Requirements Catalogue of the Accessibility Standard DGS 1119_2016 - Part II and III

Authors: Dipl.-Ing. Angelika Plümmer, Victor Momoh, Obed Webu

		PART II: EXTERIOR AREAS
2.1		Exterior Routes
	the AC Measurement	Areas / Components / Requirements
2.1.3	ine rie measurement	Kerb Ramps/Kerb Cuts on Public Right of Way
		Provide kerb ramps at level difference between the sidewalk and the road surface at street corners, parking area etc (fig. 2.3)
	1500mm	min. length of kerb transition, to provide safer sidewalk ramp transition slope(fig. 2.4)
	900mm	min. width of kerb ramp between two flared sides of minimum width of 1.20m.
	1500mm	min. width of kerb ramp when the ramp is located on a public thoroughfare
	1:20	slope ratio of ramp (1:10 for shorter kerb), and 1:10 maximum slope of the flare
		Kerb ramps should be made of non-slippery materials
		At zebra/pedestrian crossings, kerb ramps should be provided at both sides of the crossing
		Kerb ramp should be at right angle to the path of travel and should have a cane-detectable edge(fig. 2.4)
		Kerb ramps should have a contrasting colour to the road surface and with a different texture(fig. 2.5)
ì		Kerb ramps must be free from obstacles
	1065mm	min. depth of a clear and level landing at the top of the kerb ramp
2.1.5		Guards and Handrails
		Continuous handrails should be provided on either sides of all ramps or stairs, or wherever three or more steps a provided
		Handrails should be of a smooth, easy to grip design
	30-60 mm	max. diameter of handrails (fig. 2.8 & 2.9)
	865 - 965 mm	mounting distance of handrail above the stair nosing
	300mm	min. extension of handrail beyond the top and bottom risers of all flights of stairs or ramps(fig. 2.10)
		Handrail ends should terminate either by turning down or by going into the wall
		Guards are required on both ramps and stairs wherever height differences are significant
		Guards and/or handrails, where provided on terraces or viewing platforms, should be designed so that a seated
		person (e.g., wheelchair user) can see under the handrail or guard
	1000mm	distance within roadway, where handrails and/or guards should not be located
		For ramps more than 3000mm wide and stairs more than 2700mm wide , there should be intermediate handrails
		painted in contrasting colours.
		Handrails should be made of preferably metal or any other approved strong and sturdy material
2.1.5.1		Handrails
	32 - 45 mm	recommended diameter of handrail on both sides of stairs
	40mm	min. distance between handrail and vertical wall surface
	600 - 700mm (1)	Double handrails at different heights (1) for children and disabled and (
	800 - 900mm (2)	for other users (fig. 2.11)
	150 - 200 mm	Required height of rails at the bottom of railings for protection of wheels from falling out of the ramp edge
2.1.6		Lay-Bys for Vehicles
	2050 V 7025	Provide special lay-by area, free of other vehicular traffic at every regular vehicular stops
	3050 X 7925 mm	min. width x length of lay-by, with a kerb cut located towards the rear of the space
	3555mm	min. lay-by headroom for special transit vehicle and for adapted vans etc.(fig. 2.13)
	1980mm	min. width of sidewalks adjacent to lay-by, to accommodate side-loading vehicles with hydraulic lifts
	2440 v 1525 mm	Bus stop boarding and alighting areas shall have a firm, stable surface
	2440 x 1525 mm	min. clear length x width of bus stop boarding and alighting areas
		Bus stop boarding and alighting areas shall be connected to streets, sidewalks, or pedestrian paths by an accessib
2.1.7		route Paths, Sidewalks and Walkways
2.1.7		Firm, level, and non-slip unit paving materials
	1675mm	min. width of walkways and paths in public property, to allow for two wheelchairs or scooters at a time
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		Kerb ramps should have a contrasting colour to the road surface and with a different texture(fig. 2.5)
		Kerb ramps must be free from obstacles
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2.1.5	100311111	min. depth of a clear and level landing at the top of the kerb ramp Guards and Handrails
2.1.3		Continuous handrails should be provided on either sides of all ramps or stairs, or wherever three or more steps are
		provided
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	30-60 mm	max. diameter of handrails (fig. 2.8 & 2.9)
	865 - 965 mm	mounting distance of handrail above the stair nosing
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2.1.6		Lay-Bys for Vehicles
		Provide special lay-by area, free of other vehicular traffic at every regular vehicular stops
	3050 X 7925 mm	min. width x length of lay-by, with a kerb cut located towards the rear of the space
	3555mm	min. lay-by headroom for special transit vehicle and for adapted vans etc.(fig. 2.13)
	1980mm	min. width of sidewalks adjacent to lay-by, to accommodate side-loading vehicles with hydraulic lifts
		Bus stop boarding and alighting areas shall have a firm, stable surface
	2440 x 1525 mm	min. clear length x width of bus stop boarding and alighting areas
		Bus stop boarding and alighting areas shall be connected to streets, sidewalks, or pedestrian paths by an accessible
		route
2.1.7		Paths, Sidewalks and Walkways
		Firm, level, and non-slip unit paving materials
	1675mm	min. width of walkways and paths in public property, to allow for two wheelchairs or scooters at a time
	1100mm	min. width of walkways and paths on private property
	1:20 (5%)	max. gradient of sidewalks, except when site conditions prevent this(fig. 2.29)
	6mm	max. width of unit paving joint (fig. 2.16)
	13mm	max. opening, where gratings must be located in sidewalks
	1311111	Bars of gratings should be perpendicular to the path of travel(fig. 2.17)
2.1.8		Pedestrian Routes
2.1.0	1E00mm	
	1500mm	min. width of all active routes (1675mm preferrable)
		All routes should be free of protruding obstacles, overhanging signs, branches etc.(fig. 2.6, 2.7 & 2.18)
	100	max. allowable protrusion of objects into any pedestrian route from grade to a recommended height of 2030 mm
	100mm	
2.1.9		Ramps
	1:12	max. steepness of ramp
	9000mm	max. length of individual ramp sections
	1015 - 1100 mm	width of ramps, with handrails at both sides

		recommended width of ramp for use by persons with visual limitations only to allow space for a companion or a
	1525mm	recommended width of ramp for use by persons with visual limitations only, to allow space for a companion or a guide dog
	1670 x 1670 mm	min. depth x width of intermediate level landing of ramps(fig. 2.21, 2.24 & 2.25)
		min. depth x width of level platform area, plus an additional distance for any doors opening onto the landing,
	1670 x 1670 mm	where ramps return upon themselves or where doors open out onto the ramp(fig. 2.22 & 2.23) height of recommended up stand barries on either side of ramps to act as a cafety stan for the front
	50mm	height of recommended up-stand kerb or solid barrier on either side of ramps to act as a safety stop for the front wheels of wheelchairs and/or scooters.
	3011111	Provide handrails at both sides of ramps with slopes between 1:20 and 1:12 as aid to mobility
	865 - 965 mm	mounting height of handrails on ramps
		There should be a smooth continuous surface of handrail from top to bottom of the ramp, without breaking the handhold.
	300mm	min. extension of handrail beyond the top and bottom of the ramps(fig. 2.26)
	300111111	Handrail ends must be turned down or curved into an adjacent wall
2.1.9.1		Tactile Marking
		A tactile marking with contrasted colours should be placed at the beginning and end of the ramp to alert the blind
		persons with visual
		impairment about the length and width of the ramp
	600mm	width of marking
2.1.10		Stairs and Steps
	180mm	Exterior steps should be of firm; non-slip materials max. height of riser
	280mm	max. length of fread (fig. 2.27)
	200111111	Tread nosings should be clearly marked with either a brightly painted non-slip finish and/or include an integrated
		non-slip nosing that
		clearly contrasts in tone/colour from the tread
		Continuous handrails should be provided on both sides of all exterior flights of stairs/steps, which include 3 or more
		risers
	2200mm	min. width of stair/step flights, where an intermediate handrail is recommended
		Provide cane-detectable and textured paving surfaces at top and bottom of all flights of stairs/steps
		Exterior doors that open onto landings should be avoided wherever possible
2.1.12		Drainage
2.1.12.1		Drainage Gratings
		If feasible, drainage gratings should be positioned beyond the boundaries of the access route
	13mm	Gratings within an access route should be set flush with the surrounding surface max. width of slots in gratings, and should be set at right angles to the dominant line of travel
	13111111	
	18mm	
2.2	18mm	max. diameter of circular holes in gratings Transport Infrastructure
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	1:25 1 1:100 3660 x 5385 mm 2750mm 2100mm 1100mm 1200mm 1500mm 1200mm	Transport Infrastructure Parking Recommended distance from the main/other accessible entrance, within which accessible parking space(s) should be provided Protected or designated route from the accessible parking space to the accessible entrances should be provided Parking meters to be accessible for persons with disabilities ratio of accessible parking spaces to normal parking spaces, plus 2 spaces for each additional 100 parking spaces (i.e. 1:50) min. number of accessible parking space, where the number of parking spaces provided is less than 25 min. ratio of accessible parking space, where the number of parking spaces provided is less than 25 min. ratio of accessible parking space for wheelchair vans to other spaces min width x length of accessible parking space for wheelchair vans(fig. 2.33 & 2.37) min. headroom clearance for van parking spaces min. headroom below beams, pipes, or sprinkler heads, where covered or underground parking spaces for cars are provided In multi-storey or underground parking garages, at least one level of parking should include easy to locate accessible parking spaces min. width of walkway from designated parking to the accessible entry to the building Walkway must be firm, level, non-slip material with a texture contrasted with the adjacent surfaces. All accessible parking spaces should be marked with the "International Symbol of Accessibility" (fig. 2.35 & 2.36) min. width of accessible parking spaces required clear pedestrian aisle for an accessible parking spaces are adjacent(fig. 2.34 & 2.36) clear zone behind accessible parking space with a contrasting surface marking, for safe access to the boot or rear hoist of vehicles (fig. 2.39) required width x length of at least one parking space, to cater for commercial vehicles converted for side or rear access using hoists or ramps Provide a suitable kerb ramp from the accessible car parking area to any adjacent walkway where difference in elevation is greater than 13mm Keep pedestrian walkways safe by the use
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2.2.5.1		Signago Conoral
2.2.3.1		Signage General Signs should be readable and legible for people who have vision or mental impairments
		Information with text should be supplemented with international graphical symbols to facilitate comprehension
Í		Signs should be provided in relief and Braille
		Signs should be made of robust materials and be easy to change, clean and repair
		An excessive quantity of signs in close proximity should be avoided, as well as visual material placed too close to wall fixed signs
		Braille used as a complementary or independent feature to tactile signs should be easy to locate
2.3 2.3.1		Special Exterior Areas and Features
2.3.1		Sports Fields and Spectator Areas min. width of controlled access points (e.g., turnstiles), to accommodate the free movement of wheelchairs or
	915mm	scooters Provide level, accessible seating areas beside sports fields for both spectators and athletes with disabilities
		Fixed or portable seating should include some seats with back supports and arm rests
2.3.2		Amphitheatres
		Exterior amphitheatres or performance areas should include seating areas that are accessible to persons using
		mobility aids At least two spaces should be provided side by side in each accessible location to allow for a companion
	2%	min. number of sitting space for persons using mobility aids (fig. 2.47 & 2.48)
2.3.3		Outdoor Eating and Entertainment Spaces, Balconies and Terraces
	13mm	max. thresholds for public balconies or terraces, accessible from interior spaces
		max. height x length of ramp, and max. pitch of 1:7.5 should be used where greater differences in elevation are
	150 x 1200 mm	unavoidable
		Firm, non-slip surface materials for balcony or terrace, laid to fall (no greater than 5%)
	4000	Handrails or guards should be designed to allow clear vision beyond the rails
	1830mm	min. recommended depth of balcony, to allow free rotation of mobility aids(fig. 2.49)
2.3.10		Locate doors opening onto balconies or terraces against a sidewall or rail Parks and Parkettes
2.3.10		Entrance gates, parking areas, paths and walkways through the park should be fully accessible to persons using
		mobility aids
		Play areas and recreational equipment, or other amenities should be accessible to and useable by children with
		varying abilities/ disabilities (fig. 2.74 & 2.75)
		Benches and seating areas should be accessible to a variety of users
		Locate all obstructions to one side of all paths and/or active playing areas
2.3.11		Play Grounds
	1500mm	min. clear width of accessible route to the play grounds from accessible parking spaces (1675mm preferrable)
	1:20	max. slope for accessible route (use ramp when the slope exceeds 1:20)
	1:12 1015mm	max. slope for a ramp (1:15 preferrable)
	101311111	recomended min. width (between handrails), for a max. sloped distance of 9m min. clear width of accessible routes connecting elevated play components (815mm min. width when distance is
	915mm	610mm max.)
	2%	min. cross-slope of landings, to allow adequate drainage
		Firm, easy to drain, non-slip accessible surfacing
		Separate play areas by age appropriate equipments
		Exception: clear mimimum width of transfer systems connecting elevated play components shall be permitted
	610 mm	
	610 v 420 v 760 mm	Guidance on reach ranges for children seated in wheelchairs(Tab. 2.4)
ı	610 x 430 x 760 mm	min. height x depth x width of knee clearance, where play tables are provided
2.3.19	785mm	max. height of the tops of rims, curbs, or other obstructions
2.3.19 2.3.19.2		max. height of the tops of rims, curbs, or other obstructions Market Places
		max. height of the tops of rims, curbs, or other obstructions
	785mm	max. height of the tops of rims, curbs, or other obstructions Market Places Walkways and Aisles
	785mm	max. height of the tops of rims, curbs, or other obstructions Market Places Walkways and Aisles min. width of walkways or aisles between stalls and edge of vending tables
2.3.19.2	785mm	max. height of the tops of rims, curbs, or other obstructions Market Places Walkways and Aisles min. width of walkways or aisles between stalls and edge of vending tables create a clear distinction between the truck pushers' lane and that of pedestrians
	785mm 3000mm	max. height of the tops of rims, curbs, or other obstructions Market Places Walkways and Aisles min. width of walkways or aisles between stalls and edge of vending tables create a clear distinction between the truck pushers' lane and that of pedestrians Size of waiting areas at every 30000mm interval on the walkway, along the access route and passage between stall
2.3.19.2	785mm 3000mm	max. height of the tops of rims, curbs, or other obstructions Market Places Walkways and Aisles min. width of walkways or aisles between stalls and edge of vending tables create a clear distinction between the truck pushers' lane and that of pedestrians Size of waiting areas at every 30000mm interval on the walkway, along the access route and passage between stall Fire Safety Means of escape should be in accordance with the fire safety standard
2.3.19.2 2.3.19.4	785mm 3000mm	max. height of the tops of rims, curbs, or other obstructions Market Places Walkways and Aisles min. width of walkways or aisles between stalls and edge of vending tables create a clear distinction between the truck pushers' lane and that of pedestrians Size of waiting areas at every 30000mm interval on the walkway, along the access route and passage between stall Fire Safety Means of escape should be in accordance with the fire safety standard Create an access route for fire tenders to access the stalls
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2.3.19.2 2.3.19.4 2.3.19.5	785mm 3000mm	max. height of the tops of rims, curbs, or other obstructions Market Places Walkways and Aisles min. width of walkways or aisles between stalls and edge of vending tables create a clear distinction between the truck pushers' lane and that of pedestrians Size of waiting areas at every 30000mm interval on the walkway, along the access route and passage between stall Fire Safety Means of escape should be in accordance with the fire safety standard Create an access route for fire tenders to access the stalls Signage Provide signage at entrances and within the concourse of stalls for information and direction purposes Audio and Visual systems for information should be installed. (Refer to section on Signage) Place of Worship Parking
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	Provision for fire prevention, fire protection and fire safety should conform with the fire safety standard
	Mezzanine Floor Provide ramps and lifts in addition to staircases, where mezzanine floors have been created
	Mosques
850 x 1000 mm	required space per abled person
	required space per dated persons with disabilities
900 x 1400 mm	Size of storage space required for wheelchair users, adjacent to praying mat
	Access to seating in general waiting areas should be direct and unobstructed
900mm	min. clear width of access in front of a row for disabled people (1200mm where practicable)(fig. 2.85)
	min. width x depth e.g., between rows of seats to allow maneuvering of wheelchairs into a designated space(fig.
1050 x 2300 mm	2.86)
	The entrance area for shelves and shoe racks must be accessible to Persons with disabilities
	A hearing enhancement system should be provided for people with hearing impairment
	Provide visual aid, eg. Projectors and TV screens where practicable
	Seating areas should be located so that they are easily identifiable by blind and partially sighted people
	Abulution Space
	It should be accessible and conform with bathroom standards for persons with disabilities
	Washrooms
	Provide separate washrooms for persons with disabilities
	Separate entrance for males and females should be provided
	Squatting closets appropriate for persons with disabilities should be provided where necessary
	Types of Seating
	Removable seating should be provided at various locations in places of worship to accommodate wheelchairs
	Provide seats with and without arms
	Whenever feasible, seatings should have cushions
450 - 475 mm	Deisred seat height, or compressed cushion height, or fixed seating
	Crematoria and Cemetery Chapels
	A covered assembly area should be provided at crematoria
	The entrance and exit of the crematorium should be accessible to people with disabilities
	Provide seating space for wheelchair users
	Outdoor Amenities
	Benches and Seats Exterior benches or seats should be mounted on a firm and level base (e.g., concrete pad, brick pavers etc)
	Exterior benches or seats should be indunted on a first land level base (e.g., concrete pad, blick pavers etc) Exterior benches or seats should be located to one side of public walkways or paths(fig. 2.87)
	Fixed benches should include suitable back supports and arms to allow for easy transfers
405 - 460 mm	suitable seat height (fig. 2.87)
	min. clearance space provided at least one place beside the bence for persons using a wheelchair or scooter
	min. length x depth of benches (610mm max. depth)
1000 X 010	Where installed in wet locations, the surface of the seat shall be slip resistant and shall not accumulate water
	Public Shower rooms and bathrooms
	Where public showers and bathrooms are provided in exterior settings (e.g., as part of a campground, exterior
	swimming pool or other recreational facility), they should be designed to be accessible to persons using various
	mobility aids
	max hight for lip, threshold or step at the entry of doors of showers that should be of firm and solid material laid t
>13mm	drain
	Street Furniture and Vending Machines
	All street furniture, including light Standards, signs, planters, mail boxes and vending machines, should be mounted
	to one side of the normal path of travel
	Wherever possible, street furniture should be positioned securely on a continuous separate amenity strip (beside
	sidewalks), or located to one side of accessible entrances
	min. width for amenity strips, and should be of a different paving material to the normal path of travel(fig. 2.93)
610mm	
610mm	Waste Receptacles and Recycling Bins
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	900mm 1050 x 2300 mm 450 - 475 mm 405 - 460 mm 1015 x 1220 mm 1065 x 510 mm

		Audible pedestrian signals should be loud enough to be heard clearly above the ambient noise (min. 15 decibels louder than ambient noise)
	1065mm	max. mounting height of a clearly marked pedestrian button on a pole beside the curb cut, where extended time is required to cross (e.g., by senior citizens and persons with disabilities)
		Tactile features should be provided as an aid to persons who have both hearing and vision limitations. (i.e. a tactile or vibro-tactile feature on push buttons.)
		In locations frequently used by senior citizens or persons with disabilities, crossing timing should be provided to permit pedestrians, or wheelchair users to cross safely
2.5.2	20.1	Lighting for Exterior Areas not including Roads
	30 lux 50 lux	recommended lighting level at frequently used pedestrian routes (including paths, stairs, and ramps) min. lighting level in the accessible parking areas, and along accessible routes from area pf parking to accessible
	30 lux	entrances Lighting sources should be selected and located at, or beside steps and stairs, to ensure clear definition of treads, risers, and nosings
		All lighting over pedestrian routes should be evenly distributed, provide a reasonable colour spectrum, and minimize cast shadows for persons with low vision
		Supplementary lighting should be provided to highlight all key way-finding signage
		Lighting Stands or posts should be mounted to one side of pedestrian walkways to allow the free movement of persons using mobility aids
		Low-level lighting Stands should be high enough to ensure visibility
		Overhead light fixtures should be mounted on Stands that ensure clear headroom of 2030 mm
		Lighting of landscape on special site features should be designed and installed to minimize direct glare to both pedestrians and building users
2.5.3		Public Address Systems
		Where public address systems are required, select and install those that minimize distortion and provide a full spectrum of sound.
		For speech, the frequency range only needs to be from 100 Hz to about 8000 Hz.
		Loudspeakers should be located so as to cover the desired area adequately
		Where significant information (e.g. emergency information) is to be announced, a clear warning signal should be provided before the announcement, to alert persons who have hearing impairment
		Where large outdoor concerts are regularly performed, every attempt should be made to include a FM loop (or
		other suitable systems), for persons who are hearing impaired (fig. 2.98)
2.5.4		Signage and Way-finding
		The street address and/or building/facility name should be clearly visible from the street or public laneway Lettering size should be legible at typical viewing distances (e.g., from the road, approach route, parking area, etc.)
		Signage generally should be in bold 'sans-serif' lettering (e.g., Helvetica) on a highly contrasting background Building addresses or identifying signage at street level, whether it is mounted in landscaped areas or on posts,
		should be high enough to be visible even with nearby piles
		Pedestrian, vehicular, and emergency routes should all be clearly identified One-way routes should be clearly marked – both with paving markings and by post-mounted signs
		The "International Symbol of Accessibility" should be used to identify special amenities, such as accessible parking,
		accessible entrances, or accessible washrooms
		Provide spaces for announcement, and show directions to such space through signages
2.5.5		Traffic Signals
		Traffic light timing at specific sites should be adjustable to suit not only the volume of vehicular traffic, but also the volume of pedestrian traffic
		Timing of lights for frequently used pedestrian crossings should be adjustable so that the walking speed of persons with disabilities, or seniors, can be accommodated safely
		Audible pedestrian signal indicating when it is safe to walk should operate consistently with visible pedestrian signals
		The sound of signals should be capable of being heard above ambient traffic noise Signal sounds should differentiate directional crossings (e.g., east to west signal should differ from north to south
		signals) Tactile features should be provided as an aid to persons who have both hearing and vision limitations. (ie. A tactile
		or vibro-tactile feature on a pushbutton)
		Buttons for pedestrian initiated calls should be located in a constant location, on posts set at level surfaces that are identified by textured paving, for persons with visual limitations
	1065mm	recommended constant height of the buttons for pedestrian initiated call
		No obstacles, poles, bins, signs etc., should be located on the level of approach area or within 990mm of the
2.6	990mm	normal pedestrian approach to the call button location(fig. 2.101)
2.6 2.6.1		Other Exterior Features Colour Pattern and Texture
2.0.1		Colour, Pattern and Texture Signage should generally be designed using highly visible and contrasting colours(fig. 2.102)
	70%	approximate light reflectance of colour/tone contrast on signage
		All finishes should be matte in order to minimize glare
		Colour contrast should also be used to define edges or boundaries of objects
		In frequently use spaces, colour or tone contrast should also be used to define the boundaries of a room(e.g., at the innertion between walls and floors), as an aid to orientation
l		junction between walls and floors), as an aid to orientation

2.6.3		Colour may also be used to provide constant information (e.g., the location of exit doors, for example, by painting all exit doors in the same distinctive colour) Use textured paving strip, at least one pace deep - 915mm at head of stairs or ramps or wherever walking hazards may exist (fig. 2.103) All textured surfaces used as warning devices should be cane-detectable and clearly differentiated from surrounding paving surfaces Free-standing Objects Permanent objects such as bollards, bicycle racks, etc., should all be placed to one side of designated pedestrian routes (fig. 2.106)
		Temporary objects such as queuing lines, sales booths, loose garbage receptacles, etc., should be located to one side of the normal pedestrian route. (fig. 2.107) Guy wires, and other braces or supports for trees, posts etc., should be located so they do not constitute a hazard for persons with visual limitations
2.6.4		Garbage Handling Waste receptacles, containers, or boxes, (including recycling boxes), should be large enough to contain the anticipated quantity of waste in any one location All waste receptacles (except large industrial containers) should be accessible to persons using mobility aids The paving around waste receptacles should be level, firm, free draining and easy to wash down Where covered waste receptacles are used, the covers should be useable with one hand Temporary construction scows or large mobile industrial containers should be located away from normal pedestrian routes Vehicular access routes to garbage containers for maintenance purposes should not cross normal pedestrian routes
2.6.6		Landscape Materials and Planting
	460mm 100mm	Recommended height of planter beds above grade should be provided min. height of planter bed edges, provided adjacent to busy pedestrian walkway, as an aid to persons with visual limitations Provide defined edges at trail boundaries wherever the adjacent grade is variable
	1980mm	Trim overhanging branches of trees or shrubs, located over walkways or paths min. headroom for tree branches over walking spaces (2030mm preferrable) Walking areas should be clear of thorns, branches, heavy berries etc.(fig. 2.113)
2.6.7	13mm	Materials and Finishes All paving should be laid to drain easily Gratings or grills should generally be located to one side of pedestrian walkways, however, where they are inevitable, then the bars of the grating or grill should be located at right angles to the normal path of travel max. opening on gratings or grills (fig. 2.103, 2.114, 2.115 & 2.116) All steps should be of non-slip materials with highly contrasted nosings All ramp surfaces should be firm and non-slip Handrails and guardrails should be continuous, smooth and well maintained Walls adjacent to ramps or stairs should be in non-abrasive finishes Smooth walking surfaces are preferred Where interlocking pavers are used, they should be laid on a firm, well-compacted backing (e.g., stabilized base)
2.6.8		Maintenance All key pedestrian routes to accessible entrances and/or exits should be kept free of any obstacles All garbage containers should be emptied regularly to avoid the accumulation of extraneous garbage around the containers All light bulbs along pedestrian routes should be replaced on a regular schedule, with lamps (of the same wattage) for which they were designed All gates, closers, automatic door operators, porch lifts, automatic ticket machines or other essential equipment should be inspected and well maintained on a regular schedule
2.6.9		Obstacle Removal Regular and systematic checks should be undertaken to ensure that no obstacles have been located in pedestrian routes (fig. 2.117)
2.6.10		routes (fig. 2.117) Safety and Security Ensure that adequate lighting is provided over public walkways, steps and ramps as well as where public parking is
		Provide a call bell or a two-way communication device at the main accessible entrance Provide a call bell or a two-way communication device in enclosed public parking areas where accessible parking is provided Provide an accessible public telephone at or in close proximity to the main accessible entrance for persons waiting for a ride or for persons requiring emergency assistance Consider the inclusion of a two-way call system or other suitable emergency call system linked to a central location (e.g., office or switchboard) from any accessible unisex washrooms in larger public buildings such as hospitals, schools or recreation facilities, for persons who may require assistance

Develop a comprehensive 'Emergency Plan,' which addresses the needs of persons with varying dis	sabilities, as well
as frail senior citizens, for exiting large outdoor recreational facilities or other places where crowd-	control is likely
to be an issue	

		PART III: INDOOR AREAS
	AC Measurement	Areas / Components / Requirements
3.1 3.1.1		Entrance Canopies and weather Protection
3.1.1	2750mm	All main entrances and and other accessible entrances should be protected by a canopy or overhang min. headroom clearance for canopies over passenger boarding zones
	3555mm 2895mm	min. headroom clearance for special transit vehicles min. headroom clearance for adapted vans used by persons with disabilities(fig. 3.1)
3.1.2	0.15	Doors and Doorways
	915mm 1 2	min. width of main entrance door and other accessible doors number of accessible entrance required for building with 1 to 3 entrances number of accessible entrance for building with more than 3 to 5 entrances, 50% minimum accessible entrances for buildings with more than 5 entrances)
	810mm	min. width of at least one leaf of door pairs Automatic or power-assisted door openers are required for accessible entrance doors and related vestible doors
	305mm 1200mm	min. clearance between door swing and guards or highly contrasting and textured surface (or mat) Space needed to allow access by people using crutches Use automatic sliding glass doors at busy entrances, not designated exits
		Use colour differenciation to aid location of entrances in buildings with significant amount of glazing at grade(fig. 3.3)
3.1.2.1		Self-Closing Swing Doors
		Hinged or pivoted entrance doors should have controlled door closing devices and independent use by everyone
3.1.2.2		Power-Operated Doors
		Use a manually activated door controlled by a push pad, coded entry system, card swipe or remote control device; or
3.1.2.3		An automatically activated door controlled e.g, by a motion sensor or a hands-free proximity reader Double-Leaf Doors and Gates
	815mm 90 degrees 915mm	min. clear width of at least one of the active leaves of doorways with two leaves shall clear opening of at least one of the active leaves of doorways min. clear opening, where openings are more than 610mm deep There shall be no projections into the required clear opening width lower than 865mm above the finish floor or ground.
	100mm	max. projections into the clear opening width between 865 - 2030 mm above the finnish floor or ground EXCEPTIONS: 1. In alterations, a projection of 16 mm maximum into the required clear width shall be permitted for the latch side stop. EXCEPTIONS: 2. Door closers and door stops shall be permitted to be 1980 mm minimum above the finish floor or ground.
3.1.2.4		Doorways without Doors, Sliding Doors, and Folding Doors
		Doorways less than 915 mm wide without doors or gates, sliding doors, or folding doors shall have maneuvering clearances complying with Tab. 3.2.
3.1.2.5		Recessed Doors Provide maneuvering clearance for forward approach when any obstruction within 455mm of the latch side of a
3.1.2.6		doorway projects more than 205 mm beyond the face of the door(fig. 3.8) Door and Gate Hardware
	865 - 1220 mm	Recommended height of handles, pulls, latches, locks, and other operable parts on doors and gates of such hardware above the finish floor or ground Where sliding doors are in the fully open position, operating hardware shall be exposed and usable from both sides
3.1.3		Door Hardware, Locks and Closers
	1000 - 1100 mm	Automatic door openers are recommended wherever possible Push buttons or card access controls used to open doors should be located away from the door swing recommended mounting height of push buttons or card access control on walls or posts Preferred push button 150 mm diameter is recommended
	2135mm 915 - 1065 mm	min. distance between doors in a series (e.g., in a vestibule) and/or the clear floor area between door swings should be no less than 1200 mm. recommended mounting height of door hardware from grade, including pulls and push plates All door opening hardware on entrance, vestibule, and room doors should be easy to grasp and use (e.g., of the lever handled type). (fig. 3.9)
	760 - 1065 mm	Hardware for closet doors, drawer pulls etc., should be continuous and easy to grasp(fig. 3.10) required mounting height of door locks

		Select sliding door hardware that does not reduce the effective clear opening width below 810 mm Provide an additional pull handle, mounted horizontally and close to the hinge side of the door where out-swinging doors must be closed to preserve privacy (e.g. on washroom doors)
3.1.3.1		Manual Door Opening and Closing Furniture
		It should be possible to operate all door opening furniture one-handed, without the need to grasp or twist Care should be taken in the selection of security and fire exit fittings with the aim of making them manageable for
		all users Wherever possible, door opening furniture used in conjunction with locks and latches should have a lever action.
	0.5 N·m	max. torgue force required to operate keys and cylinder turns of Knobs
		All door opening furniture should contrast visually with the surface of the door As a principle, pull handles should not be fitted to the push side of doors
		please see fig. 3.11, 3.12 & 3.13 for the location and design of lever furniture and pull handles for both external and integral deeps, and should be consistent throughout the property.
		internal doors, and should be consistent throughout the property Where lever furniture intercepts viewing panels, any projecting glazing beads should not interfere with the
		operation of the lever or reduce the effective clearance behind it.
3.1.4	2 wheelchairs	Entrances min. waiting space in the main accessible entrance, with clear entrance for vehicles
	2	Building entrance must be protection from weather
		Call bell (or information telephone) should be provided at accessible entrances that have security locks or other
		locking devices Accessible public telephone should be provided near the entrance in public buildings
3.1.5		Glazed Screens and Sidelights
	1350 - 1500 mm	Fully glazed sidelights at exterior entrances or in interior vestibules, as well as fully glazed screens elsewhere, should be clearly identifiable so as not to constitute a hazard for persons with visual limitations mounting height of a row of bright decals or a continuous opaque stripe, a minimum of 50 mm wide and of highly
	1550 1500 11111	contrasting colour
	150mm	location of decals on center and can be either 50 mm square or round and/or of a special design Where etched or patterned glass is used, decals or a stripe of a highly contrasting colour, are recommended
		Partially glazed doors should have glazed panels that extend low enough to allow persons using mobility aids to see what is on the far side of the door (fig. 3.16)
3.1.6		Mats and Mat Sinkages
		Mats at entrances and in vestibules should be level with the floor and/or located in mat sinkages Occasional mats (e.g., runners provided during bad weather) should be level with the floor surface and/or have gently bevelled edges
		Runners used to define paths should lead directly to the desired objective with no furniture or obstacles Large, repeating patterns that incorporate bold contrasting colours or simulate steps should not be used for any floor surface
3.1.7		Thresholds
	13mm max. 13mm max.	height of thresholds at exterior areas (e.g., terraces and balconies) with gentle bevelled height of thresholds at interior doorways (fig.3.18)
	19mm max. 15mm	height of existing or altered thresholds that has a bevelled edge on each side with 1:2 maximum slope. cumulative height of upstands, where thresholds are raised e.g. for water ingress.
3.1.8	1311111	Vestibules
	1100mm	min. width of interior vestibules, corridors, or aisle for ease of turning of mobility aid users
	1200mm 600mm	min. depth of vestibule, clear of door swings and/or other obstacles min. clear space, where doors swing towards the person using a mobility aid(fig. 3.19)
	300mm	min. clear space, where doors swings away from the person using a mobility aid(fig. 3.19)
3.1.9		Waiting Areas
3.1.9.1	2 wheelchairs	Provision of Spaces for Wheelchair Users min. requirement of two wheelchairs or scooters, plus other members of the public (with level floor)
3.1.9.2	2	Access
	900mm	Access to seating in general waiting areas should be direct and unobstructed. min. clear space in front of a row of seats (1200mm where practicable)(fig. 3.20) width and depth of space from circulation route at right anges (e.g between rows of seats), for wheelchair
	1050 x 2300 mm	maneuveing into a designated place (fig. 3.21)
3.1.9.3		Seating Layouts
		Two wheelchair seating layout or wheelchair user sitting next to user of standard seating One standard sized seating space within or at the end of a block of seating for an assistance dog (guide or hearing dog)
3.1.9.4		Types of Seating
	450-475mm	Provide seating options, e.g. fixed or removable, with or without arms (where feasible, with cushions) seat height, or compressed cushion height for fixed seatings Provide other seats with varied height and width for differently sized people and those with restricted leg
3.1.10		movement Floor or Ground Surfaces
		Stable, firm, and slip resistant floor and ground surface (except areas within animal containment and sport activity) Securely attached carpet or carpet tile
	13mm	max. height of pile for carpet with level cut pile, or level cut/uncut pile texture

	6.4 -13mm 13mm	bevel change in level with a slope of max. 1:2 (fig. 3.22) otherwise, see section 2.1.9, and 2.1.3 max. allowable thickness of carpet and permanently affixed mat Mats and carpet must be firm, to prevent roll resistance of wheelchairs
	13mm diameter	Openings in floor or ground surfaces shall not allow passage of a sphere more than 13mm diameter (fig. 3.24)
3,2		Interior Routes
3.2.1		Aisles and passages
	1675mm	min. width of aisles and passages for two wheelchairs or scooters in high use public areas
	1200mm	width of aisles or passages for a wheelchair and one ambulatory person(fig. 3.25)
	1100mm	min. width for clear aisle and passageways in low use areas and offices
2 2 2	1600 x 1600 mm	turning space at 30m interval and dead ends of 1100mm wide aisle
3.2.2	1100mm	Corridors and Passageways min. width for high use accessible public corridors and path of travel
	1600mm diameter	turning space at every 20m path of travel and corridors (fig. 3.26, 3.27, 3.28, & 3.29)
	1065mm	min. width passageway within accessible residential suites and aisle in public areas and workspaces etc.
	2000	Colour contrasted and suitable handrail, on at least one side of extended length corridors is required
		Benches should be provided at intermediate point in extended length corridors of 40m or more
3.2.2.1		Projections into Corridors and Passageways
		Avoid obstructions such as radiators and fire hose in corridors or passageways, or use visible warning signs(fig
		3.31)
	1200mm	min. surface width of corridor (1000mm min., where there is a permanent obstruction over a short distance)
		Avoid floor patterning that could be mistaken for steps, e.g stripes)
	1:20 steepness	max. slope of floors in corridors (exemption for ramp that includes landing)
	100 /	Lighting in a corridor should be even, diffused and without glare, reflections or shadow
	100 lux	min. artificial light illuminance required at floors level for corridors that receives no daylight
		An outward-opening door is preferable
		Effective clear widths of doors (see table 3.3) Doors with viewing papel(s) (fig. 3.33)
		Doors with viewing panel(s) (fig.3.32) When glass doors are used, especially in fully glazed walls, they should be more prominent (e.g., with
		apparent edges)
3.2.2.2		Fire Escape Routes via Horizontal Circulation
	1200mm	min. unobstructed width for an escape route
		The fire escape routes width should be at least as the escape stairs
3.2.3		Doors and Doorways
	915mm	min. width for doors, doorways or arched openings (860mm min. opening, clear of obstruction)
	915mm	min. width for fire doors or smoke doors in corridors (860mm clear width)(fig.3.33)
	22 Newtons	opening force for interior doors using closers or other automatic latching devices
224	38 Newtons	opening force for exterior doors, which include panic hardware
3.2.4		Passenger and Platform Lifts Used independently and accessible to persons using mobility aids in all public facilities
		Must comply with the most recent CAN/CSA B355 Standards (alternative BS Standards) "Lifts for Persons with
		Physical Disabilities".
		Must comply with the most recent CAN/CSA Standards B44, "Safety Code for Elevators," (alternative BS Standards)
		It must be easily accessible and operated controls/buttons(fig.3.35)
		It must have delay button for boarding of slower users
	1725 x 2285mm	min. size of at least one elevator in high-rise residential and institutional facilities(fig. 3.36)
	1065 x 1370mm	min. platform size for individual platform lifts required to travel between levels of max. 1980mm (fig. 3.37)
		The lift should have an emergency call system linked to a monitored location within the building
	100 lux.	Install a concave mirror at the back of the lift car required lighting at floor level in lift cars and platform lifts (also in adjacent lobby space)
3.2.4.2	TOO IUX.	Platform Lifts
		Platform lifts shall not be attendant-operated and shall provide unassisted entry and exit from the lift
	2030mm	Recommended vertical clearance of lift
		Floor surfaces in platform lifts shall comply with section 3.1.10
	32mm	max. clearance between the platform sill and the edge of any runway landing
		Platform lifts shall have low-energy power-operated doors or gates
	20 sec.	min. time which door should remain open
	815mm	min clear width of end doors and gates
	1065mm	min. clear width of side doors and gates
		EXCEPTION: Platform lifts serving two landings maximum and having doors or gates on opposite sides shall be
2242		permitted to have self-closing manual doors or gates
3.2.4.3		Lifts Lifts may be conventional passenger lifts, vertical lifting platforms or stair lifts
3.2.5		Interior Ramps
5.2.5		Ramps are preferred over platform lifts
	1:12	max. slope of interior ramps (1:15 is preferred)
	9000mm	max. length of ramp between level landing areas
		ramp surfaces should be non-slip
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1	000 4400	
	900 - 1100 mm 300mm	required width between handrails required extension of handrail beyond the head and root of a ramp
	30011111	Provide handrails at both sides of the ramps
		Provide a cane-detectable floor surface (colour or tone contrasted) at 765mm deep at the head and foot of all
	765mm	ramps
3.2.6		Safe Holding Areas
		Safety holding areas included as emergency plan should accommodate a number of persons using mobility aids
		It should be logically located, easy to identify and accessible
		It should have separate lighting and ventilation system A two-way voice communication system linked to the fire control center should be provided
3.2.7		Stairs and Steps
	280mm	min. width of stair treads
	180mm	max. height of stair riser
		Cane-detectable barrier should be provided where the headroom of stairs underside is less than 1980mm
		A highly contrasting and cane-detectable floor surface at least 915 mm deep at the head or foot of each flight of
	300mm	steps or stairs is required
3.2.7.1	30011111	min. projection of handrail and guard beyond the top and bottom riser, and should be in contrasting colour Design of Steps and Stairs
3.2.7.1		Provide a landing at the top and bottom of each flight
		Length, clear space of any door or gate swing should be at least the width of the flight
		Provide sufficient illumination at every flight and landing of a stepped access route
	100 lux.	min. illumination at tread level is required
		Surface material should be easy to maintain, and slip-resistant
3.3 3.3.4		Interior Amenities
3.3.4		Equipment and Furniture
	405 - 460 mm	Furniture, equipments and other objects should be positioned on one side of the normal path of travel required seat heights of loose seating, chairs or benches
		Some seats should have both armrests and backrests, to provide adequate support for stability-challenged persons,
		etc.
	785mm	max. working surface of tabels and desks
	700mm	clear knee space of tables and desks
	760mm	min. width between supports of tables and desks (fig. 3.42)
	510mm	min. height of coffee and telephone tables located at waiting area and lounges
3.3.5		Planters with strong cane detectable bases should be selected Information and Service Counters
0.0.0		InducTive hearing aids to support understandingNoise reduction in fact supports understanding even in a foreign
		language and not only in cases of hearing loss.
		max. height of at least one section of a counters used for information or service purpose, for wheelchair/scooter
	865mm 760mm	users
	250 x 700 mm	min. width of accessible sections of counters knee space depth and height
	1065mm	max. height of at least one speaking port at enquiry counters, ticket sales desk, etc.
3.3.5.1		Counters and Reception Desks Location and Access for Visitors and Customers
		Strategic location of counter or reception desks for easy identification from the building entrance
		Provide a direct and Unobstructed approach to the counter or desk
		Provide sufficient space for wheelchair users where permanent or temporary control barriers are used
3.3.5.2		Space in Front of a Counter or Reception Desk
	1200 x 1800 mm	depth x width of clear maneuvering space in front of a counter or reception desk when there is a min. 500mm deep knee recess
	1200 X 2000	depth x width of clear maneuvering space in front of a counter or reception desk when there is no knee recess
	1400 x 2200 mm	· · · · · · · · · · · · · · · · · · ·
3.3.6		Lockers and Baggage Storage
		required height of bottom shelf from the floor, for every storage or baggage lockers compactment(fig.3.46, 3.47 &
	460 - 1220 mm	3.48)
	915 - 1065 mm	required height of locks for accessible storage lockers
		Locks should be easy to operate by persons with limited manual dexterity required height of numbers or names on locker, in distinct and legible lettering, and either in raised or recessed
	1525mm	lettering
		Highly contrasted lettering colour from the background should be used
	13 - 19 mm	required height of lettering or number size
	1370mm	min. depth of aisle in front of lockers, baggage compartments and carousels
	460mm	max. height of platform surface for baggage racks or carousels
2261	10%	total allocated storage units for persons with disability, in available public storage facilities
3.3.6.1		Access to Storage Facilities Storage facilities should be clearly indicated, and access to them should be direct and unobstructed
		min. distance between opposing banks of storage facilities (e.g., shelving, lockers), if knee spaces are provided
	1200mm	distance between apposing burnes or storage ruenties (e.g., stretung, lockers), it knee spaces are provided
	1400mm	min. distance between opposing banks of storage facilities, if knee spaces are provided(fig. 3.50)
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		Wherever practicable, shelving should be positioned so that it can be reached independently by people with
		disabilities (fig. 3.49) recommended position of storage shelvings, if access is from the front and the use is infrequent by wheelchair
	650 - 1150 mm	users recommended position of shelvings, if access is from the front and the use is frequent by wheelchair users recommended position of shelvings, if access is from the front and the use is frequent by wheelchair users(fig.
	650 - 1000 mm	3.50)
	630 - 1170 mm	recommended position of shelvings, if access is from the side and the use is infrequent by wheelchair users
	665 - 1060 mm	recommended position of shelvings, if access is from the side and the use is frequent by wheelchair users
	400mm	min. height of bookshelves or drawer pulls for use by wheelchair users
		height of shelving for use by people who can stand but have reach difficulties and difficulties bending, where use is frequent
	750 - 1500 mm	
	700 - 1625 mm	height of shelving for use by people who can stand but have reach difficulties and difficulties bending, where use is infrequent
		Adjustable fixtures and fittings should be used as part of storage and shelving systems if facilities are being customized to meet the needs of a particular person with disability
		Projecting door and drawer hardware should contrast visually with its associated storage facilities and have no sharp edges
3.3.6.2		Lockers for Self-contained or Communal Changing Areas
	300 x 600 mm	width x depth of lockers suitable for wheelchair users
	400 x 800 mm	bases of lockers above the floor level
	1200mm	min. height of lockers intended to store crutches, calipers, or artificial limbs
	800 x 600 mm	recommended width x depth of lockers that are intended to store walking frames
	1150mm	suitable height of locks for lockers, and should be easy to use
		Lockers should be securely constructed and located in a dry place, preferably outside the changing area Wheelchair maneuvering space in front of a locker should be in accordance with the recommendations in 3.1.9:
		Waiting Areas
		Room acoustic measures are necessary for the changing areas, especially if a voice alarm system is also installed.
		Otherwise, the required speech intelligibility cannot be achieved.
3.3.10		Public Washrooms
		Where unisex/family washrooms are provided, they should be located close to public Washrooms.
	865mm	required height of baby-changing table from floor level
		Provide autimatic door openers for accessible public and staff washrooms whenever possible
		The preferred side grab bar is the reversed "L" shaped type.
3.3.13		The preferred faucet on basins are of the automatic type(fig. 3.55, 3.57, & 3.58) Washroom Accessories
0.0.20	1200mm	max. mounting height of washroom accessories (fig. 3.62)
		Toilet paper dispenser should be mounted so they are reachable from a seated position and capable of being
		operated with one hand
	1	recommended min. numbers of full-length mirror in public washrooms, change rooms or locker
	405	Faucets on basins may be automatic (preferred) or of the lever handled type(fig. 3.63)
3.3.13.1	485mm	max. distance from the edge of the vanity or basin to the faucet
3.3.13.1	1	Unisex (single-Use or Family) Toilet and Unisex Bathing Rooms max. number of lavatory in a unisex toilet room
	2	max. number of water closets without urinal (where there is a urinal, only one water closet is required)
3.3.14		Windows and Window Hardware
		In buildings with operable windows, the opening sections should be easy to reach and operate by persons using
		mobility aids
	760mm	max. height of sill from the floor (fig. 3.64)
	1070 1300	required height of the horizontal transoms in windows, so that they do not interrupt the eye level of seated
	1070 - 1200 mm	persons Doop windowsills located in residential and institutional units that provide an extra surface for plants and
		Deep windowsills located in residential and institutional units that provide an extra surface for plants and photographs should be reachable by persons using mobility aids
	1065mm	max. mounting height of window opening hardware, where possible
	-	Where required, window hardware should be of the lever handle type (i.e., not a rotary action)
		max. mounting height of Window blinds, drapes or louvers, and should have operators, controls, and pull cords etc
	1200mm	<u> </u>
3.4		Interior Systems and Controls
3.4.1		Acoustics Design
		Floor finishes, wall surfaces and ceilings should be selected so that occasional noise is not unduly amplified (the
		different reaction caused by the sound from hard floor surfaces has an effect on visually impaired persons and persons with auditory disabilities)
		Design changes may be desirable to ensure that impact sounds from secondary corridors are different in quality
		from sounds in major routes (e.g., through changes in floor finishes).
		Ceiling shapes should be designed so that echoes do not occur. Note: Domed shaped ceilings tend to distort sound
		Public address and call systems should be capable of being zoned to key areas, not everywhere
3.4.2		Public address and call systems should be capable of being zoned to key areas, not everywhere Use the appropriate acoustic absorbency for each surface (BS 8233) Audible and Visual Information

		Provide loud and distinct essential audible signals such as fire-alarm signals or elevator arrival call system(fig. 3.65)
		Fire alarm signals should alert senior citizens and persons with sensory disabilities of problems and when to
3.4.3		evacuate the building Automatic Door Openers
3.4.3	1000 - 1100 mm	Provide automatic door openers or assisted door openers on both the exterior entrance and the related vestibule door at the main entrance and other accessible entrances to a public buildings and institutions Power assistend openers may be used for interior doors that provide access to essential services, programs, work or support areas height of door controls from floor Where automatic detection systems are used, ensure sufficient wait time for persons with mobility aid to clear the opening safely, before the door closes Where automatic exterior doors swing open toward oncoming pedestrians or are located in busy interior areas,
		lateral guards should be provided
	305mm	min. extension of guards beyond the door swing on both sides of the opening
3.4.5		Communication Systems
		General (non-emergency) communication systems should be accessible to, useable and understoodand be found or lacatable by persons with various sensory limitations All essential two-way communication systems that use voice input or output should also include a digital text display for persons with auditory or speech impairments. All essential two-way communication systems, utilizing voice input or output, should also include a digital display for persons with auditory or voice limitations. min. number of communication system units in each array with volume enhancement for persons with hearing
	1	limitations Consider the use of TTY telephone at major information counters (i.e., text telephone with a digital display)(fig.
		3.68) Consider the use of an alternate or supplementary system, with an audio output, for people with visual limitations
		Audio output, and other forms of essential informations (large prints and Braille text) should be considered where visual public communication systems or displays are utilized In networked systems, consideration should be given to special input and output requirements for persons with sensory limitations Where both visual and tactile characters are required, either one sign with both visual and tactile characters, or two separate signs shall be provided
	0.8mm	min. depth of raised characters above their background (uppercase sans serif style, not in italic, oblique, script, highly decorative, or of other unusual forms)
	55% W. & 110% H.	character Proportion: min. width of the uppercase letter "O", and the max. height of the uppercase letter "I" character height measured vertically from the baseline of the character, based on the height of the uppercase
	16 - 51mm	letter "I" (fig. 3.69) exception: min. raised character height, where separate raised and visual characters with the same information are
	13mm	provided.
3.4.5.1		Height of Raised Characters
	450/	stroke thickness: Stroke thickness of the uppercase letter "I" shall be 15 percent maximum of the height of the
	15%	character Character Specimen
		Character Spacing: line spacing: raised character height between the baselines of separate lines of raised characters within a message
	135 - 170%	inte spacing. Laised character fieight between the baselines of separate lines of faised characters within a message
		Braille: Braille shall be contracting in colour and texture (Grade 2) Dimensions and Capitalization: Domed or rounded shape braile dots (table 3.5 - is missing) The indication of an uppercase letter or letters shall only be used before the first word of sentences, proper nouns and names, individual letters of the alphabet, initials, and acronyms.
3.4.5.2		Symbols of Accessibility Finish and Contrast: Non-glare
		It shall contrast with their background with either a light symbol on a dark background or a dark symbol on a light background.
3.4.6		Controls and Operating Mechanisms
	800 - 1100 mm 600mm 400mm 610 - 1200 mm	Safe, easy and independent design and installation of operating controls and devices Easy to understand switches and control Sufficient lighting of the control devices The use of photoluminiscent pictogram signs shall be provided where appropriate. height of devices, controls, etc, above floor level min. location of devices and controls from any internal corner (700mm preferable) min. height of Electrical wall socket outlets, telephone points and TV sockets above the floor level height of all controls, operating components or dispensing slots above the floor level, for easy access by persons using mobility aids Controls and operating mechanisms should be easily identifiable by using highly contrasting background colour
ļ		Clearly visible instruction information detailing the use of key controls or operating mechanisms

13mm	min. diameter of lever type controls or raised push bbuttons
1200mm	max. height of all light switches, thermostats and fire alarm pull stations etc.
460 - 1065 mm	required height of all duplex receptacles from the floor
	Fire/Emergency Systems and Signals Fire alarm signals should include both audible and visible components to alert persons with sensory limitations.
	Distinctive sound audible signals, with sufficient power to be heard above the ambient noise in the environment
	It is usefull to practice siren alarm once a year
	Audible signals for two-stage evacuation should have distinct noises/sounds in each stage (e.g. be distinguishable
	from each other). (fig.3.74)
	Announcements regarding fire-exiting procedures should be loud enough above ambient noise levels and be preceded by a distinctive sound
	Visible flashing signals should be utilized
	Signals should be placed high and be clearly visible, taking into account illuminance, colour contrast and luminance contrasts.
	Provide increased warning signage in facilities serving persons who are blind or who have visual limitations
	Portable vibratory alarms should be considered to supplement auditory signals, for persons (including staff) with hearing limitations who are permanent occupants of the institution
	Information Systems and Directories
	Information systems should to be comprehensible to a wide variety of users, including persons with sensory disabilities
	Where essential auditory information is available, it should be complemented by suitable printed material
	Essential print information should generally be printed in large type and with high luminance contrast
	Print information should also be available in alternate formats, including Braille or audiotape Information typically available on visual display screens should also be available in other formats, including
	audiotape or large print.
	On display monitors, consideration should be given to include an enlarging function for persons with low vision
1200mm	mounting height of information system for direct public access
	Information systems should be easy to operate and require little physical effort
	Push-buttons (or other controls) accessing public information systems should be clearly identifiable by colour
70%	and/or tone from the background colour min. required contrast level between push buttons and their background
7070	Push-buttons or other controls should include raised numbers, numerals or symbols (section 3.4.6)
200lux	recommended lighting levels at keyboards or other controls, and should be evenly distributed
	Visual display screens, in public information or display systems, should be mounted to ensure there is no direct
	glare and no reflections from other light sources
	Artificial Lighting Artificial lighting should be comfortable, evenly distributed at all working surfaces, on the floors of all circulation
	routes and in all areas of potential hazard
	Light sources and fixtures should be selected to minimize direct or indirect glare from nearby reflective surfaces
	and easy navigation of visually-impaired persons
	The quality of light is close to a full spectrum as possible to aid in edge and colour definition by persons who have
	visual disabilities. offset of light colour temperature, where fluorescent or quartz light source with a high blue content are used, to
2700 - 3000 Kelvin	ensure the warm end of the spectrum provides appropriate colour definition
	Avoid light fixtures with multiple points of high intensity light, as they increase glare
	Even distribution of light at floor level
	The leading edges of stairs, steps, ramps or escalators should be evenly lit to minimize tripping hazards
	Lighting levels in elevator lobbies should be similar to the lighting levels in elevator cabs in order to minimize tripping hazards
100 lux	min. lighting levels in elevator lobbies, at the threshold of the elevator required emergency lighting over interior stairs and ramps, in exits, or other paths of travel at the walking surface
100 lux	required emergency lighting over interior stalls allocatings, in exits, or other paths of traverat the walking surface
50 lux	required emergency lighting at exterior locations at the walking surface
	min. lighting over directional or informational signage at public telephones, informational/service counters,
200 lux	automatic teller machines, or other keypad operations at the working or information surface
	Lighting over lecterns, podiums, platforms or other speaker locations should be enhanceable, even when other lighting is dimmed, to permit lin-reading and a view of any of the hand actions (i.e., from 'signers') used to
	lighting is dimmed, to permit lip-reading and a view of any of the hand actions (i.e., from 'signers') used to communicate with persons who are deaf.
	Avoid glare and strong shadows
	Natural Lighting Wherever possible, natural light should be utilized to assist in lighting entrances, corridors and major workspaces
	. , ,
	Minimiza direct glara (e.g. reflected from floor or work curfaces)
	Minimize direct glare (e.g., reflected from floor or work surfaces) Listening Devices
	Minimize direct glare (e.g., reflected from floor or work surfaces) Listening Devices An FM loop, or other assistive listening systems are recommended to be considered for all meeting rooms or
	1200mm 460 - 1065 mm 1200mm 1200mm 70% 200lux 2700 - 3000 Kelvin 100 lux 100 lux 50 lux

For more details: It is recommended that an FM loop InducTive Hearing System (AFILS = audio frequency induction loop system) according to ISO 60118-4 or other assistive listening systems (e.g. FM= radio) be considered for all meeting rooms or assembly and entertainment areas serving more than 35 people. Where infrared assistive listening devices are used, ensure that no overhead lights cancel out the infrared signal at the receiver Daylight is more critical because there are significantly more infrared (heat) components. Shading by people sitting in front of it is also a problem, which is why a high mounting of the spotlights is necessary. In meeting areas, dimmer switches (or other transformer coils) should be carefully located so as not to cause electro-magnetic interference with any audio induction loops Neck loops compatible with personal hearing aids, where an FM loop system, or other assistive listening device is provided in public buildings or meeting areas (fig. 3.75) Where an induction loop system is utilized, only half the seating area will need to be encompassed Every theatre or studio intended for viewing of motion pictures shall accommodate described video and the installation of captioning in conformance with the Ghana Building Code. Larger meeting rooms should be designed and furnished to allow a clear view of the speaker(s) at all times 3.4.13.1 Assistive Listening Systems Provide an assistive listening system in each assembly area where audible communication is integral to the use of Receivers shall be provided for assistive listening systems in each assembly area in accordance with Table 3.6 Other insight: Permanently installed hearing aid systems are only required if a public address system is also available (theatre, lecture hall, cinema, church where the participants are only listenina). Without a sound system, there is no microphone and therefore no signal in the hearing aid system. And in general: In communication rooms, room acoustics are a priority. It also supports people with good hearing who have "difficulties understanding", e.g. foreign speakers). If the reverberation time is optimally short, even wearers of hearing systems usually manage well. 3.4.14 **Public Address Systems** Public address system should be easy to hear above ambient background noise, without distortion or feedback The speakers should be mounted above head-level and provide effective sound coverage in required areas such as It should preferably be zoned so that information can be directed to key locations only, to minimize background noise in other spaces All-point call systems should only be utilized for fire and emergency information (i.e., not for paging staff) Personal alarm, staff or other call systems (e.g., nurse call), should be selected with care and according to the requirements of the particular setting or user Call systems should always be used with discretion Paging systems for use by staff or other key personnel should be selected to be discreet and low in volume 3.4.16 Signage and Way-finding Signages and way-finding strategies must be logical and consistent in design and distribution throughout the building The letters, numbers, and pictograms used must be legible and easy to comprehend(fig 3.77, 3.78, 3.79, 3.81, & required mounting height of all directional signage and locational signage (at eye level) for quick and easy 1370 - 1525 mm identification by persons with visual limitations. (fig 3.80) 305mm constant reference location from the door frame, where room numbers or names should be mounted 25mm min. height of lettering for room numbers or names, in sans serif type print and raised lettering 70% min. percentage of contrast between print and the background colour Braille information should be located immediately below all room numbers and names, as well as below any major directional signs. (fig. 3.85) In larger public facilities, a tactile map of the facility showing the distribution and location of key areas/spaces, other directional information, instructional information, or maps showing exiting details for emergency situations should be provided in the main entrance lobby, or on each floor and should be located close to the major point of arrival to the floor (e.g., elevator lobby) Lettering or signs providing general directions should be in large size print that is legible from normal viewing distance(s) (fig. 3.84) 3.5 Special Facilities and Areas 3.5.3 Cafeterias, Restaurants, Dining Areas and Bars 1065mm min. width of major aisle 810mm min. width of the narrowest aisle (fig.3.90) 915 x 760 mm min. height x width of at least one section of the counter, where counter service is provided(fig 3.91) 915mm max. mounting height of displays from the floor, where cafeteria or buffet style food services are provided 1220mm max height of overhead display shelves (e.g., for desserts and salads etc.) 1065mm max. mounting height of cutlery, condiments, and napkin containers from the floor Provided tray rails should be as continuous as possible to allow persons using wheelchairs or scooters to slide a tray 915mm min. width of accessible aisle at the casheir locations, with clear resting surfaces for trays etc. 915mm max mounting height of surfaces from the floor (fig. 3.92) 915mm min. width of at least one access location, where barriers and turnstiles are provided to control access

3.5.8		Displays, Exhibition Area, Galleries, and Museums
	1065mm	min. width of the aisle between exhibits or study area
	915mm	max. mounting height of exhibits, where they are displayed in horizontal or inclined cases
	700mm	clear knee space below displays, to allow a direct approach by a person using a mobility aid
		For persons with visual limitations, tactile exhibits should be available (e.g., sculptural pieces), with nearby
		information printed in large print text, Braille, or provided on an audiotape.
		Where audio information is provided, some consideration of increased volume on personal audio devices and
		compatibility with hearing aids is desirable.
		Basically, any audio output has a volume control. therefore, connecting neck ring loops instead of headphones is
		preferable.
		Lighting in exhibit and display areas should be capable of being enhanced in key locations for specific exhibit
2.5.0		Lighting at display cases should be designed to minimize reflected glare
3.5.9		Gymnasia The main floor or everying areas of gymnasiums should be fully accessible to persons using mobility aids including
		The main floor or exercise areas of gymnasiums should be fully accessible to persons using mobility aids, including all related changing areas, showers, washrooms, and lockers (section 3.3.10 & 3.3.6)
		Seating areas provided as bleachers or galleries overlooking the gymnasium floor should be accessible to persons
		using mobility aids
		No obstacles in the gymnasium area that might constitute a hazard to visually impaired persons
		sufficient clear floor space
3.5.10		Hospitals, Clinics and Health Care Facilities
		Fully accessible health services to people with varying disabilities
		min. width of the internal aisle of the clinic, diagnostic, treatment, or support areas, including offices, consultation,
	1100mm	and treatment cubicles
	865mm	min. width of internal doorway
		Provide accessible arrival and entrance areas to persons using mobility aids and to persons with visual limitations (Section 2.1.4)
		(Section 3.1.4) Provide accessible information and service counter, and other support areas (Section 3.3.5)
		Provide accessible mormation and service counter, and other support areas (section 3.3.3) Provide accessible washrooms, storages and waiting areas (section 3.1.9 & 3.3.10)
		Provide appropriate heating, ventilation and communications systems
		Provide appropriate communication systems, such as nurse calls, telephones or public address systems (section
		3.4.14)
3.5.11		Libraries
		Book return and checking area counters should be designed to be accessible to persons using mobility aids
	915mm	min. width of aisles for book stack areas (preferable width of 1065mm)(fig. 3.93)
	200 lux	required lighting levels at book stack (at approx. 915mm height), mounted directly over the aisle space
	700mm	clear knee space below study table
	1220mm	max. height of shelving over study carrels, tables or study counters
		Acoustic quality in library, reading and study areas should limit extraneous background noise (section 3.4.1) Provide a separate space for CD's, taped information and talking books etc, to avoid disturbance of other library
		users
		Where reading carrels are provided in libraries, at least one should be large enough to accommodate a wheelchair
		user and accessible from underneath
3.5.13		Meeting Rooms, Assembly Areas, and Theatres
		Aisles and passageways (section 3.2.1) and grandstands and viewing areas (section 2.3.8)
		Accessible seating should be distributed and integrated throughout seating areas of assembly rooms with different
		vantage points
		All entertainment and assembly areas should be able to accommodate persons using various mobility aids. (fig.
		3.94)
		All meeting and assembly areas should be able to accommodate persons who have visual limitations Good sight lines and sufficient lighting is required to interpret sign language adequately within a group setting.
		3000 signt inies and surnicent lighting is required to interpret sign language adequately within a group setting.
		Provide an assistive listening system as described in 3.4.13.1
3.5.14		Recreation Facilities
		All areas and amenities should be accessible to persons using mobility aids.
		Exterior routes (section 2.1) and entrances (section 3.1)
		Visual limitations: Interior routes (section 3.2), signagenand way finding (section 3.4.16), and materials and finishes
		(section 3.6.6)
		Hearing limitations: Acoustics (section 3.4.1), communication systems (section 3.4.5), and meeting rooms,
2 - 10 - 2		assembly areas and theatres (section 3.5.13)
3.5.18.5.3	200mm	Other Kitchen and Laundry Appliances
	200111111	approx. height of plinth for fitting refrigerator and/or freezer (excluding chest freezer) for wheelchair users required height of plinth upon which a front-loading washing machine and front-loading tumble dryer intended for
	200mm	required neight of plinth upon which a front-loading washing machine and front-loading tumble dryer intended for wheelchair users is installed
	200mm	approx. height of plinth upon which a dishwasher intended for wheelchair users is installed
	1200mm	max. height of a free-standing water heater controller from the floor
	1150mm	max. height of water heater controller, when mounted on a work surface
		Adjustable folding wall-mounted ironing board, in conjunction with an adjacent socket outlet
		max. height of switched socket outlet center line from the floor, where a clear space has been provided beneath a
	1050mm	work surface of 900mm

	1 F O m m	max. height of switched socket outlet on a return wall above the work surface, where no space has been provided
	150mm	beneath a work surface and not more than 150 mm back from the front edge of the work surface.
		Isolating switches controlling socket outlets should be positioned on a fascia(fig. 3.101)
	750 - 1200 mm	required height of the center line of switches and controls in kitchens from floor, where mounted on a wall withou an intervening work surface or counter
	750 - 1200 111111	Work surface light switches should be located on a wall remote from the light fittings for easy access
	1200mm	max. height of controls for general kitchen appliances other than ovens
	43°C	max. surface temperature of heat emitters, or screened to prevent burns
		The signal emitted by a fire alarm should be both visible and audible
		Accessible kitchen and dining area for every persons
		required height of tables in the kitchen provided for two people to eat together informally, with 700mm vertical
	760mm	knee space beneath the table
		Provide a serving hatch at the rear of a wheelchair work surface, and level with the work surface, to link directly
		with any separate dining area
		Cupboard units and work surfaces should contrast visually with background finishes
		Flooring should be slip-resistant and contrast visually with wall surfaces
		Shiny floor and wall surfaces should be avoided as they can produce reflections and glare
		Bold patterns should not be used on floors and walls, as they are confusing for partially sighted people
	200 - 300 lux	illuminance of the kitchen at work surface level
3.5.20.6.1		Clear Widths of Door Openings (Section 3.2.3 has addressed this part)
3.5.20.9		Switches, Sockets and Controls
3.5.22.5.3		Hearing Enhancement System (Section 3.5.18.5.3 has addressed this topic)
		Systems for hearing enhancement should be installed in entertainment buildings
		Wherever possible, electric cables carrying current in which the waveform has been modified (dimmed) should be
		routed to avoid, as far as is practicable, any interference to hearing aids
		Equipment, such as computers or slide projectors, that uses fans, should be carefully sited to reduce background
		noise
		Fluorescent fittings should be selected to ensure that they do not cause interference to hearing aids
		An acoustic booth for the provision of audio description should be provided with full view of the stage or screen in
2.6		the hall
3.6 3.6.1		Other Interior Features
3.0.1		Colour, Pattern and Texture
	70%	min. contrast for way-finding strategies (e.g., signage system), except the use of bright yellow, which is acceptable at 40% contrast
	7070	Choose appropriate floor, wall and ceiling materials that contrast visually with adjacent surfaces
3.6.2		Floor and Wall Surfaces/Textures
5.0.2		·
		Non-slip and low-glare interior and exterior floor/paving surface Mark all level changes (Stairs, steps, escalators, and ramps) by both distinct colours and textural changes at the
		Mark all level changes (Stairs, steps, escalators, and ramps) by both distinct colours and textural changes at the
	915mm	Mark all level changes (Stairs, steps, escalators, and ramps) by both distinct colours and textural changes at the walking surface
	915mm	Mark all level changes (Stairs, steps, escalators, and ramps) by both distinct colours and textural changes at the walking surface min. distance where changes in texture should occur before the actual level change
3.6.2.1	915mm	Mark all level changes (Stairs, steps, escalators, and ramps) by both distinct colours and textural changes at the walking surface
3.6.2.1	915mm	Mark all level changes (Stairs, steps, escalators, and ramps) by both distinct colours and textural changes at the walking surface min. distance where changes in texture should occur before the actual level change Modern textures can also be used on wall surfaces as part of the overall way-finding strategy
3.6.2.1	915mm	Mark all level changes (Stairs, steps, escalators, and ramps) by both distinct colours and textural changes at the walking surface min. distance where changes in texture should occur before the actual level change Modern textures can also be used on wall surfaces as part of the overall way-finding strategy Floor Surfaces
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3.6.2.2	915mm	Mark all level changes (Stairs, steps, escalators, and ramps) by both distinct colours and textural changes at the walking surface min. distance where changes in texture should occur before the actual level change Modern textures can also be used on wall surfaces as part of the overall way-finding strategy Floor Surfaces Avoid using shiny finishes due to glare and the perception of being slippery Do not use large, repeating patterns that incorporate bold contrasting colours or simulate steps for any floor surface Slip-resistant floor surface is the best choice
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3.6.2.2	915mm	Mark all level changes (Stairs, steps, escalators, and ramps) by both distinct colours and textural changes at the walking surface min. distance where changes in texture should occur before the actual level change Modern textures can also be used on wall surfaces as part of the overall way-finding strategy Floor Surfaces Avoid using shiny finishes due to glare and the perception of being slippery Do not use large, repeating patterns that incorporate bold contrasting colours or simulate steps for any floor surface Slip-resistant floor surface is the best choice Slip Potential Characteristics of Treads, Ramp Surfaces and Floor Finishes Floor surfaces should have appropriate coefficient of friction for foot and wheel
3.6.2.2 3.6.2.3	915mm	Mark all level changes (Stairs, steps, escalators, and ramps) by both distinct colours and textural changes at the walking surface min. distance where changes in texture should occur before the actual level change Modern textures can also be used on wall surfaces as part of the overall way-finding strategy Floor Surfaces Avoid using shiny finishes due to glare and the perception of being slippery Do not use large, repeating patterns that incorporate bold contrasting colours or simulate steps for any floor surface Slip-resistant floor surface is the best choice Slip Potential Characteristics of Treads, Ramp Surfaces and Floor Finishes Floor surfaces should have appropriate coefficient of friction for foot and wheel Ramps and Sloping Surfaces
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3.6.2.2 3.6.2.3		Mark all level changes (Stairs, steps, escalators, and ramps) by both distinct colours and textural changes at the walking surface min. distance where changes in texture should occur before the actual level change Modern textures can also be used on wall surfaces as part of the overall way-finding strategy Floor Surfaces Avoid using shiny finishes due to glare and the perception of being slippery Do not use large, repeating patterns that incorporate bold contrasting colours or simulate steps for any floor surface Slip-resistant floor surface is the best choice Slip Potential Characteristics of Treads, Ramp Surfaces and Floor Finishes Floor surfaces should have appropriate coefficient of friction for foot and wheel Ramps and Sloping Surfaces A sloping surface requires a higher coefficient of friction than an equivalent level surface to maintain the same degree of traction Colour and Tone Use a bright colour or highly contrasting tones for signage
3.6.2.2 3.6.2.3	915mm 70%	Mark all level changes (Stairs, steps, escalators, and ramps) by both distinct colours and textural changes at the walking surface min. distance where changes in texture should occur before the actual level change Modern textures can also be used on wall surfaces as part of the overall way-finding strategy Floor Surfaces Avoid using shiny finishes due to glare and the perception of being slippery Do not use large, repeating patterns that incorporate bold contrasting colours or simulate steps for any floor surface Slip-resistant floor surface is the best choice Slip Potential Characteristics of Treads, Ramp Surfaces and Floor Finishes Floor surfaces should have appropriate coefficient of friction for foot and wheel Ramps and Sloping Surfaces A sloping surface requires a higher coefficient of friction than an equivalent level surface to maintain the same degree of traction Colour and Tone Use a bright colour or highly contrasting tones for signage min. required contrast (40% contrast is sufficient when using industrial yellow colour)
3.6.2.2 3.6.2.3		Mark all level changes (Stairs, steps, escalators, and ramps) by both distinct colours and textural changes at the walking surface min. distance where changes in texture should occur before the actual level change Modern textures can also be used on wall surfaces as part of the overall way-finding strategy Floor Surfaces Avoid using shiny finishes due to glare and the perception of being slippery Do not use large, repeating patterns that incorporate bold contrasting colours or simulate steps for any floor surface Slip-resistant floor surface is the best choice Slip Potential Characteristics of Treads, Ramp Surfaces and Floor Finishes Floor surfaces should have appropriate coefficient of friction for foot and wheel Ramps and Sloping Surfaces A sloping surface requires a higher coefficient of friction than an equivalent level surface to maintain the same degree of traction Colour and Tone Use a bright colour or highly contrasting tones for signage
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3.6.2.2 3.6.2.3		Mark all level changes (Stairs, steps, escalators, and ramps) by both distinct colours and textural changes at the walking surface min. distance where changes in texture should occur before the actual level change Modern textures can also be used on wall surfaces as part of the overall way-finding strategy Floor Surfaces Avoid using shiny finishes due to glare and the perception of being slippery Do not use large, repeating patterns that incorporate bold contrasting colours or simulate steps for any floor surface Slip-resistant floor surface is the best choice Slip Potential Characteristics of Treads, Ramp Surfaces and Floor Finishes Floor surfaces should have appropriate coefficient of friction for foot and wheel Ramps and Sloping Surfaces A sloping surface requires a higher coefficient of friction than an equivalent level surface to maintain the same degree of traction Colour and Tone Use a bright colour or highly contrasting tones for signage min. required contrast (40% contrast is sufficient when using industrial yellow colour) End walls or return walls in long corridors can also be defined by the use of highly contrasting colours or tones Baseboards in monochromatic environments should be highly contrasting (70% or higher) with wall and floor
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ĺ		Specific strategies to provide early warning of emergency situations for persons with hearing limitations, (e.g., a
		portable vibrating alarm, or a flashing light at their workstation) may also be desirable
2641		Provision of a fire fighter's elevator for wheelchair users, during fire outbreak (section 2.2.4 & 2.2.6)
3.6.4.1		Fire Alarm Systems
		In existing facilities, visible alarms shall not be required except where an existing fire alarm system is upgraded or replaced, or a new fire alarm system is installed Why not?
		Unlike audible alarms, visible alarms must be located within the space they serve so that the signal is visible Fire alarm signal should be distinct from other warning alarm signals
		Where employee work areas have audible alarm coverage, the wiring system shall be designed so that visible alarms can be integrated into the alarm system
3.6.5		Maintenance
		Remove all objects along paths of travel that may cause hazards or limitations for persons with visual and other impairments
		Do not compromise lighting and safety with energy conservation
		Runners or mats on the floor in entrance during the rainy season should be introduced with caution
3.6.6		Materials and Finishes
		Carpet floor finishes in paths of travel should be suitable for persons using mobility aids
		Carpet should be firmly glued down to the sub-floor
		Where hard, monolithic materials are selected for floor finish, they should be non-slip and non-glare (section 3.6.2 & 3.6.9)
	6mm	max. width of joint, where floor tiles, bricks, or pavers are used internally
		Ceramic tile used in washrooms, changing areas or on pool decks should have non-slip and non-glare finishes
		Wall surfaces in corridors, adjacent to stairs, ramps or any part of the normal path of travel should be of non-abrasive finish.
3.6.7		Obstacles
		Ensure that all items of furniture, equipment and displays are stable and will not move or tip over when touched by
		someone requiring support.
		All temporary or permanent waste and recycling containers should be located in constant locations to one side of the path of travel
		All furniture and equipments should be located to one side of the normal path of travel and cane detectable Ensure that all signage, signage supports, or other information strategies do not intrude into normal walking areas.
		(fig. 3.143) Ensure that all permanent or temporary barriers that control people's movement (e.g., queuing lanes) are firmly
		mounted to the floor, and are stable for seniors or other persons who might need them for support.
		Keep all maintenance or repair equipment (e.g., ladders and carts) away from normal paths of travel
		Ensure that all temporary barriers and hoardings, used to protect work sites or maintenance activities, are
		substantial, securely mounted, continue to floor level and are cane detectable.(fig. 3.144)
		Ensure that all loose wires, rugs or any potential tripping hazards at the floor level are removed or made secure
3.6.9		Glare and Light Sources
		Attempt to select materials and finishes that do not constitute glare
		Control natural light where necessary with curtains, blinds, or sunscreens
		Monolithic floor surfaces such as stone, granite, marble or terrazzo should be selected in a matte or honed finish (section 3.6.2)
		Floor finishes such as vinyl, quarry and glazed tile, mosaics or other composition materials should also be in matte or satin finishes
		High gloss finishes should be avoided at all times Light fixtures should be selected so that no direct glare is created (e.g., with diffusers, lenses, or recessed light
		sources) (section 3.4.11 & 3.4.12)
		Where surface mounted fluorescent ceiling lights are used (e.g., in corridors), it should have darkened sides, and should be positioned at right angles to the path of travel
		Supplementary lighting sources can be used to enhance special features at key locations (e.g., with upward and
		downward light components only) High intensity light sources such as quartz, halogen or other pin-point sources (e.g., chandeliers) should be used
		with extreme caution

Notes in italics: Comments by Dipl.-Ing. Carsten Ruhe, German expert on inclusion for hearing impaired