>Visual and audible queue management system</li> <li>Speech synthesis or presence of an employee at all times<sup>4</sup></li> <li>Indications on welcoming individuals with physical disabilities<sup>8</sup></li> </ul>			<input type="checkbox"/>	<input type="checkbox"/>		
18.		Mobility equipment/aids	Possibility to rent them at the entrance (reception)			<input type="checkbox"/>	<input type="checkbox"/>	

## 11. Desks



### References

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Unpublished

## 12. Tables and chairs



### Additional Information



- Ischial supports may constitute interesting solutions even for people standing in places where there is little space, in order to still provide rest areas<sup>1</sup>
- Provide larger seats or seats with foldable armrests<sup>2</sup>

#	Elements	Components	Criteria	Actual measures	Absent	Compliance		Observations and modifications
								
1.	Table	Manoeuvring area	Free, firm, and level of $\geq 850 \times 1200 \text{mm}^3$			<input type="checkbox"/>	<input type="checkbox"/>	
2.		Clearance	Height: $\geq 680 \text{mm}$ (or have an adjustable height) with extension $\leq 100 \text{mm}$ of supports <sup>3</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
3.			Width: $\geq 750 \text{mm}^3$			<input type="checkbox"/>	<input type="checkbox"/>	
4.			Depth: $\geq 480 \text{mm}$ , can overlap the clear floor area <sup>3</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
5.		Height - surface	730-860mm <sup>3</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
6.			950-1100mm for persons standing <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
7.		Contrast	Between the furniture and the environment: <ul style="list-style-type: none"> <li>• <math>\geq 70\%</math> with the walls and the floor<sup>4</sup></li> <li>• Addition of a contrasting stripe on the desk's periphery<sup>5</sup></li> </ul>			<input type="checkbox"/>	<input type="checkbox"/>	
8.			Surface: Glare-free <sup>5</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
9.			Medium-coloured surface (contrasting with light/dark objects) <sup>4</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
10.		Lighting	Surfaces dedicated to reading and filling of documents: $\geq 200 \text{ lux}$ in the room and $350\text{-}450 \text{ lux}$ on the surface <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
11.	Seat	Seat surface	Stable <sup>3</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
12.			Detectable base on the ground at a height of $\leq 300 \text{mm}^1$			<input type="checkbox"/>	<input type="checkbox"/>	
13.			Height: $450\text{-}500 \text{mm}^{1,3}$			<input type="checkbox"/>	<input type="checkbox"/>	
14.			Depth: $400\text{-}450 \text{mm}^1$			<input type="checkbox"/>	<input type="checkbox"/>	
15.			Angle: $100\text{-}105^\circ$ . Avoid seats that are too inclined with the backrest <sup>1</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
16.			Shape: Avoid curved seat (slip, instability), flexible or slippery. Favour rounded corners <sup>1</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
17.			Base: Not exceeding the seat <sup>1</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
18.			Colour: Contrasted with the immediate environment <sup>1</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
19.	Backrest	Dense <sup>1</sup>			<input type="checkbox"/>	<input type="checkbox"/>		
20.		Height: $\geq 680 \text{mm}^3$			<input type="checkbox"/>	<input type="checkbox"/>		



## 12. Tables and chairs



#	Elements	Components	Criteria	Actual measures	Absent	Compliance		Observations and modifications
								
21.		Armrests	<ul style="list-style-type: none"> <li>Offer a variety of options, with or without<sup>1, 3, 6</sup></li> <li>Foldable armrests at row ends<sup>1, 2</sup></li> </ul>			<input type="checkbox"/>	<input type="checkbox"/>	
22.			Height: 220-300mm above the seat <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
23.			Set back from the front of the seat: $\geq 75\text{mm}^2$			<input type="checkbox"/>	<input type="checkbox"/>	
24.			Set back under the seat: $\leq 150\text{mm}^2$			<input type="checkbox"/>	<input type="checkbox"/>	

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## 13. Circulation – Accessible routes



### Additional information on accessible routes:

- The end of a hallway can be signalled by a contrasted colour on the perpendicular wall<sup>1</sup>
- Tactile direction indicators should be used in large open floor areas, such as shopping malls or transportation terminals, to facilitate wayfinding by indicating the main circulation routes.<sup>2</sup> It can be relevant to add handrails on each side of hallways<sup>3</sup> (**see section on Hand- and Guardrails**)
- For lineup guides: Ensure a coherent and homogeneous implantation<sup>4</sup>
- Provide convex mirrors enabling a better visibility in places where the visual field may be obstructed<sup>3</sup>

### Additional information for lighting accessibility:

- Favour a glare-free ambient lighting (150 lux) which shines upwards with added task lighting (300 lux) on information or significant elements<sup>3</sup>
- Lighting should be uniform, being that light sources should be evenly distributed in the lit volume without creating shadow areas<sup>5, 6</sup>
- Depending on the room's orientation and the presence of a glaring effect, consider the use of blinds, shades, curtains, filtering films or sun shade outside.<sup>4</sup> Prevent glare by controlling backlight effects<sup>3</sup>
- Consider colour temperature by prioritizing neutral white lighting ranging between 4000-5000 K<sup>1</sup>
- Light sources (bulbs) should not be visible<sup>1, 5</sup>
- For direct lighting, provide louvres, deflector grid or a shield<sup>5, 6</sup>
- Lighting in hallways should be in the same direction as the circulation in order to facilitate wayfinding<sup>5</sup>
- Lighting that is switched on by motion detector is not the ideal solution for individuals with visual disabilities given the possible sudden glare. Lighting should be triggered at a certain distance from the light source to provide an adaptation period<sup>4</sup>

### Additional information for acoustic accessibility:

- Reduce noise to the lowest possible (both from outside and inside the building)<sup>3, 5, 7</sup>, the presence of a separation/buffer zone can be useful<sup>5</sup>
- Good acoustics shall be achieved by optimizing the reverberation time, by considering the use/purpose of the room and by ensuring a low background noise level. It is necessary to determine the optimum reverberation time on the basis of the volume and the intended purpose of the room<sup>5</sup>
- The geometry and shape of the room, as well as the distribution of absorbing and reflecting surfaces constitute important elements. It is necessary to pay keen attention to the choice of sound absorbing surfaces as well as the choice of surfaces that reflect it. It is possible to cover floors and ceilings with sound absorbent surfaces in order to develop an effective acoustic environment<sup>5</sup>

## 13. Circulation – Accessible routes



#	Elements	Components	Criteria	Actual measures	Absent	Compliance		Observations and modifications
1.	Accessible routes	Free and level manoeuvring area	<ul style="list-style-type: none"> <li>Outside: <math>\geq 2250 \times 2250 \text{mm}^2</math></li> <li>Stationary position: <math>\geq 750 \times 1200 \text{mm}^2</math></li> <li>For a U-turn (<math>180^\circ</math>): <math>\geq 1500 \times 1500 \text{mm}^2</math>, 5, 7</li> <li>Forward and side approach: <math>\geq 1200 \times 1200 \text{mm}^2</math></li> </ul>			<input type="checkbox"/>	<input type="checkbox"/>	
2.		Running slope	$\leq 5\%$ (1:20) <sup>2, 3</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
3.		Cross slope	$\leq 2\%$ (1:50) <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
4.		Surface	Firm, stable and slip-resistant even if wet <sup>2, 3, 7</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
5.			Without opening (slot) <sup>3</sup> <ul style="list-style-type: none"> <li>Where there are openings: The wider opening <math>\leq 13 \text{mm}</math><sup>2, 8, 9</sup> and perpendicular to the direction of the circulation<sup>2, 3</sup></li> </ul>			<input type="checkbox"/>	<input type="checkbox"/>	
6.			Without step and without abrupt level change <sup>3</sup> <ul style="list-style-type: none"> <li>Where there is a level change, step or ramp: Passageway signalled by marking as presenting handrails</li> <li>Elevation of 0-6mm can be vertical<sup>2</sup></li> <li>Elevation of 7-13mm: Bevelled, but <math>\leq 50\%</math> (1:2)<sup>2</sup></li> <li>Elevation <math>\geq 13 \text{mm}</math>: <math>\leq 8.33\%</math> (1:12)<sup>2</sup></li> </ul>			<input type="checkbox"/>	<input type="checkbox"/>	
7.			Without unstable carpet <sup>2</sup> <ul style="list-style-type: none"> <li>Where there is a carpet: Low, firm piles/loops, securely fastened, of a height of <math>\leq 13 \text{mm}</math><sup>2</sup></li> <li>Avoid dark colours<sup>6</sup></li> </ul>			<input type="checkbox"/>	<input type="checkbox"/>	
8.			Width	<ul style="list-style-type: none"> <li>1200mm, ideally <math>\geq 1800 \text{mm}</math><sup>3, 5</sup></li> <li>For short narrowing of the path <math>\leq 600 \text{mm}</math> in length: <math>\geq 810 \text{mm}^2</math></li> <li>For a door: <math>\geq 810 \text{mm}^2</math></li> <li>For U-turn bypassing an obstacle <math>&lt; 1200 \text{mm}</math> wide: <math>\geq 1100 \text{mm}^2</math></li> <li>Where the hallway is <math>&lt; 1800 \text{mm}</math> wide: Avoiding area 1800mm wide and <math>&lt; 1800 \text{mm}</math> long at reasonable intervals<sup>2</sup></li> <li>Where circulation is high: <math>\geq 1500 \text{mm}^2</math></li> <li>For aisles: <math>\geq 920 \text{mm}^2</math></li> </ul>			<input type="checkbox"/>	<input type="checkbox"/>
9.		Dimensions for turns	<ul style="list-style-type: none"> <li>At <math>90^\circ</math>: <math>\geq 1200 \times 1200 \text{mm}^5</math></li> <li>At <math>180^\circ</math>: <math>\geq 2000 \text{mm}</math> (in the direction of the route), <math>\geq 1500 \text{mm}</math> wide<sup>5</sup></li> </ul>			<input type="checkbox"/>	<input type="checkbox"/>	
10.			Convex mirrors should be installed at junctions <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
11.		Free height	$\geq 2100 \text{mm}^5$			<input type="checkbox"/>	<input type="checkbox"/>	



### 13. Circulation – Accessible routes



#	Elements	Components	Criteria	Actual measures	Absent	Compliance		Observations and modifications
12.		Contrast	Colour-contrasted ( $\geq 70\%$ ) with surrounding objects <sup>2,3</sup> <ul style="list-style-type: none"> <li>• Medium to dark shade (e.g. medium grey)</li> <li>• Non complex patterns not confusing for individuals with visual disabilities<sup>2, 10, 11</sup></li> </ul>			<input type="checkbox"/>	<input type="checkbox"/>	
13.		Finish	Glare-free finish <sup>2, 3, 6, 7</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
14.		Lighting	Uniform, continuous, and glare-free located on the circulation area: $\geq 200$ lux with luminous transitions $\leq 300$ lux <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
15.		Orientation guides	Stable, do not move easily and cane-detectable at a height of $\leq 680$ mm <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
16.			Clear floor area where there are changes in direction and where they begin and end: $\geq 1500 \times 1500$ mm <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
17.			Width between guides: $\geq 920$ mm <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
18.	Tactile tiles	Location	<ul style="list-style-type: none"> <li>• Along the full width of a potential hazard<sup>2</sup></li> <li>• At elevation and direction changes (domes)<sup>2</sup></li> <li>• On an unprotected edge where the elevation change <math>&gt; 250</math>mm or the slope <math>&gt; 33\%</math> (1:3)<sup>2</sup></li> <li>• Waiting areas of public transports stops<sup>4</sup></li> <li>• To spot the elevator call buttons or a shop entrance<sup>4</sup></li> </ul>			<input type="checkbox"/>	<input type="checkbox"/>	
19.		Shape of plates	Square <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
20.		Width	600-650mm <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
21.		Height of domes	5 $\pm$ 1mm <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
22.		Diameter at the base	10 $\pm$ 1mm larger than the diameter at the upper part <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
23.		Distance between the axis of domes	<ul style="list-style-type: none"> <li>• Where the diameter at the base is of 22mm: 55-61mm<sup>2</sup></li> <li>• Where the diameter at the base is of 25mm: 57-63mm<sup>2</sup></li> </ul>			<input type="checkbox"/>	<input type="checkbox"/>	
24.		Specifications for a step	Slip-resistant and at the level of the nearby surface, therefore not rendering the step dangerous due to an irregular surface <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
25.	Contrast	$\geq 70\%$ with the colour of the nearby surface <sup>2</sup> <ul style="list-style-type: none"> <li>• If yellow: Contrast <math>\geq 40\%</math> with the nearby surface<sup>2</sup></li> </ul>			<input type="checkbox"/>	<input type="checkbox"/>		



### 13. Circulation – Accessible routes



#	Elements	Components	Criteria	Actual measures	Absent	Compliance		Observations and modifications
								
26.			Contrast with a minimum reflectance value of the lighter surface of 50 points <sup>5</sup> <ul style="list-style-type: none"> <li>If integrated units: <math>\geq 30</math> points<sup>5</sup></li> <li>If discrete units: <math>\geq 40</math> points<sup>5</sup></li> <li>If warning against a hazard: Difference in light reflectance value <math>\geq 50</math> points and the reflectance value of the lighter surface <math>\geq 60</math> points<sup>5</sup></li> </ul>			<input type="checkbox"/>	<input type="checkbox"/>	
27.	Tactile direction indicator	Width	250-300mm <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
28.		Clear space on each side	$\geq 600$ mm <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
29.		Shape	Stretched bars parallel to the route <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
30.	Tactile direction indicator crossing a path signalling an installation or a diverging route	Width	600-650mm <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
31.		Shape	Stretched bars placed in the direction leading to the installation or the diverging route <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
32.			A tactile direction indicator should be made up of flat, parallel and stretched bars <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
33.			Height: $5\pm 1$ mm <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
34.			Width at the upper part: 17-30mm <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
35.			Width at the base: $10\pm 1$ mm larger than the upper part's width <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
36.			Distance between axis with adjacent bars <sup>2</sup> <ul style="list-style-type: none"> <li>Where the bars' width is of 17mm: 72-78mm Spacing at the base: 27mm</li> <li>Where the bars' width is of 20mm: 73-80mm Spacing at the base: 30mm</li> <li>Where the bars' width is of 25mm: 75-83mm Spacing at the base: 35mm</li> <li>Where the bars' width is of 30mm: 80-85mm Spacing at the base: 40mm</li> </ul>			<input type="checkbox"/>	<input type="checkbox"/>	
37.			Length at the upper part: $\leq 270$ mm <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
38.			Length at the base: $10\pm 1$ mm longer than the upper part's length <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
39.			Distance between the edges of the parallel bars: $\leq 30$ mm <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
40.	Perpendicular strips between them:			<input type="checkbox"/>	<input type="checkbox"/>			

## 13. Circulation – Accessible routes



#	Elements	Components	Criteria	Actual measures	Absent	Compliance		Observations and modifications
								
			<ul style="list-style-type: none"> <li>At junctions: Juxtapose the strips by implanting a square tactile surface feature larger than the strips (<math>\geq 600 \times 600 \text{mm}</math>)<sup>4</sup></li> </ul>			<input type="checkbox"/>	<input type="checkbox"/>	
41.		Contrast	$\geq 70\%$ with the nearby colour and should not be yellow <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
42.		Where water can accumulate	Installed in a way that the bars are separated by a drainage space of a width of 20-30mm <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	

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## 14. Circulation - Walls



### Additional information on accessible routes:

- The end of a hallway can be signalled by a contrasted colour on the perpendicular wall<sup>1</sup>
- Provide convex mirrors enabling a better visibility in places where the visual field may be obstructed<sup>2</sup>

### Additional information for light accessibility:

- Favour a glare-free ambient lighting (150 lux) which shines upwards with added task lighting (300 lux) on information or significant elements<sup>2</sup>
- Lighting should be uniform, being that light sources should be evenly distributed in the lit volume without creating shadow areas<sup>3, 4</sup>
- Depending on the room's orientation and the presence of a glaring effect, consider the use of blinds, shades, curtains, filtering films or sun shade outside.<sup>5</sup> Prevent glare by controlling backlight effects<sup>2</sup>
- Consider colour temperature by prioritizing neutral white lighting ranging between 4000-5000 K<sup>1</sup>
- Light sources (bulbs) should not be visible<sup>1, 3</sup>
- For direct lighting, provide louvres, deflector grid or a shield<sup>3, 4</sup>
- Lighting in hallways should be in the same direction as the circulation in order to facilitate wayfinding<sup>3</sup>
- Lighting that is switched on by motion detector is not the ideal solution for individuals with visual disabilities given the possible sudden glare. Lighting should be triggered at a certain distance from the light source to provide an adaptation period<sup>5</sup>

### Additional information for acoustic accessibility:

- Reduce noise to the lowest possible (both from outside and inside the building)<sup>2, 3, 6</sup>, the presence of a separation/buffer zone can be useful<sup>3</sup>
- Good acoustics shall be achieved by optimizing the reverberation time, by considering the use/purpose of the room and by ensuring a low background noise level. It is necessary to determine the optimum reverberation time by taking into consideration the volume and the intended purpose of the room<sup>3</sup>
- The geometry and shape of the room, as well as the distribution of absorbing and reflecting surfaces constitute important elements. It is necessary to pay keen attention to the choice of sound absorbing surfaces as well as the choice of surfaces that reflect it. It is possible to cover floors and ceilings with sound absorbent surfaces in order to develop an effective acoustic environment<sup>3</sup>

## 14. Circulation - Walls



#	Elements	Components	Criteria	Actual measures	Absent	Compliance		Observations and modifications
1.	Walls	Surface	Smooth to avoid any risk of injury <sup>7</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
2.			Matt and non-reflective and avoid glass walls <sup>8,9</sup> <ul style="list-style-type: none"> <li>Where there is a glass wall: Horizontal fluorescent in the dark strips/motifs, contrasting (<math>\geq 70\%</math>) of <math>\geq 50\text{mm}</math> of width at a height of <math>1350\text{-}1500\text{mm}</math><sup>10</sup></li> </ul>			<input type="checkbox"/>	<input type="checkbox"/>	
3.			Absence of full length mirrors <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
4.		Contrast	Between the walls and the ceiling <sup>1</sup> <ul style="list-style-type: none"> <li>Where the walls and the ceiling are of similar colours: Add a contrasting moulding<sup>1</sup></li> </ul>			<input type="checkbox"/>	<input type="checkbox"/>	
5.			Between the walls and the floor <sup>1,2</sup> <ul style="list-style-type: none"> <li>Where the walls and the floor are of similar colours: Add contrasting baseboards<sup>1,2</sup></li> </ul>			<input type="checkbox"/>	<input type="checkbox"/>	
6.			Between the walls and the doors <sup>1</sup> <ul style="list-style-type: none"> <li>Where the walls and the doors are of similar colours: The door frame should be contrasted<sup>1</sup></li> </ul>			<input type="checkbox"/>	<input type="checkbox"/>	
7.			With accessories/obstacles (equipment, furniture, commands and services) and surrounding structures <sup>1,2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
8.		Colouring	Pastel tones and different depending on the floors with a high light reflection index, avoid white (glare) for walls, but favour it for ceilings (maximize reflection) <sup>1</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
9.			No big motifs nor overload of colours <sup>8</sup>			<input type="checkbox"/>	<input type="checkbox"/>	



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## 15. Circulation - Obstacles



#	Elements	Components	Criteria	Actual measures	Absent	Compliance		Observations and modifications
								
1.	Obstacles	Signage	All architectural barriers should be signalled with a contrasting stripe ( $\geq 70\%$ ) of 100mm around their perimeter or on each of their sides at a height of 1200-1400mm on a length $> 1/3$ of their width <sup>1</sup> Poles $< 1300$ m high should be signalled by a colour contrast of their upper part <sup>1</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
2.		Clearance and detectability	<ul style="list-style-type: none"> <li>Absence of obstacle in the circulation area<sup>2, 3</sup></li> <li>Object(s) located on the same side               <ul style="list-style-type: none"> <li>Protruding at a height <math>&lt; 350</math>mm or <math>&gt; 1980</math>mm<sup>2, 3</sup>, ideally <math>\geq 2030</math>mm<sup>3</sup></li> <li>Protruding <math>\leq 100</math>mm<sup>2-7</sup> at a height of 350-1980mm<sup>2, 3</sup></li> <li>Protruding <math>\geq 100</math>mm: Detectable at a height of 680mm<sup>3</sup></li> </ul> </li> </ul>			<input type="checkbox"/>	<input type="checkbox"/>	
3.		Warning feature	Shielded obstacles to protect against shocks and accompanied by a feature that warns of the presence of a potential hazard and is detectable <sup>6</sup> and placed at $\geq 600$ mm from the obstacle <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	

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## 16. Circulation - Staircase



**Additional Information:** Install benches close to a staircase<sup>1</sup>

#	Elements	Components	Criteria	Actual measures	Absent	Compliance		Observations and modifications	
1.	Signage	Location	Where it is not visible from the entrance <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>		
2.		Floors	Numbering at each floor <sup>3</sup> ( <b>see section on Signage</b> )			<input type="checkbox"/>	<input type="checkbox"/>		
3.	Stairwells	Location	<ul style="list-style-type: none"> <li>Perpendicular to circulation<sup>1,3</sup></li> <li>Set back from circulation area<sup>1</sup></li> </ul>			<input type="checkbox"/>	<input type="checkbox"/>		
<b>Where the underside is open, it should have the following characteristics:</b>									
4.		Contrast	Contrasted underside <sup>4</sup>			<input type="checkbox"/>	<input type="checkbox"/>		
5.		Partitioned	Ground cue <sup>3</sup> (height: 400mm <sup>2</sup> ) of contrasting colour (≥ 70%) limiting circulation where the clear height < 2030mm <sup>5,6</sup>			<input type="checkbox"/>	<input type="checkbox"/>		
<b>Where the staircase is located in an open area (not enclosed)<sup>7</sup>, at each landing incorporating an entrance into a stair system<sup>4</sup>, where the regular pattern of the stairway is broken<sup>4</sup> and where the flight to a landing is &gt; 2100mm<sup>4</sup> without a handrail, install a warning strip having the following characteristics:</b>									
6.		Location	On upper and lower landings of each flight of stairs across the entire width of the staircase <sup>7</sup>			<input type="checkbox"/>	<input type="checkbox"/>		
7.			Distance with respect to the first descending step: 300-500mm <sup>7</sup>			<input type="checkbox"/>	<input type="checkbox"/>		
8.		Depth	600-650mm from the tread of the staircase edge <sup>4</sup>			<input type="checkbox"/>	<input type="checkbox"/>		
9.	Flights of stairs	Number of steps	Odd (avoid systematic rise of the same foot) <sup>3</sup> : ≤ 16 risers <sup>7</sup> <ul style="list-style-type: none"> <li>Where the surface is limited ≤ 20 risers<sup>7</sup></li> </ul>			<input type="checkbox"/>	<input type="checkbox"/>		
10.		Dimensions	Unify the dimensions of flights and steps <sup>3</sup>			<input type="checkbox"/>	<input type="checkbox"/>		
11.			Favour changes of direction at 90° to preserve spatial orientation <sup>3</sup>			<input type="checkbox"/>	<input type="checkbox"/>		
12.		Width	≥ 1200mm <sup>7</sup>			<input type="checkbox"/>	<input type="checkbox"/>		
13.		Surface	Slip-resistant and hard <sup>3</sup>			<input type="checkbox"/>	<input type="checkbox"/>		
14.			Non-reflective <sup>3</sup>			<input type="checkbox"/>	<input type="checkbox"/>		
15.		Without patterned carpet <sup>3</sup>			<input type="checkbox"/>	<input type="checkbox"/>			
16.	Landings	Location	At the top and bottom of each flight of stairs <sup>3</sup>			<input type="checkbox"/>	<input type="checkbox"/>		
17.		Width	Same as the one of the steps (top and bottom of each flight) <sup>3</sup>			<input type="checkbox"/>	<input type="checkbox"/>		
18.		Length	≥ to the flight width <sup>3</sup> <ul style="list-style-type: none"> <li>If it is a straight staircase: ≥ 1100mm<sup>3</sup></li> </ul>			<input type="checkbox"/>	<input type="checkbox"/>		
19.		Contrast	Between the landings and the top and bottom steps of a flight of stairs <sup>7</sup> with a continuous strip of 40-50mm on the anterior edge of the tread of			<input type="checkbox"/>	<input type="checkbox"/>		

## 16. Circulation - Staircase



#	Elements	Components	Criteria	Actual measures	Absent	Compliance		Observations and modifications	
			each step that may be set back $\leq 15\text{mm}$ in front of nosing, covering the riser over $\leq 10\text{mm}$ <sup>7</sup> *** Alternative solution: Contrasted strip of 50-100mm on the tread of the first and last steps of the flight <sup>7</sup>						
20.	Risers	Configuration	Closed risers <sup>4, 7-11</sup>			<input type="checkbox"/>	<input type="checkbox"/>		
21.		Angle	$< 60^\circ$ <sup>12</sup>			<input type="checkbox"/>	<input type="checkbox"/>		
22.		Height	Constant: $\leq 180\text{mm}$ <sup>4</sup>			<input type="checkbox"/>	<input type="checkbox"/>		
23.	Steps	Depth	Constant <sup>3, 4</sup> , 1 step per step <sup>3</sup> ( $\geq 280\text{mm}$ <sup>4, 11-14</sup> ) ***Use deeper steps where there is much space <sup>3, 4</sup>			<input type="checkbox"/>	<input type="checkbox"/>		
24.		Contrast	Of uniform colour, non-reflective <sup>15</sup> and contrasting <sup>16</sup>			<input type="checkbox"/>	<input type="checkbox"/>		
25.	Nosing	Surface	Hard and slip-resistant <sup>2, 4</sup>			<input type="checkbox"/>	<input type="checkbox"/>		
26.		Shape	<ul style="list-style-type: none"> <li>Rounded<sup>3</sup></li> <li>Bevelled<sup>3</sup> and of a height <math>\leq 38\text{mm}</math> and not a trip hazard on the underside<sup>2, 4, 15</sup> <ul style="list-style-type: none"> <li>If protruding: Tilt towards the riser at an angle <math>&gt; 60^\circ</math> with the horizontal plane<sup>4</sup></li> </ul> </li> </ul>			<input type="checkbox"/>	<input type="checkbox"/>		
27.		Radius of curvature	$\leq 13\text{mm}$ <sup>4</sup>			<input type="checkbox"/>	<input type="checkbox"/>		
28.		Horizontal strip	Depth: $50\pm 10\text{mm}$ of a contrasting colour ( $\geq 70\%$ ) <sup>2, 3</sup> with tread and riser across the entire width of tread <sup>4</sup>			<input type="checkbox"/>	<input type="checkbox"/>		
29.	Lighting		At the top and bottom of each flight: $200\text{ lux}$ <sup>7</sup>			<input type="checkbox"/>	<input type="checkbox"/>		
30.			Between the flights: $150\text{ lux}$ <sup>7</sup>			<input type="checkbox"/>	<input type="checkbox"/>		
31.	Security	Light alarm	Beacon or strobe type in stairwells <sup>3</sup>			<input type="checkbox"/>	<input type="checkbox"/>		
<b>If it is an outdoor staircase, add:</b>									
32.	Outdoor staircase	Slope	$\leq 1:12$ (8%) <sup>3</sup>			<input type="checkbox"/>	<input type="checkbox"/>		
33.		Flights	Where the slope is $\geq 1:12$ (8%), with a drop-off of $< 2\text{m}$ and for which no other trail is possible: 3-5 steps, interrupted with landings <sup>3</sup>			<input type="checkbox"/>	<input type="checkbox"/>		
34.		Landings	Every 3700mm of height measured vertically, for slopes $\geq 35\%$ (1:3) <sup>3</sup>			<input type="checkbox"/>	<input type="checkbox"/>		
35.		Risers		Slightly opened to limit snow and ice accumulation <sup>3</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
36.					Slight slope towards the back (1:50 - 2%) in order to facilitate drainage <sup>3</sup>			<input type="checkbox"/>	<input type="checkbox"/>
37.	Steps		Depth: Greater to compensate for the hazard of snow and ice accumulation <sup>3</sup>			<input type="checkbox"/>	<input type="checkbox"/>		

## 16. Circulation - Staircase





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## 17. Circulation – Access ramp



#	Elements	Components	Criteria	Actual measures	Absent	Compliance		Observations and modifications
								
1.	Bottom landing <sup>1, 2</sup>	Surface	Level and free from obstacles <sup>3, 4</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
2.		Dimensions	≥ 1800x1800mm <sup>4</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
3.	Slopes	Running slope	<ul style="list-style-type: none"> <li>5-6.7% (1:20-1:15)<sup>1</sup></li> </ul> Where there is space limitation: <ul style="list-style-type: none"> <li>If &lt; 9m of length: Slope ≤ 8.33% (1:12)<sup>4</sup></li> <li>If ≥ 9m of length: Slope ≤ 6.25% (1:16)<sup>4</sup></li> </ul>			<input type="checkbox"/>	<input type="checkbox"/>	
4.		Cross slope	< 2% (1:50) <sup>1, 3, 5</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
5.	Dimensions of the level intermediate landing	Location	Every 9m <sup>1, 4</sup> and where there are changes in direction <sup>1, 2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
6.		Surface	Level and free from obstacles <sup>3, 4</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
7.		Dimensions: ≥ than the largest ramp leading to it <sup>1</sup>	<ul style="list-style-type: none"> <li>≤ 9m of length without change in direction<sup>1, 4</sup></li> <li>Ramp without change in direction &gt; 9m: Intermediate landing(s) of a length ≥ 1200mm<sup>4</sup></li> <li>L-shaped ramp: Intermediate landing(s) ≥ 1800x1800mm<sup>4</sup></li> <li>U-shaped ramp: Intermediate landing(s) ≥ 2200x2200mm<sup>4</sup></li> </ul>			<input type="checkbox"/>	<input type="checkbox"/>	
8.	Clear width		<ul style="list-style-type: none"> <li>Single ramp: Interior: ≥ 920mm<sup>1, 3</sup> Exterior: ≥ 1200mm<sup>1, 3, 4</sup></li> <li>Double ramp (2 lanes in width): ≥ 2200mm (intermediate handrail) and space between handrails &lt; 1650mm<sup>4</sup></li> </ul>			<input type="checkbox"/>	<input type="checkbox"/>	
9.	Edges	Height	Where the ramp/landing is not at the same level as the ground nor bordered by a wall <sup>4</sup> : ≥ 75mm <sup>1</sup> , each side of the ramp <sup>4</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
10.	Top landing <sup>1, 2</sup>	Surface	Level and free from obstacles <sup>3, 4</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
11.		Dimensions	≥ 1800x1800mm <sup>4</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
12.	Ground surface	Contrast on the ground	70% (visual) / materials (tactile) at the beginning and end of the ramp <sup>4, 6</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
13.		Where there is a change in gradient	Colour contrasting strip of a width of 50±10mm extending on the full width of the ramp <sup>1</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
14.		Surface	Slip-resistant for the ramp and the landings <sup>1, 3, 4, 7, 8</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
15.	If the landing leads to a door	Clearance on handle side	<ul style="list-style-type: none"> <li>If it opens towards the user: &gt; 750mm<sup>4</sup></li> <li>If it opens in the direction opposite to the user: &gt; 300mm<sup>4</sup></li> </ul>			<input type="checkbox"/>	<input type="checkbox"/>	
16.		Manoeuvring area	Diameter of ≥ 1800mm out of the door opening area <sup>4</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
17.	Weather protection <sup>4</sup>	Free height	≥ 1980mm			<input type="checkbox"/>	<input type="checkbox"/>	
18.		Obstacle	Not impeding on the circulation area of the ramp			<input type="checkbox"/>	<input type="checkbox"/>	

## 17. Circulation – Access ramp



#	Elements	Components	Criteria	Actual measures	Absent	Compliance		Observations and modifications
								
19.			Not hindering the use of handrails			<input type="checkbox"/>	<input type="checkbox"/>	
20.			Not limiting the level of lighting			<input type="checkbox"/>	<input type="checkbox"/>	
21.	Lighting		Continuous, glare-free, and uniform <sup>4</sup> : $\geq 150$ lux with luminous transitions $\leq 300$ lux <sup>1,6</sup>			<input type="checkbox"/>	<input type="checkbox"/>	

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## 18. Circulation – Handrails and guardrails





### Additional Information

- Mandatory where the slope of the ramp has a height of  $\geq 150\text{mm}^1$
- Any staircase of  $\geq 3$  steps should have an handrail on each side, an intermediate handrail<sup>2</sup> or a central handrail if the width  $> 2.4\text{m}^3$
- Presence of hand- and guardrails where the drop has a height  $\geq 600\text{mm}^{4,5}$
- Avoid obstacles on the edge of handrails<sup>4</sup>
- Handrails' resistance:  $\leq 1.3$  kN applied in all directions<sup>1</sup>

#	Elements	Components	Criteria	Actual measures	Absent	Compliance		Observations and modifications
								
1.	Handrails	Location	1 handrail on each side <sup>1,4,6-8</sup> at a height of 860-920mm <sup>1</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
			<b>Where there is a staircase</b>					
2.			At 90° with the steps and no spiral staircase <sup>4,5</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
3.		Shape	<ul style="list-style-type: none"> <li>• Circular with an outside diameter of 30-40mm<sup>1</sup></li> <li>• Elliptical with an outside perimeter of 100-125mm, with the biggest section <math>\leq 45\text{mm}^1</math></li> </ul>			<input type="checkbox"/>	<input type="checkbox"/>	
4.		Fixation	Underneath (continuous grip) <sup>1,4</sup> <ul style="list-style-type: none"> <li>• Staircase: Continuous on the inner side and around landings <math>\leq 2100\text{mm}</math> of length, except where the landing is intersected by an alternative access route or has an entry door<sup>1</sup></li> </ul>			<input type="checkbox"/>	<input type="checkbox"/>	
5.		Clear width between handrails	<ul style="list-style-type: none"> <li>• Single ramp:               <ul style="list-style-type: none"> <li>• Interior: <math>\geq 920\text{mm}^{1,5}</math></li> <li>• Exterior: <math>\geq 1200\text{mm}^{1,5}</math></li> </ul> </li> <li>• Double ramp (2 lanes in width): <math>\geq 2200\text{mm}</math> (intermediate handrail) and space between handrails <math>&lt; 1650\text{mm}^4</math></li> <li>• Simple staircase: <math>\geq 1000\text{mm}^5</math></li> <li>• Double staircase: Intermediate handrail where the width of the passage is <math>&gt; 2400\text{mm}^9</math></li> </ul>			<input type="checkbox"/>	<input type="checkbox"/>	
6.		Horizontal extension (flat)	Continuous with handrail of 300mm at extremities <sup>1,4-8</sup> (staircase: at a distance of 1 tread with respect to the last step <sup>1</sup> ) and turned down ends (detectable : $\leq 680\text{mm}^1$ ), a post/towards the wall <sup>1,4</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
7.	Distance handrail - wall	<ul style="list-style-type: none"> <li>• If the wall surface is smooth: 35-45mm<sup>1</sup></li> <li>• If the wall surface is rough: 45-60mm<sup>1</sup></li> <li>• If the handrail is in a recess: Handrail extending <math>\geq 450\text{mm}</math> above the handrail<sup>1</sup></li> </ul>			<input type="checkbox"/>	<input type="checkbox"/>		

## 18. Circulation – Handrails and guardrails



#	Elements	Components	Criteria	Actual measures	Absent	Compliance		Observations and modifications
								
8.		Contrast	Colour-contrasted ( $\geq 70\%$ ) with the walls and the ramp/staircase <sup>1, 4, 9, 10</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
9.		Texture	Non-rough surface <sup>4</sup> , without protruding elements <sup>1</sup> and not conveying cold nor heat <sup>1, 4</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
10.	Guardrail	To be installed if	Height of drop $\geq 600\text{mm}$ : Protections from that place <sup>5</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
11.		Configuration	Without horizontal bar, full <sup>4</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
12.			Openwork sections not allowing objects $\leq 100\text{mm}^4$ to pass			<input type="checkbox"/>	<input type="checkbox"/>	

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## 19. Circulation - Elevator



### Additional Information

- Avoid tactile screen or touchscreen controls<sup>1</sup>
- Surface materials that a user can be allergic to include nickel, chromium, cobalt and natural or synthetic rubber; these materials should not be used in buttons, controls, handles or handrails<sup>2</sup>
- Where the cab dimensions do not allow the rotation of a wheelchair user, a device (e.g. a small mirror) shall be installed to enable the user to observe obstacles located behind him when exiting the cab backwards. The glass of the mirror should be a safety glass<sup>2</sup>
- Place a mirror facing the door with its lower edge at 600mm and its upper edge at  $\geq 1200$ mm in order to enable wheelchair users to see the configuration of the hall in which they are entering as well as the potential obstacles<sup>2</sup>
- Operating force needed to activate the emergency device - two-way communication system:  $\geq 2.5 \text{ N}^2$

#	Elements	Components	Criteria	Actual measures	Absent	Compliance		Observations and modifications
1.	Elevators	Manoeuvring area	Clear and level in front of the elevator (at the entry and exit) <sup>2</sup> : $\geq 1500 \times 1500 \text{ mm}^{2-4}$ , ideally $1800 \times 1800 \text{ mm}$			<input type="checkbox"/>	<input type="checkbox"/>	
2.		Stopping accuracy	$\leq 13 \text{ mm}^{4-6}$ at the entry and the exit			<input type="checkbox"/>	<input type="checkbox"/>	
3.		Door width	$> 915 \text{ mm}^{4-7}$ <ul style="list-style-type: none"> <li>• Where the door is centered: <math>1065 \text{ mm}^{5-7}</math></li> </ul>			<input type="checkbox"/>	<input type="checkbox"/>	
4.		Door opening time	$\geq 20 \text{ seconds}^{5,6}$ (with the possibility to close the cab doors from the inside)			<input type="checkbox"/>	<input type="checkbox"/>	
5.		Cab dimensions	<ul style="list-style-type: none"> <li>• Where the door is centered on the cab wall: <math>2030 \times 1295 \text{ mm}^5</math>, ideally <math>1700 \text{ mm}^4</math></li> <li>• Where the door is not centered on the cab wall: <math>1725 \times 1295 \text{ mm}^5</math>, ideally <math>1400 \text{ mm}^4</math></li> </ul>			<input type="checkbox"/>	<input type="checkbox"/>	
6.		Cab floor	Hard and slip-resistant <sup>2, 4-8</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
7.		Surfaces	Matte and non-reflective <sup>2, 4-8</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
8.		Contrast	Surfaces and devices of the cab should be visually contrasted as compared to the rest, including the door and its frame <sup>1, 2</sup> and between the floor and the walls <sup>4</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
9.		Handrails	On three sides <sup>3, 4</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
10.			Shape: <ul style="list-style-type: none"> <li>• Circular with an outside diameter of <math>30-40 \text{ mm}^5</math></li> <li>• Elliptical with an outside perimeter of <math>100-125 \text{ mm}</math>, with the biggest section <math>\leq 45 \text{ mm}^5</math></li> </ul>			<input type="checkbox"/>	<input type="checkbox"/>	

## 19. Circulation - Elevator



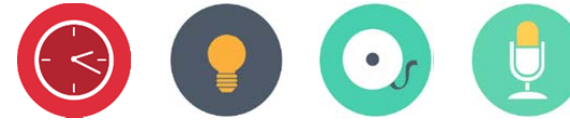
#	Elements	Components	Criteria	Actual measures	Absent	Compliance		Observations and modifications
11.			Height: 800-920mm <sup>4, 5, 7, 8</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
12.			Space between handrail and panel: 35-40mm <sup>2, 4, 5, 7</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
13.			Contrast: ≥ 70% with the walls and the floor <sup>3-5, 9</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
14.			Texture: Non-rough surface <sup>4</sup> , without protruding elements <sup>5</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
15.		Lighting	Uniform of ≥ 100 lux on the ground (avoid spotlights) <sup>2, 4, 5, 7</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
16.		Folding seat (If elevator for > 10 floors) <sup>3</sup>	Height: 500±20mm <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
17.			Depth: 300-400mm <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
18.			Width: 400-500mm <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
19.			Resistance: ≥ 100kg, ideally 200kg <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
20.	Signage	Audible	Where there are many elevators, indicate the one that will open using a sound and light signal <sup>1</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
21.			Audible speech synthesis <sup>3, 8</sup> indicating the floor number <sup>4</sup> and its destination <sup>5-7</sup> of 10-80 dB, ≥ 10 dB above ambient noise <sup>4</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
22.			Beeping sound, audible inside as well as outside the cab, signalling the opening of the doors and the elevator's direction of 10-80 dB, ≥ 10 dB above ambient noise <sup>4</sup> <ul style="list-style-type: none"> <li>1 beep to go up and 2 beeps to go down<sup>4</sup></li> </ul>			<input type="checkbox"/>	<input type="checkbox"/>	
23.		Visual	Signage of each floor at all the floors outside and inside the cab on the external jamb of the sliding door <sup>9</sup> at a height of 1500mm <sup>4</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
24.			Colour-contrasted signage with the background (≥ 70%) <sup>4</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
25.			Braille signage <sup>3, 4, 9</sup> At a distance < 10mm from the signage <sup>9</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
26.			Colour-contrasted Braille signage with the background (≥ 70%) <sup>4</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
27.			Indications on the ground at the entry of the elevator <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
28.		Light indicator	Diameter: ≥ 60mm <sup>4</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
29.			<ul style="list-style-type: none"> <li>Centered above the doors and height of the centre at 2-2.4m<sup>4</sup></li> <li>On the exterior frame of the door and height of the centre at 1500<sup>4</sup>±100mm</li> </ul>			<input type="checkbox"/>	<input type="checkbox"/>	
30.	Controls at landing(s)	Distance from any adjacent corner/wall	≥ 500mm, ideally 600mm <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
31.		Height	900-1200mm, ideally 1100mm <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
32.		Diameter	≥ 20mm <sup>4</sup> , ideally 30mm <sup>3</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
33.		Location	<ul style="list-style-type: none"> <li>1 elevator: Control on the right if space allows it<sup>4</sup></li> </ul>			<input type="checkbox"/>	<input type="checkbox"/>	

## 19. Circulation - Elevator



#	Elements	Components	Criteria	Actual measures	Absent	Compliance		Observations and modifications
			<ul style="list-style-type: none"> <li>&gt; 1 elevator: Controls centered between the doors<sup>4</sup></li> </ul>			<input type="checkbox"/>	<input type="checkbox"/>	
34.			Upward button located above downward button <sup>4</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
35.		Type	Recessed / touch button not sinking at $\geq 9\text{mm}^4$			<input type="checkbox"/>	<input type="checkbox"/>	
36.		Signage	Raised pictogram ( $\geq 1.5\text{mm}$ ) on the colour contrasting button ( $\geq 70\%$ ) indicating the function of the button <sup>4</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
37.		Lighting	<ul style="list-style-type: none"> <li>Completely lit rearward<sup>1, 4</sup></li> <li>Rim of the button is lit<sup>3</sup></li> </ul>			<input type="checkbox"/>	<input type="checkbox"/>	
38.			Luminescent during the call and off at the opening of the doors <sup>4</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
39.		Operability	Operable with a fist without torsion of the wrist			<input type="checkbox"/>	<input type="checkbox"/>	
40.		Required force	Require little force (use of 2 fingers) <sup>10</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
41.	Cab controls	Distance from any adjacent corner/wall	$\geq 400\text{mm}^4$ , ideally $500\text{mm}^2$			<input type="checkbox"/>	<input type="checkbox"/>	
42.		Height	900-1200mm, ideally 1100mm <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
43.		Diameter	$\geq 20\text{mm}^4$ , ideally $30\text{mm}^3$			<input type="checkbox"/>	<input type="checkbox"/>	
44.		Type	Recessed / touch button not sinking at $\geq 9\text{mm}^4$			<input type="checkbox"/>	<input type="checkbox"/>	
45.		Signage	Raised ( $\geq 1.5\text{mm}$ ) <sup>4</sup> Arabic numerals <sup>2, 4-7</sup> on the colour contrasting button ( $\geq 70\%$ ) <sup>1, 4</sup> indicating the function of the button <sup>4</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
46.			Braille signage <sup>2, 4-7</sup> on the button <sup>4</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
47.		Lighting	<ul style="list-style-type: none"> <li>Completely lit rearward<sup>1, 4</sup></li> <li>Rim of the button is lit<sup>3</sup></li> </ul>			<input type="checkbox"/>	<input type="checkbox"/>	
48.			Luminescent during the call and off at the opening of the doors <sup>4</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
49.		Surface	Non-reflective (controls and plate of the panel)			<input type="checkbox"/>	<input type="checkbox"/>	
50.		Operability	Operable with a fist without torsion of the wrist			<input type="checkbox"/>	<input type="checkbox"/>	
51.		Required force	Require little force (use of 2 fingers) <sup>10</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
52.		Security	Emergency button (including two-way communication)	Located at the base of the panel at a height $\leq 890\text{mm}^4$			<input type="checkbox"/>	<input type="checkbox"/>
53.	Diameter: $\geq 20\text{mm}^4$ , ideally $30\text{mm}^3$					<input type="checkbox"/>	<input type="checkbox"/>	
54.	Type: Recessed / touch button not sinking at $\geq 9\text{mm}^4$					<input type="checkbox"/>	<input type="checkbox"/>	
55.	Signage: Raised pictogram ( $\geq 1.5\text{mm}$ ) on the colour contrasting button ( $\geq 70\%$ ) indicating the function of the button <sup>4</sup>					<input type="checkbox"/>	<input type="checkbox"/>	
56.	Braille signage <sup>2, 4-7</sup> on the button <sup>4</sup>					<input type="checkbox"/>	<input type="checkbox"/>	
57.		Lighting:				<input type="checkbox"/>	<input type="checkbox"/>	

## 19. Circulation - Elevator



#	Elements	Components	Criteria	Actual measures	Absent	Compliance		Observations and modifications
			<ul style="list-style-type: none"> <li>Completely lit rearward<sup>1, 4</sup></li> <li>Rim of the button is lit<sup>3</sup></li> </ul>			<input type="checkbox"/>	<input type="checkbox"/>	
58.			Operability: Operable with a fist without torsion of the wrist			<input type="checkbox"/>	<input type="checkbox"/>	
59.			Required force: Require little force (use of 2 fingers) <sup>10</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
60.		Telephone or videophone	Centered at a height ≤ 1200mm equipped with a cord ≥ 915mm <sup>4</sup> <ul style="list-style-type: none"> <li>Where the telephone is behind a door: It can be opened with a fist without torsion of the wrist and require little force (use of 2 fingers)</li> </ul>			<input type="checkbox"/>	<input type="checkbox"/>	
61.		Emergency device - two-way communication system	Permanently connected to a security station ensuring a bidirectional communication with a response service or the person in charge of safety of the building <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
62.			Provide visual and audible information feedback to passengers confirming that the request for emergency assistance has been sent, using a yellow lit bell-shaped symbol, and that it has been received <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
63.			Light alarm of beacon or strobe type inside the cab to signal a fire alarm in the building <sup>4</sup>			<input type="checkbox"/>	<input type="checkbox"/>	



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## 20. Circulation – Platform lift



**Additional Information:** Used exclusively to transport persons (not goods)<sup>1</sup>

#	Elements	Components	Criteria	Actual measures	Absent	Compliance		Observations and modifications
								
1.	Exterior	Manoeuvring area	Free and level of a diameter of $\geq 1500\text{mm}^2$			<input type="checkbox"/>	<input type="checkbox"/>	
2.	Threshold	Height	$\leq 13\text{mm}$ at the entry and at the exit			<input type="checkbox"/>	<input type="checkbox"/>	
3.	Doors	Width	$> 865\text{mm}$			<input type="checkbox"/>	<input type="checkbox"/>	
4.	Cab dimensions		<ul style="list-style-type: none"> <li>Where the same door is used for entry and exit: <math>\geq 1500 \times 1500\text{mm}^3</math></li> <li>Where different doors are used for entry and exit: <math>\geq 1400 \times 865\text{mm}^3</math></li> </ul>			<input type="checkbox"/>	<input type="checkbox"/>	
5.	Surfaces	Ground surface	Hard and slip-resistant			<input type="checkbox"/>	<input type="checkbox"/>	
6.		Surface	Matte non-reflective surfaces			<input type="checkbox"/>	<input type="checkbox"/>	
7.	Edge protectors	Height	$\geq 1065\text{mm}^3$			<input type="checkbox"/>	<input type="checkbox"/>	
8.		Surface	Smooth, hard and continuous protections <sup>4</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
9.	Controls	Type	Maintained pressure (push-button / toggle switch) coming back to off position if released <sup>1</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
10.		Height	900-1200mm, ideally 1100mm			<input type="checkbox"/>	<input type="checkbox"/>	
11.		Diameter	$\geq 20\text{mm}$			<input type="checkbox"/>	<input type="checkbox"/>	
12.		Operability	Operable with a fist without torsion of the wrist			<input type="checkbox"/>	<input type="checkbox"/>	
13.		Required force	Require little force (use of 2 fingers)			<input type="checkbox"/>	<input type="checkbox"/>	
14.	Information		Accessible and easy-to-understand operating mode and security measures <sup>1</sup> (see assessment Signage)			<input type="checkbox"/>	<input type="checkbox"/>	
15.	Lighting		Uniform of $\geq 100$ lux on the ground (avoid spotlights)			<input type="checkbox"/>	<input type="checkbox"/>	
16.	Security	Emergency button	Centre at a height of $\leq 890\text{mm}$			<input type="checkbox"/>	<input type="checkbox"/>	
17.		Communication	Equipped with a communication system available in the event of failure <sup>1</sup>			<input type="checkbox"/>	<input type="checkbox"/>	

### References

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4. ISO. *Building construction — Accessibility and usability of the built environment*. 2011.

## 21. Manoeuvring devices



#	Elements	Components	Criteria	Actual measures	Absent	Compliance		Observations and modifications
1.	Manoeuvring devices (switches, electrical outlets, etc.)	Manoeuvring area in front	Clear and level: $\geq 750 \times 1200 \text{mm}^1$ Forward approach: $1200 \times 1200 \text{mm}^1$			<input type="checkbox"/>	<input type="checkbox"/>	
2.		Distance of an interior angle	$\geq 600 \text{mm}$ , ideally $700 \text{mm}^2$			<input type="checkbox"/>	<input type="checkbox"/>	
3.		Height of controls	$400-1200 \text{mm}^{1,3}$ <ul style="list-style-type: none"> <li>Where they are on a horizontal surface: <math>800-900 \text{mm}</math> and at <math>300 \text{mm}</math> from the edge of the surface<sup>3</sup></li> </ul>			<input type="checkbox"/>	<input type="checkbox"/>	
4.		Height of display	$1200-1400 \text{mm}$			<input type="checkbox"/>	<input type="checkbox"/>	
5.		Information	Easy-to-understand controls, not requiring special knowledge <sup>2</sup> and providing tactile and audible information <sup>1</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
6.			Contrast: $\geq 70\%$ with the adjacent wall or surface <sup>3,4</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
7.		Controls' operability	Operable with one hand <sup>1,3</sup> , not requiring tightening, pinching or torsion of the wrist <sup>1</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
8.		Lighting	$\geq 100 \text{ lux}^1$ <ul style="list-style-type: none"> <li>Where reading is necessary: <math>200 \text{ lux}^1</math></li> </ul>			<input type="checkbox"/>	<input type="checkbox"/>	



### References

1. CSA Group. *Accessible Design for the Built Environment*. Mississauga, Ontario: CSA Group; 2012.
2. ISO. *Building construction — Accessibility and usability of the built environment*. 2011.
3. Service de l'aménagement du territoire de la Ville de Québec. Guide pratique d'accessibilité universelle. 2010. [cited. Available from: [www.irdpq.gc.ca/communication/publications/guide\\_accessibilite/acces\\_Manuel\\_utilisation\\_2010.pdf](http://www.irdpq.gc.ca/communication/publications/guide_accessibilite/acces_Manuel_utilisation_2010.pdf).
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## 22. Equipment





**Additional information on access to equipment:** Force required to operate a drinking fountain: Little force, 19.5 N<sup>1</sup>. Force required for other equipment: > 22 N<sup>2, 3</sup>

#	Elements	Components	Criteria	Actual measures	Absent	Compliance		Observations and modifications
								
1.	Drinking fountain	Number	≥ 1 accessible equipment per equipment type (≥ 1 fountain/floor) <sup>3</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
2.		Signage	Identification of the presence/location <sup>3</sup> from the entrance of the building <sup>1</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
3.			Cane-detectable from the floor <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
4.		Manoeuvring area	Free and level of ≥ 1500mm <sup>2(square)</sup> , ideally 1800mm <sup>2(square)</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
5.		Clear space	Between the equipment and the adjacent wall: ≥ 300mm <sup>3</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
6.		Fixation	<ul style="list-style-type: none"> <li>Recessed<sup>2</sup></li> <li>Positioned in a way that it does not impede on the access route<sup>2</sup> and having the following characteristics: <ul style="list-style-type: none"> <li>Protruding at ≤ 100mm into circulation area when the front edge is located at a height of 350-1980mm<sup>3</sup></li> <li>Detectable with a cue on the ground<sup>3</sup></li> </ul> </li> </ul>			<input type="checkbox"/>	<input type="checkbox"/>	
7.		Contrast	Of a contrasting colour (≥ 70%) with the nearby surfaces (walls, floor) <sup>2, 3</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
8.			Absence of glare or reflection on the surfaces <sup>1, 3</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
9.		Lighting	Uniform, continuous and glare-free of ≥ 300 lux <sup>3</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
10.		Clearance	Width: ≥ 750mm <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
11.			Depth: ≥ 200mm <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
12.			Height: ≥ 680mm <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
13.		Water flow control	Allow to adjust the water flow and height of the stream <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
14.			<ul style="list-style-type: none"> <li>In front of the unit<sup>2, 3</sup></li> <li>On the side at &lt; 150mm from the front<sup>4</sup></li> </ul>			<input type="checkbox"/>	<input type="checkbox"/>	
15.			Operability: Should not be operated by foot <sup>2</sup> and operable with a fist without torsion of the wrist <sup>3</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
16.		Spout	In front of the unit <sup>2, 3</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
17.			Height: 750-900mm <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
18.		Stream	Parallel with the front of the unit <sup>2, 3</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
19.			Height: 100mm <sup>2, 3</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
20.		Automatic teller	Number	≥ 1 accessible equipment per equipment type (≥ 1 fountain/floor) <sup>3</sup>			<input type="checkbox"/>	<input type="checkbox"/>
21.	Signage		Identification of the presence/location <sup>3</sup> from the entrance of the building <sup>1</sup>			<input type="checkbox"/>	<input type="checkbox"/>	

## 22. Equipment



#	Elements	Components	Criteria	Actual measures	Absent	Compliance		Observations and modifications
								
22.	machine		Cane-detectable from the floor <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
23.		Manoeuvring area	Free and level of $\geq 1500\text{mm}^{2(\text{square})}$ , ideally $1800\text{mm}^{2(\text{square})}$			<input type="checkbox"/>	<input type="checkbox"/>	
24.		Clear space	Between the equipment and the adjacent wall: $\geq 300\text{mm}^3$			<input type="checkbox"/>	<input type="checkbox"/>	
25.		Fixation	<ul style="list-style-type: none"> <li>Recessed<sup>2</sup></li> <li>Positioned in a way that it does not impede on the access route<sup>2</sup> and having the following characteristics: <ul style="list-style-type: none"> <li>Protruding at <math>\leq 100\text{mm}</math> into circulation area when the front edge is located at a height of <math>350\text{-}1980\text{mm}^3</math></li> <li>Detectable with a cue on the ground<sup>3</sup></li> </ul> </li> </ul>			<input type="checkbox"/>	<input type="checkbox"/>	
26.		Contrast	Of a contrasting colour ( $\geq 70\%$ ) with the nearby surfaces (walls, floor) <sup>2, 3</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
27.			Absence of glare or reflection on the surfaces <sup>1, 3</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
28.		Lighting	Uniform, continuous and glare-free of $\geq 300\text{ lux}^3$			<input type="checkbox"/>	<input type="checkbox"/>	
29.		Signage	Tactile graphic symbols on the surrounding surface representing the card and identifying the orientation for its insertion <sup>1</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
30.			Audible and visual signals indicating that access has been granted <sup>1</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
31.			Indicator lights identifying the different operations to be carried out (card, envelope, statement, booklet) <sup>3</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
32.		Clearance	Absence of a low shelf in front of the machine <sup>3</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
33.		Slots	Height: $800\text{-}1100\text{mm}$ , ideally $800\text{-}900\text{mm}^1$			<input type="checkbox"/>	<input type="checkbox"/>	
34.			With a bevelled edge <sup>1</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
35.			Colour contrast $\geq 70\%$ with the surrounding surface <sup>1</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
36.		Keypad	Absence of keyguards			<input type="checkbox"/>	<input type="checkbox"/>	
37.			Height: $800\text{-}1100\text{mm}$ readable from a standing and a seated position <sup>1</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
38.			Colour contrast: Keypad with the background <sup>1, 5</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
39.			Colour contrast: Characters with the keys <sup>1, 5</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
40.			Digits: Aligned from left to right and set out in a square shape where the "0" is under the 8 <sup>5</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
41.			Digit "5" at the centre with a raised marking <sup>5</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
42.	Screen	Centered			<input type="checkbox"/>	<input type="checkbox"/>		
43.		Height of the centre: $\leq 1200\text{mm}^3$			<input type="checkbox"/>	<input type="checkbox"/>		
44.		Contrasts facilitating reading <sup>3</sup>			<input type="checkbox"/>	<input type="checkbox"/>		



## 22. Equipment



#	Elements	Components	Criteria	Actual measures	Absent	Compliance		Observations and modifications
45.			Simple sans serif fonts			<input type="checkbox"/>	<input type="checkbox"/>	
46.		Headphone plugs	For the use of speech synthesis <sup>3</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
47.		Grab bar <sup>3</sup>	When used to stand, allow the person to be centered in front of the screen of the automated teller machine of 900±100mm			<input type="checkbox"/>	<input type="checkbox"/>	
48.		Desk	Presence of an accessible desk to write <sup>3</sup> ( <b>see section on Desk</b> )			<input type="checkbox"/>	<input type="checkbox"/>	
49.		Helpline <sup>3</sup>	Indication of a helpline telephone number <sup>3</sup> with a signage having the following characteristics: <ul style="list-style-type: none"> <li>• Characters of ≥ 22mm<sup>3</sup></li> <li>• Having a matte finish and being well-lit (≥ 300 lux)<sup>3</sup></li> <li>• Simple sans serif fonts<sup>3</sup></li> <li>• Key message (avoid sentences)<sup>3</sup></li> </ul>			<input type="checkbox"/>	<input type="checkbox"/>	
50.	Telephone	Number	≥ 1 accessible equipment per equipment type (≥ 1 fountain/floor) <sup>3</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
51.		Signage	Identification of the presence/location <sup>3</sup> from the entrance of the building <sup>1</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
52.			Cane-detectable from the floor <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
53.		Manoeuvring area	Free and level of ≥ 1500mm <sup>2(square)</sup> , ideally 1800mm <sup>2(square)</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
54.		Clear space	Between the equipment and the adjacent wall: ≥ 300mm <sup>3</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
55.		Fixation	<ul style="list-style-type: none"> <li>• Recessed<sup>2</sup></li> <li>• Positioned in a way that it does not impede on the access route<sup>2</sup> and having the following characteristics: <ul style="list-style-type: none"> <li>• Protruding at ≤ 100mm into circulation area when the front edge is located at a height of 350-1980mm<sup>3</sup></li> <li>• Detectable with a cue on the ground<sup>3</sup></li> </ul> </li> </ul>			<input type="checkbox"/>	<input type="checkbox"/>	
56.		Contrast	Of a contrasting colour (≥ 70%) with the nearby surfaces (walls, floor) <sup>2,3</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
57.			Absence of glare or reflection on the surfaces <sup>1,3</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
58.		Lighting	Uniform, continuous and glare-free of ≥ 300 lux <sup>3</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
59.		Adaptive equipment	Where a public telephone is equipped with a teletypewriter (TTY) or a telecommunication device for the deaf (TDD), it should be identified by the pictogram for a TTY <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
60.		Location	Near an accessible route or linked to an accessible route <sup>1,2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
61.			Outside of noise and electromagnetic interferences <sup>3</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
62.	On a firm, stable and slip-resistant surface <sup>2,5</sup>				<input type="checkbox"/>	<input type="checkbox"/>		



## 22. Equipment



#	Elements	Components	Criteria	Actual measures	Absent	Compliance		Observations and modifications
63.			Nearby movable chair/armchair			<input type="checkbox"/>	<input type="checkbox"/>	
64.		Coin slot	Height: ≤ 1200mm <sup>3</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
65.		Keypad	Keypad (TTD) <sup>3</sup> and function keys compliant with CSA T516 <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
66.			Height: ≤ 1100mm <sup>1</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
67.			Keys' background and writing of contrasting colours (≥ 70%) <sup>4</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
68.			Tactile cue on digit 5 <sup>1, 5</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
69.		Volume	Progressive volume control <sup>3</sup> compliant with CAN/CSA-T515 <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
70.		Cord	Length: ≥ 1000mm <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
71.		Shelf – phone book	Width: ≥ 450mm <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
72.			Depth: ≥ 300mm <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
73.			Height: 730-860mm <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
74.		Clearance for telephone for seated persons	Width: 750mm <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
75.			Depth: 1200mm <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
76.			Knee clearance of 680-730mm which may extent to ≤ 480mm under the shelf <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
77.		Number	≥ 1 accessible equipment per equipment type (≥ 1 fountain/floor) <sup>3</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
78.		Signage	Identification of the presence/location <sup>3</sup> from the entrance of the building <sup>1</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
79.			Cane-detectable from the floor <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
80.		Manoeuvring area	Free and level of ≥ 1500mm <sup>2(square)</sup> , ideally 1800mm <sup>2(square)</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
81.		Clear space	Between the equipment and the adjacent wall: ≥ 300mm <sup>3</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
82.	Trashcans, bins, ashtrays	Fixation	<ul style="list-style-type: none"> <li>Recessed<sup>2</sup></li> <li>Positioned in a way that it does not impede on the access route<sup>2</sup> and having the following characteristics: <ul style="list-style-type: none"> <li>Protruding at ≤ 100mm into circulation area when the front edge is located at a height of 350-1980mm<sup>3</sup></li> <li>Detectable with a cue on the ground<sup>3</sup></li> </ul> </li> </ul>			<input type="checkbox"/>	<input type="checkbox"/>	
83.		Contrast	Of a contrasting colour (≥ 70%) with the nearby surfaces (walls, floor) <sup>2, 3</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
84.			Absence of glare or reflection on the surfaces <sup>1, 3</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
85.		Lighting	Uniform, continuous and glare-free of ≥ 300 lux <sup>3</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
86.		Location	Near an accessible route <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
87.		Configuration	Fixed on the floor, a post or the wall <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	

## 22. Equipment



#	Elements	Components	Criteria	Actual measures	Absent	Compliance		Observations and modifications
								
88.			Opening or lid at a height of $\leq 1060\text{mm}^2$			<input type="checkbox"/>	<input type="checkbox"/>	

### References

1. ISO. *Building construction — Accessibility and usability of the built environment*. 2011.
2. CSA Group. *Accessible Design for the Built Environment*. Mississauga, Ontario: CSA Group; 2012.
3. Service de l'aménagement du territoire de la Ville de Québec. Guide pratique d'accessibilité universelle. 2010 - [cited. Available from: [www.irdpq.qc.ca/communication/publications/guide\\_accessibilite/acces\\_Manuel\\_utilisation\\_2010.pdf](http://www.irdpq.qc.ca/communication/publications/guide_accessibilite/acces_Manuel_utilisation_2010.pdf).
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Unpublished



## 23. Locker rooms and toilets

### Locker rooms



#### Additional Information:

- Grab bars' resistance: 1.3 kN applied in all directions<sup>1,2</sup>, ideally 1.7 kN<sup>3</sup>
- Weight carried by the changing bench: Weight carried: 250kg<sup>1</sup>

#	Elements	Components	Criteria	Actual measures	Absent	Compliance		Observations and modifications
								
1.	Locker room	Pathway	Free from obstacles of a width of $\geq 1065\text{mm}$			<input type="checkbox"/>	<input type="checkbox"/>	
2.		Manoeuvring area	Free and level of $\geq 1500\text{mm}^2$ , <sup>4</sup> ideally $\geq 1700\text{mm}^2$			<input type="checkbox"/>	<input type="checkbox"/>	
3.		Surfaces	Slip-resistant floor: $\geq 4\text{m}^3$			<input type="checkbox"/>	<input type="checkbox"/>	
4.			Coat hangers, benches, handles and other hardware: Matte and colour and hue contrast with the background <sup>3</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
5.		Hook	Near the seats			<input type="checkbox"/>	<input type="checkbox"/>	
6.			At different heights of 850-1100mm, in addition to $\geq 1$ hook at a height of 1800mm <sup>3</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
7.			Protruding: $\leq 40\text{mm}^1$			<input type="checkbox"/>	<input type="checkbox"/>	
8.		Mirror	Lower edge at a height of $\leq 1\text{m}^2$			<input type="checkbox"/>	<input type="checkbox"/>	
9.		Lockers (a few accessible lockers <sup>2</sup> )	Free and level manoeuvring area in front of a diameter of $\geq 1500\text{mm}$			<input type="checkbox"/>	<input type="checkbox"/>	
10.			Height of the average horizontal line of the locker number: $1500^2 \pm 100\text{mm}$ (see section on Signage)			<input type="checkbox"/>	<input type="checkbox"/>	
11.			Height of the handle/lock: 800-900mm <sup>4</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
12.			Operability: Operable with a fist without torsion of the wrist <sup>5</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
13.			Height of shelves: 400-1200mm <sup>5</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
14.			Height of the hooks: 850-1100mm <sup>3</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
15.			Depth: $\leq 600\text{mm}^4$			<input type="checkbox"/>	<input type="checkbox"/>	
16.		Changing bench	Smooth surface, without sharp edges and easy to clean <sup>1</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
17.			Width of the clear space on the full length in front of the bench: $> 900\text{mm}^1$			<input type="checkbox"/>	<input type="checkbox"/>	
18.			Depth: $\geq 760\text{mm}^1$			<input type="checkbox"/>	<input type="checkbox"/>	
19.			Length: 1830mm <sup>1</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
20.		Horizontal bar for	Height: 480-520mm <sup>1</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
21.			Slip-resistant			<input type="checkbox"/>	<input type="checkbox"/>	

## 23. Locker rooms and toilets

### Locker rooms



#	Elements	Components	Criteria	Actual measures	Absent	Compliance		Observations and modifications
22.	Locker rooms	the changing bench	Surface: Grab bar and adjacent surfaces free from any protruding or abrasive element <sup>1</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
23.			Shape: Tubular of a diameter of 30-40mm <sup>1, 2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
24.			Distance with respect to the wall: 35-45mm <sup>1, 2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
25.			Does not rotate within its fittings <sup>1</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
26.			Location of accessories does not hinder its use <sup>3</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
27.			Length: ≥ 1200mm <sup>1</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
28.			Centered in the direction of the length of the bench <sup>1</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
29.			Fixed at a height of 750-850mm <sup>1</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
30.			Contrast: <ul style="list-style-type: none"> <li>≥ 70% with the walls and the floor<sup>1</sup></li> <li>Chromed striated grab bar framed with a contrasting colour behind (white/yellow) following the lines of the bar<sup>1</sup></li> </ul>			<input type="checkbox"/>	<input type="checkbox"/>	
31.			Alarm	Accessibility	From the seats of the locker room, shower or toilet <sup>3</sup>			<input type="checkbox"/>
32.	Connected to <ul style="list-style-type: none"> <li>An emergency assistance service<sup>3</sup></li> <li>A place allowing the intervention of a member of the staff<sup>3</sup></li> </ul>				<input type="checkbox"/>	<input type="checkbox"/>		
33.	Feedback indicating the triggering	Visual and audible to indicate that the emergency call has been received and that action has been taken <sup>3</sup>				<input type="checkbox"/>	<input type="checkbox"/>	
34.	Bracelets	2 red bracelets of a diameter of 50mm having the form of a cord <sup>3</sup>				<input type="checkbox"/>	<input type="checkbox"/>	
35.		One placed at 800-1100mm <sup>3</sup>				<input type="checkbox"/>	<input type="checkbox"/>	
36.		The other at 100mm <sup>3</sup>				<input type="checkbox"/>	<input type="checkbox"/>	
37.	Control reset to zero (error)	Visible and tactile <sup>3</sup>				<input type="checkbox"/>	<input type="checkbox"/>	
38.		Lower edge at a height of < 800-1100mm <sup>3</sup>				<input type="checkbox"/>	<input type="checkbox"/>	
39.	Visual alarm	Alerts deaf/hard-of-hearing people in case of emergency <sup>2-4</sup>				<input type="checkbox"/>	<input type="checkbox"/>	

#### References

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4. Collectif Accessibilité Wallonie Bruxelles. Guide d'aide à la conception d'un bâtiment accessible. 2013 - [cited. Available from: <https://sites.google.com/site/cawabasbl/>.
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## 24. Locker rooms and toilets

### Toilet, changing and shower stalls



#### Additional Information:

- Resistance of grab bars and seats: 1.3 kN applied in all directions<sup>1,2</sup>, ideally 1.7 kN<sup>3</sup>
- Force required to open/close the door and activate the locking mechanism: Require little force (use of 2 fingers)<sup>4</sup>
- Force required to operate the taps and the dispensers: Require little force (use of 2 fingers)

#	Elements	Components	Criteria	Actual measures	Absent	Compliance		Observations and modifications
1.	Stalls	Number	≥ 1 adapted stall and 5% of the total number of the stalls present, rounded up to the superior unit <sup>5</sup> <ul style="list-style-type: none"> <li>• In a specialized institution: ≥ 10% of the total number of the stalls present, rounded up to the superior unit<sup>5</sup></li> </ul>			<input type="checkbox"/>	<input type="checkbox"/>	
2.		Information	Signage clearly identifying the accessible stall using an understandable pictogram ( <b>see section on Signage</b> )			<input type="checkbox"/>	<input type="checkbox"/>	
3.		Manoeuvring area in front of the stall	Free and level not occupied by the door's opening area of ≥ 1500x1500mm <sup>1</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
4.		Separation	Curtain/door not impeding on the access to taps/transfer areas <sup>1,3</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
5.		Opening	Width: ≥ 865mm <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
6.			Height: ≥ 1980mm			<input type="checkbox"/>	<input type="checkbox"/>	
7.		Threshold	Height: ≤ 13mm <sup>1</sup> , ideally without a threshold <sup>2,3,5</sup> <ul style="list-style-type: none"> <li>• Where it measures &gt; 13mm of height: Bevelled ≤ 50% (1:2)<sup>1,6-8</sup></li> </ul>			<input type="checkbox"/>	<input type="checkbox"/>	
8.		Lighting	Uniform, continuous, glare-free: ≥ 200 lux <sup>2</sup> with luminous transitions ≤ 300 lux			<input type="checkbox"/>	<input type="checkbox"/>	
9.	Stall door	Opening	Door opening outward <sup>1,2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
10.			Self-closing (at rest: door ajar at ≤ 500mm) <sup>1</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
11.		Exterior handle <sup>2</sup> (side opposite to hinges (latch side))	"D"-type handle ≥ 140mm of length mounted horizontally <sup>1</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
12.			Height: 800-1000mm <sup>1</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
13.			Centre at 120-220mm on the latch side <sup>1</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
14.			Operability: Operable with a fist without torsion of the wrist <sup>4</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
15.			Contrasted (≥ 70%) with the door (colour, finish)			<input type="checkbox"/>	<input type="checkbox"/>	
16.		Interior handle horizontal	"D"-type handle ≥ 140mm of length mounted horizontally <sup>1,2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
17.	Height: 800-1000mm <sup>1</sup>				<input type="checkbox"/>	<input type="checkbox"/>		
18.	Centre at 200-300mm from hinges <sup>1,2</sup>				<input type="checkbox"/>	<input type="checkbox"/>		

## 24. Locker rooms and toilets

### Toilet, changing and shower stalls





#	Elements	Components	Criteria	Actual measures	Absent	Compliance		Observations and modifications		
19.			Operability: Operable with a fist without torsion of the wrist <sup>4</sup>			<input type="checkbox"/>	<input type="checkbox"/>			
20.			Contrasted ( $\geq 70\%$ ) with the door (colour, finish)			<input type="checkbox"/>	<input type="checkbox"/>			
21.		Locking mechanism	Activated from the inside, but can be unlocked from the outside in case of an emergency <sup>1, 2</sup>			<input type="checkbox"/>	<input type="checkbox"/>			
22.			Height: 900-1000mm			<input type="checkbox"/>	<input type="checkbox"/>			
23.			Operability: Operable with a fist <sup>2</sup> without torsion of the wrist			<input type="checkbox"/>	<input type="checkbox"/>			
24.	Changing room and shower stall vestibule	Free and level manoeuvring area	Changing room: $\geq 1500 \times 1500 \text{mm}^2$ Shower stall vestibule: $\geq 900$ (width) $\times 1500 \text{mm}$ (depth) <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>			
25.		Hooks	One located near the seat <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>			
26.			Another mounted on the sidewall <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>			
27.			Height: 1200mm <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>			
28.			Protruding: $\leq 40 \text{mm}^1$			<input type="checkbox"/>	<input type="checkbox"/>			
29.				Contrasted ( $\geq 70\%$ ) with the wall or on a plate of contrasting colour			<input type="checkbox"/>	<input type="checkbox"/>		
30.		Seat		Self-draining, slip-resistant, stable, without a spring mechanism <sup>2</sup> and foldable upwards <sup>3</sup>			<input type="checkbox"/>	<input type="checkbox"/>		
31.				Height: 430-480mm <sup>1</sup> , ideally height adjustable <sup>3</sup>			<input type="checkbox"/>	<input type="checkbox"/>		
32.				Width: $\geq 450 \text{mm}^{2, 3}$			<input type="checkbox"/>	<input type="checkbox"/>		
33.				Depth: $\geq 450 \text{mm}^3$			<input type="checkbox"/>	<input type="checkbox"/>		
34.					Rounded front corners of a radius between 10-15mm <sup>3</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
35.					Rounded top edges of radius of $\geq 2-3 \text{mm}^3$			<input type="checkbox"/>	<input type="checkbox"/>	
36.					Distance from rear wall: $\leq 40 \text{mm}^3$			<input type="checkbox"/>	<input type="checkbox"/>	
37.					Contrasted ( $\geq 70\%$ ) with the walls			<input type="checkbox"/>	<input type="checkbox"/>	
38.		Horizontal grab bar on the longitudinal wall of the stall (adjacent to the seat)		Slip-resistant			<input type="checkbox"/>	<input type="checkbox"/>		
39.				Surface: Grab bar and adjacent surfaces free from any protruding or abrasive element <sup>1</sup>			<input type="checkbox"/>	<input type="checkbox"/>		
40.				Shape: Tubular of a diameter of 30-40mm <sup>1, 2</sup>			<input type="checkbox"/>	<input type="checkbox"/>		
41.				Distance with respect to the wall: 35-45mm <sup>1, 2</sup>			<input type="checkbox"/>	<input type="checkbox"/>		
42.				Does not rotate within its fittings <sup>1</sup>			<input type="checkbox"/>	<input type="checkbox"/>		
43.				Location of accessories does not hinder its use <sup>3</sup>			<input type="checkbox"/>	<input type="checkbox"/>		
44.			Length: $\geq 900 \text{mm}^2$			<input type="checkbox"/>	<input type="checkbox"/>			

## 24. Locker rooms and toilets

### Toilet, changing and shower stalls



#	Elements	Components	Criteria	Actual measures	Absent	Compliance		Observations and modifications
								
45.			Height of the centre: 750mm <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
46.			Mounted in a way as to extend $\geq 300$ mm on the wall on which the seat is mounted <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
47.			Contrast: <ul style="list-style-type: none"> <li><math>\geq 70\%</math> with the walls and the floor<sup>1</sup></li> <li>Chromed striated grab bar framed with a contrasting colour behind (white/yellow) following the lines of the bar<sup>1</sup></li> </ul>			<input type="checkbox"/>	<input type="checkbox"/>	
48.		Vertical grab bar on the longitudinal wall of the stall (adjacent to the seat)	Slip-resistant			<input type="checkbox"/>	<input type="checkbox"/>	
49.			Surface: Grab bar and adjacent surfaces free from any protruding or abrasive element <sup>1</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
50.			Shape: Tubular of a diameter of 30-40mm <sup>1, 2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
51.			Distance with respect to the wall: 35-45mm <sup>1, 2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
52.			Does not rotate within its fittings <sup>1</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
53.			Location of accessories does not hinder its use <sup>3</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
54.			Length: $\geq 750$ mm <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
55.			Height: 750mm <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
56.			Mounted at a distance of 300mm from the front of the seat <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
57.			Contrast: <ul style="list-style-type: none"> <li><math>\geq 70\%</math> with the walls and the floor<sup>1</sup></li> <li>Chromed striated grab bar framed with a contrasting colour behind (white/yellow) following the lines of the bar<sup>1</sup></li> </ul>			<input type="checkbox"/>	<input type="checkbox"/>	
58.	Shower	Free and level manoeuvring area	Outside the shower: $\geq 900 \times 1500$ mm <sup>1</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
59.			Inside the shower: $\geq 750 \times 1500$ mm <sup>1</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
60.		Transfer area	Width: $\geq 1350$ mm from the axis of the seat <sup>5</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
61.			Depth: $\geq 1300$ mm <sup>5</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
62.		Gradient of interior recess	With respect to the floor drain: 1.67-2% (1:50-1:60) <sup>3</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
63.	Gradient of the exterior part of the recess	1.25-1.43% (1:70-1:80) draining towards the shower recess <sup>3</sup>			<input type="checkbox"/>	<input type="checkbox"/>		



## 24. Locker rooms and toilets

### Toilet, changing and shower stalls





#	Elements	Components	Criteria	Actual measures	Absent	Compliance		Observations and modifications
64.		Seat	Self-draining, slip-resistant, stable, without a spring mechanism <sup>2</sup> and foldable upwards <sup>3</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
65.			Height: 430-480mm <sup>1</sup> , ideally height adjustable <sup>3</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
66.			Width: $\geq 450\text{mm}^{2,3}$			<input type="checkbox"/>	<input type="checkbox"/>	
67.			Depth: $\geq 450\text{mm}^3$			<input type="checkbox"/>	<input type="checkbox"/>	
68.			Rounded front corners of a radius between 10-15mm <sup>3</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
69.			Rounded top edges of radius of $\geq 2-3\text{mm}^3$			<input type="checkbox"/>	<input type="checkbox"/>	
70.			Distance from rear wall: $\leq 40\text{mm}^3$			<input type="checkbox"/>	<input type="checkbox"/>	
71.			Contrasted ( $\geq 70\%$ ) with the walls			<input type="checkbox"/>	<input type="checkbox"/>	
72.		Vertical grab bar on the wall of the seat	Slip-resistant			<input type="checkbox"/>	<input type="checkbox"/>	
73.			Surface: Grab bar and adjacent surfaces free from any protruding or abrasive element <sup>1</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
74.			Shape: Tubular of a diameter of 30-40mm <sup>1,2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
75.			Distance with respect to the wall: 35-45mm <sup>1,2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
76.			Does not rotate within its fittings <sup>1</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
77.			Location of accessories does not hinder its use <sup>3</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
78.			Length: $\geq 1000\text{mm}^1$			<input type="checkbox"/>	<input type="checkbox"/>	
79.			Height of lower end: 600-650mm <sup>1</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
80.			Mounted at a distance of 50-80mm from the beginning of the wall <sup>1</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
81.			Contrast: <ul style="list-style-type: none"> <li><math>\geq 70\%</math> with the walls and the floor<sup>1</sup></li> <li>Chromed striated grab bar framed with a contrasting colour behind (white/yellow) following the lines of the bar<sup>1</sup></li> </ul>			<input type="checkbox"/>	<input type="checkbox"/>	
82.		Vertical grab bar on the wall adjacent to the seat (Can carry the flexible shower head <sup>1,3</sup> )	Slip-resistant			<input type="checkbox"/>	<input type="checkbox"/>	
83.			Surface: Grab bar and adjacent surfaces free from any protruding or abrasive element <sup>1</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
84.			Shape: Tubular of a diameter of 30-40mm <sup>1,2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
85.			Distance with respect to the wall: 35-45mm <sup>1,2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
86.			Does not rotate within its fittings <sup>1</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
87.			Location of accessories does not hinder its use <sup>3</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
88.			Length: $\geq 1000\text{mm}^1$			<input type="checkbox"/>	<input type="checkbox"/>	

## 24. Locker rooms and toilets

### Toilet, changing and shower stalls



#	Elements	Components	Criteria	Actual measures	Absent	Compliance		Observations and modifications
								
89.			Lower edge at 50 to 60 mm above the horizontal grab bar <sup>1</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
90.			Mounted at 400-500mm from the wall of the seat <sup>1</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
91.			Contrast: <ul style="list-style-type: none"> <li>≥ 70% with the walls and the floor<sup>1</sup></li> <li>Chromed striated grab bar framed with a contrasting colour behind (white/yellow) following the lines of the bar<sup>1</sup></li> </ul>			<input type="checkbox"/>	<input type="checkbox"/>	
92.		Horizontal grab bar on the wall adjacent to the seat	Slip-resistant			<input type="checkbox"/>	<input type="checkbox"/>	
93.			Surface: Grab bar and adjacent surfaces free from any protruding or abrasive element <sup>1</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
94.			Shape: Tubular of a diameter of 30-40mm <sup>1, 2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
95.			Distance with respect to the wall: 35-45mm <sup>1, 2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
96.			Does not rotate within its fittings <sup>1</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
97.			Location of accessories does not hinder its use <sup>3</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
98.			Length: ≥ 1000mm <sup>1</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
99.			Height of the centre: 750-850mm <sup>1</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
100.			Contrast: <ul style="list-style-type: none"> <li>≥ 70% with the walls and the floor<sup>1</sup></li> <li>Chromed striated grab bar framed with a contrasting colour behind (white/yellow) following the lines of the bar<sup>1</sup></li> </ul>			<input type="checkbox"/>	<input type="checkbox"/>	
101.			Horizontal grab bar on the wall facing the seat	Slip-resistant			<input type="checkbox"/>	<input type="checkbox"/>
102.		Surface: Grab bar and adjacent surfaces free from any protruding or abrasive element <sup>1</sup>				<input type="checkbox"/>	<input type="checkbox"/>	
103.		Shape: Tubular of a diameter of 30-40mm <sup>1, 2</sup>				<input type="checkbox"/>	<input type="checkbox"/>	
104.		Distance with respect to the wall: 35-45mm <sup>1, 2</sup>				<input type="checkbox"/>	<input type="checkbox"/>	
105.		Does not rotate within its fittings <sup>1</sup>				<input type="checkbox"/>	<input type="checkbox"/>	
106.		Location of accessories does not hinder its use <sup>3</sup>				<input type="checkbox"/>	<input type="checkbox"/>	
107.		Length: ≥ 600mm <sup>1</sup>				<input type="checkbox"/>	<input type="checkbox"/>	
108.		Height of the centre: 750-850mm <sup>1</sup>				<input type="checkbox"/>	<input type="checkbox"/>	
109.		Contrast: <ul style="list-style-type: none"> <li>≥ 70% with the walls and the floor<sup>1</sup></li> <li>Chromed striated grab bar framed with a contrasting colour behind (white/yellow) following the lines of the bar<sup>1</sup></li> </ul>			<input type="checkbox"/>	<input type="checkbox"/>		

## 24. Locker rooms and toilets

### Toilet, changing and shower stalls



#	Elements	Components	Criteria	Actual measures	Absent	Compliance		Observations and modifications	
110.	Taps		Type: <ul style="list-style-type: none"> <li>• Single lever (long or not)<sup>3</sup></li> <li>• Automatic action operable with a fist without torsion of the wrist<sup>3</sup></li> </ul>			<input type="checkbox"/>	<input type="checkbox"/>		
111.			Location: Within the reach of the seat <sup>1</sup> <ul style="list-style-type: none"> <li>• Where outside of the stall at a height &gt; 1200mm<sup>1,9</sup> at the centre of the rear wall, above the grab bar<sup>1</sup></li> </ul>			<input type="checkbox"/>	<input type="checkbox"/>		
112.			Water temperature: ≤ 49°C <sup>3,7</sup> <ul style="list-style-type: none"> <li>• Identification : Of different (blue, red) contrasting colours (≥ 70%)<sup>10</sup> and tactile information<sup>10</sup></li> <li>• Automatic/press-button tap without adjustment<sup>10</sup></li> </ul>			<input type="checkbox"/>	<input type="checkbox"/>		
113.			Hand-held shower head: sliding on a vertical stem <sup>2,3</sup>			<input type="checkbox"/>	<input type="checkbox"/>		
114.			Hand-held shower head that can be used as fixed shower head, mounted vertically and adjustable at a height of 1200-2030mm without obstructing the grab bars <sup>1</sup>			<input type="checkbox"/>	<input type="checkbox"/>		
115.			Flexible hose: ≥ 1500mm <sup>1,2</sup>			<input type="checkbox"/>	<input type="checkbox"/>		
116.			Soap dish, bottle holders, dispensers	Recessed in the wall <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
117.				Height of the mechanism: 920±100mm on the wall adjacent to the seat <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
118.				Of contrasted colour (≥ 70%) with walls			<input type="checkbox"/>	<input type="checkbox"/>	
119.				Operability: Operable with a fist without torsion of the wrist			<input type="checkbox"/>	<input type="checkbox"/>	
120.	Waste outlet	Central <sup>3</sup>			<input type="checkbox"/>	<input type="checkbox"/>			
121.		Round type and not hollow (stability of shower seat) <sup>3</sup>			<input type="checkbox"/>	<input type="checkbox"/>			

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## 25. Locker rooms and toilets Washrooms



### Additional Information

- Ideally, toilets are located at the same place at all floors<sup>1</sup>
- Force required for the flush, taps, soap dispenser and accessories: Require little force (use of 2 fingers)
- Grab bars' resistance: 1.3 kN applied in all directions<sup>2, 3</sup>, ideally 1.7 kN<sup>4</sup>

#	Elements	Components	Criteria	Actual measures	Absent	Compliance		Observations and modifications
1.	General	Number	Number of adapted stalls per sanitary bloc: $\geq 1$ and 5% of the total number of stalls present, rounded up to the superior unit <sup>5</sup> <ul style="list-style-type: none"> <li>• Specialized institution: <math>\geq 10\%</math> of the total number of stalls present, rounded up to the superior unit<sup>5</sup></li> </ul>			<input type="checkbox"/>	<input type="checkbox"/>	
2.		Location	Distance without obstacle to cover to reach a toilet: $\leq 45m^3$			<input type="checkbox"/>	<input type="checkbox"/>	
3.		Information	Orientation signage indicating the toilets in all the parts within the premises or the building <sup>4</sup> <ul style="list-style-type: none"> <li>• Where the toilet is not accessible: Indicate the location of the closest accessible toilet<sup>2</sup></li> </ul>			<input type="checkbox"/>	<input type="checkbox"/>	
4.		Door	Aligned with the transfer space adjacent to the toilet <sup>2, 3</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
5.		Hooks	Mounted on a sidewall <sup>2, 3</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
6.			Height: $1200mm^{2, 3, 6}$ , ideally another at $1600mm^3$			<input type="checkbox"/>	<input type="checkbox"/>	
7.			Protruding: $\leq 40mm^2$			<input type="checkbox"/>	<input type="checkbox"/>	
8.			Contrasted ( $\geq 70\%$ ) with the wall or on a plate of contrasting colour			<input type="checkbox"/>	<input type="checkbox"/>	
9.		Lighting	Uniform, continuous and glare-free on circulation areas: $\geq 150$ lux with luminous transitions $\leq 300$ lux			<input type="checkbox"/>	<input type="checkbox"/>	
10.			Uniform, continuous and glare-free in the stall or near the toilet: $\geq 200$ lux with luminous transitions $\leq 300$ lux			<input type="checkbox"/>	<input type="checkbox"/>	
11.	Universal toilet stall	Manoeuvring area	Free and level of $\geq 3.5m^2$ with a space $\geq 1500x1500mm^{2, 5-7}$			<input type="checkbox"/>	<input type="checkbox"/>	
12.		Distance between opposite walls	$\geq 1700mm^2$			<input type="checkbox"/>	<input type="checkbox"/>	

OR

## 25. Locker rooms and toilets Washrooms



#	Elements	Components	Criteria	Actual measures	Absent	Compliance		Observations and modifications
13.	Toilet stall (see section on Stalls)	Clear space in the stall	<ul style="list-style-type: none"> <li>Where the entry door is in front of the door of the stall(s): Clear space of <math>\geq 1700\text{mm}</math> between the doors of the stall(s) and the entry door<sup>2,3</sup></li> <li>Where the door of the stall(s) is in front of urinals, another stall or a counter: Clear space of <math>\geq 1400\text{mm}</math><sup>3</sup></li> </ul>			<input type="checkbox"/>	<input type="checkbox"/>	
14.		Dimensions of the stall	Width: $1700\text{ mm}^3$ <ul style="list-style-type: none"> <li>With a caregiver: <math>\geq 2\text{m}^8</math></li> </ul>			<input type="checkbox"/>	<input type="checkbox"/>	
15.			Depth: $\geq 1800\text{ mm}^3$ <ul style="list-style-type: none"> <li>With a caregiver: <math>2.40\text{m}^8</math></li> </ul>			<input type="checkbox"/>	<input type="checkbox"/>	
16.		Transfer area	Width: $\geq 900\text{mm}^2$			<input type="checkbox"/>	<input type="checkbox"/>	
17.			Length: $\geq 1500\text{mm}$ on its open side <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
18.	Toilet	Location	Distance between the front edge of the toilet seat and the rear wall: $650\text{-}800\text{mm}^4$			<input type="checkbox"/>	<input type="checkbox"/>	
19.			Distance between the axis and an adjacent wall: $460\text{-}480\text{mm}^{2,4}$			<input type="checkbox"/>	<input type="checkbox"/>	
20.		Seat	Does not come back up due to spring force <sup>2,3</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
21.			Height: $400\text{-}460\text{mm}^{2,4}$			<input type="checkbox"/>	<input type="checkbox"/>	
22.			Length: $500\text{-}550\text{mm}^{2,5}$			<input type="checkbox"/>	<input type="checkbox"/>	
23.			Presence of a backrest <sup>2,3</sup> <ul style="list-style-type: none"> <li>Where there is a tank, the lid should be securely attached<sup>2</sup></li> </ul>			<input type="checkbox"/>	<input type="checkbox"/>	
24.			Cover colour: Dark colour on white sanitary appliances <sup>1</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
25.			Flush	<ul style="list-style-type: none"> <li>Automatic control<sup>2,3</sup></li> <li>Manual control using a device placed on the transfer side of the toilet<sup>2,3</sup></li> </ul>			<input type="checkbox"/>	<input type="checkbox"/>
26.		Height: $800\text{-}1100\text{mm}^5$				<input type="checkbox"/>	<input type="checkbox"/>	
27.		Distance with respect to a wall: $350\text{-}450\text{mm}^5$				<input type="checkbox"/>	<input type="checkbox"/>	
28.		Toilet paper	Fixed on the sidewall as close as possible to the toilet <sup>3</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
29.			Toilet paper dispenser: In line with the front of the toilet seat <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
30.			Height: $600\text{-}700\text{mm}^{2,4}$			<input type="checkbox"/>	<input type="checkbox"/>	
31.			Protruding: $\leq 150\text{mm}$ from the wall <sup>3</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
32.	Operability: Operable with a fist without torsion of the wrist <sup>9</sup>				<input type="checkbox"/>	<input type="checkbox"/>		

## 25. Locker rooms and toilets Washrooms



#	Elements	Components	Criteria	Actual measures	Absent	Compliance		Observations and modifications	
33.			Where there is the presence of a lady care sanitary bin: Reachable from the toilet seat without torsion of the trunk. Non-touch opening mechanisms are recommended <sup>4</sup>			<input type="checkbox"/>	<input type="checkbox"/>		
34.			A vertical grab bar can be added on the wall adjacent to the toilet, of a length of $\geq 600\text{mm}$ at $\leq 250\text{mm}$ in front of the toilet seat at a height of $900\text{-}1500\text{mm}^2$ A retractable grab bar can be added on the same side of the toilet as the transfer area and meet the same criteria as the grab bar on the sidewall closest to the toilet <sup>2</sup> or in the absence of an adjacent wall <sup>3</sup>						
35.		Horizontal grab bar on the sidewall closest to the toilet	Slip-resistant <sup>3</sup>			<input type="checkbox"/>	<input type="checkbox"/>		
36.			Surface: Grab bar and adjacent surfaces free from any protruding or abrasive element <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>		
37.			Shape: Tubular of a diameter of $30\text{-}40\text{mm}^{2,3}$			<input type="checkbox"/>	<input type="checkbox"/>		
38.			Distance with respect to the wall: $35\text{-}45\text{mm}^{2,3}$			<input type="checkbox"/>	<input type="checkbox"/>		
39.			Does not rotate within its fittings <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>		
40.			Location of accessories does not hinder its use <sup>4</sup>			<input type="checkbox"/>	<input type="checkbox"/>		
41.			Height: $750\text{-}850\text{mm}^2$			<input type="checkbox"/>	<input type="checkbox"/>		
42.			Distance from the rear wall: $\geq 300\text{mm}^2$			<input type="checkbox"/>	<input type="checkbox"/>		
43.			Distance in front of the seat: $< 450\text{mm}^2$			<input type="checkbox"/>	<input type="checkbox"/>		
44.			Contrast: <ul style="list-style-type: none"> <li><math>\geq 70\%</math> with the walls and the floor<sup>2</sup></li> <li>Chromed striated grab bar framed with a contrasting colour behind (white/yellow) following the lines of the bar<sup>2</sup></li> </ul>			<input type="checkbox"/>	<input type="checkbox"/>		
45.			<ul style="list-style-type: none"> <li>Where there is 1 bar: Centered with respect to the toilet and of a length of <math>\geq 600\text{mm}^{2,3}</math></li> <li>Where there are 2 bars: Placed on each side of the flush at a distance of <math>\leq 150\text{mm}</math> and of a length of <math>\geq 300\text{mm}^2</math></li> </ul>			<input type="checkbox"/>	<input type="checkbox"/>		
46.			Horizontal grab bar on rear wall	Slip-resistant <sup>3</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
47.				Surface: Grab bar and adjacent surfaces free from any protruding or abrasive element <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
48.				Shape: Tubular of a diameter of $30\text{-}40\text{mm}^{2,3}$			<input type="checkbox"/>	<input type="checkbox"/>	
49.		Distance with respect to the wall: $35\text{-}45\text{mm}^{2,3}$				<input type="checkbox"/>	<input type="checkbox"/>		
50.		Does not rotate within its fittings <sup>2</sup>				<input type="checkbox"/>	<input type="checkbox"/>		
51.		Location of accessories does not hinder its use <sup>4</sup>				<input type="checkbox"/>	<input type="checkbox"/>		
52.		Height: $750\text{-}850\text{mm}^2$				<input type="checkbox"/>	<input type="checkbox"/>		

## 25. Locker rooms and toilets Washrooms



#	Elements	Components	Criteria	Actual measures	Absent	Compliance		Observations and modifications
53.			Contrast: <ul style="list-style-type: none"> <li>≥ 70% with the walls and the floor<sup>2</sup></li> <li>Chromed striated grab bar framed with a contrasting colour behind (white/yellow) following the lines of the bar<sup>2</sup></li> </ul>			<input type="checkbox"/>	<input type="checkbox"/>	
54.	Urinal	Manoeuvring area	Free and level in front of the urinal of a width of ≥ 750mm and a depth of ≥ 1200mm <sup>2,4</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
55.		Fixation	Detached from the ground and without a raised access platform <sup>3,4</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
56.		Height	Lower rim: ≤ 430mm <sup>2,10,11</sup> and ≥ 1 at a height of ≥ 380mm <sup>4</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
57.			Upper rim: ≤ 860mm <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
58.		Markers	Width: ≥ 50mm centered on the urinal <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
59.			Extend at a height ≥ 1300mm <sup>2</sup> , but never < 150mm above the upper part of the urinal <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
60.		Contrast	Visually contrasting with the wall on which it is mounted <sup>2,4</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
61.		Vertical grab bars on each side <sup>2,4</sup>	Slip-resistant			<input type="checkbox"/>	<input type="checkbox"/>	
62.			Surface: Grab bar and adjacent surfaces free from any protruding or abrasive element <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
63.			Shape: Tubular of a diameter of 30-40mm <sup>2,3</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
64.			Distance with respect to the wall: 35-45mm <sup>2,3</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
65.			Does not rotate within its fittings <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
66.			Length: ≥ 600mm <sup>2,3</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
67.			Height of the lower extremity: 600-650mm <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
68.			Distance from the centre of the urinal: ≤ 380mm <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
69.		Contrast: <ul style="list-style-type: none"> <li>≥ 70% with the walls and the floor<sup>2</sup></li> <li>Chromed striated grab bar framed with a contrasting colour behind (white/yellow) following the lines of the bar<sup>2</sup></li> </ul>			<input type="checkbox"/>	<input type="checkbox"/>		
70.	Flush	Automatic <sup>2</sup> or with a lever operable with the fist			<input type="checkbox"/>	<input type="checkbox"/>		
71.	Sink area	Manoeuvring area	Free and level of a width of ≥ 750mm and a depth of 1200mm, of which ≤ 480mm can be underneath the sink <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
72.		Clearance	Width: ≥ 750mm <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	

## 25. Locker rooms and toilets Washrooms





#	Elements	Components	Criteria	Actual measures	Absent	Compliance		Observations and modifications		
73.		underneath the sink	Depth: $\geq 200\text{mm}^{2,4}$			<input type="checkbox"/>	<input type="checkbox"/>			
74.			Height: $\geq 680\text{mm}^2$			<input type="checkbox"/>	<input type="checkbox"/>			
75.			Insulated pipes (covered) <sup>3</sup> connected rearward <sup>2</sup>				<input type="checkbox"/>	<input type="checkbox"/>		
76.		Clearance for the feet	Width: $\geq 750\text{mm}^2$			<input type="checkbox"/>	<input type="checkbox"/>			
77.			Depth: $\geq 230\text{mm}^2$			<input type="checkbox"/>	<input type="checkbox"/>			
78.			Height: $\geq 230\text{mm}^{2,3}$				<input type="checkbox"/>	<input type="checkbox"/>		
79.		Location of the sink	Distance between the centre of the sink and a sidewall: $\geq 460\text{mm}^{2,3}$			<input type="checkbox"/>	<input type="checkbox"/>			
80.			Distance between the front edge of the sink and the wall: $350-600\text{mm}^2$			<input type="checkbox"/>	<input type="checkbox"/>			
81.			Height: $810-860\text{mm}^2$				<input type="checkbox"/>	<input type="checkbox"/>		
82.		Dimensions of the sink's bassin	$\geq 600 \times 600\text{mm}^5$			<input type="checkbox"/>	<input type="checkbox"/>			
83.		Taps (Avoid mixing or pressure valves <sup>3</sup> )	Type: Not requiring a torsion of the wrist <sup>2,3</sup> <ul style="list-style-type: none"> <li>• With single lever</li> <li>• With electronic control</li> <li>• With long lever</li> </ul>			<input type="checkbox"/>	<input type="checkbox"/>			
84.			Height: $920 \pm 100\text{mm}$				<input type="checkbox"/>	<input type="checkbox"/>		
85.			Distance from the front edge of the counter: $\leq 485\text{mm}$				<input type="checkbox"/>	<input type="checkbox"/>		
86.			Force required having the following characteristics: <ul style="list-style-type: none"> <li>• No application of a constant force to maintain the water flow<sup>2</sup></li> <li>• Not operated by foot</li> </ul>				<input type="checkbox"/>	<input type="checkbox"/>		
87.			Where there is a timer: Duration of the flow of $\geq 10$ seconds <sup>2</sup>				<input type="checkbox"/>	<input type="checkbox"/>		
88.			Water temperature: $\leq 49^\circ\text{C}^{2,11}$				<input type="checkbox"/>	<input type="checkbox"/>		
89.			Identification: <ul style="list-style-type: none"> <li>• Contrasting colours (<math>\geq 70\%</math>) different (blue, red) and tactile information to differentiate them<sup>11</sup></li> <li>• Automatic faucet</li> <li>• Press-button without adjustment</li> </ul>				<input type="checkbox"/>	<input type="checkbox"/>		
90.			Soap dispenser (Non-touch dispensers are recommended <sup>4</sup> )	Height of control: $\leq 1100\text{mm}^{2,4}$ <ul style="list-style-type: none"> <li>• Near the sink on a sidewall<sup>3</sup></li> <li>• At <math>&lt; 500\text{mm}</math> from a person sitting near the sink<sup>2</sup></li> </ul>			<input type="checkbox"/>	<input type="checkbox"/>		
91.				Operable with a fist without torsion of the wrist <sup>12</sup>				<input type="checkbox"/>	<input type="checkbox"/>	
92.								<input type="checkbox"/>	<input type="checkbox"/>	



## 25. Locker rooms and toilets Washrooms





#	Elements	Components	Criteria	Actual measures	Absent	Compliance		Observations and modifications
								
93.			Operable with one hand to receive soap on the palm <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
94.		Changing table	Clear space on the counter of a width of $\geq 900\text{mm}^3$ or wall-mounted table			<input type="checkbox"/>	<input type="checkbox"/>	
95.		Mirror	Not tilted nor full-length <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
96.			Bottom edge at a height $\leq 1000\text{mm}^{2,3,6,10,11}$			<input type="checkbox"/>	<input type="checkbox"/>	
97.		Contrast	Furnishing contrasting with the floor (counter, trashcan) <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
98.			Sink contrasting with the counter <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
99.		Accessories (dryer, trashcan, dispenser, etc.)	Height of the operable part: $800\text{-}1100\text{mm}^4$			<input type="checkbox"/>	<input type="checkbox"/>	
100.			Operability: Operable with a fist without torsion of the wrist			<input type="checkbox"/>	<input type="checkbox"/>	
101.		Lighting	200 lux (measured at a height of 800mm above the floor) <sup>4</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
102.			Absence of timed light switches <sup>4</sup>			<input type="checkbox"/>	<input type="checkbox"/>	

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## 26. Room and auditorium





#	Elements	Components	Criteria	Actual measures	Absent	Compliance		Observations and modifications
								
1.	Room and auditorium	Ground surface	Path leading to an accessible seat and at the front without step <sup>1</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
2.		Presenter: board and desk	Free and level manoeuvring area of $\geq 1500 \times 1500 \text{mm}^1$			<input type="checkbox"/>	<input type="checkbox"/>	
3.		Lectern/Table	<ul style="list-style-type: none"> <li>Adjustable height</li> <li>Presence of an accessible table (see section on Table)</li> </ul>			<input type="checkbox"/>	<input type="checkbox"/>	
4.		Stage and backstage	Accessible from an accessible ramp <sup>2,3</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
5.		Width of aisles	<ul style="list-style-type: none"> <li>Where it is a an auditorium: <math>\geq 2400 \text{mm}^3</math></li> <li>Where it is a room with tables: <math>\leq 1065 \text{mm}^4</math></li> </ul>			<input type="checkbox"/>	<input type="checkbox"/>	
6.		Hearing enhancement device	At all the seats, including the ones in front of the stage (e.g. induction loops, systems of transmission of infrared signals) <sup>3</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
7.			Where it is a room of more than 50 seats: Presence of a height-adjustable or portable microphone <sup>4</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
8.		Lighting	Uniform, continuous and glare-free on the adapted seats: $\geq 200 \text{ lux}$ with luminous transitions $\leq 300 \text{ lux}$			<input type="checkbox"/>	<input type="checkbox"/>	
9.			Adjustable control of lighting on the presenter: $\geq 300 \text{ lux}^{2,4}$			<input type="checkbox"/>	<input type="checkbox"/>	
10.			Lighting on the faces and hands of actors, and people using sign language interpretation at an angle of $45-50^\circ$ from horizontal at ceiling level for people with a hearing impairment and contrasted backdrop <sup>3</sup>			<input type="checkbox"/>	<input type="checkbox"/>	

### References

1. Research Alliance for Children with Special Needs and the School of occupational therapy & the University of Western Ontario. University campus accessibility measure (UCAM). (2010) 2010-09-28:Sender's E-Mail: Lisa Klinger.
2. Service de l'aménagement du territoire de la Ville de Québec. Guide pratique d'accessibilité universelle. 2010 - [cited. Available from: [www.irdpq.qc.ca/communication/publications/guide\\_accessibilite/acces\\_Manuel\\_utilisation\\_2010.pdf](http://www.irdpq.qc.ca/communication/publications/guide_accessibilite/acces_Manuel_utilisation_2010.pdf).
3. ISO. *Building construction — Accessibility and usability of the built environment*. 2011.
4. Greater Toronto Hotel Association [GTHA]. Hospitality checklist. 2003 - [cited; Greater Toronto Hotel Association hospitality accessibility]. Available from: [www.gtha.com/dsp\\_Hosp-CheckLst.cfm](http://www.gtha.com/dsp_Hosp-CheckLst.cfm).

## 27. Library and resource centre



#	Elements	Components	Criteria	Actual measures	Absent	Compliance		Observations and modifications
								
1.	Library and resource centre	Signage of book-shelves	Average line at a height of 1500±100mm (see section on Signage)			<input type="checkbox"/>	<input type="checkbox"/>	
2.		Manoeuvring area	Free and level of ≥ 1500x1500mm at the end of aisles <sup>1</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
3.		Aisles	Width: ≥ 1200mm <sup>1</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
4.		Shelves	Height: 400-1200mm <sup>1</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
5.		Book-shelves' lighting	Continuous and uniform: ≥ 200 lux with luminous transitions ≤ 300 lux			<input type="checkbox"/>	<input type="checkbox"/>	

### References



1. Research Alliance for Children with Special Needs and the School of occupational therapy & the University of Western Ontario. University campus accessibility measure (UCAM). (2010) 2010-09-28:Sender's E-Mail: Lisa Klinger.

Unpublished

## 28. Cafeteria



**Additional Information:** Force required to operate the vending machines: Activation requires little force (use of 2 fingers)

#	Elements	Components	Criteria	Actual measures	Absent	Compliance		Observations and modifications
								
1.	Vending machines	Signage	Double the information written in Braille or in an audible manner (for single-use buttons) <sup>1</sup>			<input type="checkbox"/>	<input type="checkbox"/>	
2.		Height - device to be handled	<ul style="list-style-type: none"> <li>Where they are at 250-600mm from the edge of the counter: <math>\leq 1m^2</math></li> <li>Where they are close to the edge of the counter: <math>380-1200mm^2</math></li> </ul>			<input type="checkbox"/>	<input type="checkbox"/>	
3.		Operability	Operable with a fist without torsion of the wrist			<input type="checkbox"/>	<input type="checkbox"/>	
4.	Pass-through	Direct between the employee and the user	Tray slide of which the top is at a height of $\leq 865mm^2$			<input type="checkbox"/>	<input type="checkbox"/>	
5.			Depth: $< 485mm^2$			<input type="checkbox"/>	<input type="checkbox"/>	
6.			Clearance ( <b>see section on Desk</b> )			<input type="checkbox"/>	<input type="checkbox"/>	
7.	Cash counter	Orientation	Counter visible and accessible from the entrance			<input type="checkbox"/>	<input type="checkbox"/>	
8.		Register's display	Directed towards the customer			<input type="checkbox"/>	<input type="checkbox"/>	
9.			Background and writing of price on the register of a contrasting colours ( $\geq 70\%$ )			<input type="checkbox"/>	<input type="checkbox"/>	
10.			Simple sans serif fonts $\geq 22mm$			<input type="checkbox"/>	<input type="checkbox"/>	
11.			Matte finish and well-lit: $\geq 200$ lux			<input type="checkbox"/>	<input type="checkbox"/>	
12.		Credit/debit card terminal	Display with background and writing of contrasting colours ( $\geq 70\%$ )			<input type="checkbox"/>	<input type="checkbox"/>	
13.			Simple sans serif fonts $\geq 22mm$			<input type="checkbox"/>	<input type="checkbox"/>	
14.			Matte finish and well-lit: $\geq 200$ lux			<input type="checkbox"/>	<input type="checkbox"/>	
15.			Absence of keyguards			<input type="checkbox"/>	<input type="checkbox"/>	
16.			Control buttons with background and writing of contrasting colours ( $\geq 70\%$ )			<input type="checkbox"/>	<input type="checkbox"/>	
17.	Presence of tactile cues on control buttons				<input type="checkbox"/>	<input type="checkbox"/>		
18.		Presence of a colour code for possible operations			<input type="checkbox"/>	<input type="checkbox"/>		

### References

- Collectif Accessibilité Wallonie Bruxelles. Guide d'aide à la conception d'un bâtiment accessible. 2013 - [cited. Available from: <https://sites.google.com/site/cawabasbl/>].
- Research Alliance for Children with Special Needs and the School of occupational therapy & the University of Western Ontario. University campus accessibility measure (UCAM). (2010) 2010-09-28:Sender's E-Mail: Lisa Klinger.

## 29. Accessible seats



#	Elements	Components	Criteria	Actual measures	Absent	Compliance		Observations and modifications																																				
1.	Accessible seats	Number	Integrate these spaces to other seats and allow two wheelchair users to stay together <sup>1, 2</sup>			<input type="checkbox"/>	<input type="checkbox"/>																																					
2.			<table border="1"> <thead> <tr> <th colspan="2">Movable seats<sup>3</sup></th> <th colspan="2">Fixed seats<sup>2</sup></th> </tr> <tr> <th>total # of seats</th> <th># of adapted seats</th> <th>total # of seats</th> <th># of adapted seats</th> </tr> </thead> <tbody> <tr> <td>4-25</td> <td>1</td> <td>2-100</td> <td>2</td> </tr> <tr> <td>26-50</td> <td>2</td> <td>101-200</td> <td>3</td> </tr> <tr> <td>51-150</td> <td>4</td> <td>201-300</td> <td>4</td> </tr> <tr> <td>151-300</td> <td>5</td> <td>301-400</td> <td>5</td> </tr> <tr> <td>301-500</td> <td>6</td> <td>401-500</td> <td>6</td> </tr> <tr> <td>501-5000</td> <td>6 + 1 per 150, or fraction of this figure</td> <td colspan="2">For every additional 400 seats: add an additional non-fixed seat</td> </tr> <tr> <td>&gt; 5000</td> <td>36 + 1 per 200, or fraction of this figure</td> <td colspan="2">Where it is an auditorium with fixed seats: ≥ 15 foldable or removable seats<sup>1</sup></td> </tr> </tbody> </table>	Movable seats <sup>3</sup>		Fixed seats <sup>2</sup>		total # of seats	# of adapted seats	total # of seats	# of adapted seats	4-25	1	2-100	2	26-50	2	101-200	3	51-150	4	201-300	4	151-300	5	301-400	5	301-500	6	401-500	6	501-5000	6 + 1 per 150, or fraction of this figure	For every additional 400 seats: add an additional non-fixed seat		> 5000	36 + 1 per 200, or fraction of this figure	Where it is an auditorium with fixed seats: ≥ 15 foldable or removable seats <sup>1</sup>				<input type="checkbox"/>	<input type="checkbox"/>	
			Movable seats <sup>3</sup>		Fixed seats <sup>2</sup>																																							
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501-5000			6 + 1 per 150, or fraction of this figure	For every additional 400 seats: add an additional non-fixed seat																																								
> 5000			36 + 1 per 200, or fraction of this figure	Where it is an auditorium with fixed seats: ≥ 15 foldable or removable seats <sup>1</sup>																																								
3.	Some places are free from seats for wheelchair users or presence of seats that are not fixed to the ground <sup>4</sup>			<input type="checkbox"/>	<input type="checkbox"/>																																							
4.	Interpreter	Available space for a sign language interpreter at a row in front of the adapted seats without the latter being in the walkway <sup>1</sup>			<input type="checkbox"/>	<input type="checkbox"/>																																						
5.	Location	Adjacent to access routes, near emergency exits and dispatched through all the seating zones at all accessible levels adjacent to the other seats <sup>1, 3, 5</sup>			<input type="checkbox"/>	<input type="checkbox"/>																																						
6.		Adapted zone delimited by a colour (≥ 70%) and ground texture contrast			<input type="checkbox"/>	<input type="checkbox"/>																																						
7.		Where it is an auditorium, the seats should have the following characteristics: <ul style="list-style-type: none"> <li>Adapted seats marked as accessible</li> <li>Row and seat numbers: Readable with a tactile indicator, of an adequate dimension and a sufficient visual contrast with relation to the background<sup>1</sup></li> </ul>			<input type="checkbox"/>	<input type="checkbox"/>																																						
8.		Ground surface	Clear and level <sup>1</sup>			<input type="checkbox"/>	<input type="checkbox"/>																																					
9.		Surface area	≥ 900x1400mm <sup>1</sup>			<input type="checkbox"/>	<input type="checkbox"/>																																					
10.	Visibility line	Should not be obstructed by people standing <sup>5</sup> (view of the front of the room and the presenter, if need be), similar to that of other seats <sup>1, 3</sup>			<input type="checkbox"/>	<input type="checkbox"/>																																						
11.		Minimum unobstructed eye level ≥ 1200mm <sup>1</sup>			<input type="checkbox"/>	<input type="checkbox"/>																																						

## 29. Accessible seats



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1. ISO. *Building construction — Accessibility and usability of the built environment*. 2011.
2. Service de l'aménagement du territoire de la Ville de Québec. Guide pratique d'accessibilité universelle. 2010 - [cited. Available from: [www.irdpq.qc.ca/communication/publications/guide\\_accessibilite/acces\\_Manuel\\_utilisation\\_2010.pdf](http://www.irdpq.qc.ca/communication/publications/guide_accessibilite/acces_Manuel_utilisation_2010.pdf).
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