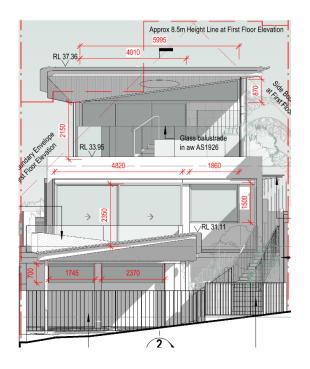


BCA & ACCESS 2019 INDICATIVE COMPLIANCE REPORT FOR DA LODGEMENT

40 Griffin Road,

North Curl Curl NSW 2099



Prepared for: Project No.: Date: Status:

Amanda & Wayne Bidder PRO-04342-H6H3 3/12/2019 Report Issue v1.0



Table of Contents

Doc	UMENT HISTORY	3					
1.0.	INTRODUCTION	4					
1.1.	LOCATION AND DESCRIPTION	4					
1.2.	REPORT PURPOSE	4					
1.3.	BASIS OF REPORT						
1.4.	REFERENCED DOCUMENTS	5					
1.5.	LIMITATIONS AND EXCLUSIONS	5					
	LEGISLATIVE FRAMEWORK						
	TERMINOLOGY						
2.0.	BUILDING DESCRIPTION – PROPOSED DEVELOPMENT						
	Building Code of Australia Description						
	RISE IN STOREYS (RIS) (CLAUSE C1.2)						
	BUILDING CLASSIFICATIONS (PART A6)						
	EFFECTIVE HEIGHT (SCHEDULE 3)						
	TYPE OF CONSTRUCTION (TABLE C1.1)						
	FLOOR AREA AND VOLUME LIMITATIONS (TABLE C2.2)						
	FIRE PROTECTION AND STRUCTURAL CAPACITY (CLAUSE 143)						
	FIRE BRIGADE REFERRAL (CLAUSE 144)						
3.0.							
	BCA 2019 CLAUSE BY CLAUSE ASSESSMENT						
	- Structural Provisions						
	– Fire Resistance and Stability – Compartmentation and Separation						
	– Protection of Openings						
	ation C1.1–Fire-Resisting Construction						
	– Provision for Escape						
	– Construction of Exits – Access for People with Disabilities						
	– Access for People with Disabilities						
	– Smoke Hazard Management						
	– Lift Installations						
	– Emergency Lighting, Exit Signs and Warning Systems						
	– Damp and Weatherproofing						
	– Sanitary and Other Facilities – Room Sizes						
	– Light and Ventilation						
	– Sound Transmission and Insulation						
Part F6	– Condensation management	. 66					
	– Minor Structures and Components						
	- Heating appliances, fireplaces, chimneys and flues						
	– Atrium construction – Minor Structures and Components						
	– Minor Structures and Components – Construction in bushfire prone areas						



69
69
70
71
72
72
74

Document History

Date	Issue	Status	Prepared by	Assessed by	Reviewed by
27/11/2019	Draft Report v0.1	Initial document created	Kallan Baker	Joseph Bond	Mardiros Tatian
03/12/2019	Report Issue v1.0	Report issued to client	Kallan Baker	Joseph Bond	Mardiros Tatian



1.0. INTRODUCTION

1.1. Location and Description

This report is prepared in preparation of a Development Application (DA) lodgement and is for assessment purposes, it comprises a National Building Code of Australia 2019 (NBCA) assessment of the proposed residential flat building as required under Clause 145 of the Environmental Planning and Assessment Regulations.

The development incorporates the additions and alterations to the existing structures for construction of a three (3) storey building comprising of two (2) residential apartments and associated parking spaces located within the Basement Floor Level.



Figure 1 Site location and topography

1.2. Report Purpose

The purpose of this report is to provide an indicative compliance assessment of the DA design documentation for the proposal, against the current requirements of the BCA.

Demonstrating compliance with the BCA is not a prescribed head of consideration under Section 4.15 (formally Section 79C) of the Environmental Planning & Assessment Act 1979. It is noted however that Council has an obligation to consider whether the DA proposal, as lodged, is indicatively capable of complying with the BCA - without significant modification to those plans for which approval is sought.

This report will demonstrate that there will be no additional requirements, resulting from prescribed application of the BCA, for any significant design changes that would necessitate the submission of an application under Section 4.55 (formally Section 96) of the Environmental Planning and Assessment Act 1979.

As such, and to pre-empt the Certifying Authority's role under clause 145 of the Environmental Planning & Assessment Regulation 2000, we have undertaken a preliminary assessment of the development against the provisions of the BCA applicable to the lodged Development Application.



1.3. Basis of Report

This report is based upon and limited to:

- An assessment of design documentation referenced in Appendix B of this report.
- The Deemed-to-Satisfy provisions of the National Building Code of Australia 2019 including the NSW variations where applicable.

1.4. Referenced Documents

The following documentation was relied upon when preparing this report:

- Assessment of design documentation referenced in Appendix B of this report.
- The performance and deemed-to-satisfy provisions of the National Building Code of Australia 2019 incorporating the NSW Appendices where applicable.
- Guide to the National Building Code of Australia.
- Disability (Access to Premises Buildings) Standards 2010.
- Environmental Planning & Assessment Act 1979.
- Environmental Planning & Assessment Regulation 2000.

1.5. Limitations and Exclusions

The limitations and exclusions of this report are as follows:

- The plans are assessed indicatively to the extent necessary to proceed to construction certificate stage whereby assessment will be undertaken pursuant to Part 4A of the Environmental Planning and Assessment Act 1979. This means that the design has been assessed to be able to comply with the BCA (i.e. the submitted plans are consistent with the BCA but certain design details may not be specified at this stage due to the plans and specifications being at pre DA stage).
- This Report does not address issues in relation to the following:
 - a) The structural adequacy of the building including the Fire Resistance Levels (FRL's) of any building elements (unless specifically referred to).
 - b) The design, maintenance or operation electrical, mechanical, hydraulic or fire protection services.
 - c) Environmental Planning and Assessment Act and Regulations (unless specifically referred to).
 - d) Local Government Act and Regulations.
 - e) Occupational Health and Safety Act and Regulations.
 - f) WorkCover Authority requirements.
 - g) Requirements of other Regulatory Authorities including, but not limited to, Telstra, Sydney Water, Electricity Supply Authority, RTA, Council and the like.
 - h) Disability Discrimination Act (DDA) other than minimum requirements under the Disability (Access to Premises Buildings) Standards 2010. DDA is a Case by Case Assessment, this building will comply with the set items under the Premises Standards.
 - i) Construction Safety Act.
 - j) Conditions of Development Consent issued by the relevant Local Council.
- This assessment does not incorporate the detailed requirements of the Australian Standards.



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1.6. Legislative Framework

Section 4.15 (formally Section 79C) of the Environmental Planning and Assessment Act provides the matters of consideration that the consent authority must take into account in the determination of a development application.

Once development consent is granted, and pursuant to Clause 145 of the Environmental Planning and Assessment Regulations 2000, a certifying authority must not issue a construction certificate for building work unless:

- (a1) the plans and specifications for the building include such matters as each relevant BASIX certificate requires, and
- (a) the design and construction of the building (as depicted in the plans and specifications and as described in any other information furnished to the certifying authority under clause 140) are not inconsistent with the development consent, and
- (b) the proposed building (not being a temporary building) will comply with the relevant requirements of the Building Code of Australia (as in force at the time the application for the construction certificate was made).

Compliance with the National Building Code of Australia

The BCA is a performance based document whereby compliance can be achieved by satisfying the deemed to satisfy requirements or by formulating a performance solution to address the relevant performance requirements.

As indicated above, the requirements of the Environmental Planning and Assessment Regulations 2000 requires all new building works to comply with the relevant requirements of the BCA (as in force at the time the application for the construction certificate was made).

This means that the plans and documentation submitted with the *construction certificate* (CC) application must demonstrate full compliance with the relevant provisions of the Building Code of Australia.



Clause 143 Fire protection and structural capacity

If your development incorporates a Change of Use, Category 1 fire safety measures must be considered and implemented in to the design as applicable:

- EP1.3: A fire hydrant system
- EP1.4: An automatic fire suppression system
- *EP1.6:* Suitable facilities must be provided to the degree necessary in a building to coordinate fire brigade intervention
- EP2.1: Sleeping Accommodation, occupants must be provided with automatic warning
- *EP2.2:* Conditions in any evacuation route must be maintained for the period of time occupants take to evacuate
- EP3.2: One or more passenger lifts fitted as emergency lifts to serve each floor served by the lifts in a building must be installed to facilitate the activities of the fire brigade and other emergency services personnel

Details of the above will need to be identified on the Building Fire Safety Schedule/Statement as present, if not present; these measures will need to be installed in to the building if applicable.

<u>Clause 144, 144A and 152 Referral of certain plans and specifications to New South</u> <u>Wales Fire Brigades</u>

Under the Environmental Planning and Assessment Regulations Clause 144, Clause 144A has specific requirements for any Fire Engineering which identifies Category 2 fire safety provisions which form part of a building being more than 6,000m² and/or within a Fire Compartment more than 2,000m².

Category 2 means the following provisions of the Building Code of Australia, namely, CP9, EP1.3, EP1.4, EP1.6, EP2.2 and EP3.2 in Volume One of that Code

If this building has a floor area of more than 6,000m² or a performance solution is proposed within a fire compartment more than 2,000m², any Performance Solution which identifies one or more of the above performance provisions, Fire Brigade approval is required in the form of a Clause 144 Approval along with a required Engineering Statement under Clause 144A and following the completion of the building a Clause 152 Report from the Fire Commissioner is required, a final fire safety report for a building means a written report specifying whether or not the Fire Commissioner is satisfied:

(a) that the building complies with the Category 2 fire safety provisions, and

(b) that the fire hydrants in the fire hydrant system will be accessible for use by New South Wales Fire Brigades, and

(c) that the couplings in the fire hydrant system will be compatible with those of the fire appliances and equipment used by New South Wales Fire Brigades.



Fulfilment of BASIX Commitments (Residential only)

Clause 154A of the Environmental Planning and Assessment Regulations 2000 requires a certifying authority to monitor fulfilment of any commitments listed on the BASIX certificate, where the BASIX requires the certifying authority to monitor those commitments.

A certifying authority must not issue an occupation certificate (whether interim or final) for any building resulting from, or any building that becomes a BASIX affected building because of, BASIX affected development or BASIX optional development to which this clause applies, or for any part of such a building, unless each of the commitments whose fulfilment it is required to monitor in relation to the building or part has been fulfilled.

For the purpose of satisfying itself as to the fulfilment of any such commitment, a certifying authority may rely on the advice of any properly qualified person (i.e. Energy Efficiency Consultant).

Special Requirements for Residential Flat Developments

Clause 143A of the Environmental Planning and Assessment Regulations 2000 requires a qualified designer to provide a statement that verifies that the plans and specifications that form part of construction certificate application achieve or improve the design quality of the development having regard to the design quality principles set out in Part 2 of the State Environmental Planning Policy No. 65 – Design Quality of Residential Flat Development prior to the issue of a Construction Certificate.

Clause 154A of the Environmental Planning and Assessment Regulations 2000 requires a qualified designer to provide a statement that verifies that the residential flat development achieves the design quality of the development as shown in the plans and specifications having regard to the design quality principles set out in Part 2 of the State Environmental Planning Policy No. 65 – Design Quality of Residential Flat Development prior to the issue of an Occupation Certificate.

Disability (Access to Premises — Buildings) Standards 2010

Disability (Access to Premises — Buildings) Standards 2010 has been introduced and is applicable to this building. It is noted that unless Part D3, Clauses E3.6, F2.2 & F2.4 are included in the below assessment, an access consultant may need to be engaged to provide specific comments as to compliance with this standard. Note that except for slight variations, particularly for Class 1b buildings, available verification methods and adult change facilities, as this is a new building to BCA 2019, compliance with the Disability (Access to Premises — Buildings) Standards 2010 would inherently comply.



1.7. Terminology

- Building Code of Australia Document published on behalf of the Australian Building Codes Board. The BCA is a uniform set of technical provisions for the design and construction of buildings and other structures throughout Australia and is adopted in NSW under the provisions of the Environmental Planning & Assessment Act & Regulation.
- *Fire Resistance Level (FRL)* means the grading periods in minutes tested in accordance with AS 1530.4-2005 for the following criteria -
 - (a) structural adequacy; and
 - (b) integrity; and
 - (c) insulation,

and expressed in that order.

- *Fire Source Feature (FSF)* the far boundary of a road adjoining the allotment; or a side or rear boundary of the allotment; or an external wall of another building on the allotment which is not a Class 10 building.
- *Open space* means a space on the allotment, or a roof or other part of the building suitably protected from fire, open to the sky and connected directly with a public road.
- Performance Requirements of the BCA A Building Solution will comply with the BCA if it satisfies the Performance Requirements. A Performance requirement states the level of performance that a Building Solution must achieve.

Compliance with the Performance Requirements can only be achieved by-

- (a) complying with the Deemed-to-Satisfy Provisions; or
- (b) formulating a Performance Solution which-
 - (i) complies with the Performance Requirements; or
 - (ii) is shown to be at least equivalent to the Deemed-to-Satisfy Provisions; or
- (c) a combination of (a) and (b).
- Sole occupancy unit means a room or other part of a building for occupation by one or joint owner, lessee, tenant, or other occupier to the exclusion of any other owner, lessee, tenant, or other occupier.



2.0. BUILDING DESCRIPTION – PROPOSED DEVELOPMENT

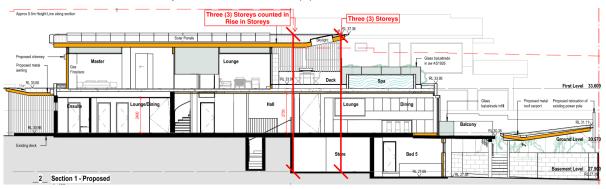
2.1. Building Code of Australia Description

For the purposes of the Building Code of Australia 2019 (BCA) the proposed development may be described as follows.

2.2. Rise in Storeys (RIS) (Clause C1.2)

The overall building has a rise in storeys of three (3) as illustrated below;

The number of storeys contained is three (3)



2.3. Building Classifications (Part A6)

The proposed building has been classified as follows.

BUILDING LEVELS	PLAN LEVELS	CLASSIFICATION	USE	RIS
Basement Floor	Basement Plan	Class 2 & 7a	Residential & Carpark	1
Ground Floor	Ground Floor Plan	Class 2 & 10b	Residential & Swimming Pool (Out of Scope)	2
First Floor	First Floor Plan	Class 2	Residential	3
Roof	Roof Plan	-	-	-

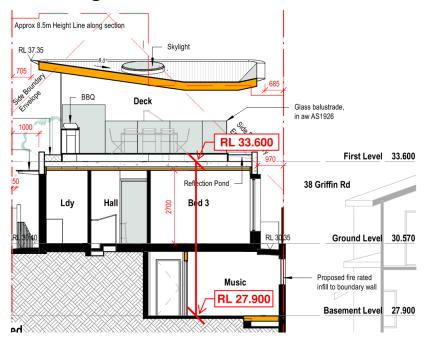


2.4. Effective Height (Schedule 3)

The building has an effective height (EH) of approximately **5.70m** when measured from the floor of the topmost storey which is less than 12m.

*Lowest Point taken @ RL 27.90 (Approx.)

*Highest Point taken @ RL 33.60



2.5. Type of Construction (Table C1.1)

The building is required to be of **Type 'A'** Construction.

2.6. Floor Area and Volume Limitations (Table C2.2)

The building is subject to maximum floor area and volume limits under Type 'A' Construction of:

	FLOOR AREA & VOLUME		
CLASS OF BUILDING PART	MAX PERMITTED (TABLE C2.2)	MAX. PROPOSED	Оитсоме
 Class 7a 	5,000 m²	< 5,000 m²	Complies
	30,000 m ³	< 30,000 m ³	Complies

*Class 7a is exempt from Table C2.2 Floor Area restrictions if Carpark is proposed to be Sprinkler Protected pursuant to Clause E1.5.

The Class 2 portions of the building are not subject to any floor area and volume limitations of C2.2 of the BCA. Table 3 of Specification C1.1 and C3.11 of the BCA regulate compartmentalisation and separation provisions applicable to Class 2 buildings or building portions.



2.7. Fire protection and structural capacity (Clause 143)

If your development incorporates a Change of Use, Category 1 fire safety measures must be considered and implemented into the design as applicable.

- EP1.3: A fire hydrant system (required)
- EP1.4: An automatic fire suppression system
- *EP1.6:* Suitable facilities must be provided to the degree necessary in a building to co-ordinate fire brigade intervention
- *EP2.1:* Sleeping Accommodation, occupants must be provided with automatic warning
- *EP2.2:* Conditions in any evacuation route must be maintained for the period of time occupants take to evacuate
- EP3.2: One or more passenger lifts fitted as emergency lifts to serve each floor served by the lifts in a building must be installed to facilitate the activities of the fire brigade and other emergency services personnel

2.8. Fire Brigade referral (Clause 144)

If this building requires Fire Engineering referral would need to be forwarded to the NSW Fire Brigades under a Clause 144 referral.



3.0. BCA REQUIREMENTS

Noting that the level of documentation at this stage is for a Development Application (DA) assessment purposes, an indicative compliance assessment of the referenced documents identified in Appendix B of this report has been undertaken against the Deemed-to-Satisfy Provisions of the National Building Code of Australia 2019 (BCA).

Outlined below is a summary of the Deemed-to-Satisfy Provisions of the BCA. All Deemed-to-Satisfy clauses that are applicable to the subject building have been referred to below, including a comment adjacent to each clause of the proposal's ability to satisfy each respective clause.

The abbreviations outlined below have been used in the following tables:

- N / A The Deemed-to-Satisfy clause does not apply to the subject Building.
- Complies The relevant provisions of the Deemed-to-Satisfy clause have been demonstrated by the proposed design and existing building features, notwithstanding it is at DA documentation stage.
- CRA 'Compliance Readily Achievable'. It is considered that the level of detail included in the DA documentation will not determine strict compliance with the individual BCA clause requirements. However, subject to noting the requirements of each clause, it is considered BCA compliance can be readily demonstrated without significant implication to the approved design. This will occur through progression of documentation to the Construction Certificate stage of the development.
- FI Further information is necessary to determine the compliance potential of the building design.
- PS Performance Solution with respect to this Deemed-to-Satisfy Provision is possible to satisfy the relevant BCA Performance Requirements.
- DNC Does Not Comply.
- DTS Deemed-To-Satisfy provisions as defined by the National Building Code of Australia 2019.



3.1. BCA 2019 Clause by Clause Assessment

SECTION B – STRUCTURE

Part B1 -	Part B1 – Structural Provisions				
Clause	Description	Status	Comments		
B1.1	Resistance to actions	CRA	The resistance of a building or structure must be greater than the most critical action effect resulting from different combinations of actions.		
			Structural details and a design certificate will be obtained from a qualified structural engineer prior to the issue of a Construction Certificate.		
B1.2	Determination of individual actions	CRA	The magnitude of individual actions must be determined in accordance with Clause B1.2 of the BCA.		
			Structural details and a design certificate will be obtained from a qualified structural engineer prior to the issue of a Construction Certificate.		
B1.3	-	-	No Provisions.		
B1.4	B1.4 Determination of CRA structural resistance of		The structural resistance of materials and forms of construction must be determined in accordance with the relevant Australian Standards in accordance with Clause B1.4 of the BCA.		
	materials and forms of construction		Structural details and a design certificate will be required by a qualified structural engineer prior to the issue of a Construction Certificate.		
B1.5	Structural Software	Noted			
B1.6	Construction of building in flood hazard areas	Noted			

SECTION C – FIRE RESISTANCE

Part C1 -	Part C1 – Fire Resistance and Stability				
Clause	Description	Status Comments			
	Type of construction required	CRA	The building is to be erected in Type 'A' fire resisting construction in accordance with Specification C1.1 of the BCA.		
			Refer to 'Appendix' A for the relevant fire resisting requirements. Plans to reflect required FRLs prior to the issue of a Construction Certificate.		
C1.2	Calculation of rise in storeys	Noted	The building has an overall rise in storeys of three (3) The building contains three (3) storeys.		



Part C1 -	Part C1 – Fire Resistance and Stability					
Clause	Description	Status	Comments			
C1.3	Buildings of multiple classification	Noted	The building is required to be c construction as the classification	constructed of Type 'A' fire resisting of the top storey is a Class 2.		
C1.4	Mixed types of Construction	Noted	If a fire wall divides the building in accordance with Clause C2.7, the building portions are able to be constructed in differing levels of fire-resistance determined in accordance with Clause C1.1 and C1.3.			
C1.5	Two storey Class 2, 3 or 9c buildings	N / A				
C1.6	Class 4 parts of buildings	N / A				
C1.7	Open spectator stands and indoor sports stadiums	N / A				
C1.8	Lightweight construction	CRA	Lightweight construction used i Specification C1.8.	n a wall system must comply with		
				column or the like, and where the with the column must have the v	s a fire-resisting covering of a steel covering is not in continuous contact oids filled to a height of not less than the column is liable to be damaged er suitable material.	
				d in the proposed development, then RL and compliance with this clause le of a Construction Certificate.		
C1.9	Non-combustible building elements	CRA		e A construction, the following building must be non-combustible, concrete,		
			Building Element	Type A Construction		
			External wall	Non-combustible		
			Common wall	Non-combustible		
			Floor and floor framing of lift pit	Non-combustible		
			All loadbearing internal walls (including shaft walls)	Concrete, masonry or fire-protected timber		
			Loadbearing fire walls	Concrete, masonry or fire-protected timber		
			Non-loadbearing internal walls required to be fire-resistant	Non-combustible		
			Non-loadbearing lift, ventilating, pipe, garbage and like shafts which do not discharge hot products of combustion	Non-combustible		



Clause	Description	Status	Comments
			Attachments
			Proposed attachments are to comply with the requirements of C1.9 and C1.14 of the BCA as applicable: Toof State of subject Toof Spa RL 33.95 RL 33.95
C1.10	Fire hazard properties	CRA	The fire hazard properties of all floor materials, floor coverings, wall and ceiling lining materials must comply with Specification C1.10. The fire hazard properties of all other materials must comply with Specification C1.10. Design certification will be required verifying compliance prior to the issue of a Construction Certificate.
C1.11	Performance of external walls in fire	N / A	Concrete external walls that could collapse as complete panels (e.g. tilt- up and pre-cast concrete), in a building having a rise in storeys of not more than 2, must comply with Specification C1.11.
C1.12	-	-	No provisions
C1.13	Fire-protected timber: Concession	N / A	
C1.14	Ancillary elements	CRA	An ancillary element must not be fixed, installed or attached to the internal parts or external face of an external wall that is required to be non-combustible unless it is determined to meet certain fire properties and limitations on the extent of coverage. Design certification will be required verifying compliance prior to the issue of a Construction Certificate.



Part C2 –	Part C2 – Compartmentation and Separation				
Clause	Description	Status	Comments		
C2.1	Application of Part	Noted	Clauses C2.2, C2.3 and C2.4 do not apply to a sprinkler protected carpark, open deck carpark or open spectator stand.		
C2.2	General floor area limitations	Complies	All parts of the building comply and are within compartment limitations.		
C2.3	Large isolated buildings	N / A			
C2.4	Requirements for open spaces and vehicular access	N / A			
C2.5	Class 9a and 9c buildings	N / A			
C2.6	Vertical separation of openings in external walls	CRA or PS	In a building of Type 'A' construction that is not sprinkler protected (or provided with a FPAA101D or FPAA101H system), a spandrel must be provided. The spandrel must be not less than 900mm in height, extended not less than 600mm above the upper surface of the intervening floor and be of non-combustible material having an FRL of not less than 60/60/60.		
			Alternatively, a slab or other horizontal construction that projects outwards not less than 1100mm and extends 450mm beyond the opening and be of non-combustible material having an FRL of not less than 60/60/60.		
			Vertical Spandrels		
			Numerous vertical spandrels throughout the building may not extend 900m in height and 600m above the upper surface of the intervening floor. All openings with the following configuration shall be checked and adjusted to ensure they comply with the requirements of this Clause.		
			Horizontal Spandrels		
			Horizontal spandrels throughout the building appear to extend 450mm along the wall and appear to extend 1100mm past the openings.		
			Compliance can be achieved by a slight redesign or alternatively via undertaking a fire engineering performance solution prior to the issue of the Construction Certificate.		
			Designer to confirm compliance of all vertical and horizontal spandrels prior to the issue of the Construction Certificate.		



Part C2 -	Part C2 – Compartmentation and Separation				
Clause	Description	Status	Comments		
C2.7	Separation by fire walls	CRA	If a fire walls is used to separate the basement floor residential SOU from the Class 7a carpark areas of the building, the fire walls are to achieve the FRLs required under Table 3 and Table 3.9 (if the car park is sprinkler protected) of Specification C1.1 of the BCA.		
			Any openings within the fire wall must not reduce the FRL of the fire wall required by Specification C1.1, except when permitted by the DTS provisions of Part C3.		
			All doors in the fire walls must comply with Clause C3.5 of the BCA.		
			Refer to 'Appendix' A for the relevant fire resisting requirements. Plans to reflect required FRLs prior to the issue of a Construction Certificate.		
	ed .4		RL 28.87 RL Bin Proposed Proposed Gate & fei Standard Parking Standard Parking Space in aw AS2890.1 Standard Parking Space in aw AS280.1 Standard Parking Space in aw AS280.1 Carport		
C2.8	Separation of classifications in the same storey	CRA	 The basement level carpark may be separated from the residential areas using either of the following methods which include: All building elements of the basement floor level are to be constructed using the higher FRL presubscribed in Specification C1.1 of the BCA for the Class 7a carpark or The relevant parts must be separated in that storey by a fire wall having the higher FRL prescribed in Table 3 of Specification C1.1 or Refer to 'Appendix' A for the relevant fire resisting requirements. Plans to reflect required FRLs prior to the issue of a Construction Certificate. 		
C2.9	Separation of classifications in	CRA	The floor slab separating the different storeys require an FRL of:		
	different storeys		 Basement/ground floor FRL to be determined at CC stage; and Ground/first floor FRL 90/90/90. 		
			Note: Floors within the same Class 2 SOU are not required to achieve an FRL as specified in Specification C1.1 of the BCA.		
			Refer to 'Appendix' A for the relevant fire resisting requirements. Plans to reflect required FRLs prior to the issue of a Construction Certificate.		



Part C2 – Compartmentation and Separation				
Clause	Description	Status	Comments	
Proposed n awring number RL3 Existing dec		Sour Panels	sige R, 33 36 First Level 33.60 Hall Counge Dining Balcony R, 38 40 Store FRL to be determined a CC Stage R, 255 RL 275 RL 275	
C2.10	Separation of lift shafts	N / A	No lift is proposed in the current design.	
C2.11	Stairways and lifts in one shaft	Complies	A stairway and lift must not be in the same shaft if either the stairway or the lift is required to be in a fire-resisting shaft.	
			No lift is proposed so separation complies.	
C2.12	Separation of equipment	CRA	Equipment that comprises lift motors, lift control panels, central smoke control plant, boilers or certain battery systems must be separated from the remainder of the building by construction with an FRL as required under Specification C1.1 but not less than 120/120/120 and any doorways in that construction protected with a self-closing –/120/30 fire door. Design certification will be required verifying compliance prior to the issue of a Construction Certificate.	
 A o E tr 	door opening to a road pen space; and xcept where the building	or open space g is sprinkler pl	hat an internal pumproom located within the building shall have the following: e, or a door opening to fire-isolated passage or stair which leads to a road or rotected in accordance with AS 2118.1, enclosing walls with an FRL not less firewall for the particular building classifications served by the fire hydrant	
C2.13	Electricity supply system	CRA	 The following electricity supply equipment: electrical substation (TBA) main switchboard which sustains emergency equipment operating in emergency mode (TBA) electricity conductors which supply substation or main switchboard (TBA) Must be separated from the remainder of the building by construction with an FRL of not less than 120/120/120 and any doorways in that construction protected with a self-closing –/120/30 fire door. Final details verifying compliance can be provided on plans prior to the issue of a Construction Certificate. 	



Part C2 – Compartmentation and Separation			
Clause	Description	Status	Comments
C2.14	Public corridors in Class 2 and 3 buildings	N / A	

Part C3 – Protection of Openings			
Clause	Description	Status	Comments
C3.1	Application of Part	Noted	Concessions and definition of certain openings.
C3.2	Protection of openings in external walls	CRA or PS	Openings within 3m of an allotment boundary shall be protected by sprinklers, fire doors, fire windows etc, in accordance with Clause C3.4 of the BCA or via means of a fire engineering performance solution.

The following external wall openings are located within 3m of the side allotment boundaries:

Basement Floor

- The eastern facing external wall openings of Bed 5 of Unit 1; and
- The southern external wall openings of Bed 4, bath and music rooms of Unit 1.



Ground Floor

- The northern facing external wall openings of the laundry, linen, bath, kitchen and entry door of Unit 1;
- The northern facing external wall openings of the master bed, bath and entry door of Unit 2;
- The eastern facing external wall openings of the dining and kitchen of Unit 1;
- The western facing external wall opening of the kitchen of Unit 2;
- The southern facing external wall openings of Bed 2, Bed 3, Ensuite 3 and Lounge room of Unit 1; and
- The southern external wall openings of the kitchen and dining room of Unit 2.





Part C3 –	Part C3 – Protection of Openings			
Clause	Description	Status	Comments	
• T	he northern facing exte he eastern facing loung	ge room of Un	ning of the main stairway of Unit 1; iit 1; and nings of the Master bed, ensuite, study and lounge rooms of Unit 1.	
Side Setback CC Chimroy Io external wall Colored Side Setback DC	B B	gg 5035 1 1 2 1	htmp://br.stan.inal Planter Bed V Planter B	
			e with Clause C3.4 and Spec C3.4 of the BCA or alternatively a fire ertaken prior to the issue of the Construction Certificate.	
C3.3	Separation of external walls and associated openings in different fire compartments	Noted	If fire walls are provided, refer to 'Appendix' A for the relevant fire resisting requirements of the fire wall. Plans to reflect required FRLs and location of fire walls (if any are proposed) prior to the issue of a Construction Certificate.	
C3.4	Acceptable method of protection	CRA or PS	Window openings that are required to be protected are to be protected by wall wetting sprinklers with windows that are automatic closing or permanently fixed in the closed position,/60/ fire windows or/60/60 automatic fire shutters.	
			Other openings that required to be protected are to be protected by internal or external wall-wetting sprinklers or have construction with an FRL not less than/60/	
			Alternatively a fire engineering performance solution can be undertaken to achieve compliance with the performance requirements of the BCA.	
			Plans to reflect required FRLs and location of openings protected in accordance with Clause C3.4 of the BCA prior to the issue of a Construction Certificate.	
C3.5	Doorways in fire walls	Noted		
C3.6	Sliding fire doors	N / A		
C3.7	Protection of doorways in horizontal exits	Noted		



Clause	Description	Status	Comments
C3.8	Openings in fire isolated exits	Noted	No fire isolated exits proposed in the current design.
C3.9	Service penetrations in fire isolated exits	Noted	No fire isolated exits proposed in the current design.
C3.10	Openings in fire isolated lift shafts	N / A	No lift proposed in the current design.
C3.11	Bounding construction: Class 2, 3, and 4 buildings	CRA	As this building is Type 'A 'construction, doorways of the Class 2 residential sole occupancy units which open into the enclosed common corridors or the like are to be fitted with self-closing FRL –/60/30 fire doors.
buildings	buildings		Additionally, in a Class 2 building where a path of travel to an exit does not provide a person seeking egress with a choice of travel in different directions to alternative exits and is along an open balcony, landing or the like and passes an external wall of another sole-occupancy unit or a room not within a sole-occupancy unit, then that external wall must have any windows or other openings located at least 1.5 m above the floor of the balcony, landing or the like or protected internally in accordance with C3.4.
			Please also note 2 points:
			1: Walls within Class 2 and 3 buildings require Sound Ratings under F5. SOU doors are to incorporate an assembly which as an Rw not less than 30 from common areas.
			2: The SOU doors however still need to transmit at least 85 or 100 dB(A) depending on the alarms system selected under Spec E2.2a Clause 6, as part of the Building Occupant Warning System. Occupants within the unit need to hear the buildings alarm system.
C3.12	Openings in floors for services	CRA	Services passing through floors are to be placed within fire resisting shafts or in accordance with Clause C3.15.
			Details verifying compliance must be provided on plans prior to the issue of a Construction Certificate.
C3.13	Openings in shafts	CRA	In a building of Type A construction, an opening in a wall providing access to a ventilating, pipe, garbage, or other service shaft must be protected by:
			 If it is a sanitary compartment - a door or panel which together with its frame, is non-combustible or has an FRL of not less than –/30/30, or
			• A self-closing –/60/30 fire door or hopper, or
			• An access panel with an FRL of not less than –/60/30, or
			• If the shaft is a garbage shaft - a door or hopper of non-combustible construction.
			Details verifying compliance must be provided on plans prior to the issue of a Construction Certificate.



Part C3 -	Part C3 – Protection of Openings			
Clause	Description	Status	Comments	
C3.14	-	-	No provisions	
C3.15	Openings for service installation	CRA	Where services (e.g. hydraulic, mechanical, plumbing, electrical) penetrate a building element that is required to achieve an FRL with respect to integrity or insulation or a resistance to the incipient spread of fire then that installation must be protected / sealed (e.g. fire collars, fire dampers etc) by material that is identical to tested prototypes and in accordance with AS4072.1 and AS1530.4, and having achieved the required FRL or resistance to the incipient spread of fire or other specified method. Details verifying compliance must be provided on plans prior to the issue of a Construction Certificate.	
C3.16	Construction joints	CRA	Construction joints are to be installed in accordance with a tested prototype in accordance with AS1530.4. Details verifying compliance must be provided on plans prior to the issue of a Construction Certificate.	
C3.17	Columns protected with lightweight construction	CRA	Columns must be protected in accordance with the identical tested prototype. Details verifying compliance must be provided on plans prior to the issue of a Construction Certificate.	



Specifica	ation C1.1–Fire-Resist	ing Constr	uction
Clause	Description	Status	Comments
Spec C1.1	Requirements for Type A construction	CRA	Clause C1.1 requires the building to be constructed as Type A construction in accordance with Part 2, Part 3 and Table 3 of Specification C1.1 of the BCA.
			External Walls
			All load-bearing and non-load-bearing walls are required to achieve an FRL tested from both sides as stipulated by Table 3 of Specification C1.1.
			tal B I Privacy Screen I Example of subject 4180 1860 State
			Rainwater Tank
			Attachments
			All attachments are to comply with the requirements in Specification C1.1 & Clause C1.10 and meet the intent of Clause 2.4 of Spec C1.1.
			roof
			Skylight Example of subject attachments Glass balustrade in aw AS1926
			PL 33.90 Deck Spa RL 33.95
			Details verifying compliance must be provided on plans prior to the issue of a Construction Certificate.



SECTION D – ACCESS AND EGRESS

Part D1 -	Part D1 – Provision for Escape			
Clause	Description	Status	Comments	
D1.1	Application of Part	Noted	Does not apply to the internal parts of a sole occupancy unit in a Class 2, 3 or 4 building.	
D1.2	Number of exits required	Complies	Building has effective height less than 25m. Each storey is to have at least one (1) exit.	
D1.3	When fire isolated exits are required	CRA	In a Class 2 building, a required non-fire-isolated stairway is permitted if it connects, passes through or passes by not more than 3 consecutive storeys and one extra storey if it is only for the accommodation of motor vehicles or for other ancillary purposes, or the building has a sprinkler system (other than a FPAA101D system) complying with Specification E1.5 installed throughout. The stairway(s) appear to comply with the requirements of this Clause.	
			Please refer to Clause D1.7 and Clause D1.9 for further details.	
D1.4	Exit travel distances	CRA or PS	The entrance doorway of any sole-occupancy unit must be not more than 6 m from an exit or from a point from which travel in different directions to 2 exits is available or 20 m from a single exit serving the storey at the level of egress to a road or open space.	
			No point on the floor of a room which is not in a sole-occupancy unit must be more than 20 m from an exit or from a point at which travel in different directions to 2 exits is available.	
			Compliance can be achieved by a slight redesign or alternatively via a fire engineering performance solution undertaken prior to the issue of the Construction Certificate.	

Ground Floor

The following travel distances from the ground floor appear to exceed 20m from a single exit to a road or open space:

CP × RL 30 30 Master 10.9 m ² FFL 30.7 FRL 30.7 Kitchen 13.6 m ² FFL 30.57 Kitchen 12.5 m ² Kitchen 13.6 m ² FFL 30.57 Kitchen	Lounge/Dining 20.1 m ² Bed 2 11.4 m ²	Bath 2.1 m Single handhail winders, in aw Ensuite 3.7 m	xR. 30.40 Ldy Kitchen 20.5 m² VC D2.17 18.2 m² Dining 18.4 m² 17.6 m² FFL 30.57 0g Lounge 22.5 m² Kitohen 18.4 m² 18.2 m² 18.2 m² 18.2 m² 18.2 m² 18.2 m² 19.4 m² 19.4 m² 18.2 m² 18.2 m² 18.2 m² 18.2 m² 19.4 m² 19.4 m² 19.4 m² 19.4 m² 10.4 m² 19.4 m²
D1.5	Distances between alternative exits	N / A	The current design consists of single exits on all floors, so alternative exit requirements do not apply.



Part D1 -	- Provision for Escap	e	
Clause	Description	Status	Comments
D1.6	Dimensions of exits	CRA	In a required exit or path of travel, the unobstructed height throughout must be not less than 2m, except the unobstructed height of any doorway must be reduced to not less than 1980mm. The unobstructed width of each exit or path of travel to an exit except a doorway must not be less than 1m.
			The unobstructed width must be measured clear of all obstructions such as handrails, projecting parts of balustrades or other barriers and the like.
			Note: all service and common areas such as the residential bin storage room are required to be provided with a clear exit width of 1m.
			Non-Fire Isolated Stairways and Ramps
			All non- fire isolated stairways and ramps serving the building must include double handrails and tactile indicators in accordance with AS 1428.1-2009. It should be noted that the inclusion of the AS 1428.1-2009 compliant handrails to the subject stairway will reduce the unobstructed width between the handrails to less than 1m.
			Please note: Internal non-fire isolated stairs must incorporate double handrail as required under D3, stairs are to be >1.2m wide to cater for this requirement.
			Details verifying compliance must be provided on plans prior to the issue of a Construction Certificate.
D1.7	Travel via fire- isolated exits	N / A	The current design proposes no fire-isolated exits.
D1.8	External stairways in lieu of fire- isolated exits	N / A	The building design proposes no external stairways in lieu of fire- isolated exits.
D1.9	Travel by Non-fire- isolated Stairways or ramps	CRA	A required non-fire-isolated stairway or ramp must provide a continuous means of travel by its own flights and landings from every storey served to the level at which egress to a road or open space is provided.
			In a Class 2 building, the distance between the doorway of a sole- occupancy unit and a road or open space via a required non-fire- isolated stairway or ramp must not exceed 60m.
			A required non-fire-isolated stairway or ramp serving the residential parts of the building must discharge at a point not more than 15 m from a road or open space or from a fire-isolated passageway leading to a road or open space.
			A required non-fire-isolated stairway or ramp serving the carpark must discharge at a point not more than 20 m from a road or open space or from a fire-isolated passageway leading to a road or open space.
			Details verifying compliance must be provided on plans prior to the issue of a Construction Certificate.
D1.10	Discharge from exits	CRA	Suitable barriers such as bollards are to be provided to prevent the blockage of exits by vehicles, etc.



Part D1 -	Part D1 – Provision for Escape			
Clause	Description	Status	Comments	
			All external ramps that are used as a path from an exit to a road must have a gradient not steeper than 1:8 at any part.	
			Details verifying compliance must be provided on plans prior to the issue of a Construction Certificate.	
D1.11	Horizontal exits	N / A	The current design does not consist of required horizontal exits.	
D1.12	Non-required stairs, ramps or escalators	Noted		
D1.13	Number of persons accommodated	Noted		
D1.14	Measurement of distance	Noted		
D1.15	Method of measurement	Noted		
D1.16	Plant rooms and lift machine rooms: Concession	N / A		
D1.17	Access to lift pits	N / A	No lift proposed in the current design.	



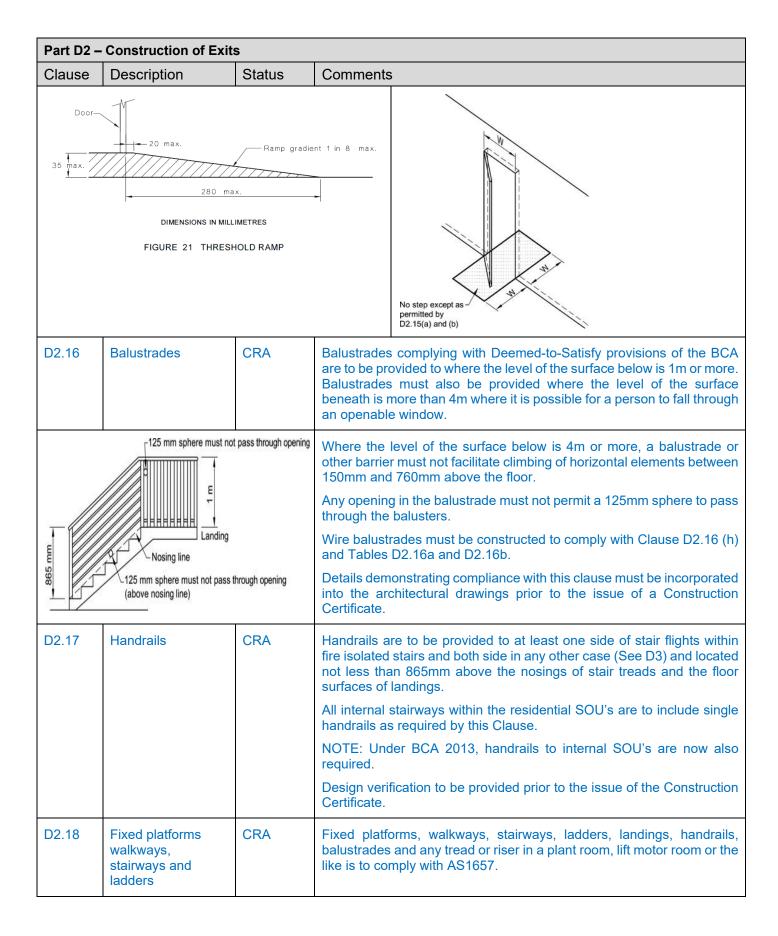
Part D2 -	Part D2 – Construction of Exits			
Clause	Description	Status	Comments	
D2.1	Application of Part	Noted		
D2.2	Fire isolated stairs or ramps	Noted	Stairway or ramps within the fire isolated shaft must be constructed on non-combustible materials and if there is a structural failure within the building, it would not cause structural damage to, or impair the fire resistance of the shaft.	
D2.3	Non-fire-isolated stairways and ramps	CRA	Required stairs that are not required to be within a fire-resting shaft are to be constructed of concrete, steel (6mm), or timber (44mm) of specified minimum dimensions. Engineering details are to be submitted with the Construction Certificate	
			Documentation.	
D2.4	Separation of rising and descending stair flights	Noted		
D2.5	Open access ramps and balconies	N / A		
D2.6	Smoke lobbies	N / A		
D2.7	Installations in exits and paths of travel	CRA	Electrical boards and the like are to be located within and enclosed by non-combustible construction or have a fire-protective covering with the doorway suitably sealed against smoke spreading from the enclosure.	
			Design verification is to be provided prior to the issue of the Construction Certificate.	
D2.8	Enclosure of space under stairs and ramps	CRA	The space below required fire-isolated stairs must not be enclosed to form a cupboard or similar enclosed space. The space below required non-fire-isolated stairs must not be enclosed unless the enclosing walls have an FRL of not less than 60/60/60 and any doorway to the enclosed space is fitted with a self-closing –/60/30 fire door.	
			Design verification is to be provided prior to the issue of the Construction Certificate.	
D2.9	Width of stairways	Noted	Stairway width is to be measured clear of obstructions such as handrails, projecting parts of balustrades or other barriers and the like and extend to a height of not less than 2m.	
D2.10	Pedestrian ramps	CRA	Ramps serving as a required exit must not have a gradient steeper than 1:8. If the ramp is required for disabled access under Part D3 it must comply with AS1428.1. The surface of the ramp must have a non-slip finish.	
			Note: The floor surface of a ramp must have a slip-resistance classification not less than that listed in Table D2.14 of the BCA when tested in accordance with AS 4586-2013.	
D2.11	Fire-isolated passageways	N / A	No fire isolated passageways proposed in the current design.	



Clause	Description	Status	Comments
D2.12	Roof as open space	N / A	
D2.13	Goings and risers	CRA	Stairs are to have risers measuring between 115-190mm and going between 250-355.
			Goings and Risers are to satisfy the equation of
			2R+G=700(max) and 550(min).
			Goings and risers are to be consistent throughout in one flight. Any ga between risers must not permit a 125mm sphere to pass through it.
			Ensure all stairways throughout the building do not contain less than or more than 18 risers.
			All treads and surfaces with a slip resistant classification are to be fitte with non-slip finish or non-skid strips compliant with the requirements of Table D2.14 when tested in accordance with AS4586-2013 and 300 colour contrasting nosings.
			Final details are to be submitted with the Construction Certificat Documentation.
D2.14	Landings	CRA	Landings must comply with the requirements of Clause D2.14 of th BCA. Landings must be not less than 750mm long and have a non-sli finish throughout or an adequate non-skid strip near the edge of th landing where it leads to a flight below and 30% colour contrastin nosings.
			Strips at the edge of the landing with slip-resistance classification no less than that listed in Table D2.14 when tested in accordance with A 4586-2013, where the edge leads to a flight below.
			Table D2.14 Slip-resistance classification
			Application Dry surface conditions Wet surface conditions Ramp steeper than 1:14 P4 or R11 P5 or R12
			Ramp steeper than 1:20 but not steeper P3 or R10 P4 or R11 than 1:14
			Tread or landing surface P3 or R10 P4 or R11 Nosing or landing edge strip P3 P4
			Final details are to be submitted with the Construction Certificat Documentation.
D2.15 Thresholds	Thresholds	CRA	A threshold of a doorway must not incorporate a step or ramp at an point closer to the doorway than the width of the door leaf unless th door opens to a road or open space, external stair landing or external balcony and the doorsill is not more than 190mm above the finishe surface of the ground balcony or the like to which the door opens.
			Final details are to be submitted with the Construction Certificat Documentation.

Note: This applies to all Fire Isolated Exit Doors also including the last exit door to open space.







Part D2 -	Part D2 – Construction of Exits					
Clause	Description	Status	Comments			
D2.19	Doorways and doors	CRA	 A doorway serving as a required exit or forming part of a required exit: must not be fitted with a revolving door; and must not be fitted with a roller shutter or tilt-up door unless— it serves a Class 6, 7 or 8 building or part with a floor area not more than 200 m2; and the doorway is the only required exit from the building or part; and it is held in the open position while the building or part is lawfully occupied; and must not be fitted with a sliding door unless— it leads directly to a road or open space; and the door is able to be opened manually under a force of not more than 110 N; and if fitted with a door which is power-operated— it must be able to be opened manually under a force of not more than 110 N if there is a malfunction or failure of the power source; and if it leads directly to a road or open space it must open automatically if there is a power failure to the door or on the activation of a fire or smoke alarm anywhere in the fire compartment served by the door. 			
D2.20	Swinging doors	CRA	A swinging door in a required exit or forming part of a required exit must not encroach more than 500 mm on the required width of a required stairway, ramp or passageway if it is likely to impede the path of travel of the people already using the exit. Furthermore, such a swinging door must swing in the direction of egress, unless it serves a sanitary compartment, airlock or is the only required exit serving a building part with floor area not more than 200m ² and is fitting with hold open device. Details demonstrating compliance with this clause must be incorporated into the architectural drawings prior to the issue of a Construction Certificate.			



Part D2 – Construction of Exits					
Clause	Description	Status	Comments		
D2.21	Operation of latch	CRA	The latch of a door in a required exit, forming part of a required exit or in the path of travel is to be readily openable without a key from the side of that faces a person seeking egress. It is to have a single downward action or pushing action and to be located between 900mm and 1100mm from the floor.		
		Where the latch operation referred to above is not located on the door leaf itself, manual controls to power-operated doors must be at least 25mm wide, proud of the surrounding surface located not less than 500mm from an internal corner, and:			
		• for a hinged door located between 1m and 2m from the door leaf in any position; or			
		• for a sliding door located within 2m of the doorway and clear of a surface mounted door in the open position.			
			Design verification to be provided prior to the issue of the Construction Certificate.		
	FIGURE 35(A) EXAMPLE O	sometric view 35 to 45 b) Plan view F ACCEPTABLE DOOR NGED DOORS	35 to 45 mm		
D2.22	Re-entry fire- isolated exits	N / A			
D2.23	D2.23 Signs on doors C		Fire Door and Smoke Door signage is required to be provided to all doors giving access to and egress from the fire isolated stairways.		
			NOTE: Braille Exit Level Signs are to be Installed at Each Exit Also. D3.6		



Part D2 – Construction of Exits						
Clause Description Status	Comments					
FIRE SAFETY DOOR DO NOT OBSTRUCT DO NOT KEEP OPEN	 Any Fire Door require the standard signage, "Fire Safety Door, Do not Obstruct, Do Not Keep Open etc " along with the EP& A Notice; A Fire Door on an auto-closing or fire trip is to incorporate the following "					
FIRE SAFETY DOOR	wording: "FIRE SAFETY DOOR—DO NOT OBSTRUCT " – A Self-Closing Fire Doors are to incorporate the following wording:					
WARNING: SLIDING FIRE DOOR OFFENCES RELATING TO FIRE EXITS By virtue of the regulations under the	 "FIRE SAFETY DOOR — DO NOT OBSTRUCT — DO NOT KEEP OPEN" For the last door discharging from a fire isolated exit, (Door opening on to open space/outside) "FIRE SAFETY DOOR—DO NOT OBSTRUCT". Along with the required BCA signage, the EPA & A Regulations require a warning notice to be displayed in a conspicuous position adjacent to 					
Environmental Planning And Assessment Act 1979, it is an offence: (a) to place anything in this exit that may impede the free passage of persons, or	 a doorway providing access to, but not within, that stairway, passageway or ramp: – OFFENCE RELATING TO FIRE EXITS 					
 (b) to interfere with or cause obstruction or impediment to, the operation of the doors providing access to this exit, or (c) to remove, damage or otherwise interfere with this notice. 	It is an offence under the Environmental Planning and Assessment Act 1979: (a) to place anything in or near this fire exit that may obstruct persons moving to and from the exit, or (b) to interfere with or obstruct the operation of any fire doors, or					
	(c) to remove, damage or otherwise interfere with this notice.					
All fire doors and frames are to be tagged in acc with AS 1905.1-2015 and a complete door sche be provided at the Occupation Certificate Stage	dule is to MANUFACTURED BY (BUSINESS NAME)					
Clearances under and the side of fire doors are t	be in accordance with AS 1905.1-2015					
Door le	af Door leaf					
25 mm max.	max. Combustible floor covering Non-combustible threshold Mon-combustible					
(a) With a combustible floor covering	(b) Without a combustible floor covering					



Part D2 –	Construction of Exits	\$									
Clause	Description	Status	Comments								
					Fin	e Resistant Do	orset—	Sched	ule of Evide	nce	
				Project name:				Date o	f installation	:	
				Building addre	SS:						
				Building owner representative				Date o	f certificatio	n:	
				Door identification number	tion						
	(Company Na	ame)		Door location							
	FIRE DOOR CERT	TIFICATE		Door leaf type manufacturer							
	Certificate Numbe	r 12345		Door facing an material						_	
Project Name	e			Door dimensio		Width			Height	Thi	ckness
-				Frame type an manufacturer							
Building Own Representation				Frame fixing a backfill materia	nd al						
Representativ	ve.			Wall type and	FRL						
Duilding Add				Doorset FRL							
Building Add	ress:			Doorset hardw	are						
				Lock	Make	Model	Тур	e	Materials on leaf	Materials on frame	FRL
The member	company nominated certifies the follo	wing:		Furniture	Make	Model	Тур	e	Materials on leaf	Materials on frame	FRL
1 The fire	doorsets installed in this building com	ply with AS 1905.1:X	XXX.	Fixtures	Make	Model	Тур		Materials	Materials	FRL
2 The fire doorsets are labelled as required by the appropriate regulatory authorities in accordance			tory authorities in	Fittings	Make	Model	Тур		on leaf Materials	on frame Materials	FRL
with Aus	tralian Standard AS 1905.1:XXXX.			Fittings	Make	Model	i yp		on leaf	on frame	FRL
3 A manua complete				Vision panel	Make	Model	Тур	e	Materials on leaf	Materials on frame	FRL
	based copy of the manual has been p	provided to the buildin	g	XXXX	Make	Model	Тур	e	Materials on leaf	Materials on frame	FRL
				Test report references							
Certified by:				Assessment report references							
Name of Cert	ifier:			Date of final in	spection	Certificate N	0.	Insp	ecting office	r Thi	ckness
Signature:				Date of Certific		Doorset and (if a No.	Certifie	er's Na	me Do	orset Certifier	
Date:				Operating and maintenance information					I		
				Doorframe							
				Doorset							
				Lock							
				Furniture							
				Fixtures Fittings							
				Vision panel							



Part D2 –	Part D2 – Construction of Exits					
Clause	Description	Status	Comments			
D2.24	Protection of Operable Windows	CRA	All window openings throughout the development must be provided with protection, if the floor below the window is 2m or more above the surface beneath in a Class 2 building.			
			Where the lowest level of the window opening is less than 1.7m above the floor, the operable portion of the window must be protected with a device capable of restricting the window opening or a screen with secure fittings.			
			A device or screen must:			
			 Not permit a 125mm sphere to pass through the window opening or screen; 			
			 Resist an outward horizontal action of 250N against the window restraining device or screen protecting the opening; and 			
			 Have a child restraint release mechanism if the screen or device is able to be removed, unlocked or overridden. 			
			A barrier with a height not less than 865mm above the floor is required to an openable window in addition to window protection, when a child resistant release mechanism is required and where the floor below the window is 4m or more above the surface beneath if the window is not provided with protection. The barrier must not permit a 125mm sphere to pass through it and must not contain any horizontal or near horizontal elements between 150mm and 760mm above the floor that facilitate climbing.			
			Details demonstrating compliance with this clause must be incorporated into the architectural drawings prior to the issue of a Construction Certificate.			
D2.25	Timber stairways: Concession	N / A				
NSW D2.101	Doors of travel in an entertainment venue	N / A				



Part D3 -	- Access for People w	vith Disabilit	ies
Clause	Description	Status	Comments
D3.0	Deemed-to-Satisfy Provisions	Note	Disability (Access to Premises — Buildings) Standards 2010 is to be read in conjunction with the BCA.
			Compliance with the Access Codes appears to be achieved.
D3.1	General Building Access Requirements	PS	Buildings and parts of buildings must be accessible as required by Table D3.1, unless exempted by D3.4.
			Compliance with Part D3 of the BCA is applicable to this building.
			All common areas are also to facilitate access in accordance with AS1428.1.
		From a pedestrian entrance required to be accessible to at least 1 floor containing sole-occupancy units and to the entrance doorway of each sole-occupancy unit located on that level and to and within not less than 1 of each type of room or space for use in common by the residents, including a cooking facility, sauna, gymnasium, swimming pool, common laundry, games room, individual shop, eating area, or the like.	
			Where a ramp complying with AS 1428.1 or a passenger lift is installed—
			(a) to the entrance doorway of each sole-occupancy unit; and
			(b) to and within rooms or spaces for use in common by the residents, located on the levels served by the lift or ramp.
			Inaccessible SOU Entrance Doorways
			Access to the front SOU entrance doorways on the ground floor level and the paths of travel to these areas is required and does not appear to be provided.
			Compliance can be achieved by an Access performance solution conducted prior to issue of the Construction Certificate.
			Final design details of wheelchair access to this part are to be provided at the final Construction Certificate stage.

Architects/Designers Note: AS1428.1 is very detailed, please ensure that your design has been checked and rechecked as to full compliance .I.e.:

- All doors are to be a minimum of a clear opening width of not less than 850 mm and the required circulation spaces around doors to be accessible in accordance with AS 1428.1
- Door hardware is to a 'D' grasping style, 20N force to open and close all doors.
- Walkways, corridors also must be compliant for dead areas, wheelchair passing and splayed corners.
- Doors and doorways need to have 30% luminance contrasting to distinguish door locations,
- All Glazing other than windows needs 30% luminance contrasting, The contrasting line shall be not less than 75 mm wide and shall extend across the full width of the glazing panel. The lower edge of the contrasting line shall be located between 900 mm and 1000 mm above the plane of the finished floor level. Any contrasting line on the glazing shall provide a minimum of 30% luminance contrast when viewed against the floor surface or surfaces within 2 m of the glazing on the opposite side.



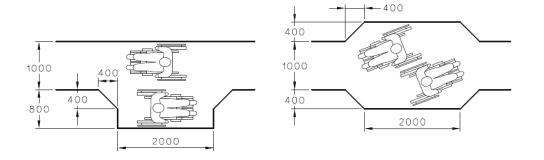
Part D3 -	Access for People	with Disabilit	ies			
Clause	Description	Status	Comments			
	tairs excluding the fire ur contrast nosing stri			rate the required double h	andrail, dow	nturns, solid treads,
Floor surf	aces and junction poi	nts are all sm	ooth and compl	ly with slip resistant levels.		
Door Circ	culation Spaces					
building a		t dimensions	under AS1428.	accessible are to be cont 1 with the exception of the ce.		
Please no	ote: D3 requires acces	s just to the S	SOU door, not v	vithin the unit unless the u	nit is Adapta	ble.
	ce can be achieved d prior to issue of the			natively in some cases vi	ia a BCA pe	erformance solution
AS 1428.1	12009 58			59		AS 1428.1-2009
= 	Dimension Dimension Bio 1220 560 340 900 1166 510 340 900 1166 510 340 900 1166 460 340 900 1166 460 340 900 1166 460 340 900 1166 460 340 900 1166 460 340 900 1166 460 340 900 1166 450 340 900 1166 450 340 900 1166 450 340 900 1166 450 340 900 1166 450 340 900 1166 450 340 900 1166 1160 340 900 1166 1160 1160	Dimensite Dimensite Dimensite Dimensite Dimensite Dimensite Dimensite 850 1240 24 26 950 1210 14 1000 155 92 (a) Latter-a-site approximation opens away for opens away for 155 92 100 1	H WL 0 660 0 660 0 660 0 660 0 660 0 660	$\frac{W_{H}}{D} \xrightarrow{W_{L}} W_{L}$	With D Dimension Dimension D L 000 1870 960 1870 960 1870 1000 1670 (if) Latch-side door opens to	
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_	(c) Ether side approach, door opens away from user	(d) Front approa door opens eway fr		LEGEND: D = Clear oper	abor opens to	and wer
	LEGEND) D - Class open L - Length Wy = Width-They W = Width-They W - Width-They = Choiston of = Choiston	approach		L = Length Wi_ = WHH−-bh WH = WHH−bh Direction = Circulation Dimensions in	ge side ch side of approach space	
B	DIMENSIONS IN N GURE 31 (in part) CIRCULATION SPACES	ILLI METRES	IGING DOORS	FIGURE 31 (in part) CIRCULATIO SWINGING	N SPACES AT DOORWA	YS WITH



Part D3 –	Part D3 – Access for People with Disabilities			
Clause	Description	Status	Comments	
D3.2	Access to Buildings	CRA	An accessway/s has been provided from Principal Pedestrian Entry (PPE) areas.	
			The use of a platform lift in accordance with AS 1735.14 Low-rise platform lift is allowed for this building and is limited to 1m.	
			The residential parts of the building are deemed to have only one entry, the fire isolated exits are for egress purposes only.	
			All doors are to be a minimum of a clear opening width of not less than 850 mm and the required circulation spaces around doors to be accessible in accordance with AS 1428.1 including SOU doors to storey serviced via a lift.	
			All stairs excluding fire isolated stair are to incorporate the required double handrail, downturns, colour contrast nosing strips and TGSI's.	
			Nosing to stairs within the fire isolated passage are to have a colour contrasting strip.	
			Final design details of wheelchair access to this part are to be provided at the final Construction Certificate stage.	
D3.3	Parts of Buildings to be accessible	CRA or PS	Final details to be provided detailing floor services and materials are to be provided at the Construction Certificate stage or noted on the plans.	

Passing Spaces

Passing Spaces for Wheelchairs are to be provided in corridors longer than 20m.

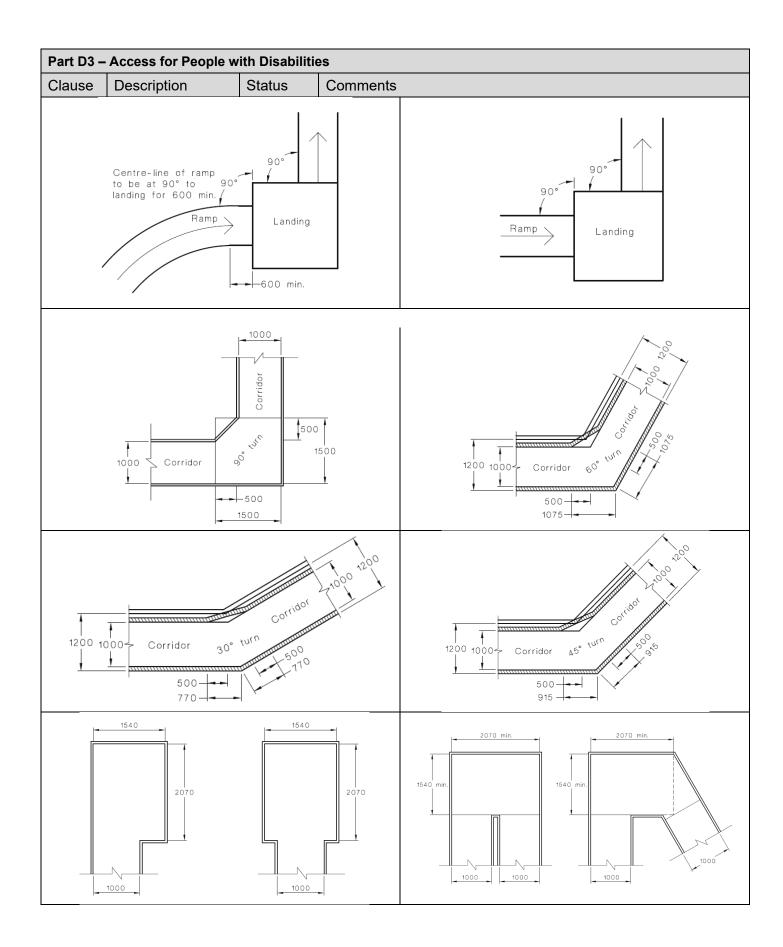


Turning Spaces, Landings & Dead End Zones

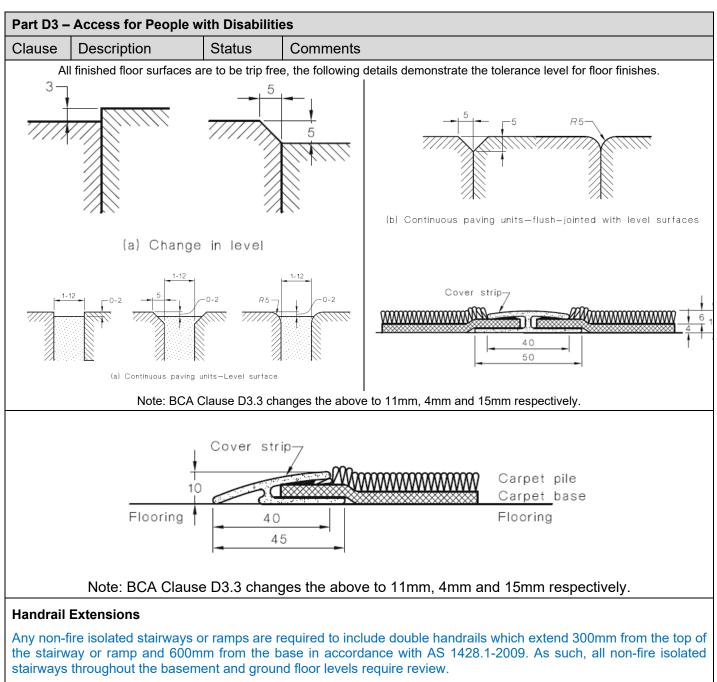
Turning spaces and dead end zones throughout the building appear to be provided within accessways required to be accessible in accordance with AS 1428.1-2009 with the exception of several areas on the ground floor.

Compliance can be achieved by slight redesign or alternatively in some cases via a BCA performance solution conducted prior to issue of the Construction Certificate.



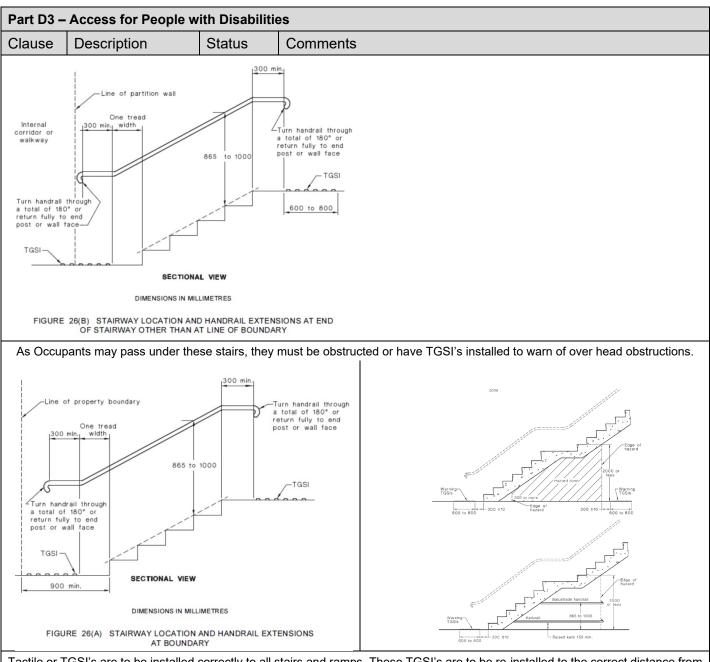






Compliance can be achieved by a slight redesign or alternatively via a BCA performance solution undertaken prior to the issue of the Construction Certificate.





Tactile or TGSI's are to be installed correctly to all stairs and ramps. These TGSI's are to be re-installed to the correct distance from the nosing and the height from the FFL.

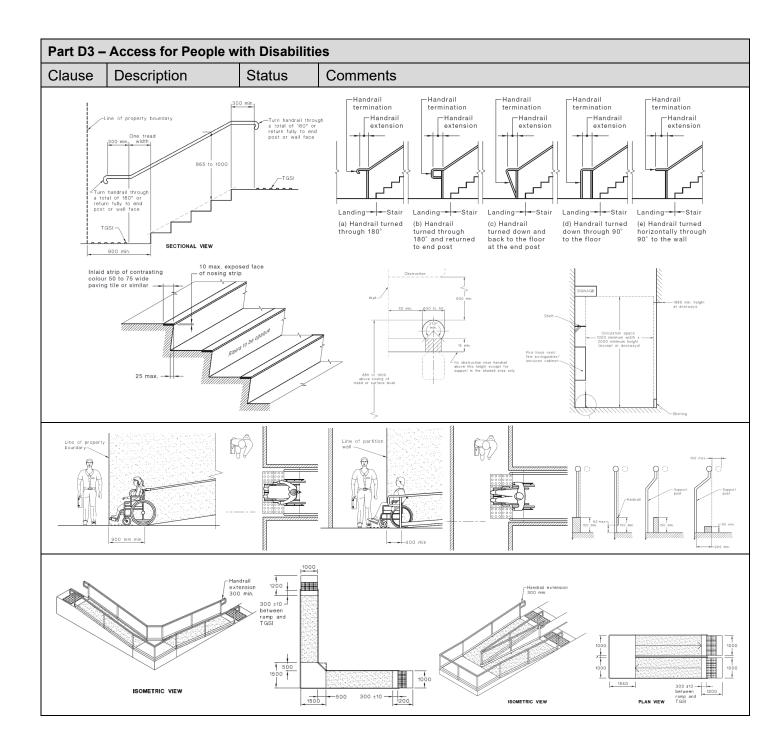
The floor surface is to be cut to allow the TGSI mat to be fixed to the slab and provide the correct height.

Stairways & Ramps

Any non-fire isolated stairways or ramps are required to include double handrails and tactiles in accordance with AS 1428.1-2009. As such, all non-fire isolated stairways throughout the basement to ground floor levels require review.

Compliance can be achieved by a slight redesign or alternatively via a BCA performance solution undertaken prior to the issue of the Construction Certificate.







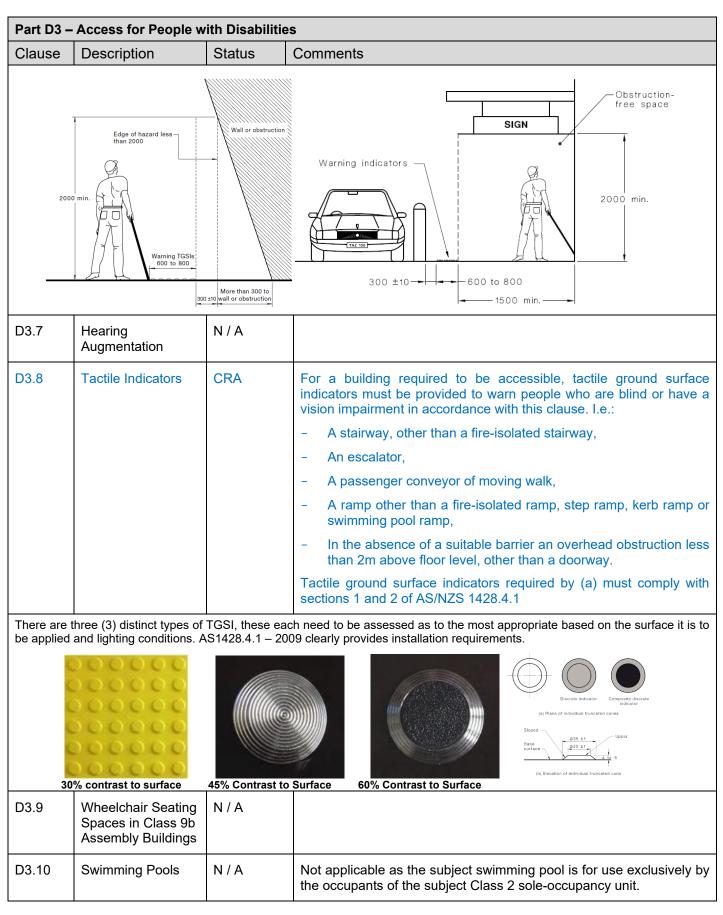
ause	ause Description Status Comments							
Extra	ction from Standards A	ustralia Handboo	k 197:1999					
			TABLE 3					
	PEDESTRI		SELECTION GUIDE – MI NDATIONS FOR SPECIF		RAMP			
Loca	tion			Pendulum	Ramp			
Exter	nal colonnade, walk	way and pedest	rian crossings	W	R10			
Exter	nal ramps			V	R11			
Entry	foyers hotel, office,	public buildings	- wet	Х	R10			
Entry	foyers hotel, office,	public buildings	- dry	Z	R9			
Shop	ping centre excludir	ng food court		Z	R9			
Shop	ping centre – food o	ourt		Х	R10			
Interr	nal ramps, slopes (g	reater than 2 de	grees) - dry	Х	R10			
Lift Ic	bbies above extern	al entry level		Z	R9			
Othe	r separate shops ins	ide shopping ce	entres	Z	R9			
Othe	r shops with externa	I entrances – er	ntry area	Х	R10			
Fast	food outlets, buffet f	ood servery are	as	Х	R10			
Hosp	itals and aged care	facilities – dry a	reas	Z	R9			
Hosp	ital and aged care f	acilities – ensuite	es	Х	A or R10			
Supe	rmarket aisles exce	pt fresh food are	eas	Z	R9			
Shop	and supermarket fr	esh fruit and ve	getable areas	Х	R10			
Com	munal changing roo	ms		Х	А			
Swim	ming pool surround	s and communa	I shower rooms	W	В			
Swim	ming pool ramps ar	nd stairs leading	into water	V	С			
Toile	t facilities in offices,	hotels, shopping	g centres	Х	R10			
Unde	rcover concourse a	reas of sports st	adium	Х	R10			
Acce	ssible internal stair i	nosings (dry) – h	andrails present	Х	R10			
Acce	ssible internal stair i	nosings (wet) – I	nandrails present	W	B or R11			
Exter	nal stair nosings			W	R11			

D3.4	Exemptions	Noted	The following areas are not required to be accessible:
			(a) An area where access would be inappropriate because of the particular purpose for which the area is used; or
			(b) An area that would pose a health or safety risk for people with a disability; or
			(c) Any path of travel providing access only to an area exempted by (a) or (b).



Clause	Description	Status	Comments
	Description		
D3.5	Accessible Carparking	N / A	Appears to not be required for this development.
D3.6	Signage	CRA	In a building required to be accessible –
	Note: BCA Change: 2013		Braille and tactile signage complying with Specification D3.6 and incorporating the international symbol of access or deafness, as appropriate, in accordance with AS1428.1 must identify each –
	'Exits' must have Braille to identify		 Sanitary facility,
occupant's	occupant's location		- Ambulant toilet facility,
	within a building.		- Any required accessible carparking space,
			 Where needed, directional signage to any Carparking space, sanitary facility, or accessible adult change facility.
			 At Each 'Exit' and which 'Level' an occupant is at also needs to be in Braille.
			Where a bank of sanitary facilities is not provided with an accessible unisex sanitary facility, directional signage incorporating the international symbol of access in accordance with AS 1428.1 must be placed at the location of the sanitary facilities that are not accessible, to direct a person to the location of the nearest accessible unisex sanitary facility.
	Image: Constraint of the second se	Ambulant toilet Female :::	Accessible Toilet RH Source Annual Contraction Contraction of the Accessible Entrance
Buildin Pedes circulu		Egg of carrigeway ar grade	Beneficial and the second seco







Part D3 –	Part D3 – Access for People with Disabilities			
Clause	Description	Status	Comments	
D3.11	Ramps	Noted	On an accessway –	
			(a) A series of connected ramps must not have a combined vertical rise of more than 3.6m; and	
			(b) A landing for a step ramp must not overlap a landing for another step ramp or ramp.	
D3.12	Glazing on an Accessway	CRA	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.	



SECTION E – SERVICES AND EQUIPMENT

Part E1 -	Part E1 – Fire Fighting Equipment				
Clause	Description	Status	Comments		
E1.1	-	-	No Provisions		
E1.2	-	-	No Provisions		
E1.3	Fire Hydrants	CRA	Fire Hydrant Coverage may be required throughout the whole building in accordance with AS 2419.1.		
			Final plans and a design certificate from a qualified hydraulic engineer prior to the issue of a Construction Certificate.		
			Please note: If variations from AS2419.1 are required, a Clause 188 approval may be required to be submitted to the NSW Fire Brigade for approval, please allocate time for this process if required.		

AS2419.1:2005

3.2.2.2 Location External fire hydrants shall be located as follows:

(a) In a position that provides pedestrian access to the building for the fire brigade.

(b) When installed as a feed fire hydrant [See Figure 3.2.2.2(a), (b), (d) and (e)], within 20 m of a hardstand such that when a fire brigade pumping appliance is connected to it—

(i) all portions of the building shall be within reach of a 10 m hose stream, issuing from a nozzle at the end of a 60 m length of hose laid on the ground; and

(ii) a minimum of 1 m of hose shall extend into any room served.

(c) Where installed as an attack fire hydrant [see Figure 3.2.2.2(f)], within 50 m of a hardstand such that when connected directly to the external attack fire hydrant—

(i) all portions of the building shall be within reach of a 10 m hose stream, issuing from nozzle at the end of a 60 m length of hose laid on the ground; and

(ii) a minimum of 1 m of hose shall extend into any room served.

(d) Where installed in a system fitted with a fire brigade booster assembly and having feed fire hydrant performance only [see Figure 3.2.2.2(c)], within 20 m of a fire brigade pumping appliance located on a hardstand. All portions of the building shall be within reach of a 10 m hose stream, issuing from a nozzle at the end of 60 m length of hose laid on the ground with a minimum of 1 m of hose extending into any room served—

(i) where the hose is connected directly to the external fire hydrant; and

(ii) where the hose is connected to a fire brigade pumping appliance fed from the fire hydrant.

(e) In a position not less than 10 m from the building it is protecting unless safeguarded by construction-

(i) having a FRL of not less than 90/90/90;

(ii) extending 2 m each side of the fire hydrant outlet; and

(iii) extending not less than 3 m above the ground adjacent to the fire hydrant or the height of the building, whichever is the lesser.

(f) In a position not less than 10 m from any high voltage main electrical distribution equipment such as transformers and distribution boards, and from liquefied petroleum gas and other combustible storage.

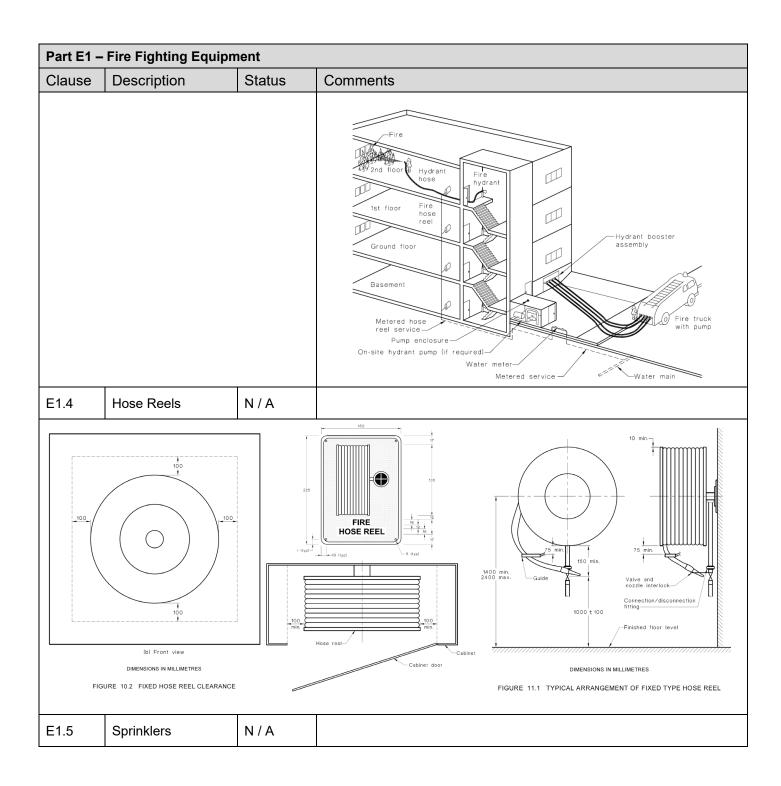
(g) In a position so that the fire hydrant is not obstructed or obscured by obstacles, stored goods, vehicles, vegetation etc.

(h) In a position so that the fire hydrant is protected from possible mechanical damage by vehicles.



a) secure	Description ROOM	Status	Comments		
5.4.1 Gen ^D umproon a) secure	ROOM				
^p umproon a) secure					
a) secure	eral				
·	ns containing fixed on	-site pumpset	s and associated equ	uipment shall be weatherproof and be—	
	to prevent the entry of	of unauthorize	d persons;		
(b) adequately ventilated for the aspiration and cooling of pump drivers;					
c) heated	, where necessary, to	prevent freez	ing and facilitate the	cold start of compression ignition drivers;	
	ed by appropriate sign the attending fire brig		isual and audible aid	ls, so that the room and its entrance can be rea	ıdily
(e) constructed with a minimum 2.1 m high internal clearance with adequate space for pump maintenance and replacement.					
6.4.2 Inter	rnal pumprooms				
Pumproon	ns located within a bui	lding shall ha	/e—		
(a) a door opening to a road or open space, or a door opening to fire-isolated passage or stair which leads to a road or open space; and					
				S 2118.1, enclosing walls with an FRL not less t classification served by the fire hydrant system	
6.4.3 Exte	rnal Pumprooms				
enclosing		less than that	prescribed by the B	any building they are protecting, shall have BCA for a firewall for the particular building	
lardstand	l shall be provided witl	hin 20 m of th	e access door to the	pumproom.	
		stairs		Stairway/-Internal hydrants m	nav be
				required on these	
	supply riser I the side of t Hydrant valve outlet not DN 65 fire h	iydrant vertical ocation behind or to he hydrant valve ydrant valve with	Additional storeys as defined	Hose laid in stairway the nose of the tre the outer perimeter stairway	ead at
	35° to the horizontal with Figure 3 be located o	id chain, in accordance .5[a]. All equipment to utside line of egress n of egress in with the BCA	Additional storeys as defined	60m max. length of (including in stairwa	iy)
			One storey above level of access	Fire brigade pumpin appliance	g
Clearance 100 min. Clearance 225° min			Level of access		J
		Clearance 100 min.	One storey below level of access	Hose in stairway to only one storey be	
				10 m max. horizontal jet of water	quired
Clearance 300 mir		-35° max.	(g) Hos	se coverage from external hydrant (see Clause 3.2.2.1)	
		750 to 1200		associated with fighting building fires, internal fire hydrants are required in fire- e floor below ground and one or more levels above ground.	isolate
				-	
	Clear space 1000 m	in.			







Part E1 -	- Fire Fighting Equipn	nent	
Clause	Description	Status	Comments
E1.6	Portable fire extinguishers	CRA	Portable fire extinguishers are required to be provided in accordance with Table E1.6 of the BCA and AS 2444.
			For Class 2, 3 or 5 buildings or Class 4 parts of a building portable fire extinguishers must be provided to serve the whole storey where one or more internal fire hydrants are installed and when fire hydrants are not installed to serve any fire compartment which a floor area greater than 500m ² (for the purposes of this Clause a Class 2, 3 or 4 parts of a building are considered to be a fire compartment).
			Portable fire extinguishers provided in a Class 2 or 3 building or Class 4 part of a building must be:
			An ABE type fire extinguisher; and
			• A minimum size of 2.5kg; and
			• Distributed outside a sole-occupancy unit to serve the storey at which they are located and ensure that the travel distance from the entrance doorway of any sole-occupancy unit to the nearest fire extinguisher is not more than 10m.
			Details demonstrating compliance with this clause must be incorporated into the architectural drawings prior to the issue of a Construction Certificate.
AS 2444—2001	10		Signs are to be installed clearly over or directly adjacent to Portable fire extinguishers.
	FIRE		 Each extinguisher shall be located in a conspicuous and readily accessible position. Extinguishers shall not be located in positions where access could present a hazard to the potential user. Where practicable, extinguishers shall be located along normal paths of travel and near exits. (Max 15m from each other etc)
			 Extinguishers Signs must be shown and shall be mounted not less than 2.0 m above floor level, or at a height that makes them most apparent to a person of average height and visual acuity approaching the extinguisher location.
			In addition to the location sign referred to in Clause 3.3 of AS2444, the cabinet or enclosure shall be marked with the words ' FIRE EXTINGUISHER ' in letters at least 32 mm high in a colour contrasting with the background unless the door has not less than 50% of its surface area fabricated from transparent material that permits visual identification of the cabinet's contents. Signs are to be installed clearly over or directly adjacent to Portable fire extinguishers.
FIGURE 3.	DIMENSIONS IN MILLIMETRES 2 MOUNTING HEIGHTS FOR PORTABLE FIRE EXTIL	NGUISHERS AND	 Each extinguisher shall be located in a conspicuous and readily accessible position. Extinguishers shall not be located in positions where access could present a hazard to the potential user. Where practicable, extinguishers shall be located along normal paths of travel and near exits. (Max 15m from each other etc)
			 Extinguishers Signs must be shown and shall be mounted not less than 2.0 m above floor level, or at a height that makes them most apparent to a person of average height and visual acuity approaching the extinguisher location.



Part E1 -	Part E1 – Fire Fighting Equipment		
Clause	Description	Status	Comments
E1.7	-	-	No Provisions
E1.8	Fire control centres	Noted	
E1.9	Fire precautions during construction	CRA	During construction, not less than one fire extinguisher to suit Class A, B and C fires is required for each storey, and is required to be located adjacent to each exit.
			After the building has reached an effective height of 12m:
			• The required fire hydrants and fire hose reels must be operational in at least ever storey that is covered by the roof or the floor structure above, except the two (2) upper most storeys; and
			• Any required booster connection must be installed.
			Details verifying compliance must be included on the architectural plans prior to the issue of the Construction Certificate.
E1.10	Provisions for special hazards	N / A	



General Fire Service Signage

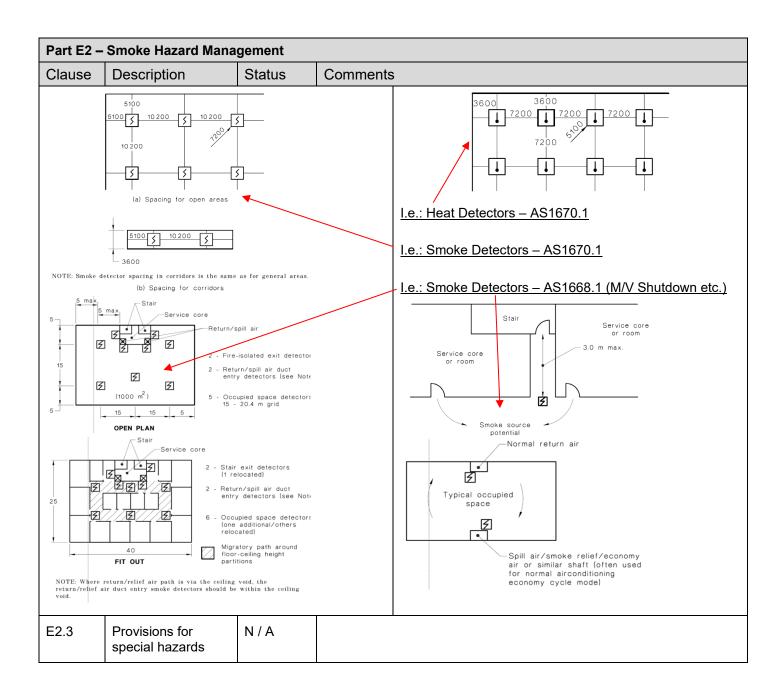
FIRE HOSE REEL FIRE HYDRANT BOOSTER FIRE EXTINGUISHER SPRINKLER STOP VALVE INSIDE

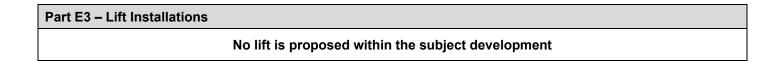
FIRE PANEL

FIRE HYDRANT PUMP – DO NOT SWITCH OFF SPRINKLER BOOSTER CONNECTION FIRE CONTROL ROOM

Part E2 –	Part E2 – Smoke Hazard Management		
Clause	Description	Status	Comments
E2.1	Application of Part	Noted	Part is not applicable to
			Open deck car parks
			Open spectator stands
E2.2	General requirements	CRA	The building must be provided with an automatic smoke detection and alarm system, and smoke detectors complying with Specification E2.2a and a Building Occupant Warning System (BOWS).
			Each Class 2 SOU is to incorporate an AS3786 smoke alarm system which is connected to the consumer mains source and interconnected throughout the SOU.
			The common areas of the building are to incorporate a smoke detection and alarm system installed in accordance with AS1670.1-2018 and activate a Building Occupant Warning System (BOWS) being sound pressure <i>within</i> each SOU door is to achieve no less than 85 dB(A).
			Details and a design certificate will be required by a qualified electrical engineer prior to the issue of a Construction Certificate.









			and Warning Systems
Clause	Description	Status	Comments
E4.1	-	-	No provisions
E4.2	Emergency lighting requirements	CRA	Emergency lighting is to be provided throughout the building in accordance with Clause E4.2 of the BCA.
			Drawings a design certificate will be required by a suitably qualified electrical engineer prior to the issue of a Construction Certificate.
E4.3	Measurement of distance	Noted	
E4.4	Design and operation of emergency lighting	CRA	Emergency lighting shall be provided throughout the building in accordance with the requirements of Clause E4.4 of the BCA and AS 2293.1.
			Details and a design certificate will be required by a suitably qualified electrical engineer prior to the issue of a Construction Certificate.
E4.5	Exit signs	CRA	Exit signs are to be provided in accordance with Clause E4.5 of the BCA.
	*		Exit signs must be clearly visible to person approaching the exit and must be installed on, above or adjacent to;
	(a) Straight on from here (Refer to paragraph D3.3)		1. A door providing direct egress from a storey to a stairway, passageway or ramp serving as a required exit.
	ホーベ		2. A door from an enclosed stairway, passageway or ramp at every level of discharge to a road or open space.
(b) Le	ft from here (c) Ri	aht from here	3. A door serving as or forming part of a required exit in a storey required to be provided with emergency lighting.
			A test switch is to be installed for each storey.
			Where and if requirements are altered under this proposal, details and a design certificate will be required by a suitably qualified electrical engineer prior to the issue of a Construction Certificate.
E4.6 Direction signs CR/		CRA	Where an exit is not readily apparent then exit signs with directional arrows must be installed in appropriate positions in corridors, hallways, lobbies and the like indicating the direction to a required exit in accordance with Clause E4.6 of the BCA.
			Where and if requirements are altered under this proposal, details and a design certificate will be required by a suitably qualified electrical engineer prior to the issue of a Construction Certificate.
E4.7	Class 2, 3 and 4 buildings: Exemptions	Noted	



Part E4 –	Part E4 – Emergency Lighting, Exit Signs and Warning Systems					
Clause	Description	Status	Comments			
E4.8	Design and operation of exit signs	CRA	CRA Exit signs are to operate in accordance with AS 2293.1 or for a photo luminescent exit sign, Specification E4.8 and be clearly visible at al times while the building is occupied.			
			Where and if requirements are altered under this proposal, details and a design certificate will be required by a suitably qualified electrical engineer prior to the issue of a Construction Certificate.			
E4.9	Emergency warning and intercom systems	N / A				



SECTION F – HEALTH AND AMENITY

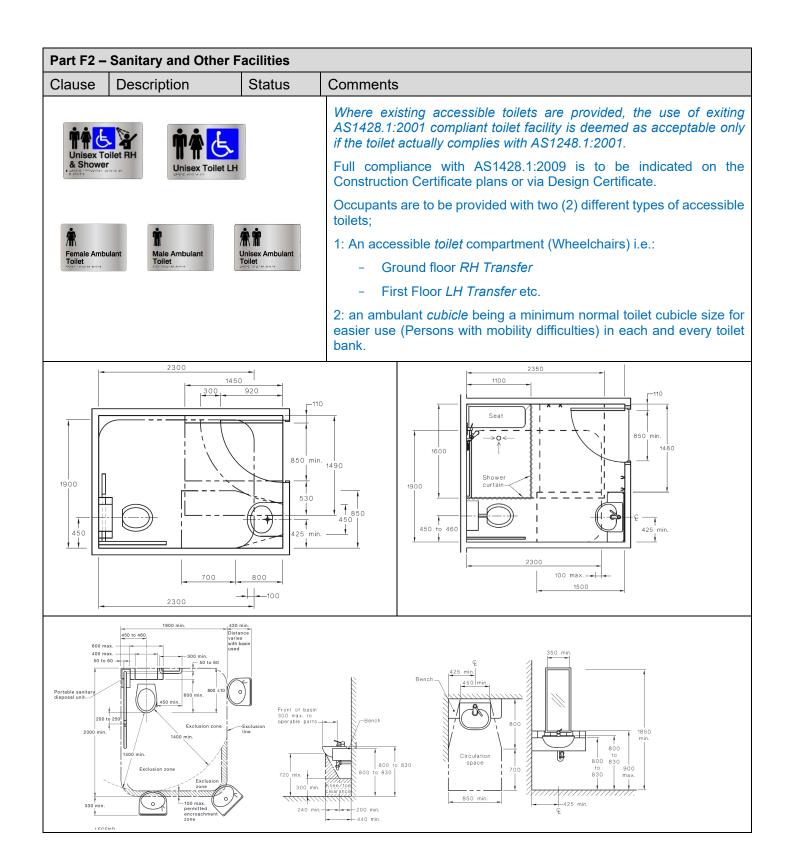
Part F1 – Damp and Weatherproofing				
Clause	Description	Status	Comments	
F1.1	Stormwater drainage	CRA	Stormwater drainage design shall be in accordance with AS/NZS 3500.3.	
			Details and a design certificate will be required by a suitably qualified hydraulic engineer prior to the issue of a Construction Certificate.	
F1.2	-	-	No provisions	
F1.3	-	-	No provisions	
F1.4	External above ground membrane	CRA	Waterproofing membranes for external above ground use may comply with AS 4654 Part 1 and 2.	
			Details and a design certificate to be provided prior to the issue of a Construction Certificate.	
F1.5	Roof coverings	CRA	Roof coverings are to comply with the relevant Australian Standards as per Clause F1.5.	
			Details and design certification to be provided prior to the issue of a Construction Certificate.	
F1.6	Sarking	CRA	Sarking type materials used for weatherproofing of roofs and walls must comply with AS/NZS 4200 Parts 1 and 2.	
			Details and design certification to be provided prior to the issue of a Construction Certificate.	
F1.7	F1.7 Waterproofing of wet areas in buildings CRA		Shower enclosure surfaces, floor surfaces in bathrooms, shower rooms, slop hoppers, sink compartments, laundry and sanitary compartments are required to be or water resistant or waterproof in accordance with Table F1.7 and AS 3740-2010.	
			Details and design certification to be provided prior to the issue of a Construction Certificate.	
F1.8	-	-	No provisions	
F1.9	Damp-proofing	N / A		
F1.10	Damp-proofing of floors on the	CRA	A vapour barrier in accordance with AS2870 is to be provided beneath the basement floor slab.	
	ground		Details and design certification to be provided prior to the issue of a Construction Certificate.	
F1.11	Provisions of floor wastes	CRA	The floor of each bathroom / laundry is to be graded to permit drainage to a floor waste.	
			The plans forming part of the Construction Certificate Application must detail compliance with the above.	



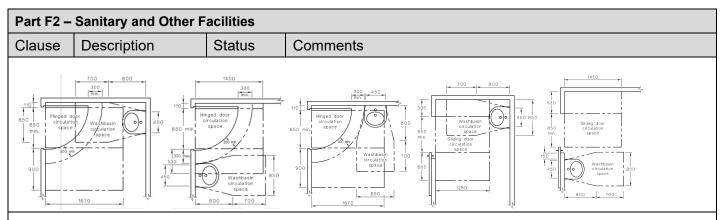
Part F1 –	Part F1 – Damp and Weatherproofing				
Clause	e Description Status Comments				
F1.12	Sub-floor ventilation	N / A			
F1.13 Glazed assemblies CRA		CRA	Windows, sliding doors with a frame, adjustable louvres, shopfronts and window walls with one piece framing in an external wall must comply with AS 2047 requirements for resistance to water penetration.		
			Details and design certification to be provided prior to the issue of a Construction Certificate.		

Part F2 –	Part F2 – Sanitary and Other Facilities				
Clause	Description	Status	Comments		
F2.1	Facilities in residential buildings	CRA	Sanitary and other facilities for Class 2 and 3 buildings must be provided in accordance with Clause F2.1.		
			Note : Under Clause F2.1 of the BCA 2019, sanitary facilities are not required to be provided within the common areas of a Class 2 building. If for any reason sanitary facilities are provided within the common areas of the building, not less than one (1) unisex accessible sanitary compartment is to be provided to serve the common areas of the building as per Clause F2.4(a) and Table F2.4(a) of the BCA 2019.		
			Laundry and Washtubs		
			All Class 2 residential SOU's are to be provided with laundry and washtub facilitates as required by this Clause.		
			Details and design certification to be provided prior to the issue of a Construction Certificate.		
F2.2	Calculation of number of occupants and fixtures	Noted	Floor area of each room is to be provided for the purpose of calculating occupant numbers within the building.		
			Note: a unisex facility comprises one closet pan, one washbasin and means for the disposal of sanitary towels		
			Details and design certification to be provided prior to the issue of a Construction Certificate.		
F2.3	Facilities in Class 3 to 9 buildings	N / A			
F2.4	Facilities for people with disabilities	CRA	As determined in Clause F2.1, a sanitary facility in the common areas of the building is not required for this development.		
			Where sanitary compartments are provided in common areas of a Class 2 building, not less than one (1) accessible toilet is required to be provided to serve the residential parts of the building.		
			Design verification to be provided prior to the issue of the Construction Certificate.		









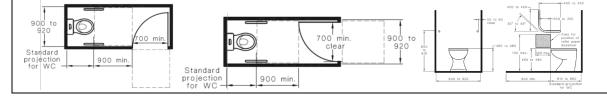
Details for an Accessible Toilet: (Checklist)

- The toilet is to be signed according to AS1428.1, with Left or Right hand transfer.
- Door clearances shall be in accordance with the relevant doors size and approach form both sides.
- Doors are to have a staged closer, if it opens outwards, must also incorporate a closer which hold the door closed without pulling the door closed via a handle.
- Doors shall be provided with an in-use indicator and a bolt or catch. Where a snib catch is used, the snib handle shall have a minimum length of 45 mm from the centre of the spindle. In an emergency, the latch mechanism shall be openable from the outside.
- Toilet pan and wash basin are located in accordance with the diagrams with the required clearances,
- All hand rails are installed and are structural (110N),
- Flushing control are automatic or push action in the required zone,
- An emergency light is also to be installed within the toilet.
- A mirror is to be installed not less than 350mm wide by 900mm tall.
 - o Located above the sink,
 - Flat against the wall.
- A shelf is to be installed next to the basin @ 900-1000mm from the floor with a minimum width of 120-150mm by 300-400mm.
- Where provided, soap dispensers, towel dispensers, hand dryers and similar fittings shall be operable by one hand, and shall be installed with the height of their operative component or outlet not less than 900 mm and not more than 1100 mm above the plane of the finished floor, and no closer than 500 mm from an internal corner.
- A clothes-hanging device shall be installed 1200 mm to 1350 mm above the plane of the finished floor and not less than 500 mm out from any internal corner.

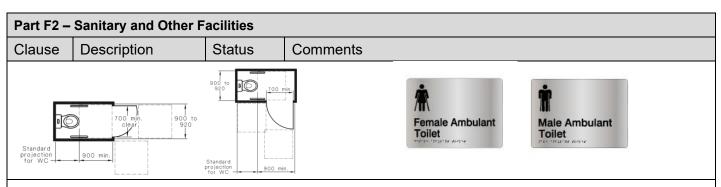
Ambulant Cubicle

Any toilet block is also to accommodate at least one ambulant cubicle in **both** the *Male* and *Female* banks.

Final details to accompany the Construction Certificate Plans.





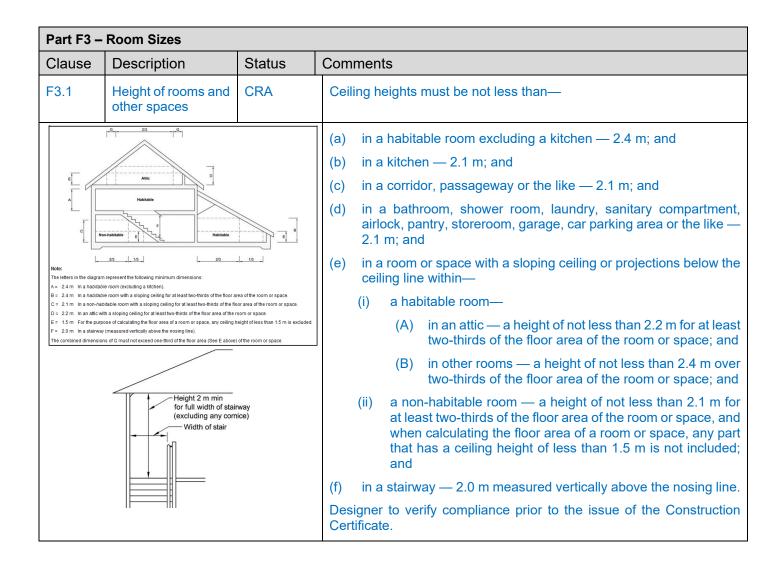


Details for an Ambulant Cubicle: (Checklist)

- The toilet is to be signed according to AS1428.1, on the cubicle door,
- Door clearances shall be in accordance with the relevant doors size and approach form both sides. (900*900 pads)
- Cubicle is 900mm wide, Doors are 700mm and must also incorporate a closer or handle.
- Doors shall be provided with an in-use indicator and a bolt or catch. Where a snib catch is used, the snib handle shall have a minimum length of 45 mm from the centre of the spindle. In an emergency, the latch mechanism shall be openable from the outside.
- Toilet pan and wash basin are located in accordance with the diagrams with the required clearances,
- All handrails are installed and are structural (110N),
- A clothes-hanging device shall be installed 1350 mm to 1500mm above the plane of the finished floor and not less than 500 mm out from any internal corner.

	1			
F2.5	Construction of sanitary compartments	CRA	Doors to the fully enclosed toilets are to open outwards, slide or be readily removable from the outside of the sanitary compartment unless there is a clear space of at least 1.2m between the closet pan within the sanitary compartment and the nearest part of the doorway.	
			Plans submitted with the Construction Certificate Application must detail compliance with the above.	
F2.6	Interpretation: Urinals and washbasins	Noted		
F2.7	Warm water installations	N / A	Not Applicable in NSW	
F2.8	Waste	N / A		
F2.9	Accessible adult change facilities	N / A		







Clause	Description	Status	Comments
F4.1	Provisions of natural light	Noted	Natural light must be provided to all habitable rooms located within the Class 2 portion of the development.
F4.2	Methods and extent	CRA	Required natural light must be provided by either:
	of natural light		• Windows, excluding roof lights, that have an aggregate light transmitting area measured exclusive of framing members, glazing bars or other obstructions of not less than 10% of the floor area of the room and are open to the sky or face a court or other space open to the sky or an open verandah, carport or the like; or
			• Roof lights, that have an aggregate light transmitting area measured exclusive of framing members, glazing bars or other obstructions of not less than 3% of the floor area of the room and are open to the sky; or
			Proportional combination of windows and roof lights.
			Design verification to be provided prior to the issue of the Construction Certificate.
F4.3	Natural light borrowed from adjoining room	CRA	Natural lighting to a room in a Class 2 building or Class 4 part of a building or in a sole-occupancy unit of a Class 3 building, may come through a glazed panel or opening from an adjoining room (including an enclosed verandah).
			Designer to assess the design of light to the subject bedrooms prior to the issue of the Construction Certificate.
			Details and design certification for natural light borrowed are to be provided by the architect prior to the issue of a Construction Certificate.
F4.4	Artificial lighting	CRA	Artificial lighting must be provided in required stairways, passageways, ramps, sanitary compartments, bathrooms, laundries and other spaces used in common by occupants of the building complying with AS1680.0 in accordance with the requirements of Clause F4.4 of the BCA.
			Details and design certification to be provided by electrical engineer prior to the issue of a Construction Certificate.
F4.5	Ventilation of rooms	tilation of rooms CRA	Ventilation shall be provided throughout the building by means of natural ventilation complying with Clause F4.6 or mechanical ventilation complying with the requirements of AS1668.2 and AS3666.1 as required by Clause F4.5 of the BCA.
			Details and design certification to be provided by mechanical engineer prior to the issue of a Construction Certificate.
			Note: Any air handling system which recycles air from one fire compartment to another or operates in a manner that may unduly contribute to the spread of smoke from one compartment to another must be designed to operate a smoke control system in accordance with AS1668.1 or incorporate smoke dampers where the air-handling ducts pass any separating element to another fire compartment and shutdown and the smoke dampeners are activated to close automatically via smoke detectors complying with clause 4.10 of AS1668.1



Part F4 -	Part F4 – Light and Ventilation				
Clause	Description	Status	Comments		
F4.6	Natural ventilation	CRA	See Clause F4.5		
F4.7	Ventilation borrowed from adjoining room	CRA	See Clause F4.5		
F4.8	Restriction on position of water closets and urinals	Complies			
F4.9	Airlocks	Noted	Note: Airlocks must comply with the set distances under AS1428.1 :2009		
, - , - , - , - , -	900 min. 900 min. 900 min.	900 min. 90	900 min. 900 min.		
F4.10	-	-	No provisions		
F4.11	Carparks	CRA	The carpark is to be provided with ventilation complying with AS166 or have an adequate system of permanent natural ventilation.		
			Details and design certification to be provided by mechanical engineer prior to the issue of a Construction Certificate.		
F4.12	Kitchen local exhaust	N / A			



Part F5 –	Part F5 – Sound Transmission and Insulation					
Clause	Description	Status	Comments			
F5.1	Application of part	Applies	Applicable to Class 2 buildings			
F5.2	Determination of airborne sound insulation ratings	Noted	Construction required to have an airborne sound insulation rating must have the value for weighted sound reduction index (Rw) or weighted sound reduction index with spectrum adaptation term (Rw + Ctr) determined in accordance with AS/NZS1276.1, or ISO717.1 using result from laboratory measurements, or comply with Specification F5.2 of the BCA.			
F5.3	Determination of impact sound installation ratings	CRA	A floor required to have an impact sound insulation rating must have the required value for weighted normalised impact sound pressure level with spectrum adaptation term (Ln,w+Cl) determined in accordance with AS/ISO 717.2 using results from laboratory measurements or comply with Specification F5.2 of the BCA. A wall that is required to have an impact sound insulation rating must be of discontinuous construction. For the purposes of this Part, discontinuous construction means a wall having a minimum 20 mm cavity between 2 separate leaves, and for masonry, where wall ties are required to connect leaves, the ties are of the resilient type. For other than masonry, there is no mechanical linkage between leaves except at the periphery. Design verification to be provided prior to the issue of the Construction Certificate.			
F5.4	Sound insulation rating for floors	CRA	Floors separating sole occupancy units or separating sole occupancy units from a plant room, lift shaft, public lobby or the like or parts of different classifications must have an Rw + Ctr of not less than 50 and an Ln,w + Cl of not more than 62. A design certificate and details of form of construction required to achieve such will be required from a qualified acoustic engineer prior to the issue of a Construction Certificate.			



Part F5 -	Part F5 – Sound Transmission and Insulation				
Clause	Description	Status	Comments		
F5.5	Sound insulation rating of walls	CRA	A wall separating sole occupancy units must have an Rw + Ctr not less than 50. A wall separating a sole occupancy from a lift shaft, public lobby or the like, or parts of different classifications must have an Rw + Ctr not less than 50.		
			Compliance with F5.3(b) is required if the wall separates a bathroom, sanitary compartment, laundry or kitchen in one sole occupancy unit from a habitable room (excluding a kitchen) in another adjoining unit or a sole occupancy unit from a plant room or lift shaft.		
			A door may be incorporated in a wall that separates a sole occupancy unit from a stairway, public corridor, public lobby or the like, provided the door assembly has an Rw not less than 30.		
			Where a wall required to have sound insulation has a floor above, the wall must continue to the underside of the floor above or a ceiling that provides the sound insulation required for the wall.		
			Where a wall required to have sound insulation has a roof above, the wall must continue to the underside of the roof above or a ceiling that provides the sound insulation required for the wall.		
			A design certificate and details of form of construction required to achieve such will be required from a qualified acoustic engineer prior to the issue of a Construction Certificate.		
F5.6	F5.6 Sound insulation CRA rating of services		If a duct, soil, waste or water supply pipe, including a duct or pipe that is located in a wall or floor cavity, serves or passes through more than one sole-occupancy unit, the duct or pipe must be separated from the rooms of any sole-occupancy unit by construction with an Rw + Ctr (airborne) not less than—		
			(i) 40 if the adjacent room is a habitable room (other than a kitchen); or		
			(ii) 25 if the adjacent room is a kitchen or non-habitable room.		
			If a storm water pipe passes through a sole-occupancy unit it must be separated in accordance with (i) and (ii) above.		
			A design certificate and details will be required by a qualified acoustic engineer prior to the issue of a Construction Certificate.		
F5.7	Isolation of pumps	CRA	A flexible coupling must be used at the point of connection between the service pipes in a building and any circulating or other pump.		



Clause	- Condensation mana	Status	Comments
	•		Comments
F6.1	Application of Part	Applies	Applicable to a sole-occupancy unit of a Class 2 building or a Class 4 part of a building.
F6.2	Pliable building membrane	CRA	(a) Where a pliable building membrane is installed in an external wall, it must—
			(i) comply with AS/NZS 4200.1; and
			(ii) be installed in accordance with AS 4200.2; and
			(iii) be a vapour permeable membrane for climate zones 6, 7 and 8; and
			(iv) be located on the exterior side of the primary insulation layer of wall assemblies that form the external envelope of a building.
			(b) Except for single skin masonry and single skin concrete, where a pliable building membrane is not installed in an external wall, the primary water control layer must be separated from water sensitive materials by a drained cavity.
			Details and a design certificate to be provided prior to the issue of a Construction Certificate.
F6.3	Flow rate and discharge of	CRA	(a) An exhaust system installed in a kitchen, bathroom, sanitary compartment or laundry must have a minimum flow rate of—
	exhaust systems		(i) 25 L/s for a bathroom or sanitary compartment; and
			(ii) 40 L/s for a kitchen or laundry.
			(b) Exhaust from a kitchen must be discharged directly or via a shaft or duct to outdoor air.
			(c) Exhaust from a bathroom, sanitary compartment, or laundry must be discharged—
			(i) directly or via a shaft or duct to outdoor air; or
			(ii) to a roof space that is ventilated in accordance with F6.4.
			Details and design certification to be provided by mechanical engineer prior to the issue of a Construction Certificate.
F6.4	Ventilation of roof spaces	CRA	(a) Where an exhaust system covered by F6.3 discharges directly or via a shaft or duct into a roof space, the roof space must be ventilated to outdoor air through evenly distributed openings.
			(b) Openings required by (a) must have a total unobstructed area of 1/300 of the respective ceiling area if the roof pitch is greater than 22°, or 1/150 of the respective ceiling area if the roof pitch is less than or equal to 22°.
			(c) 30% of the total unobstructed area required by (b) must be located not more than 900 mm below the ridge or highest point of the roof space, measured vertically, with the remaining required area provided by eave vents.
			Details and design certification to be provided by mechanical engineer prior to the issue of a Construction Certificate.



SECTION G – ANCILLARY PROVISIONS

Part G1 -	Part G1 – Minor Structures and Components				
Clause	Description	Status	Comments		
G1.1 & NSW G1.1	Swimming pools	CRA	 This development includes a swimming pool. Note: Requirements for the Class 10b pool fall outside the scope of this BCA review. Please ensure NSW pool regulations are assessed by a suitably qualified consultant 		
G1.2	Refrigerated chambers, strong- rooms and vaults	N / A			
G1.101	Provision for cleaning windows	CRA	A safe manner of cleaning windows is to be provided as windows are located 3 or more storeys above ground level. The windows must either be able to be cleaned wholly from within the building, or a method complying with the Construction Safety Act 1912 and Regulations is required. Details verifying compliance must be provided prior to the issue of a Construction Certificate		

Part G2 – Heating appliances, fireplaces, chimneys and flues N / A

Part G3 – Atrium construction N / A

Part G4 – Minor Structures and Components N / A

Part G5 – Construction in bushfire prone areas N / A

SECTION H – SPECIAL USE BUILDINGS

N / A

SECTION I – MAINTENANCE

Note:

Essential Fire Safety Measures or other safety measures must be maintained and certified on a ongoing basis, in accordance with the provisions of the Environmental Planning and Assessment Regulation, 2000.



SECTION J – ENERGY EFFICENCY

A detailed assessment of Section J of the BCA is beyond the scope of this report.

A Section J compliance report is recommended to be provided prior to the issue of the Construction Certificate.



4.0. FIRE SAFETY SCHEDULES

Details on the proposed fire safety schedule are included in the following schedule.

4.1. Proposed Fire Safety Schedule

As a result of the works proposed under this development application, the draft proposed fire safety schedule for the site will be as follows;

ltem No.	Essential Fire and Other Safety Measures	Standard of Performance	Standard of Maintenance and supplementary fire safety statements	Proposed
1.	Fire rated access panels & doors/hoppers	BCA C3.13 (Openings in Shafts) AS 1905.1 -2015 (Fire Resistant Doorsets)	AS 1851 – 2012	ТВА
2.	Automatic fail safe devices - Break Glass release	BCA D2.21 (Operation of Latches) AS 1670.1 -2018 (Fire)		TBA
3.	Automatic fire detection & alarm - Fire Alarm / Smoke detection - BOWS	BCA E2.2a Clause 3 (Smoke alarm system) and Clause 6 (BOWS)	AS 1851 – 2012	\checkmark
4.	Emergency lighting	BCA E4.2 (Emergency Lighting requirements) E4.4 (Design and Operation – Emergency Lighting) E4.7 (Class 2, 3 and 4) AS 2293.1 –2018		~
5.	Exit signs	BCA E4.5 (Exit Signs) E4.6 (Direction Signs) E4.8 (Design and Operation - Exits) AS/NZS 2293.1 –2018		~
6.	Fire dampers	BCA E2.2a C3.15 and Spec C3.15 AS 1668.1 – 2015		ТВА
7.	Fire doors	BCA C2.12 (Separation of Equipment) C2.13 (Electricity Supply Systems) C3.4 (Methods of Protection) C3.10 (Opening in Fire Isolated Lift Shafts) AS 1735.11 - 1986 C3.11 (Bounding Construction) C3.13 (Opening in Shafts) D2.8 (Enclosure of Space under Stairs) AS 1905.1 – 2015	AS 1851 – 2012	~
8.	Fire seals	BCA C3.15, C3.16, Spec C3.15		\checkmark
9.	Construction Joints	BCA C3.16 AS 1530.4 - 2014		~
10.	Fire windows	BCA Spec. C3.4		\checkmark



ltem No.	Essential Fire and Other Safety Measures	Standard of Performance	Standard of Maintenance and supplementary fire safety statements	Proposed
11.	Lightweight construction - Fire Rating of Electrical Switchboard - Fire Rating of ceiling located	BCA C1.8 and AS 1530.4 - 2014		✓
12.	Path of travel for stairways, passageway and ramps	EP&A Reg. 2000 Clauses 184-186		\checkmark
13.	Portable fire extinguishers	BCA E1.6 AS 2444 – 2001	AS 1851 – 2012	\checkmark
14.	Portable fire blankets	AS 2444 – 2001		\checkmark
15.	Required Automatic Doors	D2.19 (Doorways and Doors)		
16.	Smoke doors	BCA Spec. C3.4		\checkmark
17.	Warning & operational signs	D2.23 (Signs on Fire Doors) E3.3 (Lift Sign), EPA Regs 2000, Clause 183 Local Gov 654 & 657		~
18.	OTHER	Performance Solution		\checkmark

4.2. Certification of Essential Fire Safety Measures

Pursuant to Section 169 of the Environmental Planning and Assessment Regulations 2000, it will be necessary for the owner of the building, on completion of work to furnish a Final Fire Safety Certificate with regard to each essential fire safety measure identified in the proposed Fire Safety Schedule listed above.

The final fire safety certificate must state that each essential fire safety measure specified in the fire safety schedule for the building to which the certificate relates:

- (a) has been assessed by a properly qualified person, and
- (b) was found, when it was assessed, to be capable of performing to at least the standard required by the current fire safety schedule for the building for which the certificate is issued.

Every year, the owner(s) will need to sign and submit an Annual Fire Safety Statement to the Local Council and the NSW Fire Brigades, which confirms that all essential fire safety measures have been tested and maintained and perform to the original design and installation standard. A copy of the Annual Fire Safety Statement must also be displayed in prominent areas of the buildings (i.e. the main entrance foyers).



5.0. CONCLUSION

Although demonstrating compliance with the BCA at DA assessment stage is not a prescribed head of consideration under Section 4.15 (formally Section 79C) of the Environmental Planning & Assessment Act 1979, Council has an obligation to consider whether the proposal, as lodged, is indicatively capable of complying with the BCA - without significant modification to those plans for which approval is sought.

In this instance we are confident that any modifications and advancement in level of details required to the proposal in order to satisfy the requirements of the BCA (in force at the time the Construction Certificate application is lodged) will **not** necessitate the need for any significant design changes that in turn would necessitate the submission of an application under Section 4.55 (formally Section 96) of the Environmental Planning and Assessment Act 1979.

In the same regard, we draw Council's attention to the requirements of clause 145 of the Environmental Planning & Assessment Regulation 2000, and suggest that detailed & specific BCA compliance matters shall be addressed to the satisfaction of the appointed Certifying Authority prior to the issue of the Construction Certificate.

Further, it is considered that this BCA review and the additional preparation of the required Construction Certificate documentation will be sufficient to ensure that the proposed design will achieve the necessary compliance with the BCA.

PREPARED BY:

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APPENDIX A – FIRE RESISTANCE LEVELS

Building element	Class of building — FRL: (in minutes) Structural adequacy/Integrity/Insulation						
	2, 3 or 4 part	5, 7a or 9	6	7b or 8			
EXTERNAL WALL (including any				other external building			
element, where the distance from a	any fire-source featur	e to which it is expose	sed is—				
For loadbearing parts—							
less than 1.5 m	90/90/90	120/120/120	180/180/180	240/240/240			
1.5 to less than 3 m	90/ 60/ 60	120/90/90	180/180/120	240/240/180			
3 m or more	90/ 60/ 30	120/ 60/ 30	180/120/ 90	240/180/ 90			
For non-loadbearing parts—							
less than 1.5 m	-/ 90/ 90	-/120/120	-/180/180	-/240/240			
1.5 to less than 3 m	-/ 60/ 60	-/ 90/ 90	-/180/120	-/240/180			
3 m or more	_/_/_	_/_/_	_/_/_	_/_/_			
EXTERNAL COLUMN not incorporated in an external wall—							
For loadbearing columns—	90/_/_	120/—/—	180/_/_	240/-/-			
For non-loadbearing columns-	_/_/_	_/_/_	_/_/_	_/_/_			
COMMON WALLS and FIRE	90/ 90/ 90	120/120/120	180/180/180	240/240/240			
WALLS—							
INTERNAL WALLS—							
Fire-resisting lift and stair shafts-		_	_	_			
Loadbearing	90/90/90	120/120/120	180/120/120	240/120/120			
Non-loadbearing	-/ 90/ 90	-/120/120	-/120/120	-/120/120			
Bounding public corridors, public lo	bbies and the like—						
Loadbearing	90/ 90/ 90	120/—/—	180/_/_	240/-/-			
Non-loadbearing	-/ 60/ 60	_/_/_	_/_/_	_/_/_			
Between or bounding sole-occupan	ncy units—	•	•	•			
Loadbearing	90/90/90	120/—/—	180/_/_	240/–/–			
Non-loadbearing	-/ 60/ 60	_/_/_	_/_/_	_/_/_			
Ventilating, pipe, garbage, and like	shafts not used for the	he discharge of hot p	products of combusti	on—			
Loadbearing	90/ 90/ 90	120/90/90	180/120/120	240/120/120			
Non-loadbearing	padbearing –/ 90/ 90		-/120/120	-/120/120			
OTHER LOADBEARING INTERN	AL WALLS, INTERN	AL BEAMS, TRUSS	SES	•			
and COLUMNS—	90/_/_	120/–/–	180/_/_	240/-/-			
FLOORS	90/ 90/ 90	120/120/120 180/180/180		240/240/240			
ROOFS	90/ 60/ 30	120/ 60/ 30	180/60/30	240/ 90/ 60			

Table 3 TYPE A CONSTRUCTION: FRL OF BUILDING ELEMENTS

Note: Under Spec C1.1, there are many individual additional requirements and concessions which need to be assessed and read in conjunction with this Specification. Your engineer is to confirm compliance with all required Fire Rated Elements.

General Requirements:

- Exposure to Fire-source featuresFire Protection for a supporting of another part
- Lintels
- Attachments not to impair fire-resistance
- General concessions



Fire-resistance of building elements:

In a building required to be of Type A construction

(a) each building element listed in Table 3 and any beam or column incorporated in it, must have an FRL not less than that listed in the Table for the particular Class of building concerned; and

(b) external walls, common walls and the flooring and floor framing of lift pits must be non-combustible; and (c) any internal wall required to have an FRL with respect to integrity and insulation must extend to;

(i) the underside of the floor next above; or

(ii) the underside of a roof complying with Table 3; or

(iii) if under Clause 3.5 the roof is not required to comply with Table 3, the underside of the non-combustible roof covering and, except for roof battens with dimensions of 75 mm x 50 mm or less or sarking-type material, must not be crossed by timber or other combustible building elements; or

(iv) a ceiling that is immediately below the roof and has a resistance to the incipient spread of fire to the roof space between the ceiling and the roof of not less than 60 minutes; and

(d) a loadbearing internal wall and a loadbearing fire wall (including those that are part of a loadbearing shaft) must be of concrete or masonry; and

(e) a non-loadbearing

(i) internal wall required to be fire-resisting; and

(ii) lift, ventilating, pipe, garbage, or similar shaft that is not for the discharge of hot products of combustion, must be of non-combustible construction; and

(f) the FRLs specified in Table 3 for an external column apply also to those parts of an internal column that face and are within 1.5 m of a window and are exposed through that window to a fire-source feature.



APPENDIX B – REFERENCED DOCUMENTATION

Drawing No.	Title	Rev.	Project No.	Date	Drawn By
D101	Basement Floor Plan – Proposed	2	1137	28/11/19	Buck and Simple
D103	Ground Floor Plan – Proposed	2	1137	28/11/19	Buck and Simple
D104	First Floor Plan – Proposed	2	1137	28/11/19	Buck and Simple
D300	Section 1 – Existing, Demo & Proposed	2	1137	28/11/19	Buck and Simple
D301	Sections – Existing, Demo & Proposed	2	1137	28/11/19	Buck and Simple
D400	North Elevations – Existing, Demo & Proposed	2	1137	28/11/19	Buck and Simple
D400	North Elevations – Existing, Demo & Proposed	2	1137	28/11/19	Buck and Simple
D401	South Elevations – Existing, Demo & Proposed	2	1137	28/11/19	Buck and Simple
D402	East Elevations – Existing, Demo & Proposed	2	1137	28/11/19	Buck and Simple
D403	West Elevations – Existing, Demo & Proposed	2	1137	28/11/19	Buck and Simple

The following documentation was used in the preparation of this report: