

IPC Accessibility Guide

Key Measurements Reference Table

June 2013



Presentation

The following table refers to the key sections and measurement references from the <u>Technical Specifications</u> chapter of the IPC Accessibility Guide. This table should be referenced in conjunction with the chapter, as it does not provide the same level of detail and includes only the key measurements most often referenced.

Area	Key Item	Measurement	Comments
Pathways and Circulation Areas	Pathways	Width: 1,000mm (minimum) 1,500mm (standard) 1,800mm (best practice) Clear headroom space: 2,100mm	Pathway width measurements are applicable to ramps, queuing areas, aisles, etc.
	Gradient	1:20 (5%) best practice recommended 1:14 (7.14%) maximum grade allowed 1:50 (2%) maximum cross slope	A landing is required after a ramp covering 500mm of height difference
	Rest stop benches	50m intervals	
Ramps	Ramps Slope 1:20 (5%) max. grade best practice 1:14 (7.14%) max. grade for heigh up to 3000mm 1:12 (8.33%) max. grade for heigh up to 300mm 1:50 (2%) maximum cross slope		 1:20 applies as max. grade for ramps serving primary entrances or busy facilities, long or crowded walkways or for covering more than 3000mm height difference 1:14 (7.14%) max. grade is acceptable for secondary or ancillary facilities Ramps should not exceed 60m in length
	Width	1,000mm (minimum)	Measured between handrails
	Landings	Landing every time ramp covers a vertical height difference of 500mm Width: same as ramp width	



		Length: 1,500mm	
	Handrails	850-950mm above ramp surface	Handrails applicable for height
		35-45mm grip surface	difference of more than
		45-60mm from wall surface	300mm and must be on both
		300mm extension beyond start and end of ramp	sides
	Kerb ramps	2,700mm max horizontal length	Slip resistant surfaces
		1:8 max. grade for height up to 75mm	 Detectable warning surface (colour/texture contrasted)
		1:10 max. grade for height up to 150mm	
		1:12 (8.50%) grade for height +150mm	
		1,000mm minimum width	
		1:10 maximum slope of flared sides	
Stairways	Treads and risers	125-180mm height of risers	
		280-350mm depth of treads	
	Nosings	38mm maximum	Non slip, high contrast
	Detectable warnings	Depth: 600mm	
		Width: width of the stairs	
	Handrails	See handrails section above	
Furniture,	Reception Desks / Service Counters	850mm height	Main service area must be
Counters and Service Areas		750mm knee clearance	accessible – avoid segregated
		500mm depth	cut-outs/service areas for wheelchair users
		750mm width (minimum)	wheelenan asers
	Waiting and	1,500mm min width for each line	Rest benches needed where
	Queuing Areas	1:50 (2%) maximum slope allowed	line is longer than 50m
	Condiment Counters	850mm surface height	
		600mm reach requirement (from front edge)	
		300mm (w) x 200mm (d) min clear space for food preparation	



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	Restaurant /	1,500mm min. main pathway width	Mix of chairs should be
	Lounges / Food Court	1,000mm minimum aisle width	provided – 20% with arms
	Seating	Bar seating: must include lowered section 850mm height, 750mm knee clearance, 1,600mm minimum width	
		Bench seating: should provide back support, with mx. 450mm seat height and 750mm backrest height plus minimum kick space of 1/3 seat depth	
Doors and	Door width	850mm minimum	Measured when door is open
Doorways		950mm best practice	90 degrees
		1,000mm required for specific sports' athletes preparation areas	
	Door requirements	150mm min inside handle dimension	 Handles operable by one hand Sliding doors are preferable
		900-1,100mm handle height from floor	 Revolving doors are not considered accessible
		500mm clear space on pull side	
		300mm clear space on push side	
Elevators	Doors	850mm minimum clear width	
		950mm minimum clear width for elevators serving public spaces and sport facilities	
	Car	1,700mm x 1,500mm min clear size	For handrail information see
		2,100mm x 1,500mm best practice for high public use (sport, entertainment)	above (ramps section)
	Controls	250mm from front return panel on side wall	Buttons shall have raised characters for letters and
		850-1,200mm button height range from floor	numbers and Braille (immediately to the left of
		20mm button diameter	buttons)
			• Synthesized voice floor callers for direction and destination



Emergency Provisions	Areas of Rescue Assistance	850mm x 1,300mm min space per anticipated user (no fewer than 2 spaces)	See Emergency Provisions section for further detail on provision and use of these spaces	
	Alarms	Visual fire alarms maximum allowable strobe flash rate: 1-3 Hz 1,200mm maximum operating height of alarms pulls and safety equipment	 Visible in all public gathering areas, washrooms, and in front of elevators Emergency call buttons recommended for washrooms with facilities for wheelchair users 	
	Evacuation Instructions	1,300mm maximum mounted height	Large print (min 14pt font)High contrast (red on white)	
Venue Seating	Accessible Seating	0.50% minimum requirement for any event	Percentages of total gross seating	
		0.75% minimum requirement for Olympic Games	 Companion seating to be provided at an equal ratio, 	
		1% - 1.2% minimum requirement for Paralympic Games	next to (not behind) each space	
		Space requirements:	Additional enhanced amenity	
		800mm x 1,300mm wheelchair user	seats should be provided at end of rows at a min. ratio of	
		500mm x 1,300mm companion/enhanced amenity	1% of gross capacitySee venue seating section for	
		1,000mm minimum circulation space behind	complete requirements	
	Sightlines	Sightlines of accessible seating must provide the same sightline for a person seated in a wheelchair when a person in front stands up, as the person in front has when standing.	Railings and other obstacles should not impair the sightlines of people using accessible seating.	
		For Paralympics, this rule applies for all accredited seating and for spectators' seating up to 1% of venue's gross capacity.		



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		Accessible seating in excess of this percentage may have same sightline as the person in front when also seated.	
Washrooms	Numbers and Ratios	1:15 (one toilet for every 15 persons who need one) minimum ratio for accessible toilets	Every bank of toilets must have one unisex accessible facility adjacent
	Signage	1,350mm mounted from the floor on the wall (on the latch side of the door, not on the door itself)	Standardized symbols used with raised lettering 1mm in height
	Circulation Spaces	 2,200mm x 1,800mm clear space of a unisex accessible washroom 1,500mm x 1,500mm clear space of a gender-specific accessible toilet 850mm min. door width (950mm best practice) 750mm transfer space next to 	 Unisex accessible washroom includes toilet pan, wash basin, grab rail, mirror, soap, paper towel, toilet paper dispensers light operating door closer (20Nm) and self-closing
		toilet lid, with 800mm being best practice	(20Min) and sen-closing
	Fixtures	 450mm toilet pan from side wall 440-460mm toilet seat height 750mm long L-shaped grab bars, mounted: 230mm above toilet seat, 150mm in front of toilet seat 600mm min. height of toilet paper 	 Back support should exist where there is no lid or tank Tank lid securely attached Toilet flush controls electronic or within reach on transfer side (opposite the wall / grab bar)
	Sink Area	900-1,100mm height of accessories, 750mm from the centre of the sink Mirror immediately above the basin at a height of 1,800mm 150mm maximum basin depth 680mm basin height clearance	 Accessories include: soap dispenser, paper towel, etc. Hands-free tap is preferred AC outlet should be located close to toilet for adaptive devices



Showers, Baths and Changing Rooms	Accessible Shower Features	Water control: mounted 750mm from the floor and 750mm from end wall Folding seat: 480mm deep, 850mm long, mounted 440-460mm from floor, 135kg load capacity Hand held shower: 1,500mm hose Grab bars: 750mm (along folding seat wall) x 900mm (along shower wall) set horizontally, 850mm above the floor	 Lever operated faucet with 13N operating force Recessed soap holders or shelves within easy reach Scald guard or thermo controlled valve See diagram in Shower section of Chapter 2
Transportation	Transport load zone Parking Area Requirements Accessible	Aisle: 2,400mm (w) x 7000mm (l) 3,300mm height allowance 2% (best practice is 3%) of spaces should be accessible 2,300mm minimum height clearance (2,500mm best practice) for underground parking Width:	 Must be equipped with at least one kerb ramp Spaces should be located in the most convenient point based on entries and exits, lifts and ramps, accessible toilets and pay stations See Pathways, Circulation
	parking spaces	3,200mm (minimum) 3,600mm (best practice) <u>Signage:</u> 750mm² size of international symbol on ground, 1,500mm height of vertical international symbol sign	Areas, Ramps and doorways for information regarding access provisions
Accommodation Sites	Room	Circulation and change of direction: one space 1,500 mm x 1,500 mm Transfer Spaces: min. 750mm, best 800mm Paths and passageways: at least 1000mm Controls/switches: 850 mm-1,200mm Electrical outlets and data connections: at 450mm Manoeuvring space in front of closets: 1,500mm	 Bed top height: 450–500 mm Bedside tables: min. toe space of 225mm high x 300mm deep Operators of window/ curtains: extend to at least 1,200mm Mounted hanger rod: 1,200mm



One spo diameter Transfer 800mm i Height 1,400mm Toilet se	in at least one of book of controls lowed on the controls lowed on the control of	750mm 750mm Deed sides er than ng stick" m height	 Long stick, to allow mounting and demounting of hungers in cupboards Portable bath amenities Shower chair with back and/or handrails in the bath tube
	sfer space in one side	•	