

Cobrum Pty Ltd

Access Design Assessment Report

Section 4.56

22 Frenchs Forest Road East Frenchs Forest NSW 2086



Project:	22 Frenchs Forest Road East, Frenchs Forest
Document Type:	Access Design Assessment Report
Our Reference:	P218_051-6 (ACCESS) KG

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Revision History—

OUR REFERENCE	REMARKS	ISSUE DATE
P218_051-1 (ACCESS) NH	Draft report issued to client for review and comment	04 April 2018
P218_051-2 (ACCESS) NH	Report issued as final to accompany DA submission	12 April 2018
P218_051-3 (ACCESS) NH	Report updated to suit revised design documentation. Report to accompany DA submission.	10 September 2018
P218_051-4 (ACCESS) NH	Report issued as final	19 September 2018
P218_051-5 (ACCESS) KG	Draft report reflecting \$4.56 documentation issued to client	25 May 2022
P218_051-6 (ACCESS) KG	Final report issued reflecting \$4.56 drawings dated 17.5.2022	07 June 2022



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## EXECUTIVE SUMMARY

This Access Design Assessment Report has been prepared by Design Confidence at the request of Cobrum Pty Ltd and relates to the proposed boarding house located at 22 Frenchs Forest Road East, Frenchs Forest.

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—

ITEM	DESCRIPTION	RESPONSIBILITY
1	As design progresses, further details shall be provided to ensure compliance with the requirements of the BCA / AS1428.1-2009 is achieved, such as: a. Stairway details; b. Wet area (sanitary facilities) details; c. Door and door hardware details; d. Tactile and visual indicator details; e. Signage details; f. Accessible car parking details; g. Lift details.	Project Architect

In addition to undertaking a detailed assessment of the design against the prescriptive requirements of the BCA a preliminary performance-based assessment has also been undertaken.

The implementation of a performance-based approach in lieu of compliance with the deemed-to-satisfy (DtS) provisions of the BCA shall be disclosed to the relevant stakeholders and is subject to the approval of the certifying authority.

The table below lists scenarios where we believe the adoption of a performance design may add value to development in-lieu of complying with the prescriptive (DtS) provisions—

ITEM PROPOSED PERFORMANCE SOLUTION		PROPOSED PERFORMANCE SOLUTION	PERFORMANCE REQUIREMENT
	1	Nil	



## 1.0 INTRODUCTION

### 1.1 General

This report has been prepared at the request of Cobrum Pty Ltd and relates to the proposed boarding house located at 22 Frenchs Forest Road East, Frenchs Forest.

The proposed development includes a modification to the previously approved development consent for a boarding house via 4.56 process with the local consent authority.

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

CLASSIFICATION	DESCRIPTION
Class 3	Boarding house
Class 7a	Car parking

STOREYS CONTAINED (INCLUD	ING BASEMENT LEVELS)
Three (03)	

## 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 BKA Architecture 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, 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;
  - Bulky waste;
  - Bin storage;
  - Services areas;
  - Storage areas.
- (ii) Movable furniture is the ongoing responsibility of the occupants who should maintain appropriate circulation spaces between and around furnishings.
- (iii) All stairways were assessed as fire non-isolated stairways.
- (iv) Rear gate is proposed as egress only and is therefore not assessed as an accessible entry.



# 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			$\checkmark$
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	COMPLIES	DOES NOT COMPLY	DESIGN DETAIL
E3.6	Passenger lifts			$\checkmark$

## 2.4 Part F2.4 – Accessible Sanitary Facilities

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

## 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 3	Access is required to be provided—
	<ul> <li>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</li> </ul>
	<ul> <li>(ii) To and within not less than one (1) of each type of room/space for use in common by the residents; and</li> </ul>
	(iii) To the entrance doorway of each sole-occupancy unit located on the levels served by the lift;
	(iv) To and within rooms/spaces for use in common by the residents located on the levels served by the lift.
	A total of nineteen (19) SOUs have been provided. Access is required to be provided to and within two (02) sole-occupancy units.
	Rooms 07 and 08 have been designated as the accessible sole- occupancy units required to comply with the requirements of this clause.
	Not more than 2 required accessible sole-occupancy units may be located adjacent to each other.
	Where more than 2 accessible sole-occupancy units are required, they must be representative of the range of rooms available.
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 <b>Section 1.6</b> above.

#### 3.2.2 Clause D3.2 – Access to buildings



An accessway to the building from the site boundary on Patanga Road is provided via a pedestrian entry.

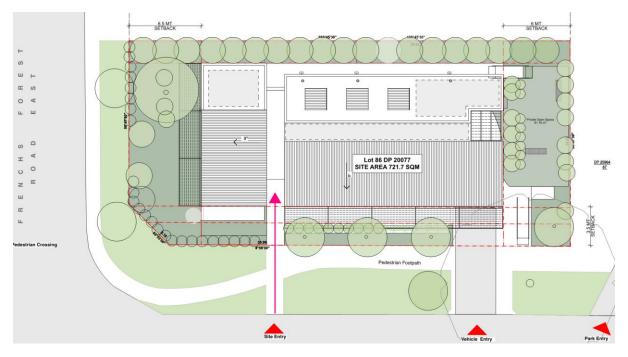


Figure 1 – Pedestrian Entry

The following comment is provided in regards the requirements of Clause D3.2 of the BCA-

DESCRIPTION	COMPLIANCE DEPARTURE RESC	LUTION
General	It appears compliance with this Nil further action clause is readily achievable. stage.	n required at this

### 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	COMPLIANCE DEPARTURE	RESOLUTION
Landscape – clothesline	Ensure that accessway to clothesline is proposed and is traversable by people on a wheelchair and those with an ambulant or sensory disability.	Level of details is suitable for \$4.56 stage. As design progresses detailed drawings will be required.
	A 180-degree turning space will be required at the end of access-way.	
Detailed drawings	Detailed drawings of stairways have not yet been provided for	Level of details is suitable for \$4.56 stage.
	assessment.	As design progresses detailed drawings will be required.

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

#### 3.2.4 <u>Clause D3.4 – Exemptions</u>



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

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

A total of six (06) car parking spaces have been provided in basement. One (01) has been designated as an accessible parking space, therefore meeting the requirements of Clause D3.5 of the BCA in regards the minimum number of accessible parking spaces required in a car parking area associated with a Class 3 and 7a building.

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

DESCRIPTION	COMPLIANCE DEPARTURE	RESOLUTION	
Height	Ensure accessible car space and associated shared zone have a minimum vertical clearance no less than 2500mm. The vertical clearance leading to the accessible car space must be minimum 2200mm.	N/A	
Detailed drawings	Detailed drawings have not yet been provided for assessment.	Level of details is suitable for \$4.56 stage.	
		As design progresses detailed drawings will be required. Ensure compliance with AS2890.6-2009 is achieved.	

Refer to Appendix 2 below for further design guidance

#### 3.2.6 <u>Clause D3.6 – Signage</u>

The following comment is provided in regards the requirements of Clause D3.6 of the BCA-

DESCRIPTION	COMMENT	RESOLUTION
General	Signage details have not yet been provided for assessment.	Level of details is suitable for \$4.56 stage.
		Signage will be required in accordance with the requirements of this clause.

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 comment is provided in regards the requirements of Clause D3.8 of the BCA-



DESCRIPTION	COMPLIANCE DEPARTURE	RESOLUTION
General	Tactile indicators at stairways have not yet been detailed within the design documentation.	Level of details is suitable for \$4.56 stage. Tactile indicators will be required in accordance with the requirements of this clause.

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 <u>Clause D3.10 – Swimming pools</u>

Not applicable.

#### 3.2.11 <u>Clause D3.11 – Ramps</u>

Not applicable.

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

The following comment is provided in regards the requirements of Clause D3.12 of the BCA-

DESCRIPTION	COMPLIANCE DEPARTURE	RESOLUTION
General	Visual indicators have not yet been detailed within the design documentation.	Level of details is suitable for \$4.56 stage. Visual indicators will be required in accordance with the requirements of this clause.

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 relating to lifts—

DESCRIPTION	COMPLIANCE DEPARTURE	RESOLUTION
General A total of two (02) passenger lifts are proposed within the subject development, being one (01) platform lifts and one (01) passenger lift.		Every passenger lift proposed must comply BCA Clause E3.6 and A\$1735.12-1999 as applicable to the subject lift type.
Platform lift - landing	Nil lift landing at the bottom of the platform lift is shown on drawings.	Level of details is suitable for \$4.56 stage.



DESCRIPTION	COMPLIANCE DEPARTURE	RESOLUTION
		Lift landing to be located on a grade not less than 1:40 and be of traversable surface.
		As design progresses detailed drawings will be required.

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

### 3.4 Part F2.4 – Accessible Sanitary Facilities

#### 3.4.1 Accessible unisex sanitary facilities

The following comments are provided in regards the requirements of Clause F2.4 of the BCA relating to accessible sanitary facilities—

DESCRIPTION	COMPLIANCE DEPARTURE	RESOLUTION
General	A total of two (02) accessible sanitary compartments have been provided within the subject development, being sanitary facilities in proposed accessible SOUs and appear able of achieving compliance with this clause.	Level of details is suitable for \$4.56 stage.
Detailed drawings	Detailed drawings have not yet been provided for assessment.	Level of details is suitable for \$4.56 stage.
		As design progresses detailed drawings will be required. Ensure fixtures and fittings comply with Clause 15 of AS1428.1-2009.

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

#### 3.4.2 Sanitary compartment for people with ambulant disabilities

Not applicable.

## 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

Katja Gavran Access Consultant For Design Confidence (Sydney) Pty Ltd

Verified By

Luke Sheehy Principal For Design Confidence (Sydney) Pty Ltd



## APPENDIX 1 – Documentation Provided for Assessment

This accessibility assessment was based upon the architectural documentation prepared by BKA Architecture namely—

DRAWING	REV	TITLE	DATE
A-100	01	Basement	17.05.2022
A-101	01	Ground Floor Plan	17.05.2022
A-102	01	Level 1 Floor Plan	17.05.2022



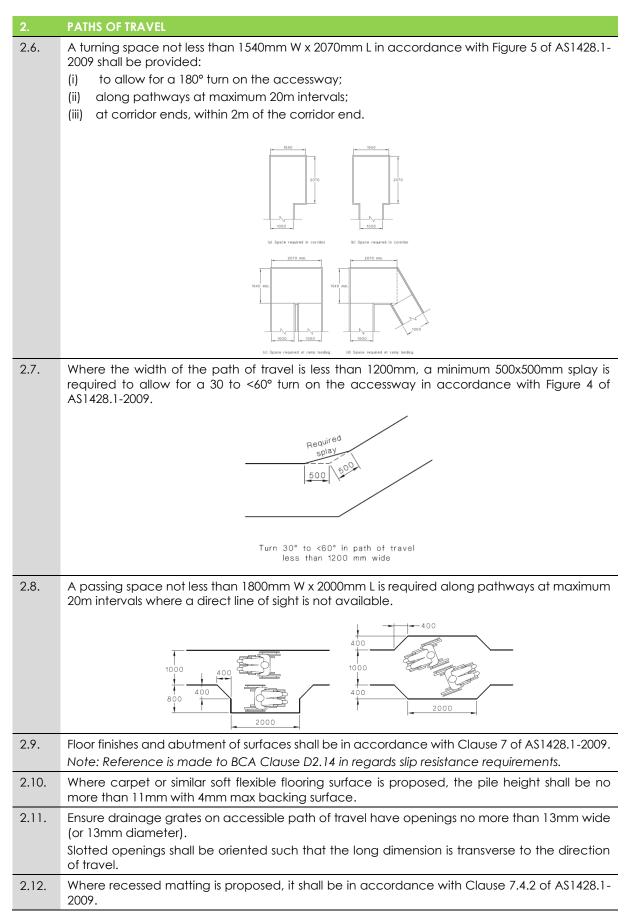
## APPENDIX 2 – Design Checklist – Prescriptive Requirements

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.

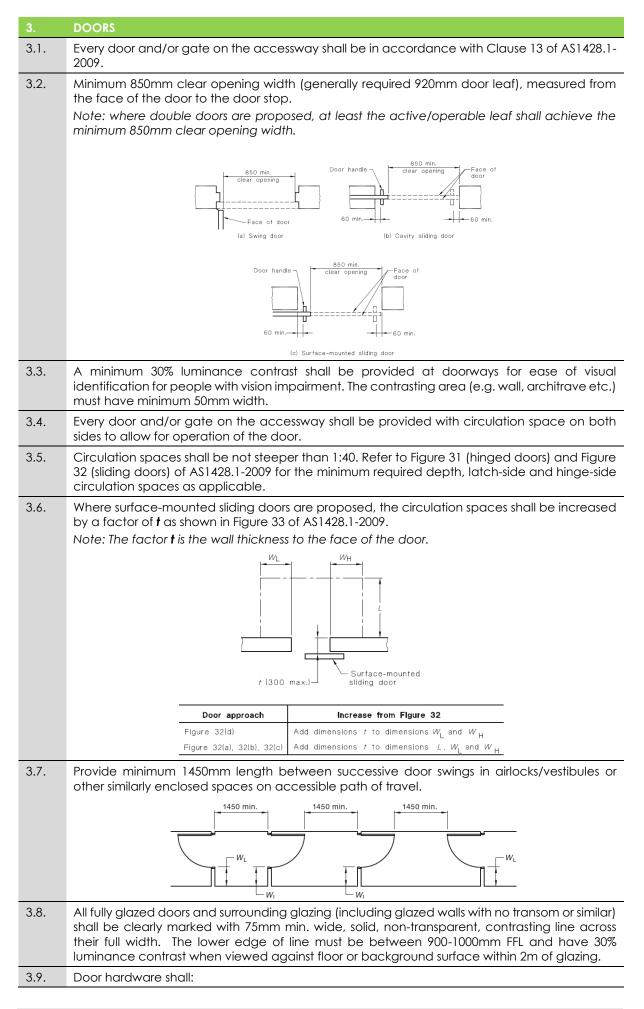
1.	ACCESS TO BUILDINGS	
1.1.	Provide an accessible path of travel compliant with A\$1428.1-2009 from all main pedestrian entry points at the site boundary to the principal pedestrian entrance/s of the building.	
1.2.	Where a building is afforded with multiple pedestrian entries, an accessway shall be 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 500m <sup>2</sup> :	
	(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 AS1428.1-2009. 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.	

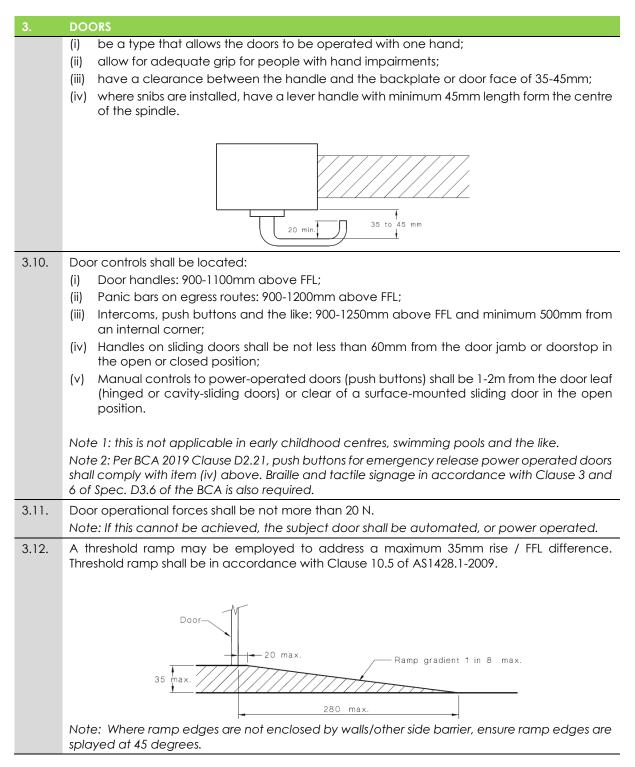






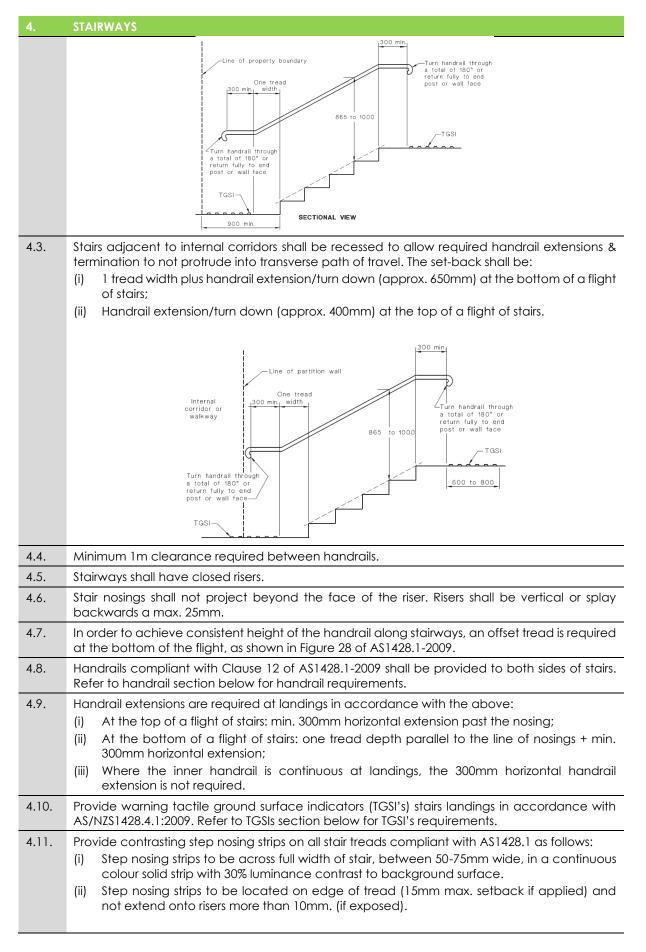




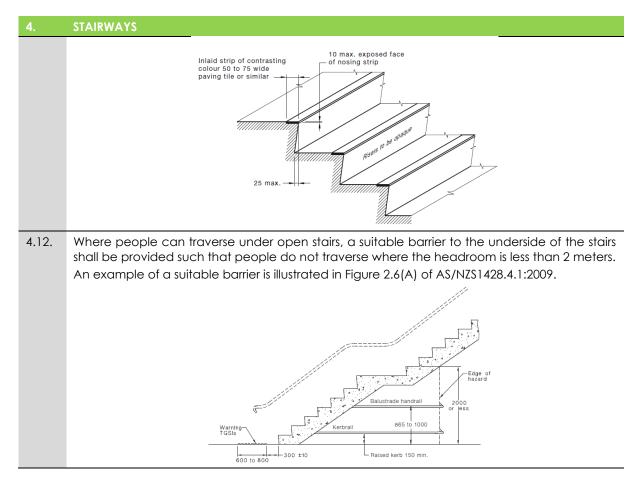


4.	STAIRWAYS
4.1.	The requirements of this section shall apply to all stairways for general circulation and to external (non-fire isolated) egress stairways.
4.2.	Stairs located at site boundary shall be recessed (900mm min. from boundary) to allow required handrail extensions and TGSI's to not protrude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



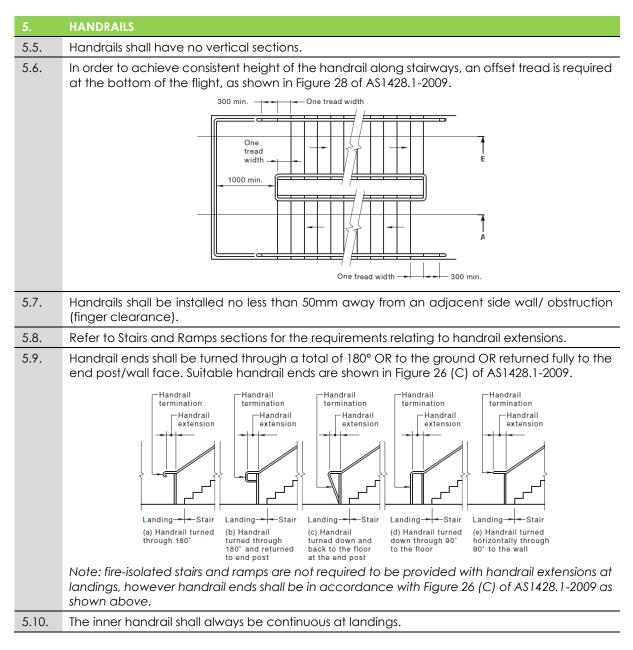






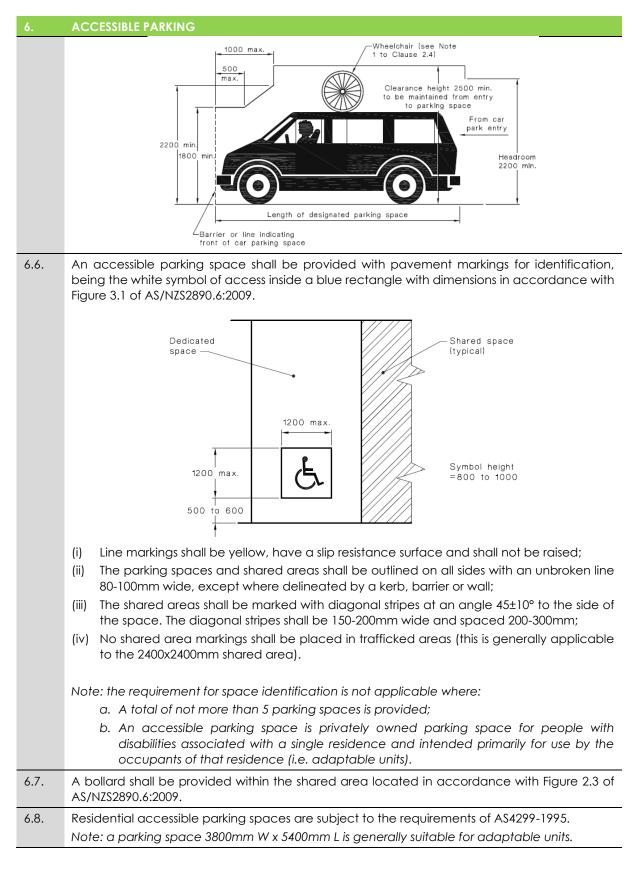
5.	HANDRAILS
5.1.	All stairs and ramps shall be provided in accordance with Clause 12 of AS1428.1-2009, including fire-isolated stairways and ramps. Note: for stairs/ramps in areas afforded the concession under D3.4, handrails are only required to comply with Clause D2.17 of the BCA.
5.2.	The cross section 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.
	865 to 1000 above nosing of tread or surface level
5.3.	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.
5.4.	Where a balustrade for fall protection is required at a height above 1m, both the balustrade and the handrails shall be provided.





#### **ACCESSIBLE PARKING** 6.1. Minimum required dimensions: Dedicated parking space shall be 2400mm W x 5400mm L (minimum); (i) A shared area shall be provided to one side of the dedicated parking space, being (ii) 2400mm W x 5400mm L (minimum); A shared area shall be provided at one end of the parking space, being 2400mm W x (iii) 2400mm L. 6.2. The ground surface shall be firm, plane, slip resistant and traversable by people with disabilities (hence surfaces such as loose gravel and grass are not acceptable). 6.3. Accessible parking spaces and shared areas shall at the same grade and the ground surface shall be not steeper than 1:40 (1:33 for external bitumen surfaces is acceptable). Vertical clearance leading to the accessible parking spaces shall be not less than 2200mm. 6.4. 6.5. Vertical clearance at the accessible parking spaces and associated shared areas shall be not less than 2500mm. Note: reduced headroom may be permitted in accordance with Figure 2.7 of AS/NZS2890.6:2009.





7.	SIGNAGE
7.1.	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;



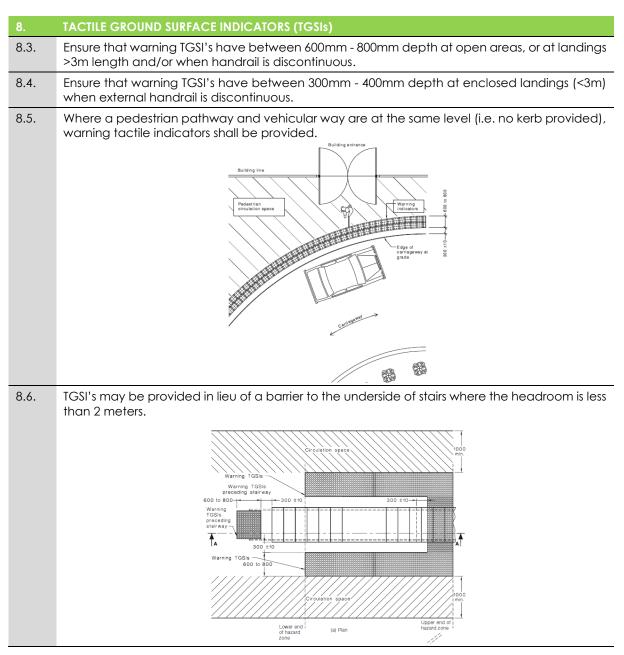
7.	SIGNAGE
	(iv) Identify each door required by BCA Clause E4.5 to be provided with an exit sign;
	(v) Identify a sanitary compartment suitable for people with ambulant disabilities;
	(vi) At entry doors to airlocks containing either accessible and/or ambulant WCs, identifying each facility provided within.
7.2.	Braille and tactile directional signage will be required at:
	(i) A non-accessible pedestrian entrance to direct a person to the nearest accessible
	<ul><li>entrance;</li><li>(ii) A sanitary bank which is not provided with an accessible sanitary facility to direct a person</li></ul>
	to the nearest accessible sanitary facility.
7.3.	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.
7.4.	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).
7.5.	At standard sanitary facilities, the signage shall include:
	(i) Minimum required message: "Male Toilet" or "Female Toilet", as applicable;
	(ii) Raised & visual versions of the male and female symbols;
	(iii) Braille that fully describes the information displayed by symbols and text.
	Male Toilet Female Toilet
7.6.	At an accessible sanitary facility, the signage shall include:
7.0.	<ul> <li>(i) Minimum required message: "Unisex Toilet RH" or "Unisex Toilet LH" (as applicable)</li> </ul>
	(ii) Information if the toilet pan is suitable for RH or LH transfer;
	(iii) Raised & visual versions of the international symbol of access;
	(iv) Raised & visual versions of the male and female symbols;
	(v) Braille that fully describes the information displayed by symbols and text.
	Unisex Toilet RH
7.7.	At an ambulant sanitary compartment, the signage shall include: (i) Minimum required message: "Ambulant Male Toilet" or "Ambulant Female Toilet", as
	applicable;
	(ii) Raised & visual versions of the male and female ambulant symbols;
	(iii) Braille that fully describes the information displayed by symbols and text.
	Female Ambulant
	Toilet



7.	SIGNAGE
7.8.	<ul> <li>At exits, the signage shall include:</li> <li>(i) The word "Exit"; and</li> <li>(ii) The word "Level" and the floor level number OR a floor level descriptor OR a combination of both the number and the descriptor;</li> </ul>
	<ul><li>(iii) Braille that fully describes the information display by text.</li></ul>
7.9.	At the door to rooms/spaces provided with hearing augmentation, the signage shall include raised & visual versions of the international symbol of deafness.
7.10.	<ul> <li>Within the room/spaces provided with hearing augmentation, the signage shall include:</li> <li>(i) The type of hearing augmentation;</li> <li>(ii) The area covered within the room;</li> <li>(iii) If receivers are being used &amp; where they can be obtained.</li> </ul>
7.11.	Directional signage shall include: (i) A wayfinding arrow that indicates the location of the subject accessible facility (being an accessible toilet or accessible entry); (ii) Raised & visual versions of the international symbol of access; (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 Direction Identification
7.12.	<ul> <li>Location of signage:</li> <li>(i) Braille and tactile components shall be at a height of 1200-1600mm above FFL; and</li> <li>(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;</li> <li>(iii) Where b. is not possible, signage shall be on the door itself; and</li> <li>(iv) At ambulant sanitary facilities, the signage shall be placed on the door.</li> </ul>
7.13.	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.

8.	TACTILE GROUND SURFACE INDICATORS (TGSIs)
8.1.	<ul> <li>Ensure that TGSI's are slip-resistant and achieve minimum luminance contrast against background surface in accordance with the following:</li> <li>(i) Integrated TGSI's (i.e. tiles) require 30% min. luminance contrast.</li> <li>(ii) Discrete TGSI's (i.e. buttons) require 45% min. luminance contrast.</li> <li>(iii) Composite TGSI's with 2 materials/colours requires 60% min. luminance contrast.</li> </ul>
8.2.	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 <b>not</b> required where the gradient is not steeper than 1:20 (walkways) or at step ramps and kerb ramps. Note 2: tactile indicators are <b>not</b> required at fire-isolated stairs and ramps. Note 3: tactile indicators <b>are</b> required at external (non-fire-isolated) egress stairs and ramps.





9.	PASSENGER LIFTS
9.1.	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.
9.2.	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.
9.3.	Passenger lifts travelling less than 12m (except stair platform lifts) require 1100mm W x 1400mm L min. dimensions.
9.4.	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.
9.5.	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.
9.6.	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.



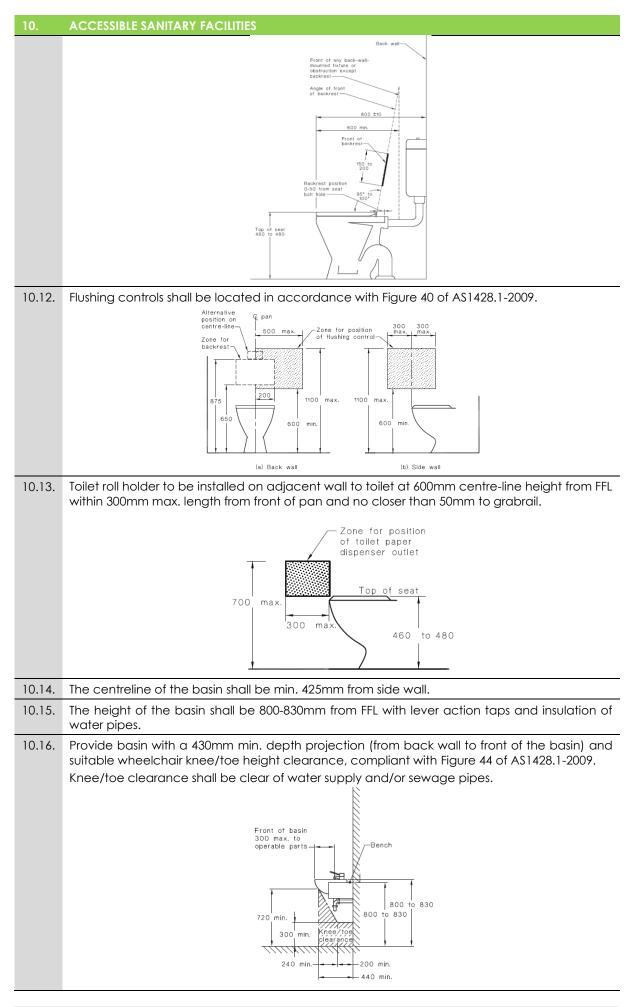
9.	PASSENGER LIFTS
9.7.	Low rise, low speed constant pressure lifts, enclosed type (previous A\$1735.15), require 1100mm x 1400mm min. dimensions compliant with BCA Part E3.6 and must not travel more than 4m. They cannot be used high traffic public areas.
9.8.	Any low-rise lifts (previous part A\$1735.14 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.
9.9.	Small size low-speed automatic lifts (previous A\$1735.16), require 1100mm W x 1400mm L min. dimensions and must not travel more than 12m.
9.10.	Ensure all passenger lifts (except stair platform lifts) have 900mm min. clear door opening, compliant with A\$1735.12.
9.11.	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.
9.12.	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 AS1735.12.
9.13.	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.
9.14.	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.
9.15.	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.
9.16.	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.
9.17.	Ensure all lifts serving more than 2 levels provides automatic audible information within the lift car to identify each level the lift stops.
9.18.	Ensure all lifts serving more than 2 levels provides appropriate visual and audible arrival signals of the lift car in all lift lobbies.
9.19.	Ensure all lifts serving more than 2 levels provides appropriate audible range and frequency, (between 20-80dbA at maximum frequency of 1500 Hz).
9.20.	The lighting in all enclosed lift cars must be at least 100 lux.
9.21.	All visible information to provide 30% min. luminance contrast to background surface.

10.	ACCESSIBLE SANITARY FACILITIES
10.1.	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.
10.2.	Ensure a balance of left- and right-handed WC pans within the building.
10.3.	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.

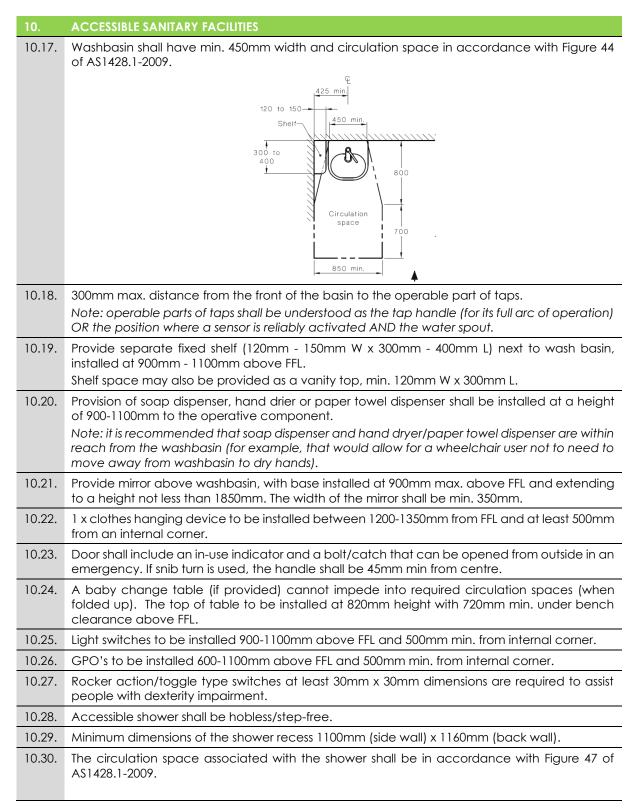


10.	
	Portable sanitary 200 to 250 200 min. 200 to 250 200 min. 200 to 250 200 min. 200 to 250 200 min. 1400 min. 200 to 250 1400 min. 1400 min. 200 to 250 1400 min. 1400 min. 200 to 250 1400 min. 1400 min. 200 to 250 200 to 250 1400 min. 1400 min. 200 to 250 200 to 250 1400 min. 200 to 250 1400 min. 200 to 250 1400 min. 200 to 250 200 to 250 1400 min. 200 to 250 200 to 250 1400 min. 200 to 250 1400 min. 200 to 250 200 to 250 1400 min. 200 to 250 1400 min. 200 to 250 1400 min. 200 to 250 1400 min. 1400 m
10.4.	The required circulation spaces associated with toilet pan, washbasin, shower and door are allowed to overlap.
10.5.	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.
10.6.	The centreline of the accessible toilet pan shall be 450-460mm from side wall.
10.7.	Toilet projection from the back wall to the front of the toilet seat shall be $800$ mm $\pm 10$ mm. Note: This is a critical dimension.
10.8.	The height to top of the toilet seat shall be 460-480mm above FFL.
10.9.	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.
10.11.	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.











10.	ACCESSIBLE SANITARY FACILITIES
	30 to 40       40 max.         30 to 40       40 max.         30 to 40       40 max.         40 max.       40 max.         40 max.       1000 min.         40 max.       40 max.         1000 min.       1000 min.         40 max.       40 max.         1000 min.       1000 min.         40 max.       1000 min.         1000 min.       100 min.         1000 min.       100 min.         1000 min.       100 min.         1000 min.       100 min.         100 min.       100 min.     <
10.31.	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 AS1428.1-2009.
10.32.	The height to the top of shower seat shall be 470-480mm above FFL.
10.33.	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.
10.34.	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.
10.35.	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.
10.36.	Hand-held shower head required, with flexible hose min. 1500mm in length.
10.37.	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.
10.38.	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.

11.	GRABRAILS
11.1.	Grabrails shall have 30-40mm outside diameter.
11.2.	Grabrails shall be installed 800-810mm height to the top of grabrail.
11.3.	Grabrails shall be able to withstand a force of 1100N applied at any position and in any direction.
11.4.	The clearance between the face of the grabrail and the wall shall be 50-60mm (finger/knuckle clearance).
11.5.	270-degree clear arc around top of handrail required (extending for 600mm min. height above the grabrails).



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