



ACCESSIBILITY | BUILDING REGULATIONS | FIRE ENGINEERING | MANAGEMENT SERVICES



Project:	2A Gregory Place Harris Park NSW 2150
Document Type:	Access Design Assessment Report
Our Reference:	P222_159-2 (ACCESS) NH

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Revision History—

OUR REFERENCE	REMARKS	ISSUE DATE
P222_159-1 (ACCESS) NH	Report issued in DRAFT for review and comment	16 May 2022
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EXECUTIVE SUMMARY

This Access Design Assessment Report has been prepared by Design Confidence at the request of 2A Gregory Place Pty Ltd and relates to the proposed multi residential development located at 2A Gregory Place Harris Park NSW 2150.

This report accompanies the SSDA application of a concept proposal for an affordable housing and build-to-rent development comprising approximately 483 dwellings within three freestanding four to eight storey buildings.

Based upon our assessment to date we are of the opinion that the subject development is capable of achieving compliance with the accessibility provisions of the BCA, either by complying with the prescriptive requirements or via a performance-based approach.

With respect to the assessment undertaken, the following items shall be reviewed further as the project develops and in subsequent development applications —

ITEM	DESCRIPTION	RESPONSIBILITY
1	Further detail in relation to the proposed levels along the pathway and podium of each building to determine accessibility to and wihtin each building part.	Project Architect / Landscape Architect
2	Distribution of allocated car spaces is to be provided, to ensure the minimum number of accessible car spaces will be met.	Project Architect
3	As design progresses, further details shall be provided to ensure compliance with the requirements of the BCA / AS1428.1-2009 is achieved, such as: • Stairway details; • Signage details; • Door schedule and door hardware; • Glazing schedule and visual indicators to glazing.	Project Architect



1.0 INTRODUCTION

1.1 General

This report has been prepared at the request of 2A Gregory Place Pty Ltd and relates to the proposed multi residential development comprising 3 residential towers over 2 levels of shared basement carparking, located at 2A Gregory Place Harris Park NSW 2150.

The proposed development will comprise (but not limited to) the following key features -

- 3 residential towers, identified as Building A, Building B & Building C;
- 2 levels of shared basement carpark below the residential towers;
- Private accessways providing access to each of the residential towers along the northern and southern elevation.

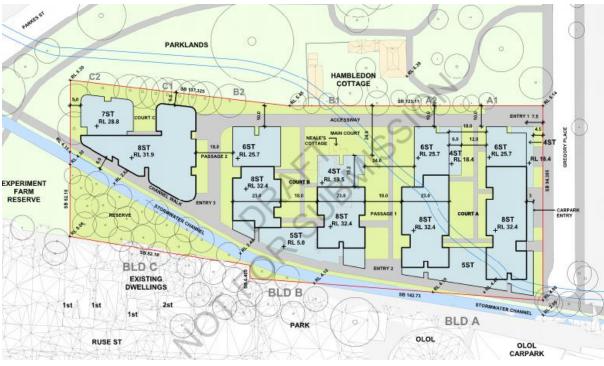


Figure 1 - Concept Site Plan

In the context of this report and the BCA the building use can be described as follows-

CLASSIFICATION		DESCRIPTION	
Class 2	Residential		
Class 7a	Carpark		



1.2 Purpose of Report

The purpose of this report is to identify the extent to which the architectural design documentation complies with the accessibility provisions of the National Construction Code – Building Code of Australia Volume 1, Edition 2019 Amendment 1 (hereinafter referred to as the BCA), as are principally contained within Parts D3, E3.6, F2.4 and F2.9.

This report is based upon, and limited to, the information depicted in the documentation provided for assessment and does not make any assumptions regarding design intention or the like.

1.3 Documentation Provided for Assessment

This assessment is based upon the architectural documentation prepared by Stanisic Architects and listed within **Appendix 1**.

1.4 Limitations

This report is based upon, and limited to, the information depicted in the documentation provided for assessment and does not make any assumptions regarding design intention or the like.

This assessment does not contain comments regarding detailed design issues such as (but not limited to): luminance contrast, slip resistance, handrail design, door schedule and door hardware specification, hearing augmentation systems, location of fittings within sanitary compartments and lift specification.

1.5 Report Exclusions

It is conveyed that this report should not be construed to infer that an assessment for compliance with the following has been undertaken—

- (i) Work Health & Safety Act and Regulations; and
- (ii) Work Cover Authority requirements; and
- (iii) Structural and Services Design Documentation; and
- (iv) The Disability Discrimination Act (DDA) 1992; and
- (v) Any parts of the BCA or any standards other than those directly referenced in this report.

1.6 BCA Assessment – Interpretation Notes

To provide the reader with additional context the following information regarding assessment methodology used in this assessment is provided below—

- (i) The following rooms / areas and associated accessways have been afforded the concession under D3.4 and access for people with disabilities need not be provided to these areas—
 - Plant and equipment rooms;
 - Services room;
 - Loading area;
 - Storage areas.



2.0 BCA ACCESS DESIGN ASSESSMENT SUMMARY

2.1 Interpretation

The following tables summarise the compliance status of the architectural design in terms of each *applicable* prescriptive provision of the BCA and indicates a **capability for compliance** ('COMPLIES') with the accessibility provisions of the BCA.

A detailed analysis and commentary are provided in **Section 3.0** of this report in the instance that prescriptive non-compliance occurs ('DOES NOT COMPLY') or further 'DESIGN DETAIL' is required. Such instances should not necessarily be considered BCA deficiencies, but rather matters which need to be considered by the design team, the certifying authority and all other relevant stakeholders as design progresses.

2.2 Part D3 – Access for People with a Disability

	BCA CLAUSE	COMPLIES	DOES NOT COMPLY	DESIGN DETAIL
D3.1	General building access requirements			√
D3.2	Access to buildings			√
D3.3	Parts of buildings to be accessible			√
D3.5	Accessible carparking			√
D3.6	Signage			√
D3.7	Hearing augmentation		N/A	
D3.8	Tactile indicators			√
D3.9	Wheelchair seating spaces		N/A	
D3.10	Swimming pools		N/A	
D3.11	Ramps		N/A	
D3.12	Glazing on an accessway			~

2.3 Part E3.6 – Passenger Lifts

	BCA CLAUSE CO	MPLIES	DOES NOT COMPLY	DESIGN DETAIL
E3.6	Passenger lifts			√

2.4 Part F2.4 – Accessible Sanitary Facilities

	BCA CLAUSE	COMPLIES	DOES NOT COMPLY	DESIGN DETAIL
F2.4	Accessible unisex sanitary compartments			√
F2.4	Sanitary facilities for people with ambulant disabilities			\checkmark

2.5 Part F2.9 – Accessible Adult Change Facilities

	BCA CLAUSE	COMPLIES	DOES NOT COMPLY	DESIGN DETAIL
F2.9	Accessible adult change facilities		N/A	



3.0 BCA DETAILED ASSESSMENT

3.1 General

With reference to the BCA Access Design Assessment Summary contained in **Section 2.0** above, the following analysis and commentary is provided.

In all instances, reference is also made to **Appendix 2**, which contains design guidance and other items which shall be coordinated by the relevant stakeholders as design progresses to ensure compliance with the deemed-to-satisfy (DtS) accessibility provisions of the BCA is achieved.

Furthermore, the analysis below contains preliminary advice regarding opportunities for the implementation of a performance-based approach in lieu of complying with the prescriptive (DtS) provisions of the BCA.

3.2 Part D3 – Access for People with a Disability

3.2.1 <u>Clause D3.1 – General building access requirements</u>

BUILDING CLASS	
Class 2	Access is required to be provided—
	 (i) From a pedestrian entrance required to be accessible to at least one (1) floor containing sole-occupancy units and to the entrance doorway of each sole-occupancy unit located on that level; and
	 (ii) To and within not less than one (1) of each type of room/space for use in common by the residents; and
	(iii) To the entrance doorway of each sole-occupancy unit located on the levels served by the lift/ramp;
	(iv) To and within rooms/spaces for use in common by the residents located on the levels served by the lift/ramp.
Class 7a	Access is required to and within any levels containing accessible car parking spaces.
All buildings	Access is not required to be provided to the areas afforded the concession under Clause D3.4 and identified in Section 1.6 above.

Refer to **Appendix 2** below for further design guidance.



3.2.2 Clause D3.2 – Access to buildings

The proposed pedestrian entries to the buildings, have been highlighted in the figure below.

It is identified that accessways are provided from the main points of pedestrian entry and between building entries via pedestrian links.



Figure 1 – Pedestrian entries

Refer to **Appendix 2** below for further design guidance.

3.2.3 <u>Clause D3.3 – Parts of the building to be accessible</u>

The following comments are provided in regards the requirements of Clause D3.3 of the BCA-

DESCRIPTION	RESOLUTION
General – Ramps and	Stairways and/or ramps have not been indicated on plan, however where proposed, must comply with –
Stairways	(i) for a ramp, except a fire-isolated ramp, clause 10 of AS 1428.1; and
	(ii) for a stairway, except a fire-isolated stairway, clause 11 of AS 1428.1; and
	(iii) for a fire-isolated stairway, clause 11.1(f) and (g) of AS 1428.1.

Refer to **Appendix 2** below for further design guidance.

3.2.4 Clause D3.4 – Exemptions

Refer to **Section 1.6** above for areas afforded the concession under D3.4.



3.2.5 <u>Clause D3.5 – Accessible carparking</u>

The following comments are provided in regards the requirements of Clause D3.5 of the BCA-

DESCRIPTION	RESOLUTION
Residential parking	Accessible car parking spaces are not required for Class 2 buildings under the BCA, however AS4299-1995 requires accessible parking be provided for adaptable units (being 1 accessible parking space per adaptable unit).

Refer to **Appendix 2** below for further design guidance.

3.2.6 <u>Clause D3.6 – Signage</u>

The following comments are provided in regards the requirements of Clause D3.6 of the BCA-

DESCRIPTION	RESOLUTION
General	Braille and tactile signage complying with Spec. D3.6 and AS1428.1-2009, will be required in accordance with the requirements of this clause to identify –
	(i) Each Sanitary facility (excl. a sanitary facility within a sole occupancy unit)
	(ii) Each exit door required by E4.5 to be provide with an exit sign.
	(iii) Where a pedestrian entrance is not accessible, directional signage incorporating the international symbol of access, in accordance with AS 1428.1 must be provided to direct a person to the location of the nearest accessible pedestrian entrance.
	The level of detail provided is considered adequate for the Development Application stage – as design progresses, signage details are to be documented and provided for review and comment.

Refer to **Appendix 2** below for further design guidance.

3.2.7 <u>Clause D3.7 – Hearing augmentation</u>

Not applicable.



3.2.8 <u>Clause D3.8 – Tactile indicators</u>

The following comments are provided in regards the requirements of Clause D3.8 of the BCA-

DESCRIPTION	RESOLUTION
General	Non-fire isolated stairways and/or ramps have not been indicated on plan, however where proposed, must comply with the requirements of this clause and AS1428.4.1-2009.
	The level of detail provided is considered adequate for the Development Application stage – as design progresses, details are to be documented and provided for review and comment.

Refer to **Appendix 2** below for further design guidance.

3.2.9 <u>Clause D3.9 – Wheelchair seating spaces in Class 9b assembly buildings</u>

Not applicable.

3.2.10 Clause D3.10 – Swimming pools

Not applicable.

3.2.11 <u>Clause D3.11 – Ramps</u>

Not applicable – no ramps or step ramps proposed at this stage.

3.2.12 <u>Clause D3.12 – Glazing on an accessway</u>

The following comments are provided in regards the requirements of Clause D3.12 of the BCA—

DESCRIPTION	COMMENT
General	Visual indicators will be required in accordance with the requirements of this clause where full height glazing is proposed.
	The level of detail provided is considered adequate for the Development Application stage – as design progresses, details are to be documented and provided for review and comment.

Refer to **Appendix 2** below for further design guidance.



3.3 Part E3.6 – Passenger Lifts

The following comments are provided in regards the requirements of Clause E3.6 of the BCA-

DESCRIPTION	COMMENT
General	Every passenger lift proposed must comply BCA Clause E3.6 and AS1735.12- 1999 as applicable to the subject lift type.
	The level of detail provided is considered adequate for the Development Application stage – as design progresses, details are to be documented and provided for review and comment.

Refer to **Appendix 2** below for further design guidance.

3.4 Part F2.4 – Accessible Sanitary Facilities

3.4.1 Accessible unisex sanitary facilities

Sanitary facilities have not been indicated on plan for assessment, however where proposed refer to **Appendix 2** below for further design guidance.

3.4.2 Sanitary compartment for people with ambulant disabilities

Sanitary facilities have not been indicated on plan for assessment, however where proposed refer to **Appendix 2** below for further design guidance.

3.5 Part F2.9 – Accessible Adult Change Facilities

Not applicable.



4.0 CONCLUSION

4.1 General

Our strategy for ensuring compliance will be refined and documented during the design process in conjunction with the continual development of the architectural documentation, as required.

Based upon our assessment to date we are of the opinion that the subject development is capable of achieving compliance with the relevant accessibility provisions of the National Construction Code – Building Code of Australia Volume 1, Edition 2019 Amendment 1, subject to the comments provided in **Section 3.0** and the design detail contained in **Appendix 2**.

Compliance can be achieved either by meeting the deemed-to-satisfy requirements of the BCA, as are principally contained within Parts D3, E3.6, F2.4 and F2.9, or via a performance-based approach.

We trust that the above information is sufficient for the consent authority in assessing the merit of the architectural design from a planning perspective.

Report By

DRAFT

Nicolas Hurtado Senior Associate For Design Confidence (Sydney) Pty Ltd



APPENDIX 1 – Documentation Provided for Assessment

This accessibility assessment was based upon the architectural documentation prepared by Stanisic Architects, namely—

DRAWING	TITLE	REVISION	DATE
CD 0005	SITE PLAN	А	30.09.2021
CD 1001	CONCEPT ENVELOPE PLAN	А	30.09.2021
CD 1002	CONCEPT ENVELOPE NORTH + WEST ELEVATIONS	4	03.09.2021
CD 1003	CONCEPT ENVELOPE SECTION AA + BB	А	30.09.2021
CD 2001	BASEMENT 2 PLAN	А	30.09.2021
CD 2002	BASEMENT 1 PLAN	А	30.09.2021
CD 2003	LEVEL 1 (G) PLAN	А	30.09.2021
CD 2004	LEVELS 2-4 PLAN	А	30.09.2021
CD 2005	LEVEL 5 PLAN	А	30.09.2021
CD 2006	LEVEL 6 PLAN	А	30.09.2021
CD 2007	LEVEL 7 PLAN	А	30.09.2021
CD 2008	LEVEL 8 PLAN	А	30.09.2021
CD 2009	ROOF PLAN	А	30.09.2021



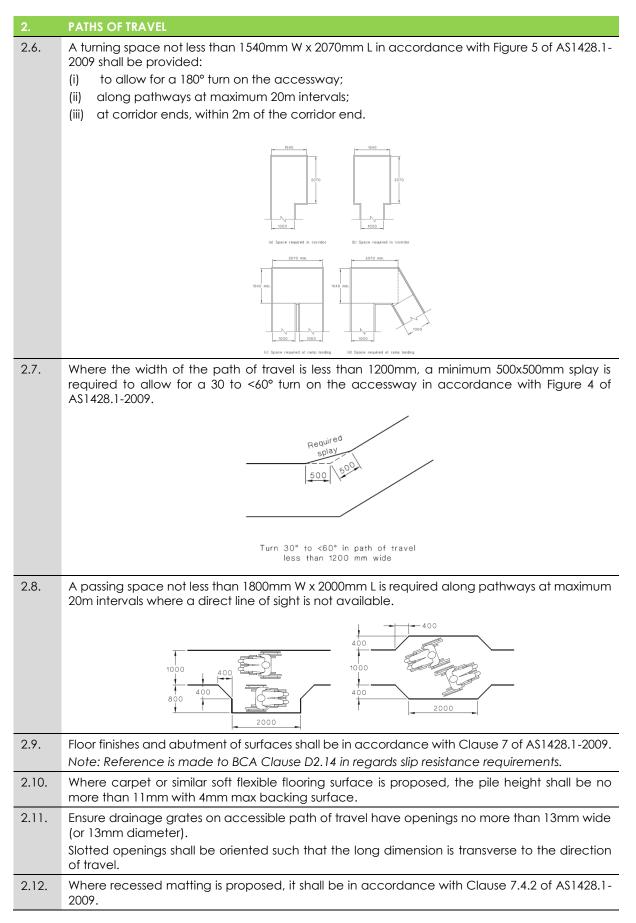
APPENDIX 2 – Design Checklist – Prescriptive Requirements

The following design guidance checklist is provided for implementation and coordination during construction in order to achieve compliance with the prescriptive requirements of the BCA, AS1428.1-2009, AS/NZS1428.4.1:2009, AS1735.12-1999 and AS/NZS2890.6:2009.

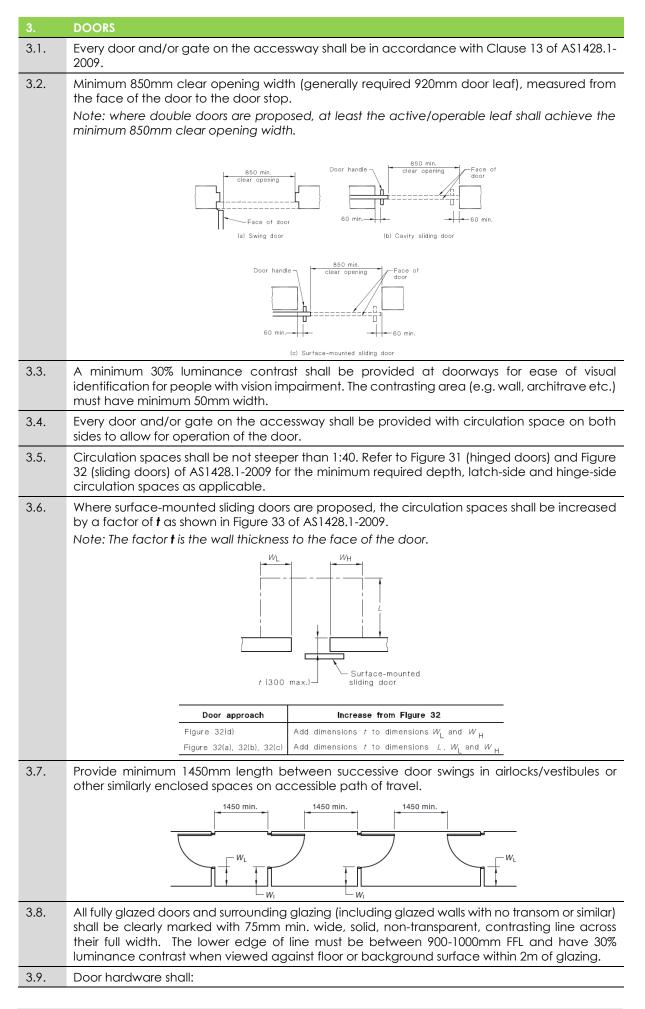
1.	ACCESS TO BUILDINGS
1.1.	Provide an accessible path of travel compliant with A\$1428.1-2009 from all main pedestrian entry points at the site boundary to the principal pedestrian entrance/s of the building.
1.2.	 Where a building is afforded with multiple pedestrian entries, an accessway shall be provided through and through: (i) The principal pedestrian entrance (PPE); and
	(ii) Not less than 50% of pedestrian entrances, including the PPE.
	 Where the building area is greater than 500m²: (i) A non-accessible pedestrian entrance shall not be located more than 50m from an accessible pedestrian entrance.
1.3.	Provide an accessible path of travel compliant with A\$1428.1-2009 from another building connected by a pedestrian link (not being the public footpath) within the allotment.
1.4.	Provide an accessible path of travel compliant with A\$1428.1-2009 from accessible car parking spaces on the site.
1.5.	An accessible path of travel/accessway shall be in accordance with AS1428.1-2009 as applicable. Note: this includes requirements relating to floor finishes, stairway, ramps, doorways etc. Refer to the relevant section below for further detail.

2.	PATHS OF TRAVEL
2.1.	A continuous accessible path of travel shall not include a step, stairway, turnstile, revolving door, escalator, moving walk or the like.
2.2.	Provide 1000mm minimum clear width of path of travel compliant with A\$1428.1-2009. Note: the width of the path of travel shall be taken clear of any obstructions, such as handrails, kerb rails, skirting, fire hose reels, fire extinguishers or the like.
2.3.	The minimum unobstructed height of a continuous path of travel shall be 2000mm or 1980mm at doorways.
2.4.	An accessway shall be provided with turning spaces in accordance with the BCA and A\$1428.1-2009 where required.
2.5.	A turning space not less than 1500 x 1500mm is required to allow for a 60-90° turn on the accessway. A splay across the internal corner is permitted in accordance with Figure 4 of AS1428.1-2009.

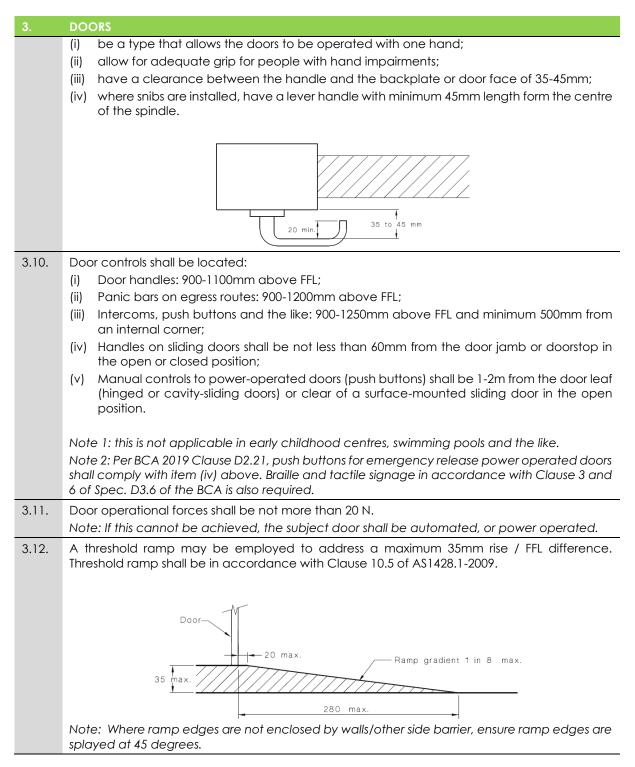






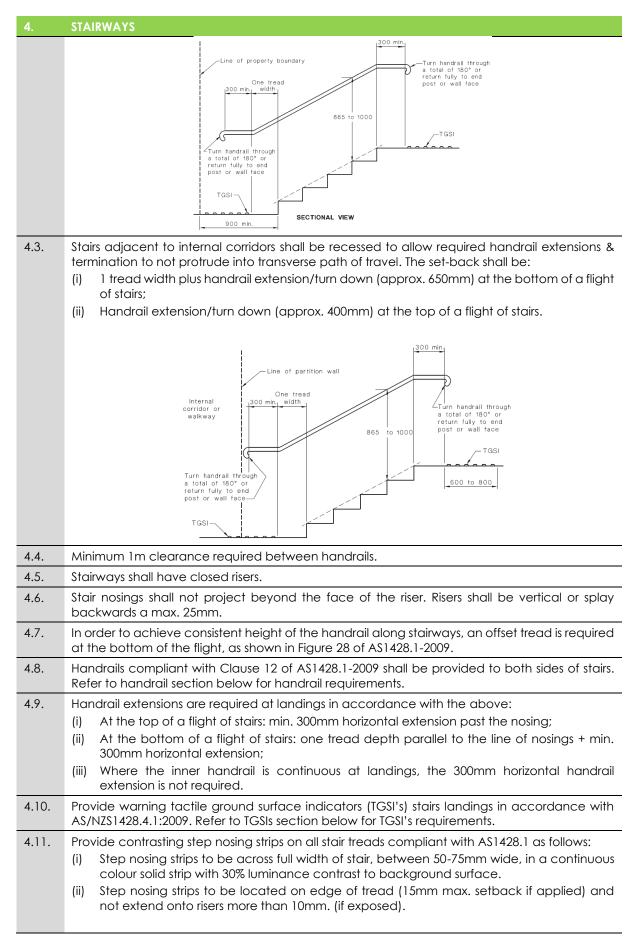




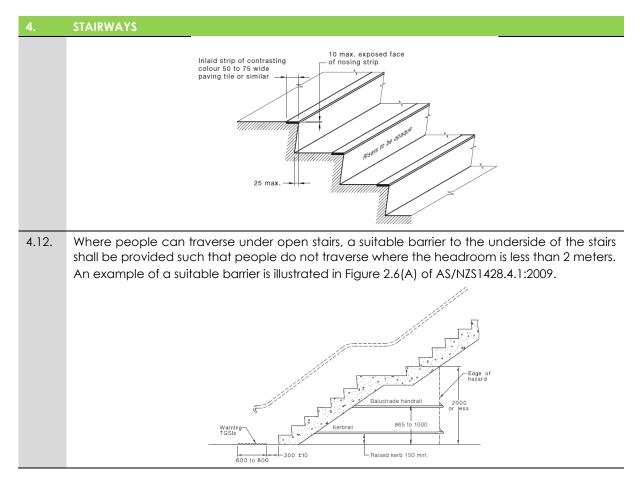


4.	STAIRWAYS
4.1.	The requirements of this section shall apply to all stairways for general circulation and to external (non-fire isolated) egress stairways.
4.2.	Stairs located at site boundary shall be recessed (900mm min. from boundary) to allow required handrail extensions and TGSI's to not protrude into transverse path of travel.









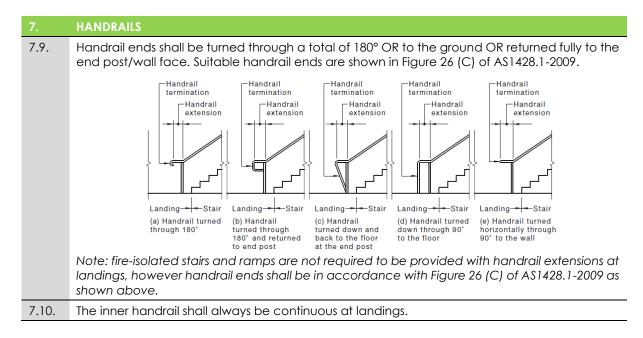
5.	FIRE-ISOLATED STAIRWAYS
5.1.	Provide contrasting step nosing strips on all stair treads compliant with AS1428.1 as follows:
	(i) Step nosing strips to be across full width of stair, between 50-75mm wide, in a continuous colour solid strip with 30% luminance contrast to background surface.
	(ii) Step nosing strips to be located on edge of tread (15mm max. setback if applied) and not extend onto risers more than 10mm. (if exposed).
5.2.	Handrails compliant with Clause 12 of A\$1428.1-2009 shall be provided to at least one side of stairs. Refer to handrail section below for handrail requirements.
5.3.	In order to achieve consistent height of the handrail along stairways, an offset tread is required at the bottom of the flight, as shown in Figure 28 of AS1428.1-2009.
5.4.	Minimum 1m clearance required between handrail and opposite wall. Note: subject to BCA D1.6 relating to minimum requirements for exits.

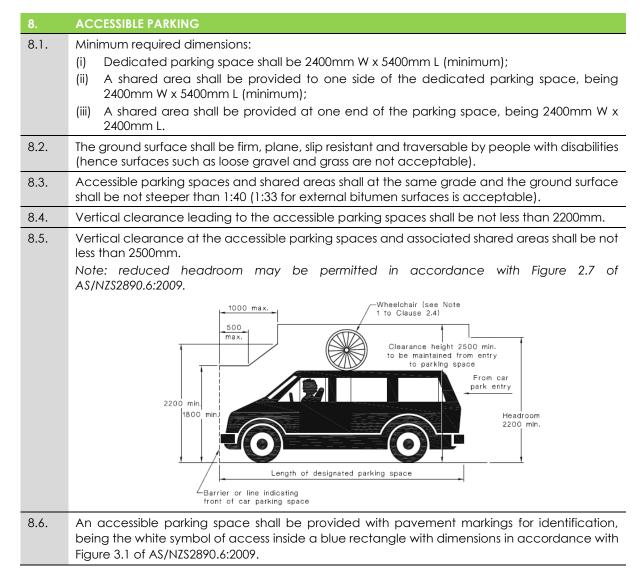
6.	WALKWAYS	
6.1.	1:20 walkways shall have suitable landings at 15m maximum intervals. Note: for gradients other than 1:20, the maximum interval between landings shall be confirmed with Design Confidence.	
6.2.	Walkways shallower than 1:33 are not required to be provided with landings.	
6.3.	 Landings shall be: (i) Minimum 1200mm length where there is no change in direction; (ii) Where there is a change in direction, refer to Section 2 – Paths of Travel above; (iii) Where there is a doorway, the landing shall be capable of accommodating the required doorway circulation spaces. 	
6.4.	 A suitable barrier (edge protection) shall be provided to both sides of the walkway. Suitable barriers include: (i) Floor/ ground surface to extend 600mm min. width at same grade in firm and level of the walkway surface, being of a different material; 	



6.	WALKWAYS
	(ii) Kerb in accordance with Figure 18 of A\$1428.1-2009;
	(iii) Kerb rail + handrail in accordance with Figure 19 of AS1428.1-2009;
	(iv) Low wall min. 450mm height.
	Note: The top of kerbing must not be within 75-150mm range above FFL to minimise risk of wheelchair footplate entrapment.
6.5.	Curved walkways have 1500mm min. clear width. The minimum inside radius shall be in with Figure 20 of A\$1428.1-2009.
7.	HANDRAILS
7.1.	All stairs and ramps shall be provided in accordance with Clause 12 of AS1428.1-2009, including fire-isolated stairways and ramps.
	Note: for stairs/ramps in areas afforded the concession under D3.4, handrails are only required to comply with Clause D2.17 of the BCA.
7.2.	The cross section of handrail shall be circular/elliptical handrails have 30mm - 50mm diameter, with 270-degree clear arc around top of handrail (extending for 600mm min. height) compliant with Figure 29 of AS1428.1-2009.
	Obstruction
	Wal 600 min.
	50 min. <u>930 to 50</u>
	15 min.
	No obstruction near handrall above this height except for
	865 to 1000
	tread or surface level
	· · · · · · · · · · · · · · · · · · ·
7.3.	Handrails shall be installed at a consistent height between 865mm - 1000mm height above step nosing or FFL ramp surface.
	NB. The specified height should allow for construction tolerance as outside of this range will be non-compliant.
7.4.	Where a balustrade for fall protection is required at a height above 1m, both the balustrade and the handrails shall be provided.
7.5.	Handrails shall have no vertical sections.
7.6.	In order to achieve consistent height of the handrail along stairways, an offset tread is required at the bottom of the flight, as shown in Figure 28 of AS1428.1-2009.
	300 min.
	One tread
	width + + + + + + + + + + + + + + + + + + +
	A
	One tread width →
7.7.	Handrails shall be installed no less than 50mm away from an adjacent side wall/ obstruction (finger clearance).
7.8.	Refer to Stairs and Ramps sections for the requirements relating to handrail extensions.
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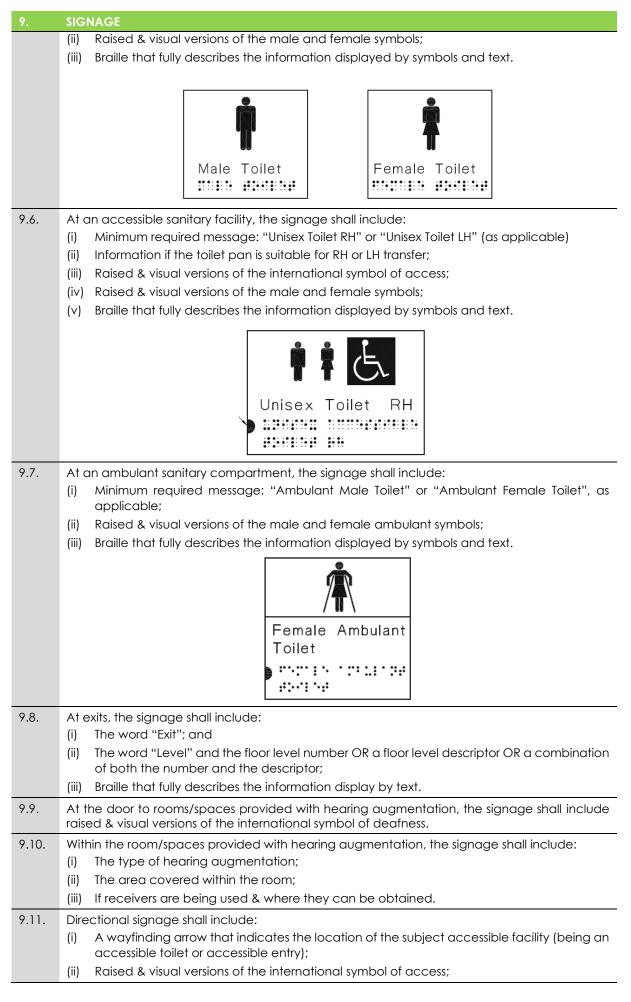




8.	ACCESSIBLE PARKING
	Dedicated space (typical)
	1200 max. 1200 max. 500 to 600 500 to 600 500 to 600
	 (i) Line markings shall be yellow, have a slip resistance surface and shall not be raised; (ii) The parking spaces and shared areas shall be outlined on all sides with an unbroken line 80-100mm wide, except where delineated by a kerb, barrier or wall; (iii) The shared areas shall be marked with diagonal stripes at an angle 45±10° to the side of the space. The diagonal stripes shall be 150-200mm wide and spaced 200-300mm; (iv) No shared area markings shall be placed in trafficked areas (this is generally applicable to the 2400x2400mm shared area).
	Note: the requirement for space identification is not applicable where: a. A total of not more than 5 parking spaces is provided; b. An accessible parking space is privately owned parking space for people with disabilities associated with a single residence and intended primarily for use by the occupants of that residence (i.e. adaptable units).
8.7.	A bollard shall be provided within the shared area located in accordance with Figure 2.3 of AS/NZS2890.6:2009.
8.8.	Residential accessible parking spaces are subject to the requirements of AS4299-1995. Note: a parking space 3800mm W x 5400mm L is generally suitable for adaptable units.

9.	SIGNAGE
9.1.	 Braille and tactile signage will be required to: (i) Identify each sanitary facility, including an accessible sanitary facility and a sanitary compartment suitable for people with ambulant disabilities; (ii) Identify each space provided with hearing augmentation; (iii) Within each space provided with hearing augmentation; (iv) Identify each door required by BCA Clause E4.5 to be provided with an exit sign; (v) Identify a sanitary compartment suitable for people with ambulant disabilities; (vi) At entry doors to airlocks containing either accessible and/or ambulant WCs, identifying each facility provided within.
9.2.	 Braille and tactile directional signage will be required at: (i) A non-accessible pedestrian entrance to direct a person to the nearest accessible entrance; (ii) A sanitary bank which is not provided with an accessible sanitary facility to direct a person to the nearest accessible sanitary facility.
9.3.	Signage required to comply with Clause D3.6 of the BCA shall be in accordance with BCA Spec. D3.6 and Clause 8 of AS1428.1-2009.
9.4.	Per BCA 2019, signage complying with Clause 3 and 6 of Specification D3.6 shall be provided to identify the latch-operation device (manual controls for power-operated doors).
9.5.	At standard sanitary facilities, the signage shall include: (i) Minimum required message: "Male Toilet" or "Female Toilet", as applicable;



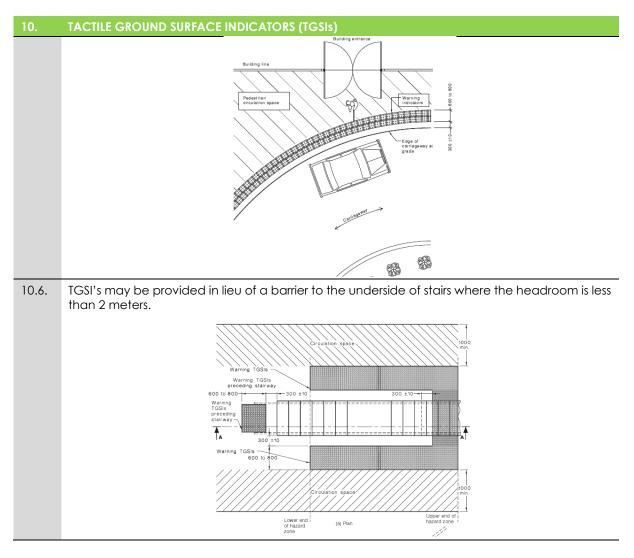




9.	SIGNAGE
	(iii) Raised text that describes the subject accessible facility;
	(iv) If the accessible path of travel to the subject accessible facility is on a different level, include a symbol to denote travel via lift (if applicable).
	Unisex Toilet Level 3
	ACHERA OF ERENE - CAR BANA
	Direction Information
9.12.	Location of signage:
	(i) Braille and tactile components shall be at a height of 1200-1600mm above FFL; and
	 (ii) On the wall on the latch-side of the door, leading edge of the sign 50-300mm from the architrave, except at ambulant sanitary facilities;
	(iii) Where b. is not possible, signage shall be on the door itself; and
	(iv) At ambulant sanitary facilities, the signage shall be placed on the door.
9.13.	Minimum 30% luminance contrast between the wall/door to the backplate of the sign and between the backplate and the symbols, tactile and braille contained in the sign.

10.	TACTILE GROUND SURFACE INDICATORS (TGSIs)
10.1.	 Ensure that TGSI's are slip-resistant and achieve minimum luminance contrast against background surface in accordance with the following: (i) Integrated TGSI's (i.e. tiles) require 30% min. luminance contrast. (ii) Discrete TGSI's (i.e. buttons) require 45% min. luminance contrast. (iii) Composite TGSI's with 2 materials/colours requires 60% min. luminance contrast.
10.2.	Ensure that warning TGSI's extend across the full width of the path of travel and commence 300mm from the edge of stairs, ramps etc. Note 1: tactile indicators are not required where the gradient is not steeper than 1:20 (walkways) or at step ramps and kerb ramps. Note 2: tactile indicators are not required at fire-isolated stairs and ramps. Note 3: tactile indicators are required at external (non-fire-isolated) egress stairs and ramps.
10.3.	Ensure that warning TGSI's have between 600mm - 800mm depth at open areas, or at landings >3m length and/or when handrail is discontinuous.
10.4.	Ensure that warning TGSI's have between 300mm - 400mm depth at enclosed landings (<3m) when external handrail is discontinuous.
10.5.	Where a pedestrian pathway and vehicular way are at the same level (i.e. no kerb provided), warning tactile indicators shall be provided.





11.	PASSENGER LIFTS
11.1.	All passenger lifts are required to be of a type in accordance with BCA Table E3.6a, have accessible features in accordance with BCA Table E3.6b and shall not rely on a constant pressure device for operation if the lift car is fully enclosed.
11.2.	Passenger lifts travelling more than 12m require 1400mm W x 1600mm L min. dimensions.
	Note: a concession is available for existing lifts in existing building, subject to the requirements of the Disability (Access to Premises – Buildings) Standards 2010.
11.3.	Passenger lifts travelling less than 12m (except stair platform lifts) require 1100mm W x 1400mm L min. dimensions.
11.4.	Stairway platform lifts (previous AS1735.7) require 810mm W x 1200mm L min. dimensions, compliant with BCA Part E3.6.
	Note: the use of stairway platform lifts is subject to a case-by-case assessment.
11.5.	Low-rise platform lifts (previous A\$1735.14), require 1100mm W x 1400mm L min. dimensions compliant with BCA Part E3.6 and must not travel more than 1000mm height variation.
11.6.	Low rise, low speed constant pressure lifts, unenclosed type (previous A\$1735.15), require 1100mm W x 1400mm L min. dimensions compliant with BCA Part E3.6 and must not travel more than 2m. They cannot be used high traffic public areas.
11.7.	Low rise, low speed constant pressure lifts, enclosed type (previous A\$1735.15), require 1100mm x 1400mm min. dimensions compliant with BCA Part E3.6 and must not travel more than 4m. They cannot be used high traffic public areas.
11.8.	Any low-rise lifts (previous part A\$1735.14 or 15) that require constant pressure to be applied to the lift control buttons to either call and/or operate the lift (i.e. Press and Hold) are to include signage to explain operations of use.



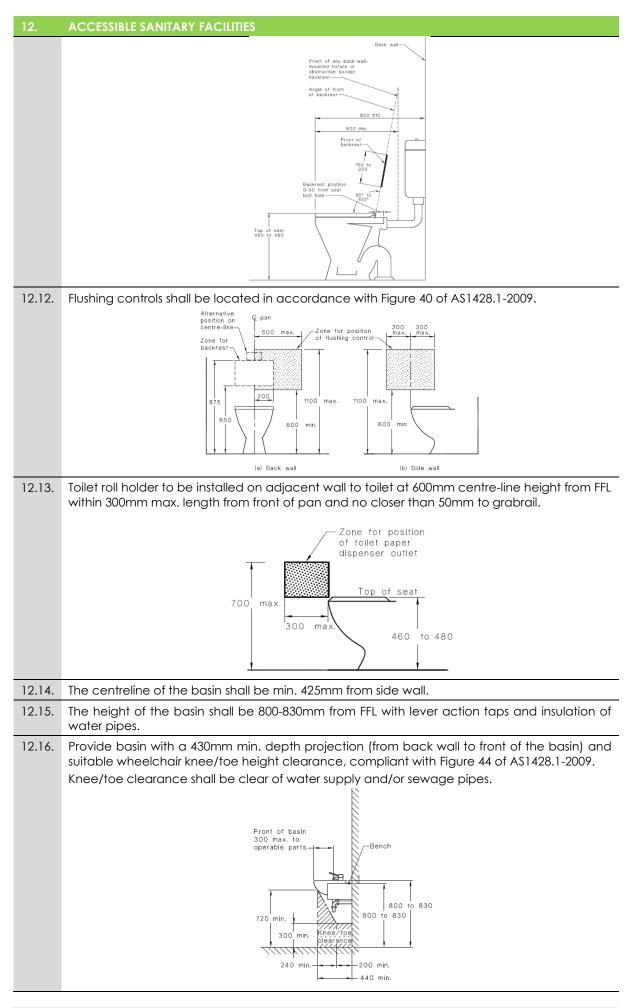
11.	PASSENGER LIFTS
11.9.	Small size low-speed automatic lifts (previous AS1735.16), require 1100mm W x 1400mm L min. dimensions and must not travel more than 12m.
11.10.	Ensure all passenger lifts (except stair platform lifts) have 900mm min. clear door opening, compliant with A\$1735.12.
11.11.	Ensure all Low-rise platform and Low rise, low speed constant pressure lifts with manual door opening (previous A\$1735.14, 15 and 16) have suitable door circulation areas compliant with A\$1428.1.
11.12.	Ensure the centre line of standard lift call buttons in all lift lobbies are located at height of 900- 1200mm and at least 500mm distance from an internal corner to be accessible to people using wheelchairs, compliant with A\$1735.12.
11.13.	Ensure all passenger lifts (except stair platform and low-rise platform lifts) include an internal lift control panel with centre line of control buttons located at a height no less than 700mm and no greater than 1250mm above FFL.
	The components of the floor level buttons shall possess Braille, raised tactile symbols and numbers, visual and auditory indicators, compliant with A\$1735.12.
	Advisory note: horizontal lift control panels are preferred over vertical panels for ease of reach as they generally can be positioned with control buttons within 900-1100mm FFL which is the preferred range for most wheelchair users.
11.14.	Ensure all passenger lifts (except stair platform and low-rise platform lifts) include 2 x lift control panels when the width/length dimension is less than 1400mm.
11.15.	Ensure all passenger lifts (except stair platform and low-rise platform lifts) include an internal handrail installed at a height 850-950mm. The handrail ends shall be no more than 500mm away from any operating device or button.
11.16.	Ensure all passenger lifts (except stair platform lifts) include emergency hands free communication, including a button to alert call centre of a problem and a signal light to confirm that call has been received.
11.17.	Ensure all lifts serving more than 2 levels provides automatic audible information within the lift car to identify each level the lift stops.
11.18.	Ensure all lifts serving more than 2 levels provides appropriate visual and audible arrival signals of the lift car in all lift lobbies.
11.19.	Ensure all lifts serving more than 2 levels provides appropriate audible range and frequency, (between 20-80dbA at maximum frequency of 1500 Hz).
11.20.	The lighting in all enclosed lift cars must be at least 100 lux.
11.21.	All visible information to provide 30% min. luminance contrast to background surface.

12.	ACCESSIBLE SANITARY FACILITIES
12.1.	Provide 1 unisex accessible toilet at each bank of male/female toilets on each storey compliant with BCA Table F2.4a. NB. Where more than 1 toilet bank on each storey provide an accessible facility at 50% of banks.
12.2.	Ensure a balance of left- and right-handed WC pans within the building.
12.3.	Circulation space associated with the toilet pan min. 1900mm W x 2300mm L. The washbasin is permitted to encroach a max. 100mm within the WC circulation space in accordance with Figure 43 of AS1428.1-2009.



12.	ACCESSIBLE SANITARY FACILITIES
	400 max
	Portable sanitary 200 to 250 2300 min. 450
12.4.	The required circulation spaces associated with toilet pan, washbasin, shower and door are allowed to overlap.
12.5.	The washbasin is permitted to encroach into the doorway circulation space, however a min. 300mm is required between the door swing (for a hinged door) and the washbasin. Other fixtures such as toilet pan and shower seat are not allowed within the door circulation.
12.6.	The centreline of the accessible toilet pan shall be 450-460mm from side wall.
12.7.	Toilet projection from the back wall to the front of the toilet seat shall be 800mm ±10mm. Note: This is a critical dimension.
12.8.	The height to top of the toilet seat shall be 460-480mm above FFL.
12.9.	The toilet seat shall achieve 30% luminance contrast against background (e.g. pan, wall or floor surface).
	FFL.
	Note: If concealed cistern used, WC grab-rails are to be continuous across side and rear walls.
12.11.	If exposed cistern used, rear grabrail to commence 50mm max. from cistern edge. Provide angled toilet backrest (350-400mm W x 150-200mm H) installed between 120-150mm height from top of pan seat and 50mm max. distance from seat bolt hole. NB. No toilet lid to be provided as this impedes use of back rest.







12.	ACCESSIBLE SANITARY FACILITIES
12.17.	Washbasin shall have min. 450mm width and circulation space in accordance with Figure 44 of AS1428.1-2009.
12.18.	300mm max. distance from the front of the basin to the operable part of taps. Note: operable parts of taps shall be understood as the tap handle (for its full arc of operation)
	OR the position where a sensor is reliably activated AND the water spout.
12.19.	Provide separate fixed shelf (120mm - 150mm W x 300mm - 400mm L) next to wash basin, installed at 900mm - 1100mm above FFL. Shelf space may also be provided as a vanity top, min. 120mm W x 300mm L.
12.20.	Provision of soap dispenser, hand drier or paper towel dispenser shall be installed at a height of 900-1100mm to the operative component. Note: it is recommended that soap dispenser and hand dryer/paper towel dispenser are within reach from the washbasin (for example, that would allow for a wheelchair user not to need to move away from washbasin to dry hands).
12.21.	Provide mirror above washbasin, with base installed at 900mm max. above FFL and extending to a height not less than 1850mm. The width of the mirror shall be min. 350mm.
12.22.	1 x clothes hanging device to be installed between 1200-1350mm from FFL and at least 500mm from an internal corner.
12.23.	Door shall include an in-use indicator and a bolt/catch that can be opened from outside in an emergency. If snib turn is used, the handle shall be 45mm min from centre.
12.24.	A baby change table (if provided) cannot impede into required circulation spaces (when folded up). The top of table to be installed at 820mm height with 720mm min. under bench clearance above FFL.
12.25.	Light switches to be installed 900-1100mm above FFL and 500mm min. from internal corner.
12.26.	GPO's to be installed 600-1100mm above FFL and 500mm min. from internal corner.
12.27.	Rocker action/toggle type switches at least 30mm x 30mm dimensions are required to assist people with dexterity impairment.
12.28.	Accessible shower shall be hobless/step-free.
12.29.	Minimum dimensions of the shower recess 1100mm (side wall) x 1160mm (back wall).
12.30.	The circulation space associated with the shower shall be in accordance with Figure 47 of A\$1428.1-2009.



12.	ACCESSIBLE SANITARY FACILITIES
	30 to 40 550 to 600 50 to 60 930 to 400 30 to 40 max. 40 max. 40 max. 50 to 60 50 to 60 50 to 60 50 to 60 1000 min. 40 max. 400 ±10 50 to 60 1000 min. 40 max. 400 ±10 50 to 60 1000 min. 1000 min. 400 ±10 2350 min. Coat hooks 100 ±10 1000 min. 100 ±10 1000 min. 400 ±10 1000 min. 230 to 40 1000 min. 400 ±10 1000
12.31.	All accessible showers have shower rail/curtain installed. Note: if shower screens are proposed, it shall be clear of the minimum circulation space (min. 1600 x 2350mm). Moreover, the shower door shall be in accordance with Clause 13 of A\$1428.1-2009.
12.32.	The height to the top of shower seat shall be 470-480mm above FFL.
12.33.	Provide a horizontal grab rail (660mm min), to be placed beneath the vertical shower support rail, between 390-400mm from side wall (leading edge of grabrail aligned with end of shower seat), installed 800-810mm height from FFL.
12.34.	Provide vertical shower support rail to start between 1000-1100mm from FFL. The top of the shower support rail to finish between 1880-1900mm FFL. The rail to be placed between 580-600mm from the side wall.
12.35.	Ensure the shower taps and soap holders to be placed between 900mm - 1100mm from FFL. The shower taps and soap holders shall be 300-800mm from side wall and there shall be 50mm clear from the vertical support grabrail.
12.36.	Hand-held shower head required, with flexible hose min. 1500mm in length.
12.37.	The height of the hose wall outlet to be 700±5mm height above FFL to ensure suitable hose length when showering. A suitable back-flow prevention device shall be provided.
12.38.	Provide 2 x clothes hanging devices required outside the shower recess. First hook shall be 400mm from the edge of the toilet seat and the second hook shall be 600mm from the edge of the seat, installed between 1200-1350mm from FFL.

13.	AMBULANT SANITARY FACILITIES
13.1.	Ambulant facilities for males and females shall be provided at each bank of toilets where there are one or more toilets in addition to an accessible WC.
13.2.	Minimum 900mm x 900mm circulation area shall be provided between successive door swings in airlocks/vestibules on path of travel leading to ambulant toilets.
13.3.	Minimum 900mm x 900mm circulation area shall be provided outside the ambulant cubicles.
13.4.	The cubicle shall be between 900mm - 920mm clear width with WC pan centred (i.e. 450-460mm set out).
13.5.	The cubicle door shall have a min. 700mm clear opening width.
13.6.	900mm x 900mm clear area shall be provided in front of WC pan and clear of door swing.
13.7.	Projection of WC (distance from back wall to the front of the seat) shall be 610-660mm.
13.8.	Height to top of pan seat shall be 460-480mm above FFL.
13.9.	Ambulant cubicle door shall be provided with in-use indicator and bolt/catch that is able to be opened from outside (in emergency). If snib catch used, the handle shall be 45mm min. length from centre.
13.10.	Grabrails provided on both sides of cubicle at 800mm - 810mm height (to top of grabrail) from FFL.
	Refer to Figure 53 (A) of A\$1428.1-2009 for further guidance.



13.	AMBULANT SANITARY FACILITIES
	0 100 10 100 10 400 10 450 100 10 100 10 100 10 100 100 100 10 100 10 100 100 100 100 10 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100
	Standard Paletica Or With Circulation space door must not hitude 900 to 920
13.11.	Toilet roll holder to be placed at 700mm max. height from FFL and 300mm max. distance from front of pan on adjacent wall, no closer than 50mm to grabrails.
13.12.	Clothes hook to be installed between 1350mm - 1500mm from FFL.

14.	GRABRAILS
14.1.	Grabrails shall have 30-40mm outside diameter.
14.2.	Grabrails shall be installed 800-810mm height to the top of grabrail.
14.3.	Grabrails shall be able to withstand a force of 1100N applied at any position and in any direction.
14.4.	The clearance between the face of the grabrail and the wall shall be 50-60mm (finger/knuckle clearance).
14.5.	270-degree clear arc around top of handrail required (extending for 600mm min. height above the grabrails).



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