GOBIERNO DE DUBÁI

DUBAI MUNICIPALITY

Building Department

Research & Building Systems Section

New Commercial Centers Checklist

New Commercial centres >10.000 m2

	Entrance	Path	Level Changes Stairs, Ramp, Elevators	Sanitary Provisions	Changing Room	Furniture	Parking & drop off point	Tactile maps
All	UA*	UA	UA	FT/F	UA	UA	UA	TA/FT

UA	Universally Accessible
UA*	When the building is built in a floodable zone the entrances of the building can have a change in level from the exterior floor level. In this exceptional case the entrances solutions may be permitted.
FT/F	Additional to the Universal Accessible toilets a Family toilet and a feeding room are requested.
TA/FT	Tactile maps are required and accessible toilets outside toilets blocks are not accepted as family toilets.

CODE	CRITERIA	EVALUATION			COMMENTS	AUDIT PHASE
E	Entrance	YES	N/A	NON		
E1	Gradients of entrances ≤ 5%					PERMIT
E2	When several paths, both accessible and inaccessible marked					ACCOMPLISH
E3	If accessible door not the main door, it is marked with directional sign					ACCOMPLISH
E4	Identification number and exact address for each entrance					OPERATION
E5	In public use buildings, reception desk near the entrance					ACCOMPLISH
E6	Dimensions doors ≥ 900mm width x 2100mm height					PERMIT
E7	Automatic door					ACCOMPLISH
E8	3 seconds or more to move from closed to fully open position - Remain fully open for a minimum 5 seconds - Force not more than 66N					ACCOMPLISH
E9	Doormats levelled with ± 2mm					ACCOMPLISH

E10	Access controls barriers with at least one barrier with width ≥ 900mm if provided					OPERATION
ER	Counters and reception areas					
ER1	Reception areas with seating places and interaction spaces					OPERATION
ER2	Front desks with accessible interaction space					OPERATION
ER3	Low counter height between 750-790mm &high counter height between 950-1250mm					OPERATION
ER4	Under the desk a space of 680 mm height and 480 mm deep					OPERATION
ER5	When required, hearing enhancement systems using induction loop, infrared and radio frequency are provided					OPERATION
ER6	With international symbol if access for hearing loss					OPERATION

P	Path	YES	N/A	NON	Comments	Audit Phase
PE	Accessible path of travel - External					
PE1	Enough Width - more than 1800mm / External					PERMIT
PE2	Linear and continued					PERMIT
PE3	Intersections clearly Visible with signs or lights					ACCOMPLISH
PE4	Gradient ≤ 5%					ACCOMPLISH
PE5	Clear headroom ≥ 2200mm					PERMIT
PE6	Absence of uneven Surfaces - irregularities ≤ 5 mm					OPERATION

PE7	**Absence of protruding objects:** 1-Objects protruding less than 100mm from façade 2-Objects protruding more than 100mm, extends to the floor surface or above the floor level by maximum 300mm					OPERATION
PE8	Furniture comply detection cone rule					OPERATION
PE9	Illumination level ≥ 10 lux					ACCOMPLISH
PE10	No drain grids on accessible crossings (outside the intersection)					ACCOMPLISH
PE11	Free of obstacles and located between the building's façade and the furniture zone					ACCOMPLISH
PE12	Parking entrance do not modify the slope or width of the accessible path					ACCOMPLISH
PE13	Curb height between 100 mm and 150 mm					ACCOMPLISH
PE14	Cross slope gradient ≤ 2%					ACCOMPLISH
PE15	Pedestrian bridges with ramps or elevators if provided					PERMIT
PF	Floor Surface					
PF1	Slip resistance (PTV) comply: Level and inclined with ≤ 5% dry areas indoor - (PTV) Between 15 and 35					ACCOMPLISH
PF2	Slip resistance (PTV) comply: Inclined > 5% dry areas indoor, (PTV) ≥ 35					ACCOMPLISH
PF3	Slip resistance (PTV) comply: Level and inclined with ≤ 5% wet areas and outdoor - (PTV) Between 35 and 45					ACCOMPLISH

PF4	Slip resistance (PTV) comply: Inclined > 5% wet areas and outdoor,(PTV) ≥ 45					ACCOMPLISH
PF5	Slip resistance (PTV) comply: Street pavement, swimming pools and showers, (PTV) ≥ 45					ACCOMPLISH
PF6	Ground pavement without loose elements					OPERATION
PF7	Rugs and carpets are firmly fixed and do not increase the strength required to roll over a ceramic pavement by ≥ 25%					OPERATION
PF8	Without rounded edges and excessive joints					ACCOMPLISH
PF9	Not producing glare					ACCOMPLISH
PF10	With reflectance contrast of at least 30 points LRV between accessible pavement (surrounding surface or 300mm pavement strip)					ACCOMPLISH
PF11	Lighting in floor (Flooring Light) not produces glare and excessive heat					ACCOMPLISH
PF12	Absence of utility covers (manhole covers) on the path or with height less of 5 mm					ACCOMPLISH
PF13	Absence of drain grids on the path or with holes smaller than 5 mm					ACCOMPLISH
PF14	Change of pavement level ≤15mm, with ≤25% gradient slope (chamfered)					ACCOMPLISH
PF15	Longitudinal grate openings with perpendicular orientation to the pedestrians' direction of travel					ACCOMPLISH

PF16	For distance between tree basin edge and the façade ≤ 2000 mm, tree grate with walkable surface					ACCOMPLISH
PI	Internal corridors					
PI1	Width ≥ 1000 mm					PERMIT
PI2	In direction changes a maneuvering space of 1200 mm					PERMIT
PI3	Tactile warning surface in any change of level					PERMIT
PI4	Illumination ≥ 60 lux					ACCOMPLISH
PI5	Clear headroom ≥ 2200mm					PERMIT
PI6	**Absence of protruding objects** 1-Objects protruding less than 100mm from façade 2-Objects protruding more than 100mm, extends to the floor surface or above the floor level by maximum 300mm					OPERATION

LC	Level Changes	YES	N/A	NON	Comments	Audit Phase
LCG	Guardrails					
LCG1	Absence of unprotected level changes - guardrails for heights ≥ 500mm					PERMIT
LC22	Height ≥ 1100mm					ACCOMPLISH
LCG3	With sufficient strength and stiffness to withstand horizontally uniformly distributed force of 3 kN/m					ACCOMPLISH
LCG4	Can not be climbable					ACCOMPLISH
LCG5	Width of Horizontal and Vertical openings ≤ 100mm					ACCOMPLISH

LCG6	1- Availability of continuous base on the entire open side length 2- Continuous base ≥ 100mm hight from the floor surface for ramps & stairs					PERMIT
LCWT	Warning tactile surface					
LCWT1	Available in the beginning and end of every level change including ramps and stair landings , or any dangerous element					ACCOMPLISH
LCWT2	Installed along the entire width of the element					ACCOMPLISH
LCWT3	The width ≥ 300mm					ACCOMPLISH
LCWT4	Located at 300mm away from the edge of the ramp or stair flight or any dangerous element					ACCOMPLISH
LCWT5	Warning tactile truncated cones diameter = 30mm at bottom and 20mm at top, and protruding 4mm					ACCOMPLISH
LCWT6	Non glare on shiny or slippery					ACCOMPLISH
LCR	Ramps					
LCR1	Ramps used only when gradient of level >5%					PERMIT
LCR2	Slope is ≤ 8% or 1:12					PERMIT
LCR3	Cross fall gradient ≤ 2%					ACCOMPLISH
LCR4	Run length ≤ 10 meters					PERMIT
LCR5	Run width = 1000 mm between handrails					PERMIT
LCR6	No curved ramps					PERMIT
LCR7	Landings at the beginning and end of every run - surface 1500 mm x 1500 mm					PERMIT

LCR8	Level landings or ≤ 2%					ACCOMPLISH
LCR9	Corridors in landings width ≥ 1200 mm width					PERMIT
LCR10	No door located at ≤ 1500mm from start and or end of each ramps					PERMIT
LCS	Stairs					
LCS1	Availability of alternative elevator accompanied with internal staircase in more than one story building					PERMIT
LCS2	Steps rises between 150 - 175 mm					PERMIT
LCS3	Steps stair treads between 300 - 340 mm					PERMIT
LCS4	Steps rise (R) and Tread (T) fulfil: 600 mm < 2R + T < 650 mm					PERMIT
LCS5	No curved stairs					PERMIT
LCS6	No open risers or discontinued treads					PERMIT
LCS7	Steps with nosing ≤ 25 mm					ACCOMPLISH
LCS8	30 mm from the step edge space along the stair flight width shall present a reflectance contrast of 30 LRV					ACCOMPLISH
LCS9	Steps with same height with a ± 4 mm tolerance					ACCOMPLISH
LCS10	Stair flights steps number between 3 and 12					PERMIT
LCS11	Usable stair flight width ≥ 1200 mm					PERMIT
LCS12	Illumination at top and bottom of the flight ≥ 200lux					ACCOMPLISH
LCS13	Landing with same width of stair and a length ≥ 1200 mm					PERMIT

LCS14	Empty space with height < 2200 mm under the stair is protected					ACCOMPLISH
LCH	Handrail for Ramps & Stairs > 500mm high					
LCH1	300 mm horizontal extension at its ends					ACCOMPLISH
LCH2	Presence of intermediate handrail for stairs to keep distance of at most 2100 mm					PERMIT
LCH3	Mounted at Height of 900 mm					ACCOMPLISH
LCH4	Additional handrail at a height between 650 - 750 mm					ACCOMPLISH
LCH5	In ramps The distance between both sides of handrails is 1000mm					PERMIT
LCH6	Rounded section of 30 - 40 mm separated from the wall with a distance ≥ 40 mm					ACCOMPLISH
LCH7	Handrails designed to allow continuity of gripping without interfering its mounting system					ACCOMPLISH
LCH8	Contrast of 30 LRV against its background					ACCOMPLISH
LCH9	Handrails made of comfortable materials against heat and coldness					ACCOMPLISH
LCE	elevators					
LCE1	Present in buildings with more than one floor					PERMIT
LCE2	Accessible from ground floor in public areas					PERMIT

LCE3	Dimensions shall comply: One door ≥ 1200 x 1500 mm Two opposing doors ≥ 1200 x 1500 mm Two doors in 90º ≥ 1500 x 1500 mm					PERMIT
LCE4	Automatic doors with a width of 900 mm and colour contrast against walls					ACCOMPLISH
LCE5	Maneuvering space of 1500 x 1500 mm in front the elevator access					ACCOMPLISH
LCE6	Elevator calling buttons height between 900 - 1200 mm					ACCOMPLISH
LCE7	Floor indicator located at 1830mm					ACCOMPLISH
LCE8	Only one mirror inside the cabin on the wall opposite to the door over the handrail level					ACCOMPLISH
LCE9	Inside the cabin, minimum two handrails at a height of 800 mm to 1000mm from the floor					ACCOMPLISH
LCE10	Inside the cabin, buttons height between 900 - 1200 mm with Braille					ACCOMPLISH
LCE11	The ground floor button protruded ≥ 3 mm distinguished with a green color					ACCOMPLISH
LCE12	Call buttons distinguished with icons and color contrast against background					ACCOMPLISH
LCE13	Buttons provide two-channel feedback/ visual & acoustic OR visual & tactile					ACCOMPLISH
LCE14	Emergency phone number is indicated by graphic and tactile					ACCOMPLISH
LCE15	CCTV or intercom or alternative system					ACCOMPLISH

LCE16	Light on the ceiling only with 100 lux					ACCOMPLISH
LCE17	In panoramic elevators, an opaque wall or corner is provided					ACCOMPLISH
LCE17	Automatic doors open at least 3 seconds					ACCOMPLISH
LCE18	Doors provided with sensors at two levels open automatically					ACCOMPLISH
LCE19	Door force less than 135N					ACCOMPLISH
LCE20	Indication sign of accessible elevator direction when various options of vertical circulation					OPERATION
LCE21	Braille & tactile signage on the door jamb at 1500mm height					ACCOMPLISH
LCE22	Audible signal or voice announcement when reaching each floor					ACCOMPLISH
LCE23	Advisory signs indicating safety procedures and other regulatory information					OPERATION
LCL	Lift Platforms, if provided					
LCL1	Dimensions of the cabin on min. 900 x 1500 mm					PERMIT
LCL2	Maneuvering space of 1500 x 1500 mm in front the lift access					PERMIT
LCL3	Calling button height between 700 - 1200 mm					ACCOMPLISH
LCL4	Doors width of 900 mm					PERMIT
LCL5	Cabin with side protections to isolate users from side walls					ACCOMPLISH
LCL6	Inside the cabin, minimum two handrails at a height of 800mm to 1000mm from the floor					ACCOMPLISH

LCL7	Inside the cabin, continuous pressing buttons operable with the elbow					ACCOMPLISH
LCL8	Additional external control by authorized person					OPERATION
LCL9	2000mm travel height if open cabin 4000mm height if full cabin					PERMIT
LCEs	**Escalators, Travellators & Mechanical Ramps**					
LCEs1	Moving surface gradient ≤ 5%					PERMIT
LCEs2	Contrast pavement with surrounding at the beginning and end of travellator					ACCOMPLISH
LCEs3	Marked travel direction					ACCOMPLISH
LCEs4	Audio system indicating start and end					ACCOMPLISH

SP	Sanitary Provisions	YES	N/A	NON	Comments	Audit Phase
SPpt	**Public Toilets**					
SPpt1	Public toilets for male and female provided					PERMIT
SPpt2	Public toilet within 150 m distance					PERMIT
SPpt3	Furniture have a reflectance contrast of at least 30 points LRV					OPERATION

SPpt4	Toilet appliances height between 900 - 1200 mm					ACCOMPLISH
SPpt5	Toilet appliances automatically activated or operable with the elbow					ACCOMPLISH
SPpt6	Door clear width 900mm and comply door requirements					PERMIT
SPpt7	Door latches operable with the elbow installed between 900 - 1200 mm					ACCOMPLISH
SPpt8	Coat hanger on the door from inside the accessible cabin between 1100 - 1400 mm					ACCOMPLISH
SPpt9	If 2 or more urinals, 1 with usable height at 300 mm and with grab bars at height of 700 - 1200mm					ACCOMPLISH
SPpt10	Flushing systems are operated by pressing or with a flush handle with large surface and operable with one hand or elbow, toilets and urinal					ACCOMPLISH
SPpt11	Distance between the urinal grab bars is 500 mm					ACCOMPLISH
SPpt12	Urinal Grab bars mounted between 700mm from bottom up to 1200mm height					ACCOMPLISH
SPpt13	In each toilet block a baby changing board is provided					PERMIT
SPpt14	Non slippery floor surface with Pendulum Test Value (PTV) ≥ 45					ACCOMPLISH
SPpt15	With wash basins in a row, 1 is accessible					ACCOMPLISH
SPpt16	Accessible wash basin clearance from ground surface space ≥ 700 mm high and ≥ 250 mm deep					ACCOMPLISH

SPpt17	Usable wash basin surface top height between 800 - 850 mm					ACCOMPLISH
SPpt18	Faucets (water tap) operated by pressing button or a lever handle or with a sensor (Not turning valve)					ACCOMPLISH
SPpt19	Distance to the faucet (water tap) shall be less than 600 mm and vertical between 900 mm and 1200 mm.					ACCOMPLISH
SPpt20	Lower edge of mirror ≤ 900 mm height					ACCOMPLISH
SPpt21	Controls and accessories height (soap dispenser, dryer) mounted at height 700 - 1200mm					ACCOMPLISH
SPpt22	Advisory signs indicating safety procedures and other regulatory information					OPERATION
SPat	Accessible toilet					
SPat1	One accessible toilet for each gender in every floor or 1 independent accessible toilet for both genders					PERMIT
SPat2	One accessible toilet within a 150 m distance from any part of the building					PERMIT
SPat3	Corridors width in toilets, showers, lockers spaces of 1200 mm					PERMIT
SPat4	Maneuvering turning space diameter of 1500 mm in circulations					PERMIT
SPat5	Maneuvering space diameter of 1500 mm inside the toilet					PERMIT
SPat6	Maneuvering space height between 0 to 700mm free of obstacles					ACCOMPLISH

SPat7	Lateral interaction space on both sides of the toilet or on one side if symmetrical units					ACCOMPLISH
SPat8	Lateral interaction space size 865mm x 1420mm					ACCOMPLISH
SPat9	Door open outwards or is sliding					PERMIT
SPat10	Door with horizontal 300 mm grab bar placed between 900 - 1000 mm height at 300 mm from the hinge side					ACCOMPLISH
SPat11	Latch operable with the elbow installed between 900 - 1200 mm					ACCOMPLISH
SPat12	Coat hanger between 1100 - 1200 mm					ACCOMPLISH
SPgb	Grab bars in accessible toilets					
SPgb1	The space between grab bars and the wall ≥ 45mm					ACCOMPLISH
SPgb2	Withstand a force of 1 kN in any direction					ACCOMPLISH
SPgb3	Circular diameter between 30 - 40 mm					ACCOMPLISH
SPgb4	Horizontal bars height between 700 - 750 mm. Support length of 700 mm					ACCOMPLISH
SPgb5	Bars mounted in the transfer space must be foldable					ACCOMPLISH
SPgb6	With two transfer areas, distance between both grab bars 670 mm and 700 mm					ACCOMPLISH

SPgb7	With one transfer area, horizontal bars mounted in wall 300 mm from the sanitary edge with 700mm length and mounted 700 - 750mm					ACCOMPLISH
SPgb8	600mm vertical bar mounted 700 - 750mm from ground away 700mm from the wall					ACCOMPLISH
SPgb9	Toilet height between 450 - 500 mm					ACCOMPLISH
SPsh	**Showers, if provided**					
SPsh1	Shower floor surface at same floor level with surrounding area					ACCOMPLISH
SPsh2	Drain water slope ≤ 4%					ACCOMPLISH
SPsh3	Dimensions of showers area at least 865 x 1200 mm and a seat of at least 400 x 400 mm					PERMIT
SPsh4	Seat located at a height between 450 - 500 mm and separated from the wall between 150 - 200 mm					ACCOMPLISH
SPsh5	Horizontal bar length 800 mm mounted 700 - 750 mm from the ground					ACCOMPLISH
SPsh6	Two Vertical bars length of 800 mm in the lateral wall of the shower seat mounted 800 mm from the floor level					ACCOMPLISH
SPsh7	Distance between vertical bars between 670 - 700 mm					ACCOMPLISH

SPsh8	Controls within 500mm away from the shower seat					ACCOMPLISH
SPff	Full family toilet					
SPff1	With a folding adult changing board, at height of 500mm from the floor					ACCOMPLISH
SPff2	Additional children wash basin at a height of 500mm					ACCOMPLISH
SPff3	Maneuvering turning space of at least 2000mm diameter					ACCOMPLISH
SPff4	With a urinal with usable height of 400mm					ACCOMPLISH
SPff5	With emergency call button or rope					ACCOMPLISH
Spfe	Feeding Rooms					
SPfe1	One feeding room within 300 m distance					ACCOMPLISH
SPfe2	Surface: ≥ 7sq. Meters for individual ≥ 10sq. Meters for dual					ACCOMPLISH
SPfe3	With ventilation system					ACCOMPLISH
SPfe4	Furniture with reflectance contrast with the walls of ≥ 30 points LRV					ACCOMPLISH
Spab	Ablution areas, if provided					
SPab1	Electronic or sensor faucets					ACCOMPLISH
SPab2	One accessible ablution unit linked to an accessible path. The closest from the entrance					PERMIT

SPab3	Two horizontal bars mounted between 700 - 800 mm with the same length of wash basin					ACCOMPLISH
SPab4	All Accessories at a height between 700 - 1200 mm					ACCOMPLISH
SPab5	Provides bidet shower system, soap and paper					ACCOMPLISH
SPab6	Approaching free space of 1200 mm					ACCOMPLISH
SPab7	The approaching free space with contrast ≥ 30 points LRV					ACCOMPLISH

CHR	Changing rooms	YES	N/A	NON	Comments	Audit Phase
	Accessible dressing or changing rooms					
CHR1	Corridors width ≥ 1000mm and direction changes with maneuvering turning space of 1500mm					PERMIT
CHR2	Approaching space for lockers, benches and furniture 1420 x 865mm					PERMIT
CHR3	1 of 10 showers is accessible, if provided					PERMIT
CHR4	1 of 10 toilet is accessible, if provided					PERMIT

FU	Furniture	YES	N/A	NON	Comments	Audit Phase
FU1	Without sharp edges, protruding objects, burning surfaces. With contrasting colour. Made with non-toxic material, and noted if causing allergy					OPERATION

FUt	Tables					
FUt1	Height of the top ≤ 800 mm					OPERATION
FUt2	Clearance height under the table ≥ 680mm					OPERATION
FUt3	Clearance depth under the table ≥ 480mm					OPERATION
FUt4	Tables without integrated seats					OPERATION
FUc	Chairs and Benches					
FUc1	Seat height of 430 mm with a ± 30 mm tolerance					OPERATION
FUc2	Seat depth between 400 - 450 mm					OPERATION
FUc3	With backrest height between 400 - 460 mm					OPERATION
FUc4	Some seats with armrests					OPERATION
FUc5	At least in one side has lateral interaction spacem for wheelchair min 865 x 1420mm with international symbol					OPERATION
FUc6	Outdoor spaces - benches every 100 meters accompanied with shaded areas every 50 m In buildings - benches or seat types every 50 meters					OPERATION
FUd	Drinking fountains, if provided					
FUd1	Two fountains with different heights ≤ 915mm for the lower one with leg clearance					OPERATION
FUd2	Comfortable frontal and lateral approach					OPERATION
FUd3	If manual button, minimum height = 700mm for the lower one and maximum 1200mm for the higher one					OPERATION

FUd4	Water supply between 600 - 900mm height					OPERATION
FUd5	With bottle filler					OPERATION
FUd6	Clearly visible with contrasting background					OPERATION
FUtb	Trash bins, if provided					
FUtb1	Not located in the accessible path					OPERATION
FUtb2	Lateral space of interaction of at least 865 x 1420mm					OPERATION
FUtb3	Trash bin opening height ≤ 900 mm					OPERATION
FUtb4	Trash bins every 50 meters					OPERATION
FUtb5	When fixed to the walls protrude ≤ 250 mm					OPERATION
FUtb6	Operable with an elbow if opening mechanism is provided					OPERATION
FUtb7	Well contrasted signage					OPERATION
FUv	Vending machines and ATM's, if provided					
FUv1	One frontal or lateral interaction space 865 - 1420mm					OPERATION
FUv2	Floor surface is smooth, non-slippery with a gradient ≤ 2%					OPERATION
FUv3	Screen and keyboard are visible from a point located 1000 mm above the floor					OPERATION
FUv4	Screen and keyboard with no reflection or glare					OPERATION
FUv5	Control buttons height between 400 - 1200 mm and ≥ 600 mm from any corner					OPERATION

FUv6	Control buttons with high embossed text and Braille					OPERATION
FUv7	Card slot height between 800 - 1200 mm					OPERATION
FUv8	Visual and acoustic indication system and alarm system provided					OPERATION
FUv9	Audio information provided					OPERATION
FUv10	CCTV Intercom provided					OPERATION
FUv11	Slots are wide and have a funnel effect					OPERATION
FUb	**Bollards, planters, telephone booths and other furniture elements, if provided**					
FUb1	Outside the accessible path or do not reduce accessible path ≤ 1200mm					OPERATION

PA	Parking and drop off point	YES	N/A	NON	Comments	Audit Phase
PA1	Pick up & drop off area provided					PERMIT
	Accessible parking places, access to parking lots					
PA2	**Number of accessible parking lots, if parking facilities provided:** 1.3 % of the total number of parking spots. A partial parking to be considered as a full parking at the maximum number of 10 parkings					PERMIT
PA3	Accessible spaces as close as possible to the entrance of the building and no more than 50 m					PERMIT
PA4	Dimensions of accessible parking spaces: 2500 x 6000 mm for angled parking, 2600 x 6000 mm for parking along the sidewalk					PERMIT

PA5	With lateral access aisle ≥ 1200 mm					PERMIT
PA6	Signs mounted at 2200 mm with international symbol					ACCOMPLISH
PA7	Marked with international symbols					ACCOMPLISH
PA8	Curb cut with maximum 8% slope					ACCOMPLISH

TM	Tactile maps	YES	N/A	NON	Comments	Audit Phase
TM	Tactile maps					
TM1	Tactile maps are provided as in GWA					ACCOMPLISH