



Project: Weigall Sports Complex

Document Type: Access Design Assessment Report

Our Reference: P220\_051-2 (ACCESS) LB

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### Revision History—

OUR REFERENCE	REMARKS	ISSUE DATE
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P220_051-2 (ACCESS) LB	Report updated for SSDA submission	14 September 2020



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## **EXECUTIVE SUMMARY**

This Access Design Assessment Report has been prepared by Design Confidence at the request of Jattca Property Solutions and relates to the proposed Weigall Sports Complex located within Sydney Grammar School at Nield Avenue Darlinghurst NSW.

The recommendations in this report are to be developed with the ongoing design development and should be confirmed prior to construction certificate stage. As the design progresses, further review of documentation shall be undertaken to ensure that compliance with the accessibility provisions of the BCA is achieved.

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.



## 1.0 INTRODUCTION

### 1.1 General

This Access Design Assessment Report has been prepared by Design Confidence at the request of Jattca Property Solutions and relates to the proposed Weigall Sports Complex at Sydney Grammar School.

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

CLASSIFICATION	DESCRIPTION	
Class 9b	Sports facilities building	
Class 7a	Car Park	

STOREYS CONTAINED (INCLUD	ING BASEMENT LEVELS)
Four (4)	Sports facilities building
Two (2)	Car Park

### 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 (hereinafter referred to as the BCA), as are principally contained within Parts D3, E3.6, F2.4 and F2.9 and relevant Australian Standards.

#### 1.3 Documentation Provided for Assessment

This accessibility assessment was based upon the architectural documentation prepared by Allen Jack + Cottier Architects listed in **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—
  - Basement Level, which comprises plant rooms and services corridors;
  - Stairway serving the basement level;
- (ii) Movable furniture is the ongoing responsibility of the occupants who should maintain appropriate circulation spaces between and around furnishings;
- (iii) The internal fit out of the multi-purpose spaces has not been included in this assessment;
- (iv) For an assessment of the BCA provisions (other than the accessibility provisions), refer to the report prepared by Design Confidence [reference P220\_051-1 (BCA) LB].



## 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			✓
D3.8	Tactile indicators			✓
D3.9	Wheelchair seating spaces	N/A		
D3.10	Swimming pools			✓
D3.11	Ramps			✓
D3.12	Glazing on an accessway			✓

### 2.3 Part E3.6 – Passenger Lifts

	BCA CLAUSE	COMPLIES	DOES NOT COMPLY	
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			✓

## 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 Clause D3.1 - General building access requirements

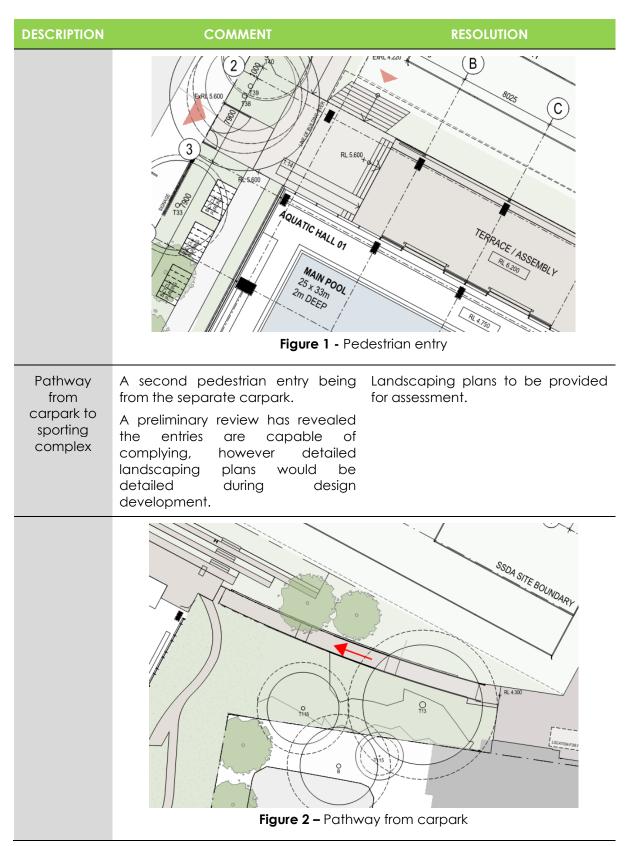
BUILDING CLASS	ACCESSIBILITY REQUIREMENTS
Class 9b	Access is required to and within all areas normally used by the occupants.
	Access is required to and into swimming pools with a total perimeter greater than 40 m, associated with a Class 9b building that is required to be accessible.
Class 7a	Access is required to and within any level containing accessible carparking 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.

### 3.2.2 <u>Clause D3.2 – Access to buildings</u>

The following comments are provided in regards the requirements of Clause D3.2 of the BCA—

DESCRIPTION	COMMENT	RESOLUTION
Pedestrian entries	The main pedestrian point of entry will be from Nield Avenue.	Landscaping plans to be provided for assessment.
	A preliminary review has revealed the entries are capable of complying, however landscaping plans would be required to confirm	





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—

COMMENT	RESOLUTION
It is noted that the stairs serving the basement level are illustrated as not being provided with handrails.	The subject stairway serves an area not required to be accessible, hence the concession under D3.4 is afforded in this instance.
	Therefore, the subject stairs are not required to be provided with accessibility features.
It is noted none of the stairways throughout both buildings are generally documented without handrails to both sides of the stairway.	The subject stairways will be required with handrails to both sides and full accessibility features in accordance with AS1428.1.
Some internal doors are detailed at this stage of not achieving the minimum required circulation space at the doorways. These include:  • Accessible WC on the ground floor adjoining the server;  • Staff change area on ground floor;  • Doors on the Eastern façade on Levels 1 & 2 leading to the	As design progresses, ensure the doors are provided with min. circulation space as required within AS1428.1.
	It is noted that the stairs serving the basement level are illustrated as not being provided with handrails.  It is noted none of the stairways throughout both buildings are generally documented without handrails to both sides of the stairway.  Some internal doors are detailed at this stage of not achieving the minimum required circulation space at the doorways. These include:  • Accessible WC on the ground floor adjoining the server;  • Staff change area on ground floor;

## 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 D3.45– Accessible Car Parking</u>

Vehicle parking is proposed where a total of one hundred and eighteen (118) car parking spaces within the carpark building plus nine (9) adjacent to the sporting complex. Two (2) spaces have been designated as accessible parking spaces, 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 9b school building.

DESCRIPTION	COMPLIANCE DEPARTURE	RESOLUTION
Accessible parking and the shared area	2 accessible parking spaces are shown. 1 adjoining carpark and one in the Southern carpark. Spatially parking spaces are capable of	Accessible car parking spaces shall be designed in accordance with AS2890.6 (2009), including (but not limited to) the following:
	complying.  Car parking spaces have been	<ul> <li>Minimum dimensions of 2400mm (W) x 5400mm (D);</li> </ul>
	calculated at a rate of 1 space for every 100 carparking spaces (school) under D3.5.	<ul> <li>Minimum dimensions of 2400mm (W)x 5400mm (D) to the shared area;</li> </ul>
		<ul> <li>Provision of bollard to the shared space;</li> </ul>
		<ul> <li>Appropriate line-marking and signage; and</li> </ul>
		A head height clearance minimum of 2500mm is required to accessible car spaces and shared areas. This may be reduced to 2200mm within 1000mm of the front of the space, and to 1800mm within 500 mm of the front of the space.
		Further information is required.

#### 3.2.6 Clause D3.6 – Signage

Signage details have not yet been provided for assessment. Refer to **Appendix 2** below for further design guidance in this regard.

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

The following comment is provided in regards to the requirements of Clause D3.7 of the BCA—

DESCRIPTION	COMMENT	RESOLUTION
General	inbuilt amplification system (other	A hearing augmentation system will be required if an inbuilt amplification system (other than for emergency warning) is proposed.



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

Tactile indicators at stairways and ramps have not yet been detailed within the design documentation. Refer to **Appendix 2** below for further design guidance in this regard.

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

The following comment is provided in regard to the requirements of Clause D3.9 of the BCA-

DESCRIPTION	COMMENT	RESOLUTION
General	wheelchair seating spaces must be provided in accordance with D3.9. It	If any of fixed seating is fixed within this area. If fixed seating provided a number is to be confirmed to determine number of wheelchair spaces required.

### 3.2.10 Clause D3.10 – Swimming pools

A pool is proposed with a perimeter greater than 40m (being  $\sim$ 170m), thus being required to be accessible in accordance with Clause D3.10 of the BCA.

The following comments are provided in regards the requirements of Clause D3.10 of the BCA—

DESCRIPTION	COMMENT	RESOLUTION
Means of accessible entry	A zero-depth entry is proposed as the mean of accessible entry into the pools.	As design progresses, ensure the zero-depth entry complies with the requirements of BCA Spec D3.10.
Aquatic wheelchair	It shall be noted that Clause D3.10 also requires the provision of an aquatic wheelchair within the subject development.	-

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

Refer to **Sections 3.2.2** above for comments.

#### 3.2.12 Clause D3.12 - Glazing on an accessway

Visual indicators have not yet been detailed within the design documentation. Refer to **Appendix 2** below for further design guidance in this regard.



## 3.3 Part E3.6 – Passenger Lifts

A total of one (1) passenger lift is proposed within the subject development, serving all levels within the sporting complex.

Within the carpark building a lift is not required as accessible parking spaces are provided on the ground floor.

Every passenger lift proposed must comply BCA Clause E3.6 and AS1735.12-1999 as applicable to the subject lift type. Refer to **Appendix 2** below for further design guidance in this regard.

### 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	COMMENT	RESOLUTION
Occupant groups	The split between staff and students' facilities is pending further confirmation in regards to the required numbers.	It shall be noted that staff and students cannot share sanitary facilities in a Class 9b school building.
		Hence, if there are sanitary facilities intended for use by staff within the building, there will be a requirement for an accessible unsex facility for staff.
Accessible showers	Based upon calculations per Clause F2.3 of the BCA, twenty one (21) showers are required for the participants, hence three (3) accessible unisex showers will be required.	Based upon an assessment of the proposed layout, Ground and Level 1 are proposed with accessible facilities incorporating showers are shown. To achieve a minimum of three it is suggested the accessible facility adjoining the server is afforded a shower.

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

The following comment is provided in regards the requirements of Clause F2.4 of the BCA relating to sanitary facilities for people with ambulant disabilities—

DESCRIPTION	COMMENT	RESOLUTION
General	Sanitary compartments for people with ambulant disabilities have been shown at each bank of facilities. These are capable of complying.	people with ambulant disabilities are



## 3.5 Part F2.9 – Accessible Adult Change Facilities

An adult change facility (AACF) is not required within the building, based on the fact the building is still a private school building, and that any use of the building as a community use will be at a benefit to the school. It will not be classed as a public aquatic centre and we see no issues with learn to swim classes being held within.



## 4.0 CONCLUSION

#### 4.1 General

Our strategy for ensuring compliance has been 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, 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 Verified By

Lindsay Beard
Associate | Building Regulations

For Design Confidence (Sydney) Pty Ltd

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Consultant | Accessibility
For Design Confidence (Sydney) Pty Ltd



## APPENDIX 1 - DOCUMENTATION PROVIDED FOR ASSESSMENT

This accessibility assessment was based upon the architectural documentation prepared by Allen Jack + Cottier Architects, listed in Table A1.1 below

**Table A1.1 –** Architectural documentation

DESCRIPTION	DRAWING NUMBER	REVISION	DATE
Locality Plan	A1000	Α	02.09.2020
Site Plan	A1001	Α	02.09.2020
Demolition Plan	A1100	Α	02.09.2020
General Arrangement - Basement	A2100	Α	02.09.2020
General Arrangement – Ground	A2101	Α	02.09.2020
General Arrangement – Mezzanine	A2102	Α	02.09.2020
General Arrangement – First	A2103	Α	02.09.2020
General Arrangement – Second	A2104	Α	02.09.2020
General Arrangement - Roof	A2105	Α	02.09.2020
Elevations	A3100	Α	02.09.2020
Elevations	A3101	Α	02.09.2020
Sections	A3200	Α	02.09.2020
Sections	A3201	Α	02.09.2020
General Arrangement – Carpark Lower Ground + Upper Ground	A2110	А	02.09.2020
General Arrangement – Carpark Lower First + Upper First	A2111	А	02.09.2020
General Arrangement – Carpark Upper First + Second	A2112	А	02.09.2020
Carpark Elevations	A3110	Α	02.09.2020
Carpark Elevations	A3111	Α	02.09.2020
Carpark Sections	A3210	Α	02.09.2020
Carpark Sections	A3211	Α	02.09.2020



## 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.

, AST428.	.1-2009, AS/NZ\$1428.4.1:2009, A\$1735.12-1999 and AS/NZ\$2890.6:2009.
	EXTERNAL ACCESSWAYS
1	Provide an accessible path of travel compliant with AS1428.1 from all mai pedestrian entry points at the site boundary to the principal pedestrian entrance, of the building.
2	For multiple building entries, ensure an accessible path of travel, compliant wit AS1428.1 to and through 50% of entrances.  Irrespective of the above, the principal pedestrian entrance shall be in accordance.
3	with AS1428.1.  Ensure any direct pedestrian accessways (i.e. not public footpath) from associate
	accessible buildings are compliant with AS1428.1.
4	Provide an accessible path of travel, compliant with AS1428.1 from accessible containing spaces on the site.
	ACCESS TO BUILDINGS
1	Ensure a non-accessible entry is not more than 50 metres from an accessible ent (buildings >500m²).
2	Provide level landing areas (1:40 max, gradient and crossfall) at doorway circulation areas and landings for changes in direction.
3	A doorway on an accessway shall achieve a minimum 850mm clear opening widand be provided with circulation spaces in accordance with Clause 13 of AS1428. 2009.
4	Any doorways on an accessway shall comply with Clause 13 of A\$1428.1-2009.
5	Any stairways at the building entry shall comply with Clause 11 of AS1428.1-2009.
6	Any ramps at the building entry shall comply with Clause 10 of AS1428.1-2009.
	PATHS OF TRAVEL
1	Provide 1000mm min. width of path of travel compliant with A\$1428.1-2009.
2	An accessway shall be provided with turning spaces in accordance with AS1428. 2009 where required.
3	Floor finishes shall be in accordance with AS1428.1-2009. Reference is also made BCA Clause D2.14 in regards slip resistance.
4	Any doorways on an accessway shall comply with Clause 13 of AS1428.1-2009.
5	Any stairways (except a fire-isolated stairway) shall comply with Clause 11 AS1428.1-2009.
6	A fire-isolated stairway shall comply with Clause 11.1 (f) and (g) of A\$1428.1-200 relating to the provision of luminance contrasting strip at each tread.
7	Any ramps (except a fire-isolated ramp) shall comply with Clause 10 of AS1428. 2009.
8	Any stairways or ramps in an area required to be accessible shall be provided wi handrails compliant with Clause 12 of AS1428.1-2009.
	ACCESSIBLE PARKING
1	Accessible parking spaces shall comply with AS/NZS2890.6:2009.
2	1 accessible parking space for every 100 car parking spaces or part thereof required in a car parking area associated with a Class 9b school building.



	ACCESSIBLE PARKING
4	Vertical clearance leading to the accessible parking spaces shall be not less than 2200mm.
5	Vertical clearance at the accessible parking spaces and associated shared areas shall be not less than 2500mm.
	SIGNAGE
1	<ul> <li>Braille and tactile signage will be required to:</li> <li>a. Identify each sanitary facility, including an accessible sanitary facility and a sanitary compartment suitable for people with ambulant disabilities;</li> <li>b. Identify each space provided with hearing augmentation;</li> <li>c. Within each space provided with hearing augmentation;</li> <li>d. Identify each door required by BCA Clause E4.5 to be provided with an exit sign;</li> <li>e. Identify a sanitary compartment suitable for people with ambulant disabilities;</li> <li>f. At entry doors to airlocks containing either accessible and/or ambulant WCs, identifying each facility provided within.</li> </ul>
2	Braille and tactile directional signage will be required at:  a. A non-accessible pedestrian entrance to direct a person to the nearest accessible entrance;  b. A sanitary bank which is not provided with an accessible sanitary facility to
	direct a person to the nearest accessible sanitary facility.
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.
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).
	HEARING AUGMENTATION
	Provide hearing augmentation in the following areas if an inbuilt amplification system
1	is installed (except one used for emergency warning systems only):  (i) Rooms in Class 9 buildings;  (ii) Auditoriums, conference and meeting rooms, judicatory, and;  (iii) Service counters screened to the public (e.g. reception, ticket/teller booths).
2	<ul><li>(i) Rooms in Class 9 buildings;</li><li>(ii) Auditoriums, conference and meeting rooms, judicatory, and;</li></ul>
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	SWIMMING POOL
	(i) a fixed or movable ramp and an aquatic wheelchair; or
	<ul><li>(ii) a zero-depth entry at a maximum gradient of 1:14 and an aquatic wheelchair;</li><li>or</li></ul>
	<ul><li>(iii) a platform swimming pool lift and an aquatic wheelchair; or</li><li>(iv) a sling-style swimming pool lift.</li></ul>
3	Where a swimming pool has a perimeter of more than 70 m in length, at least one accessible water entry/exit must be provided by a means specified above in (i), (ii) or (iii).
4	Latching devices on gates and doors forming part of a swimming pool safety barrier need not comply with AS 1428.1-2009.
	RAMPS
1	A series of connected ramps must not have a combined vertical rise of more than 3.6 meters.
2	A landing for a step ramp must not overlap a landing for another step ramp or ramp.
	CLATING ON AN ACCESSWAY
	GLAZING ON AN ACCESSWAY
1	On an accessway, where there is no chair rail, handrail or transom, all frameless or fully glazed doors, sidelights and any glazing capable of being mistaken for a doorway or opening, must be clearly marked in accordance with AS 1428.1.
	PASSENGER LIFTS
1	Any passenger lift proposed shall be in accordance with one of the types identified in BCA Table E3.6a.
2	Any passenger lift proposed shall have accessible features in accordance with BCA Table E3.6b.
3	Any passenger lift shall not rely on a constant pressure device for its operation if the lift car is fully enclosed.
4	The lift floor dimensions shall be not less than 1400mm wide x 1600mm deep (lift travels $>$ 12m).
	ACCESSIBLE SANITARY FACILITIES
1	The internal dimensions and locations of fixtures and fittings shall comply with Clause 15 of A\$1428.1-2009.
2	The required circulation spaces associated with toilet pan, washbasin, shower and door are allowed to overlap.
3	The circulation spaces within the accessible sanitary facility shall be in accordance with the requirements of A\$1428.1-2009.
4	The washbasin may encroach into the circulation space associated with the door, subject to a minimum 300mm from the swing of the door being achieved (hinged door).
5	An accessible unisex sanitary facility must be located so it can be entered without crossing an area reserved for one sex only.
6	Where two or more of each type of accessible unisex sanitary facility are provided, there shall be a balance between RH and LH facilities.
7	Where showers are required by Clause F2.3, accessible showers shall be provided at a rate of not less than 1 for every 10 showers or part thereof.
	SANITARY COMPARTMENTS FOR PEOPLE WITH AMBULANT DISABILITIES
1	At each bank of toilets where there is one or more toilets in addition to an accessible unisex sanitary compartment, a sanitary compartment suitable for a person with an ambulant disability must be provided for use by males and females.



#### SANITARY COMPARTMENTS FOR PEOPLE WITH AMBULANT DISABILITIES

The internal dimensions and locations of fixtures and fittings shall comply with Clause 16 of AS1428.1-2009.

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