

BCA & ACCESS 2019 A1 INDICATIVE COMPLIANCE REPORT FOR DA LODGEMENT

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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 Amendment 1 (NBCA) assessment of the proposed residential flat building as required under Clause 145 of the Environmental Planning and Assessment Regulations.

The development incorporates the demolition of existing structures and construction of a new eight (8) storey building comprising of forty-four (44) residential apartments, a communal swimming pool located on the Ground Floor, and associated carparking spaces located on the Basement and Lower Ground Floor Levels.



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. AS4299-1995 Adaptable Housing

Reference is made within this report to adaptable housing, however a formal access consultant should be engaged to undertake a final detailed assessment against AS4299.1995. As listed under AS4299-1995 Adaptable Housing the objectives for adaptable housing are as follows:

OBJECTIVES

- 1. That housing be designed and constructed or altered in a way which satisfies the performance requirements for adaptable housing enumerated in Clause below.
- 2. That housing is designed in such a way that later alterations to suit individual requirements will be achievable at minimal extra initial cost.
- 3. That housing be designed in such a way that it will easily adapt to suit the widest possible range of lifetime needs. This will include the needs of people with physical disabilities (including people who use wheelchairs, people with disabilities who are ambulant, and people with manipulatory disabilities); people with sensory disability (vision, hearing) and people with intellectual disability.
- 4. The initial design will allow for visibility through an accessible path of travel to the living room and toilet.

PERFORMANCE REQUIREMENTS

- 1. Adaptable housing units shall be designed and
- 2. constructed to meet the following requirements:
 - (a) **Visitability** To be visitable by people who use wheelchairs, in that there must be at least one wheelchair accessible entry and path of travel to the living area and to a toilet that is either accessible or visitable.
 - (b) **Avoidance of level changes** To have no steps and to avoid level changes where possible.
 - (c) **Manoeuvrability** This shall include the following:
 - i. To provide space sufficient to manoeuvre a wheelchair within a living area, the kitchen and an accessible path of travel linking these areas.

NOTE: Although not required for visibility, the kitchen is included as an initial spatial requirement for manoeuvrability, as there is significant expense involved in changing the kitchen layout at a later date.

- ii. To provide space sufficient to manoeuvre a wheelchair within a bedroom, a bathroom and a toilet or to provide a design and details whereby after adaptation there will be sufficient space to manoeuvre a wheelchair within these facilities and an accessible path of travel linking these facilities to the entry, living and kitchen areas.
- (d) **Ease of adaptation** If the design for adaptation requires further demolition of walls then these walls shall be non load-bearing and free of electrical and plumbing services.
- (e) **Ease of reach** To provide electrical controls, taps, and some shelves and cupboards at levels to suit people who use wheelchairs.
- (f) **Future laundry facilities** To provide laundry facilities that after adaptation will be accessible to people who use wheelchairs. Those laundry facilities may be external to the adaptable housing unit, providing a wheelchair accessible path of travel is available from the adaptable housing unit to the laundry facilities.

NOTES: There are no set design solutions, but a huge variety of ways of adapting a design to meet these criteria is possible. Designers are encouraged to use imaginative design within these broad parameters. An example of an adaptable house design is shown in Appendix C.



POTENTIAL FOR ADAPTATION

1. To obtain certification as an adaptable housing unit, 'as built' drawings showing the housing unit in its pre-adaptation and post-adaptation stages shall be provided. A description of how the adaptation is to be achieved shall also be provided.

1.4. 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 Amendment 1 including the NSW variations where applicable.

1.5. 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 Amendment 1 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.

1.6. 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.
- Building Innovations Australia Pty Ltd cannot guarantee acceptance of this report by the Local Council, NSW Fire Brigades or other approval authorities.
- Without written permission from Building Innovations Australia Pty Ltd, no part of this document may be reproduced in any form or by any means. This report is based solely on client instructions, and therefore should not be used by any third party without prior knowledge of such instructions.

1.7. 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 an alternative 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 A1, compliance with the Disability (Access to Premises — Buildings) Standards 2010 would inherently comply.



1.8. 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 A1 (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 seven (7) as illustrated below;

The number of storeys contained is eight [8).



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 7a	Carpark	-
Lower Ground Floor	Lower Ground Plan	Class 2 & 7a	Residential & Carpark	1
Ground Floor	Ground Floor Plan	Class 2 & 10b	Residential & Swimming Pool	2
First Floor	Level 1 Floor Plan	Class 2	Residential	3
Second Floor	Level 2 Floor Plan	Class 2	Residential	4
Third Floor	Level 3 Floor Plan	Class 2	Residential	5
Fourth Floor	Level 4 Floor Plan	Class 2	Residential	6
Fifth Floor	Level 5 Floor Plan	Class 2	Residential	7
Roof	Roof Plan	-	-	-



2.4. Effective Height (Schedule 3)

The building has an effective height (EH) of approximately **20.45m** when measured from the floor of the topmost storey which is greater than 12m but less than 25m.

*Lowest Point taken @ RL 29.95 (Approx.)

*Highest Point taken @ RL 50.40



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 ARE		
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 in to 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 Amendment 1 (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 A1.



3.1. BCA 2019 A1 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	Determination of structural resistance of	CRA	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		
C1.1 Type of construction	CRA	The building is to be erected in Type 'A' fire resisting construction in accordance with Specification C1.1 of the BCA.			
	required		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 seven (7). The building contains eight [8) 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	.8 Lightweight construction	- J J	5 5	J J	CRA	Lightweight construction used in 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 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	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			

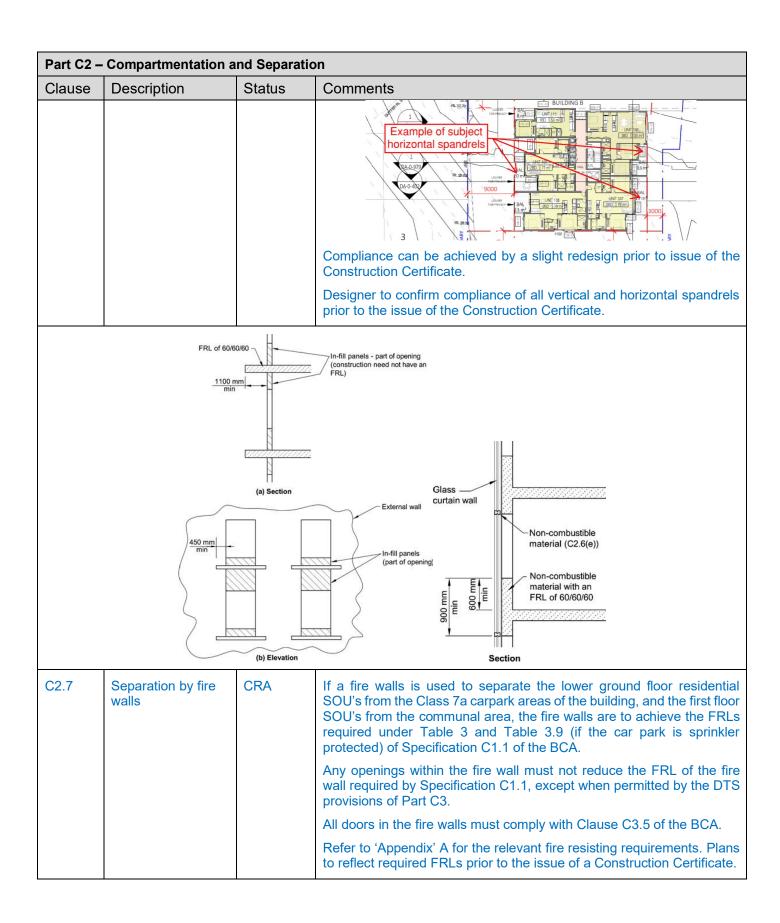


Description	Status	
		Comments
		Attachments
		Proposed attachments are to comply with the requirements of C1.9 and C1.14 of the BCA as applicable:
		6 Example of subject attachments
		Design certification will be required verifying compliance prior to the issue of a Construction Certificate.
Fire hazard 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.
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.
-	-	No provisions
Fire-protected timber: Concession	N / A	
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.
	properties Performance of external walls in fire - Fire-protected timber: Concession	propertiesPerformance of external walls in fireFire-protected timber: Concession-



Part C2 – Compartmentation and Separation				
Description	Status	Comments		
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.		
General floor area limitations	Complies	All parts of the building comply and are within compartment limitations.		
Large isolated buildings	N / A			
Requirements for open spaces and vehicular access	N / A			
Class 9a and 9c buildings	N / A			
Vertical separation of Openings in external walls	CRA	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		
		Vertical Spandrels throughout the building appear to extend not less than 900mm in height and 600mm above the upper surface of the intervening floor		
		Horizontal Spandrels		
		Horizontal spandrels throughout the building appear to extend 450mm along the wall.		
		Numerous horizontal spandrels throughout the building may not extend 1100mm past the external face of the wall with openings. All openings with the following configuration shall be checked and adjusted to ensure they comply with the requirements of this Clause.		
		1 04-300 1 1 1 1 1 1 1 1 1 1 1 1 1		
	DescriptionApplication of PartGeneral floor arealimitationsLarge isolatedbuildingsRequirements for open spaces and vehicular accessClass 9a and 9cbuildingsVertical separation of Openings in	DescriptionStatusApplication of PartNotedGeneral floor area limitationsCompliesLarge isolated buildingsN / ARequirements for open spaces and vehicular accessN / AClass 9a and 9c buildingsN / AVertical separation of Openings inCRA		







Part C2 -	Part C2 – Compartmentation and Separation				
Clause	Description	Status	Comments		
	Example of s firewall loca	DEEP SOL POOL PLAN POOL PLAN POOL PLAN WW TOTOP SOL POOL PLAN WW TOT	BURNAW JARVES ARANCE 1200M M ARANCE 1200M ARANE ARANCE 1200M ARANE ARANCE 1200M ARANE ARANE 1200M ARANE 1200M ARANE ARANE 1200M ARANE 1200		
C2.8	Separation of classifications in the same storey	CRA	 The lower ground floor level carpark may be separated from the residential areas using either of the following methods which include: All building elements of the lower ground 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 different storeys	CRA	 The floor slab separating the different storeys require an FRL of: Basement/lower ground floor FRL 120/120/120; Lower ground/ground floor FRL to be determined by designer prior to the issue of the Construction Certificate; Ground/first floor FRL 90/90/90; Second/third floor FRL 90/90/90; Third/fourth floor FRL 90/90/90; Fourth/fifth 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. 		



Clause	Description	Status	Comments
	RL 45.95 RL 45.		Image: state
C2.10	Separation of lift shafts	CRA	Any lift connecting more than 2 storeys building must be separated from the remainder of the building with material that achieves an FRL appropriate to that storey as required by Table 3 of Specification C1.1 and if required to be an emergency lift of not less than 120/120/120. Any opening in the fire-isolated lift shaft must be protected in accordance with Clause C3.10 of the BCA. Design verification to be provided prior to the issue of the Construction Certificate.
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. Both the stairway & lift appear to be in separate shafts.
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.

Note: Clause 6.4.2 of AS 2419.1-2005 requires that an internal pumproom located within the building shall have the following:

- 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
- Except where the building is sprinkler protected in accordance with AS 2118.1, enclosing walls with an FRL not less than that prescribed by the BCA for a firewall for the particular building classifications served by the fire hydrant system.



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



Part C3 -	Protection of Openir	ngs	
Clause	Description	Status	Comments
C3.1	Application of Part	Noted	Concessions and definition of certain openings.
C3.2	Protection of openings in external walls	Noted	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.
			No openings throughout the development appear to be located within 3m of the side allotment boundary.
			Design verification to be provided 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	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/
			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	CRA	If the lower ground floor Class 7a carpark are to be separated using fire walls, all doors in the fire walls are to be protected in accordance with Clause C3.5 of the BCA.
			Design certification will be required verifying compliance prior to the issue of a Construction Certificate.
C3.6	Sliding fire doors	N / A	
C3.7	Protection of doorways in horizontal exits	Noted	
C3.8	Openings in fire isolated exits	CRA	-/60/30 self-closing fire doors are required to doorways providing access to fire isolated passageways.
			Details verifying compliance must be provided on plans prior to the issue of a Construction Certificate.
C3.9	Service penetrations in fire isolated exits	CRA	Where provided, fire-isolated exits must not be penetrated by any services other than electrical wiring for essential fire service installations, pressurisation ducts with an FRL of –/120/60, or water pipes for fire services are not permissible.



Clause	Description	Status	Comments
Clause	Description	Otatus	Note: Due care to be taken by services consultants to ensure compliance.
			Details verifying compliance must be provided on plans prior to the issue of a Construction Certificate.
C3.10	Openings in fire isolated lift shafts	CRA	Openings in lift shafts are to be protected by –/60/– fire doors complying with AS1735.11.
			Lift indicator panels are to be backed by construction having an FRL of not less than -/60/60 if it exceeds 35,000mm ² (175mm X 200 mm).
			Details verifying compliance must be provided on plans prior to the issue of a Construction Certificate.
C3.11	Bounding construction: Class 2, 3, and 4 buildings	PS	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		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.
			Details verifying compliance must be provided on plans prior to the issue of a Construction Certificate.
			Lower Ground Floor Level
			Internal common areas within the enclosed residential corridors on the Lower Ground Floor Level do not appear to be protected in accordance with this clause, should the subject hall be used as a path of exit for a second stairway.
			Example of subject internal common areas Access EAS bit Water and a common areas Bit Water and a common area Bit
			Compliance can be achieved via undertaking a fire engineering performance solution c prior to the issue of the Construction Certificate.



Part C3 –	Part C3 – Protection of Openings			
Clause	Description	Status	Comments	
			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.	
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.	



Part C3 – Protection of Openings			
Clause	Description	Status	Comments
C3.17	C3.17 Columns protected with lightweight	CRA	Columns must be protected in accordance with the identical tested prototype.
	construction		Details verifying compliance must be provided on plans prior to the issue of a Construction Certificate.

Specifica	tion C1.1–Fire-Resist	ing Constru	ction
Clause	Description	Status	Comments
Spec C1.1	Requirements for Type A construction	CRA or PS	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.
			BUILDING A BEAM BEAM AND
			Garbage & Storage Rooms
			The Basement and Lower Ground Floor garbage and storage rooms are to be enclosed with FRL 120/120/120 construction and fitted with FRL –/120/30 fire doors in accordance with Specification C1.1 of the BCA.
			CLEARACE 2.300 MM B 2 ACCESSIBLE CAR SPACE 18 BICYCLES SPACE 18 BICY



Specifica	Specification C1.1–Fire-Resisting Construction			
Clause	Description	Status	Comments	
			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.	
			6 Example of subject attachments	
			Should material that does not form part of a tested system be utilised such as Dincel, AFS Rediwall or the like, compliance can be achieved via a fire engineering performance solution undertaken prior to the issue of the Construction Certificate.	
			Compliance can be achieved via slight redesign or alternatively a fire engineering performance solution can be undertaken prior to the issue of the Construction Certificate.	
			Details verifying compliance must be provided on plans prior to the issue of a Construction Certificate.	



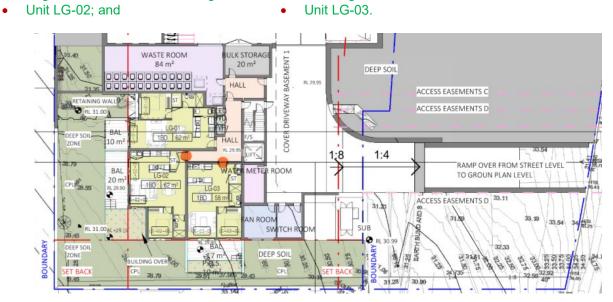
SECTION D – ACCESS AND EGRESS

Part D1 -	Provision for Escape	9	
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	PS	Building has effective height less than 25m.
	required		The ground to fifth floor storey is to have at least one (1) exit.
			The lower ground floor is provided with one (1) exit in lieu of two (2) exits as required by $D1.2(c)$.
			Compliance to be achieved by a fire engineering performance solution to be conducted prior to the issuance of the Construction Certificate.
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.
			In a Class 5, 6, 7, 8 or 9 building, every stairway or ramp serving as a required exit must be fire-isolated unless it connects, passes through or passes by not more than 2 consecutive storeys and one extra storey of any classification may be included if—
			 the building has a sprinkler system (other than a FPAA101D system) complying with Specification E1.5 installed throughout; or
			 the required exit does not provide access to or egress for, and is separated from, the extra storey by construction having—
			\circ an FRL of –/60/60, if non-loadbearing; and
			 an FRL of 90/90/90 for Type A construction or 60/60/60 for Type B construction, if loadbearing; and
			 no opening that could permit the passage of fire or smoke.
			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	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 fire engineering performance solution undertaken prior to the issue of the Construction Certificate.



Lower Ground Floor

The following SOU's retain distances of greater than 6m to a single exit and include:



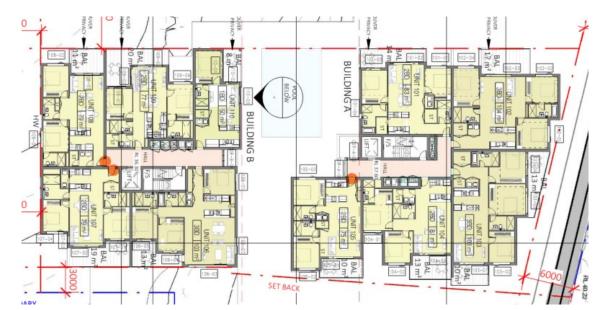
First & Second Floors

•

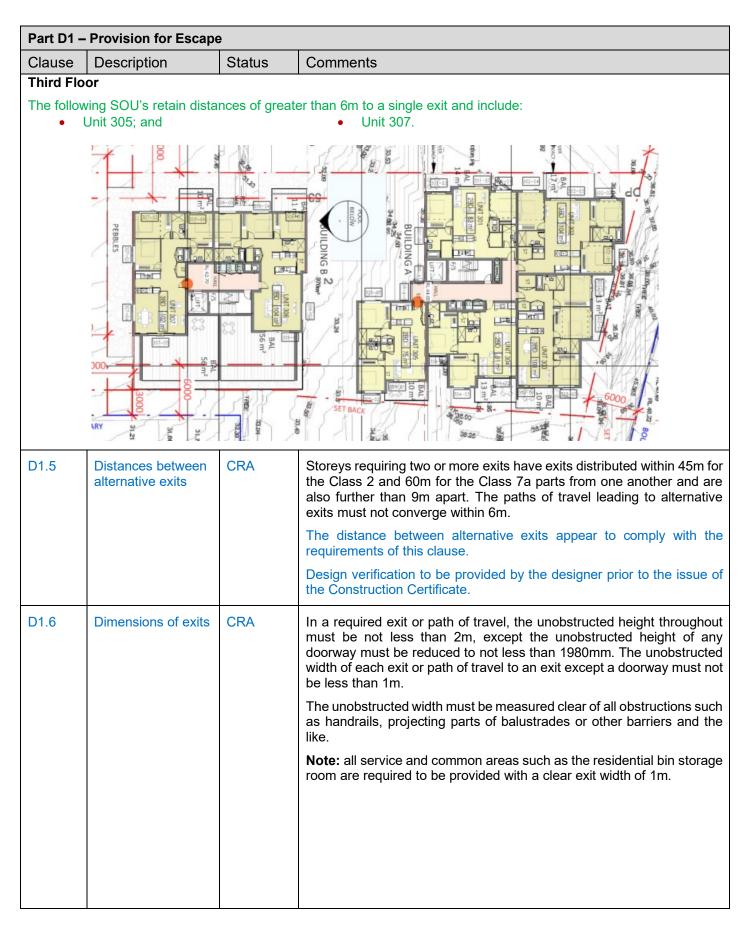
The following SOU's retain distances of greater than 6m to a single exit and include:

Units 105 & 205; Units 108 & 208.

• Units 107 & 207; and









Clause	Description	Status	Comments
Olause	Description	Otatus	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.
			The fire isolated exit stairways must incorporate a single hand rail as required by the BCA, the stairs are to be >1.1m wide to cater for the requirement.
			Lower Ground Level
			The non-fire isolated stairway serving the Lower Ground Floor must incorporate double handrail as required under D3, stairs are to be >1.2m wide. With double handrails, the stairway may retain an unobstructed width of < 1m.
			RL 29.95 RL 29.
			Details verifying compliance must be provided on plans prior to the issue of a Construction Certificate.
D1.7	Travel via fire- isolated exits	PS	Each fire-isolated stairway or fire-isolated ramp must provide independent egress from each storey served and discharge directly, or by way of its own fire-isolated passageway, either:
			• Direct: to a road or open space; or
			• Open Area: to a point in a storey or space, within the confines of the building, that is used only for pedestrian movement, car parking or the like and is open for at least 2/3 of its perimeter; and from which an unimpeded path of travel, not further than 20 m, is available to a road or open space; or
			• Covered Area: into a covered area that adjoins a road or oper space, is open for at least 1/3 of its perimeter, has an unobstructed clear height throughout of not less than 3 m (inc. perimeter openings), and provides an unimpeded path of travel from the point of discharge to the road or open space of not more than 6 m.



Part D1 -	Part D1 – Provision for Escape				
Clause	Description	Status	Comments		
			Covered Area Discharge Points		
			The current design of numerous fire isolated stairways serving the basement level and residential units discharges in a covered area within the confines of the building not 1/3 of the perimeter open and/or has an unobstructed height of less than 3m and/or discharges less than 6m from a road or open space.		
			Subject in the second		
			External Wall Openings in Path of Travel		
			<text></text>		
			Air Lock		
			An air lock is required to be provided to the subject fire pump room within the Basement level into the fire-isolated stairway.		
			engineering alternative solution can be undertaken prior to the issue of the Construction Certificate.		



Part D1 -	Part D1 – Provision for Escape			
Clause	Description	Status	Comments	
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.	
			In a Class 9b building, a required non-fire-isolated stairway or ramp serving the assembly parts of the building 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.	
			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.	
			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		



Part D1 -	Part D1 – Provision for Escape						
Clause	Description	Status	Comments				
D1.17	Access to lift pits	CRA	Final details as to the lift shafts and pits are required.				
DANGER: LIFTWELL ENTRY OF UNAUTHORISED PERSONS PROHIBITED KEEP CLEAR AT ALL TIMES			(a) where the pit depth is not more than 3 m, be through the lowest landing doors; or				
			(b) where the pit depth is more than 3 m, be provided through an access doorway complying with the following:				
			(i) In lieu of D1.6, the doorway must be level with the pit floor and not be less than 600 mm wide by 1980 mm high clear opening, which may be reduced to 1500 mm where it is necessary to comply with (ii).				
			(ii) No part of the lift car or platform must encroach on the pit doorway entrance when the car is on a fully compressed buffer.				
			(iii) Access to the doorway must be by a stairway complying with AS 1657.				
			(iv) In lieu of D2.21, doors fitted to the doorway must be—				
			(A) of the horizontal sliding or outwards opening hinged type; and				
			(B) self-closing and self-locking from the outside; and				
			(C) marked on the landing side with the letters not less than 35 mm high:				
			"DANGER LIFTWELL - ENTRY OF UNAUTHORIZED PERSONS PROHIBITED - KEEP CLEAR AT ALL TIMES"				
D1.18	Egress from early childhood centres	N / A	The subject building does not contain any Class 9b early childhood centre parts.				



Part D2 -	Part D2 – Construction of Exits					
Clause	Description	Status	Comments			
D2.1	Application of Part	Noted				
D2.2	Fire isolated stairs or ramps	CRA	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. Engineering details are to be submitted with the Construction Certificate			
			Documentation.			
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	PS	If a stairway serving as an exit is required to be fire-isolated, there must be no direct connection between a flight rising from a storey below the lowest level of access to a road or open space and a flight descending from a storey above that level. Furthermore, any construction that separates or is common to the rising and descending flights must be non-combustible; and smoke proof in accordance with Clause 2 of Specification C2.5.			
			Compliance can be achieved via undertaking a fire engineering			
			performance solution prior to the issue of the Construction Certificate.			
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.			

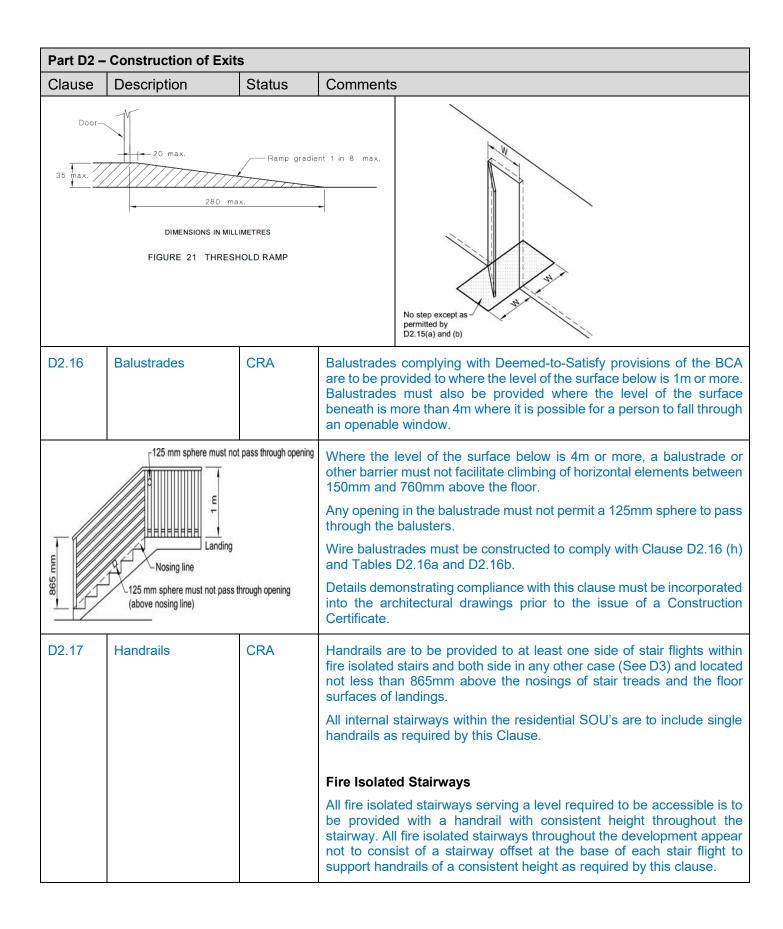


Part D2 – Construction of Exits					
Clause	Description	Status	Comments		
D2.8	Enclosure of space under stairs and ramps	CRA	The space below required fire-isolated stairs must not be enclosed to form a cupboard or similar enclosed space. The space below required non-fire-isolated stairs must not be enclosed 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. There is to be no form of cupboard or similar enclosed space within any		
			of the required stairways. 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	CRA	(a) The enclosing construction of a fire-isolated passageway must have an FRL when tested for a fire outside the passageway in another part of the building of—		
			(i) if the passageway discharges from a fire-isolated stairway or ramp — not less than that required for the stairway or ramp shaft; or		
			(ii) in any other case — not less than 60/60/60.		
			(b) Notwithstanding (a)(ii), the top construction of a fire-isolated passageway need not have an FRL if the walls of the fire-isolated passageway extend to the underside of—		
			(i) a non-combustible roof covering; or		
			(ii) a ceiling having a resistance to the incipient spread of fire of not less than 60 minutes separating the roof space or ceiling space in all areas surrounding the passageway within the fire compartment.		
			Final details are to be submitted with the Construction Certificate Documentation.		
D2.12	Roof as open space	N/A			



Boings 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 gabetween 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 fitted with non-slip finish or non-skid strips compliant with the requirements Table D2.14 when tested in accordance with AS4586-2013 and 30 colour contrasting nosings. Final details are to be submitted with the Construction Certification are to be fitted with the construction Certification are to be submitted with the construction certification are to b		
andings		 2R+G=700(max) and 550(min). Goings and risers are to be consistent throughout in one flight. Any gabetween 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 fitted with non-slip finish or non-skid strips compliant with the requirements Table D2.14 when tested in accordance with AS4586-2013 and 30 colour contrasting nosings. Final details are to be submitted with the Construction Certification 		
andings		 Goings and risers are to be consistent throughout in one flight. Any gabetween 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 fitted with non-slip finish or non-skid strips compliant with the requirements Table D2.14 when tested in accordance with AS4586-2013 and 30 colour contrasting nosings. Final details are to be submitted with the Construction Certification are to be sub		
andings		 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 fitted with non-slip finish or non-skid strips compliant with the requirements Table D2.14 when tested in accordance with AS4586-2013 and 30 colour contrasting nosings. Final details are to be submitted with the Construction Certifical 		
andings		 or more than 18 risers. All treads and surfaces with a slip resistant classification are to be fitted with non-slip finish or non-skid strips compliant with the requirements. Table D2.14 when tested in accordance with AS4586-2013 and 30° colour contrasting nosings. Final details are to be submitted with the Construction Certification. 		
andings		 with non-slip finish or non-skid strips compliant with the requirements Table D2.14 when tested in accordance with AS4586-2013 and 30 colour contrasting nosings. Final details are to be submitted with the Construction Certifical 		
andings				
andings		Documentation.		
andings CRA	CRA	 Landings must comply with the requirements of Clause D2.14 of the BCA. Landings must be not less than 750mm long and have a non-slifinish throughout or an adequate non-skid strip near the edge of the landing where it leads to a flight below and 30% colour contrasting nosings. Strips at the edge of the landing with slip-resistance classification in less than that listed in Table D2.14 when tested in accordance with A 1520 0010 where the near the landing between the		
		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 Certifica Documentation.		
hresholds	CRA A threshold of a doorway must not incorporate a step of point closer to the doorway than the width of the door I door opens to a road or open space, external stair land balcony and the doorsill is not more than 190mm above surface of the ground balcony or the like to which the door surface of the grou			
		Final details are to be submitted with the Construction Certifica Documentation.		
d	oor is in a path of	resholds CRA		







Part D2 -	2 – Construction of Exits				
Clause	Description	Status	Comments		
			Compliance can be achieved by a slight redesign prior to issue of the Construction Certificate.		
D2.18	Fixed platforms walkways, stairways and ladders	CRA	Fixed platforms, walkways, stairways, ladders, landings, handrails, balustrades and any tread or riser in a plant room, lift motor room or the like is to comply with AS1657.		
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. 		



Part D2 –	Construction of Exit	s	
Clause	Description	Status	Comments
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.
			Door Swings
			The door swings pertaining to the required exits appear to comply with the requirements of this clause, with the exception of the subject doors of the Ground Floor fire isolated stairways and pool area:
			Subject door swings BAL BUILDING A BUILDING
			Compliance can be achieved via slight redesign of the existing design prior to the issue of the Construction Certificate.
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.



Part D2 -	Construction of Ex	its	
Clause	Description	Status	Comments
	(a	i) Isometric view	5 m 35 to 45 m
FIGURE 35(A) EXAMPLE OF ACCEPTABLE DOOF HINGED DOORS			DR HARDWARE FOR SECTIONAL ELEVATION ISOMETRIC VIEW
D2.22	Re-entry fire- isolated exits	N / A	
D2.23	Signs on doors	CRA	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
FIR SLIC By v Enviro (a) to impe (b) to or ir doo	E SAFETY DO NOT OBSTRUC DO NOT KEEP OPE E SAFETY DO NOT OBSTRUC WARNING OFFENCES RELATING TO FIRE EXITS virtue of the regulations uncommental Planning And Ass Act 1979, it is an offence place anything in this exit th de the free passage of person interfere with or cause obson prediment to, the operation rs providing access to this of to remove, damage or othe interfere with this notice.	er the essment hat may ions, or truction of the exit, or	 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 a auto-closing or fire trip is to incorporate the following wording: "FIRE SAFETY DOOR—DO NOT OBSTRUCT" A Self-Closing Fire Doors are to incorporate the following wording: "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 a doorway providing access to, but not within, that stairway, passageway or ramp: OFFENCE RELATING TO FIRE EXITS 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



Part D2 –	art D2 – Construction of Exits										
Clause	Description	Status	Comn	nents							
with AS 19	All fire doors and frames are to be tagged in accordance with AS 1905.1-2015 and a complete door schedule is to be provided at the Occupation Certificate Stage.						FIRE DOORFRAME (DOOR LEAF)—TO AS 1905.1:XXXX FRL -/60/30 MANUFACTURED BY (BUSINESS NAME) DOORSET CERTIFIER—(BUSINESS/INDIVIDUAL NAME) DOOR NUMBER YEAR OF MANUFACTURE				
Clearances	under and the side of fir	e doors are to l	be in acc	ordance wit	h AS 190	5.1 - 20′	15				
25 mm max	25 mm max. 25 mm max.					KA A A A A A A A A A A A A A A A A A A				min. n max.	combustible hold
	(a) With a combustible floor	covering			(b) With		nbustible fl e Resistant Do			100	
					Drais et nome:						
					Project name: Building addre Building owne representative Door identifica	ess: r/ e:			of installation of certification		
	(Company N	-			number Door location					_	
	FIRE DOOR CER Certificate Number				Door leaf type	and					
					manufacturer Door facing ar	nd edging					
Project Name					material Door dimensio	ons	Width		Height	Thic	kness
					Frame type ar manufacturer	nd					
Building Own					Frame fixing a					_	
Representativ	е.				backfill materi Wall type and					_	
Building Addr	ess:				Doorset FRL						
					Doorset hardv Lock	vare Make	Model	Туре	Materials	Materials	FRL
The member	company nominated certifies the follo	wina:			Furniture	Make	Model	Туре	on leaf Materials	on frame Materials	FRL
	doorsets installed in this building con	-	xxx.						on leaf	on frame	
	doorsets are labelled as required by t	the appropriate regula	tory authoritie	es in	Fixtures	Make	Model	Туре	Materials on leaf	Materials on frame	FRL
accordar with Aust	tralian Standard AS 1905.1:XXXX.				Fittings	Make	Model	Туре	Materials on leaf	Materials on frame	FRL
	I dealing with the fire-resistant doors d in accordance with AS 1905.1:XX		ilding has be	en	Vision panel	Make	Model	Туре	Materials on leaf	Materials on frame	FRL
	based copy of the manual has been		a		XXXX	Make	Model	Туре	Materials on leaf	Materials on frame	FRL
	presentative.				Test report				on rear	on nume	
Certified by:			Member Com	nany	references Assessment						
Certified by:			Nember Com	party	report references						
	ifier:				Date of final ir Date of Certifi	· .	Certificate N Doorset and (if a No.	lo. Ins Certifier's N applicable) Li	pecting office lame Doo icence Nar	rset Certifier'	kness s Business
					Operating and maintenance						
Date:					information Doorframe						
					Doorset						
					Lock Furniture						
					Fixtures						
					Fittings Vision panel						



Part D2 -	Construction of Exit	S	
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	



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	CRA	Buildings and parts of buildings must be accessible as required by Table D3.1, unless exempted by D3.4.
	Requirements		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.	
			General Non-Compliant Areas
			Less than 850mm clearance through the active door leaf does not appear to be provided to multiple doorways on the Basement to Ground Floor and Fourth to Fifth Floor Levels.
			In addition, sufficient door circulation space not steeper than 1 in 40 does not appear to be provided to multiple doorways in the Basement the Lower Ground Floor carparks, and sufficient door circulation space does not appear to be provided to the Building B accessible WC on the Fourth Floor Level.
			A cross-fall steeper than 1:40 is required to be provided in the subject pathways in the Basement and Lower Ground Floor Levels required to be accessible.
			Furthermore, less than 1m clearance between required double handrails appears to be provided to the subject non-fire isolated stairway serving the Lower Ground Floor Level.
			Compliance can be achieved by a slight redesign prior to issue of the Construction Certificate.
			SOU Entrance Doorways
			Units LG-02, 401 & 402 do not appear to be provided with entrance doorways accessible from and to the property entry.
			Compliance can be achieved by a slight redesign prior to issue of the Construction Certificate.



Clause	Description	Status	Comments
Claubo	Decemption		Areas required to be accessible
			Access to the building's garbage rooms and storage rooms are a common facility and Table D3.1 requires access to and within not less than one of each type of room or space for use in common by residents.
			The subject bicycle storage areas within the Lower Ground Floor Level does not appear to be provided with a continuous accessible path of travel and requires review.
			In addition, the subject pool on the Ground Floor Level is required to be provided with not less than 1 means of accessible water entry/exit and requires review.
			Furthermore, the subject common area on the Fourth Floor Level of Building B is required to be accessible and access does not appear to be provided.
			Compliance can be achieved by a slight redesign 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.
- All stairs excluding the fire isolated stair are to incorporate the required double handrail, downturns, solid treads, colour contrast nosing strips and TGSI's.

Floor surfaces and junction points are all smooth and comply with slip resistant levels.

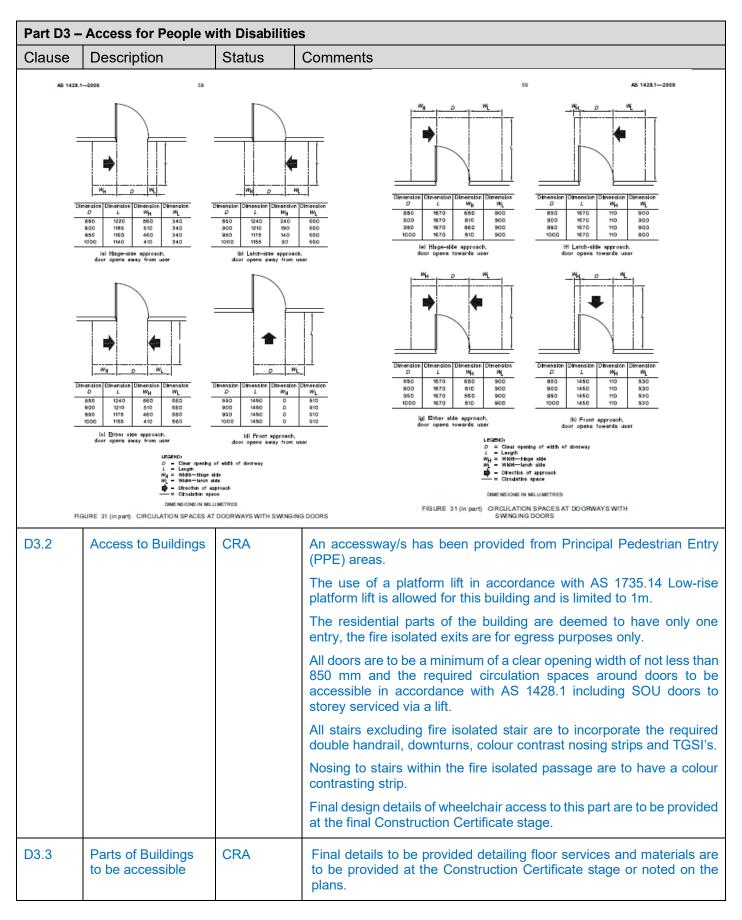
Door Circulation Spaces

All circulation spaces through doors to areas required to be accessible are to be confirmed; several doorways throughout the building appear not to meet the set dimensions under AS1428.1, including multiple doorways on the Basement to Ground Floor and Fourth to Fifth Floor Levels.

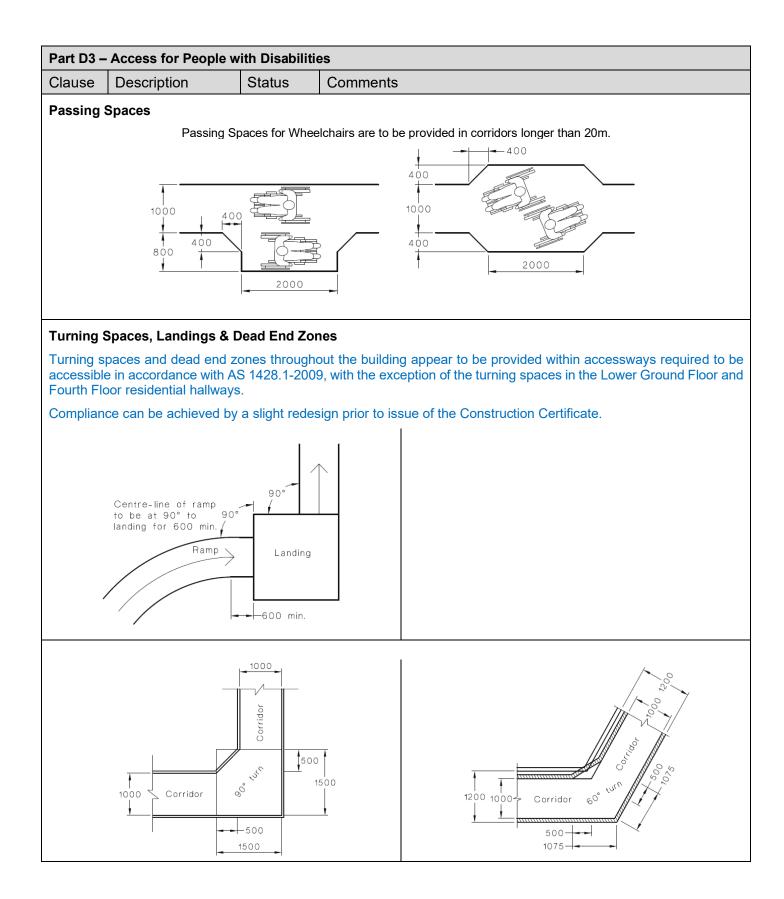
Compliance can be achieved by a slight redesign prior to issue of the Construction Certificate.

Please note: D3 requires access just to the SOU door, not within the unit unless the unit is Adaptable.

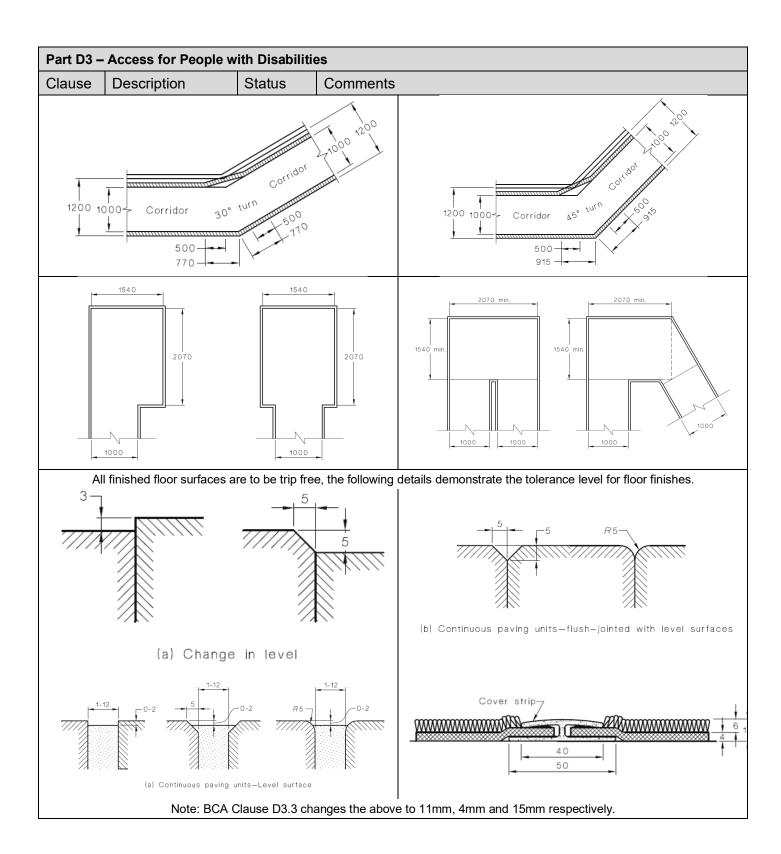




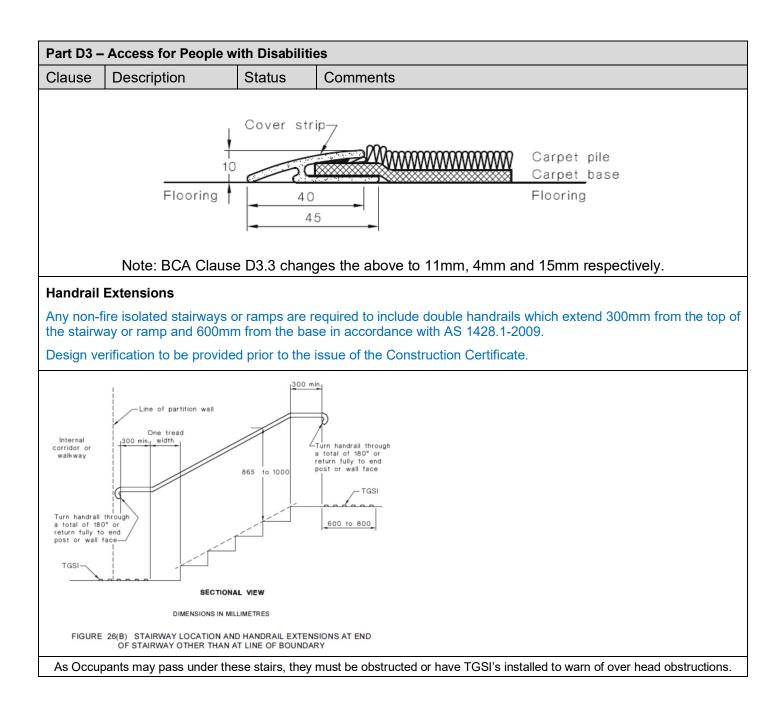




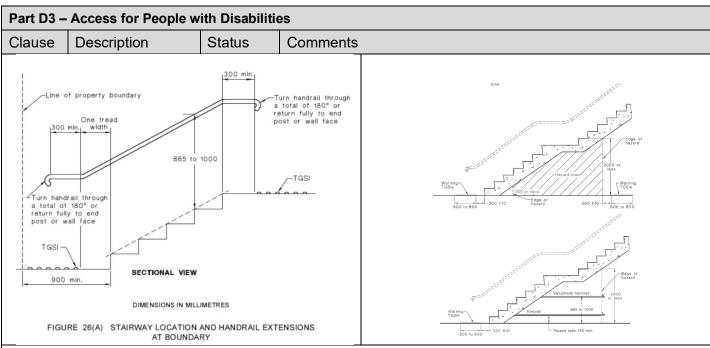












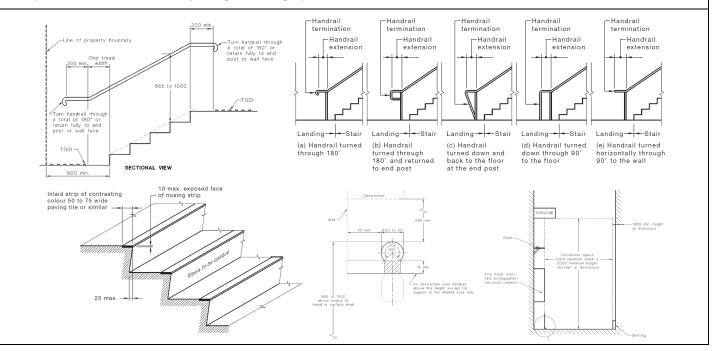
Tactile or TGSI's are to be installed correctly to all stairs and ramps. These TGSI's are to be re-installed to the correct distance from the noseing and the height from the FFL.

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, numerous fire isolated stairways and ramps on the Ground Floor Level require review.

Compliance can be achieved by a slight redesign prior to issue of the Construction Certificate.





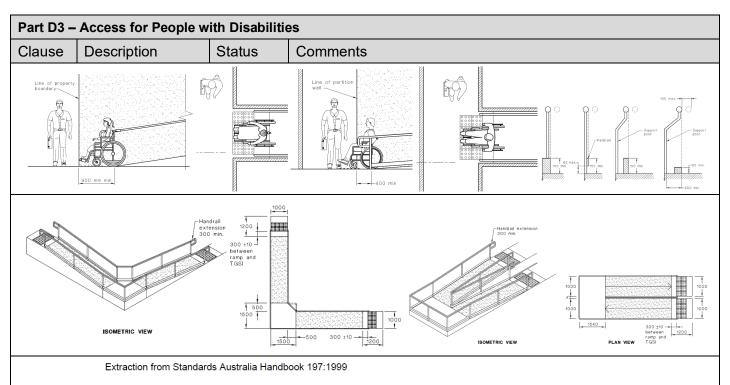


TABLE 3

PEDESTRIAN FLOORING SELECTION GUIDE – MINIMUM PENDULUM OR RAMP RECOMMENDATIONS FOR SPECIFIC LOCATIONS

Location	Pendulum	Ramp
External colonnade, walkway and pedestrian crossings	W	R10
External ramps	V	R11
Entry foyers hotel, office, public buildings - wet	Х	R10
Entry foyers hotel, office, public buildings - dry	Z	R9
Shopping centre excluding food court	Z	R9
Shopping centre – food court	X	R10
Internal ramps, slopes (greater than 2 degrees) - dry	Х	R10
Lift lobbies above external entry level	Z	R9
Other separate shops inside shopping centres	Z	R9
Other shops with external entrances – entry area	Х	R10
Fast food outlets, buffet food servery areas	X	R10
Hospitals and aged care facilities – dry areas	Z	R9
Hospital and aged care facilities – ensuites	Х	A or R10
Supermarket aisles except fresh food areas	Z	R9
Shop and supermarket fresh fruit and vegetable areas	Х	R10
Communal changing rooms	X	А
Swimming pool surrounds and communal shower rooms	W	В
Swimming pool ramps and stairs leading into water	V	С
Toilet facilities in offices, hotels, shopping centres	Х	R10
Undercover concourse areas of sports stadium	Х	R10
Accessible internal stair nosings (dry) – handrails present	Х	R10
Accessible internal stair nosings (wet) – handrails present	W	B or R11
External stair nosings	W	R11

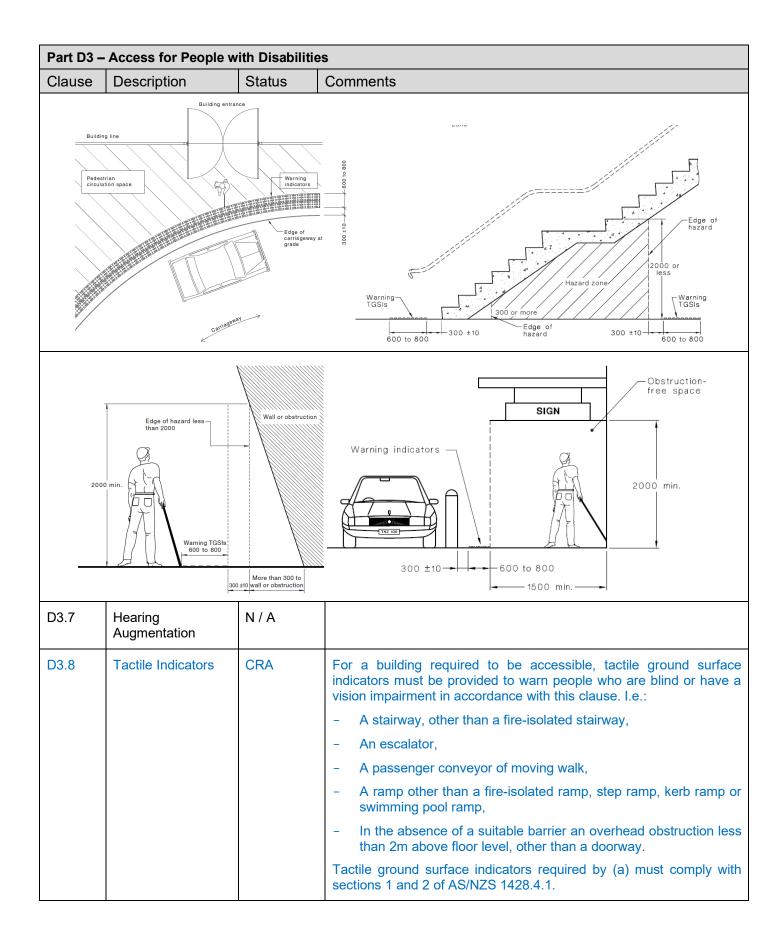


Clause	Description	Status	Comments
D3.4	Exemptions	CRA	The following areas are not required to be accessible:
			(a) An area where access would be inappropriate because of the particular purpose for which the area is used,
			(b) An area that would pose a health or safety risk for people with a disability,
			(c) Any path of travel providing access only to an area exempted by(a) or (b).
D3.5	Accessible Carparking	CRA	Car-parking spaces have been provided to the building which are ancillary to the use.
			If any carparking spaces are associated with parts of the building that are not Class 2, then at least 1 accessible carparking space is to be provided per 50/100 spaces under table D3.5, depending on the associated BCA Class. It should be noted that Council DCP for adaptable Units may request additional spaces.
			The car space still must comply with the space requirements of AS2890.6 form person with a disability.
			Designer to verify compliance prior to the issue of the Construction Certificate.
-	5.40m	2.40	This building may incorporate adaptable units, and usually each unit is allocated a car space being in accordance with AS2890.6 or as per AS4299-1995, however this is not a BCA requirement.
			If a car space is to be designated as accessible, the entire shared zone should be provided in accordance with AS2890.6.
9	5	•	Bollards are to be provided in accordance with AS 2890.6 prior to the issue of the Construction Certificate.
-	5.40m	-	Shared Zone
0		2.40m	The shared zone must be designated (shaded) as required by D3.5 and AS 2890.6-2009.
E			The subject accessible parking bays (DAPB) and shard area(s) with bollard are required to be not steeper than 1 in 40 and are required to be have a wheel-chair accessible path of travel to other floors via lift.
	2.40m 5.40m 6.40m	S	The subject parking bays appear to be located in inaccessible location(s) due to the carpark gradients.
	1/1/1/		Bollards
			Shared zones are to be provided with a bollard 800mm ±50mm from the front of the space and equidistant from either side of the space.
	2.40m	S	CAR PARKING
	2.40m		General Private car parking spaces shall be large enough to enable a person with a wheelchair to get in and out of both the car and the



Part D3 -	Access for People v	vith Disabilitie	s
Clause	Description	Status	Comments
	5.40m 5.40m 1800mm HC 5.500mm HC	2.40m	parking space. A car parking space width of 3.8 m minimum is necessary to enable a driver to alight, open the passenger side door, and assist a person with a disability into a wheelchair, or for a side- loading ramp. A 3.8 m, minimum width is also required for a driver with a disability to unload a wheelchair and to alight. A roof to the car parking space is desirable.
		•	NOTE : If it is required to unload the wheelchair within the garage, an internal vertical clearance of 2.5 m is necessary to operate a car roof wheelchair unit.
	5.40m Head Optimition	2.40m	Garages and carports Garages and carports shall have minimum internal dimensions of 6.0 m \times 3.8 m. A 2.5 m internal vertical clearance is desirable. A garage may be reduced if a hard surfaced level outside space of minimum dimensions 5.4 m \times 3.8 m is provided as a sheltered carpark, or can be provided in the future. Provision for a power operated roller door is desirable.
	Ι	1	NOTE : A level surface includes surfaces with a gradient of up to 1:40.
D3.6	Signage	CRA	In a building required to be accessible –
			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 –
			- Sanitary facility,
			 Ambulant toilet facility,
			 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.
			Design verification to be provided prior to the issue of the Construction Certificate.
	bilet	Ambulant toilet Female	Accessible Entrance
	mation		Toilet RH • Several for the several for the several de the severa







	Access for People w		
Clause	Description	Status	Comments
be applied	three (3) distinct types of and lighting conditions. <i>A</i>	TGSI, these eachers and the second se	ch need to be assessed as to the most appropriate based on the surface it is to 09 clearly provides installation requirements. $ = \begin{bmatrix} f_{1} & f_{2} & f_{3} \\ f_{2} & f_{3} & f_{3} \\ f_{3} & f_{3} &$
D3.9	Wheelchair Seating Spaces in Class 9b Assembly Buildings	N / A	
D3.10	Swimming Pools	CRA	Not less than 1 means of accessible water entry/exit in accordance with Specification D3.10 must be provided for each swimming pool required by Table D3.1 to be accessible.
			An accessible entry/exit must be by means of—
			• a fixed or movable ramp and an aquatic wheelchair; or
			• a zero-depth entry at a maximum gradient of 1:14 and an aquatic wheelchair; or
			• a platform swimming pool lift and an aquatic wheelchair; or
			 a sling-style swimming pool lift.
			Where a swimming pool has a perimeter of more than 70 m in length, at least one accessible water entry/exit must be provided by a means other than a sling-style swimming pool lift.
			Latching devices on gates and doors forming part of a swimming pool safety barrier need not comply with AS 1428.1.
			Accessible pool entry method such as sling-style swimming pool lift required.
			Design verification to be provided prior to the issue of the Construction Certificate.
D3.11	Ramps	CRA	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.
			Design verification to be provided prior to the issue of the Construction Certificate.



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	PS	Fire Hydrant Coverage is required throughout the whole building in accordance with AS 2419.1.	
			The hydrant booster system does not appear to be located in sight of the main entry.	
			Compliance can be achieved via undertaking a fire engineering performance solution prior to the issue of the Construction Certificate.	
			The subject pump rooms in the Basement Floor do not depict the dimensions of the hydrant outlet and so accurate measurements for width cannot be provided.	
			8 Subject pump rooms 1 1 1 1 1 1 1 1 1 1 1 1 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.	



Clause	Description	Status	Comments
AS2419.1	:2005		
3.2.2.2 Lo	ocation External fire h	ydrants shal	l be located as follows:
(a) In a po	osition that provides pe	destrian acce	ss to the building for the fire brigade.
	installed as a feed fire re brigade pumping app		Figure 3.2.2.2(a), (b), (d) and (e)], within 20 m of a hardstand such that nected to it—
) all portions of the buil 60 m length of hose la		within reach of a 10 m hose stream, issuing from a nozzle at the end of ind; and
(ii	i) a minimum of 1 m of	hose shall ex	tend into any room served.
	e installed as an attack d directly to the externa		ee Figure 3.2.2.2(f)], within 50 m of a hardstand such that when ydrant—
) all portions of the buil 0 m length of hose laid		within reach of a 10 m hose stream, issuing from nozzle at the end of a d; and
(ii	i) a minimum of 1 m of	hose shall ex	tend into any room served.
only [see the buildir	Figure 3.2.2.2(c)], with ng shall be within reach	in 20 m of a fi of a 10 m ho	e brigade booster assembly and having feed fire hydrant performance re brigade pumping appliance located on a hardstand. All portions of se stream, issuing from a nozzle at the end of 60 m length of hose laid extending into any room served—
(i) where the hose is cor	nnected direct	ly to the external fire hydrant; and
(ii	i) where the hose is co	nnected to a f	ire brigade pumping appliance fed from the fire hydrant.
(e) In a p	osition not less than	10 m from th	e building it is protecting unless safeguarded by construction—
(i) having a FRL of not	less than 90	/90/90;
(i	i) extending 2 m each	side of the f	ire hydrant outlet; and
	ii) extending not less uilding, whichever is		ove the ground adjacent to the fire hydrant or the height of the
			gh voltage main electrical distribution equipment such as transformers roleum gas and other combustible storage.
(g) In a po etc.	osition so that the fire h	ydrant is not o	obstructed or obscured by obstacles, stored goods, vehicles, vegetation
	polition on that the fire h	vdrant is prot	ected from possible mechanical damage by vehicles.



Clause	Description	Status	Comments
	•	Status	Comments
6.4 PUMI			
6.4.1 Ger			
	-		ts and associated equipment shall be weatherproof and be—
	e to prevent the entry		
			nd cooling of pump drivers;
			zing and facilitate the cold start of compression ignition drivers;
	ied by appropriate sig y the attending fire bri		visual and audible aids, so that the room and its entrance can be readily
(e) constr replacem		n 2.1 m high ir	nternal clearance with adequate space for pump maintenance and
6.4.2 Inte	ernal pumprooms		
Pumproo	ms located within a bu	uilding shall ha	ave—
· · ·	r opening to a road or pace; and	open space,	or a door opening to fire-isolated passage or stair which leads to a road
			n accordance with AS 2118.1, enclosing walls with an FRL not less than he particular building classification served by the fire hydrant system.
6.4.3 Ext	ernal Pumprooms		
enclosing		t less than tha	al to and within 6 m of any building they are protecting, shall have at prescribed by the BCA for a firewall for the particular building em.
Hardstan	d shall be provided wi	thin 20 m of th	he access door to the pumproom.
///////////////////////////////////////	-Wall of fir	e stairs	Stairway
	supply rise the side of	 hydrant vertical r location behind or to the hydrant valve 	Additional storeys as defined
	to be inclined more than 35° to the horizontal be located Minimum wi	hydrant valve with and chain, in accordance 3.5(a). All equipment to outside line of egress dth of egress in a with the BCA	Additional storeys as defined
			One storey above level of access
Clearance 100 min- Clearance 225* min-		Level of access	
	Clearance 100 min-	One storey below level of access	
Clearance 300 r		-35° max.	jet of water • • • • • • • • • • • • • • • • • • •
ELEVA		750 to 1200	(g) Hose coverage from external hydrant (see Clause 3.2.2.1) NOTE: Due to difficulties associated with fighting building fires, internal fire hydrants are required in fire-isolate stairs for levels more than one floor below ground and one or more levels above ground.
			stan's for revers more than one noor below ground and one of more revers above ground.



Description	01-1-1-	
	Status	Comments
		Fire And floor Bist fl
Hose Reels	CRA	Fire hose reels coverage is required within the carpark and commercial portions of the building if a hydrant is located within the building. Where fire hose reels are located within the building, they are to be within 4m of an exit, additional hose reels may be provided for coverage purposes however are to be located in a path of travel to an exit. Fire hose reels are to be installed accordance with AS2441. Final plans and a design certificate from a qualified hydraulic engineer prior to the issue of a Construction Certificate.
(b) Front view DIMENSIONS IN MILLIMETRES	100 min.	Hose repl Cabinet door FIRE Hose repl Cabinet door Cabinet door FIRE Hose repl Cabinet door Cabinet door Cabinet Type Hose Reel
	(b) Front view	(b) Front view DIMENSIONS IN MILLIMETRES



Part E1 –	Fire Fighting Equipn	nent	
Clause	Description	Status	Comments
E1.5	Sprinklers	PS	Basement & Lower Ground Floor Levels
			The basement & lower ground floor carpark as a single fire compartment consists of greater than 40 spaces and as such are required to be sprinkler protected in accordance with Clause E1.5 and Specification E1.5 of the BCA.
			In addition, FPAA101D and FPAA101H sprinkler systems cannot be used where the Class 5-9 parts contain more than 2 storeys, are more than 25% of the total floor area of the building or are located above the fourth storey.
			It should be noted that the sprinklered and non-sprinklered areas of the carpark are to be separated with a minimum construction of not less than FRL 120/120/120.
			Compliance can be achieved by a fire engineering performance solution conducted prior to issue of the Construction Certificate.
			Residential Levels
			A Class 2 or 3 building (excluding a building used as a residential care building) and any other class of building (excluding a building used as a residential care building) containing a Class 2 or 3 part requires sprinkler protection throughout the whole building if any part of the building has a rise in storeys of 4 or more and an effective height of not more than 25m.
			As this building contains a rise in storeys of 4 or more and an effective height of less than 25m, a required automatic fire sprinkler system must be installed in accordance with Specification E1.5 and Specification E1.5a of the BCA and must comply with:
			• AS 2118.1-2017; or
			• AS 2118.4-2012 (as applicable).
			Details demonstrating compliance with this clause must be incorporated into the architectural drawings prior to the issue of a Construction Certificate.
			Final plans and a design certificate from a qualified hydraulic engineer prior to the issue of a Construction Certificate.
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



Part E1 -	Part E1 – Fire Fighting Equipment			
Clause	Description	Status	Comments	
			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 MOUNTING HEIGHTS FOR PORTABLE FIRE EXTIN LOCATION SIGNS	IGUISHERS 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. 	
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.	
E1.10	Provisions for special hazards	N / A		



General Fire Service Signage

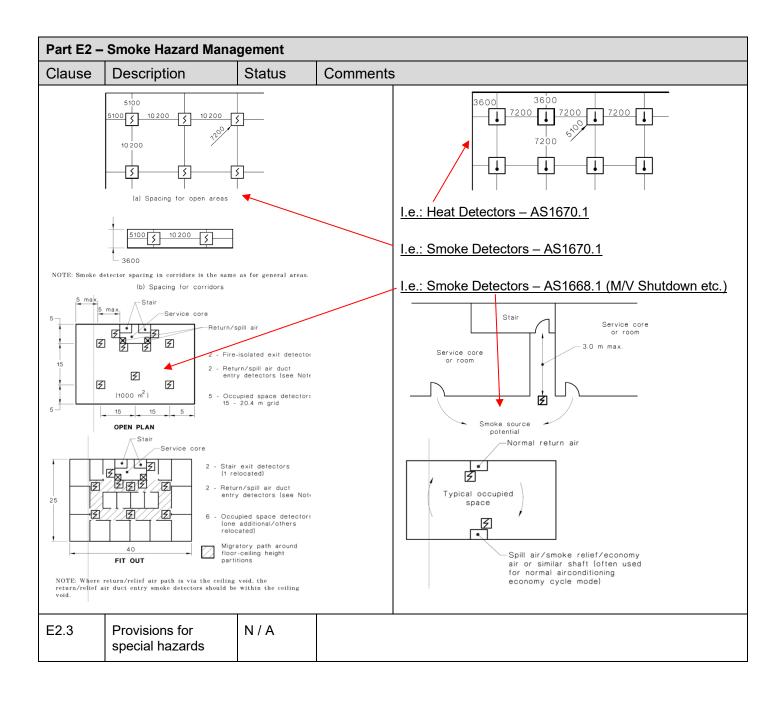
FIRE HOSE REEL FIRE HYDRANT BOOSTER FIRE EXTINGUISHER SPRINKLER STOP VALVE INSIDE

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).	
			The carpark is to be provided with fans with metal blades suitable for operation at normal temperature and electrical power and control cabling need not be fire rated. Upon activation of the BOWS, the fans are to run at full speed.	
			Details and a design certificate will be required by a qualified electrical engineer prior to the issue of a Construction Certificate.	







Part E3 -	Part E3 – Lift Installations				
Clause	Description	Status	Comments		
E3.1	-	-	No provisions.		
E3.2	Stretcher facility in lifts	CRA	A stretcher lift is required as the passenger serves a storey above an effective height of more than 12 metres. (600mm wide * 2000mm long and 1400mm high)		
			Please also note the minimum cart size under the Access to Premises Standard and AS1428.1:2009 requiring 1400mm x 1600mm along with the appropriate cart controls and display and hearing requirements.		
			Final design would need to be confirmed at the Construction Certificate stage.		
E3.3	Warning against use of lifts in fire	Noted	A warning sign is to be displayed where it can be readily seen near every call button of the passenger lift. The warning sign is to comply with the details and dimensions set out in Figure E3.3 of the BCA.		
			DO NOT USE LIFT IF THERE IS A FIRE		
E3.4	Emergency lifts	N / A			
E3.5	Landings	CRA	Access and egress to and from the lift well landings is to comply with the Deemed-to-Satisfy provisions of Section D of the BCA.		
			Ensure all lift landings achieve an unobstructed width of 1540mm x 2070mm as required by AS 1428.1-2009.		
			Design verification to be provided prior to the issue of the Construction Certificate.		
E3.6	Facilities for people with disabilities	CRA	The passenger lift within the building is to comply with AS1735.2 and table E3.6b Application of Features to Passenger Lifts i.e. several features from AS1735.12:		
			- Handrail to be provided within the cart,		
			- Brail and location of Control buttons,		
			 Audio and Visual indicators etc. Lift floor dimensions of not less than 2000mm x 1400mm to be provided if lift is deemed serves an effective height more than 12m. 		
			To be confirmed with details provided at Construction Certificate stage or design statement.		
E3.7	Fire Services Control	CRA	Passenger lift cars are to be provided with fire service controls in accordance with AS1735.2.		
			Required in this instance as lift car is serving storey's above an effective height of 12m.		
E3.8	Aged care buildings	N/A			



Part E3 –	Part E3 – Lift Installations			
Clause	Description	Status	Comments	
E3.9	Fire service recall control switch	CRA	Each group of lifts must be provided with one fire service recall control switch required by E3.7 that activates the fire service recall operation. Design verification to be provided prior to the issue of the Construction Certificate.	
E3.10	Lift car fire service drive control switch	CRA	The lift car fire service drive control switch required by E3.7 must be activated from within the lift car. Design verification to be provided prior to the issue of the Construction Certificate.	

Part E4 –	Part E4 – Emergency Lighting, Exit Signs 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.		
	六		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.		
	*		2. A door from an enclosed stairway, passageway or ramp at every level of discharge to a road or open space.		
(b) Left	from here (c) Rig	ght 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.		



Part E4 –	Part E4 – Emergency Lighting, Exit Signs and Warning Systems			
Clause	Description	Status	Comments	
E4.6	Direction signs	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		
E4.8	Design and operation of exit signs	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 all 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 –	Part F1 – Damp and Weatherproofing				
Clause	Description	Status	Comments		
F1.0	Deemed-to-Satisfy Provisions	PS	 Performance Requirement FP1.4, for the prevention of the penetration of water through external walls, must be complied with. There are no Deemed-to-Satisfy Provisions for this Performance Requirement in respect of external walls. The assessment contained within this report does not include an assessment against Performance Provision FP1.4. Compliance can be achieved by a site-specific weatherproofing report conducted in accordance with verification method FV1.1, undertaken prior to the issue of the Construction Certificate as there are no DTS provisions relating to this performance requirement. 		
F1.1	Stormwater drainage	CRA	Stormwater drainage design shall be in accordance with AS/NZS 3500.3.		
			Storage Cages		
			The subject storage cages within the Basement & Lower Ground floor levels obstruct the perimeter of the drain of the carpark.		
			6 Example of subject storage 8		
			Hobs & Strip Drains		
			Hobs and strip drains to be provided to the external openings located along the open balconies/corridors, entry within the basement, and open spaces or the like.		
			Restance of the second of the		



Part F1 – Damp and Weatherproofing				
Clause	Description	Status	Comments	
			Floor Waste	
			Architectural plans to confirm locations of proposed floor wastes throughout the development including, but not limited to: laundries; bathrooms; showers; balconies; open spaces and the like.	
			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.	
			Wind speed and N rating are required to calculate the waterproofing termination height and hob sizes.	
			ACCESS EASEMENTS D 200 120 120 120 120 120 120 120	
			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.	



Part F1 –	Part F1 – Damp and Weatherproofing					
Clause	Description	Status	Comments			
F1.7	Waterproofing of wet areas	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 ground	CRA	A vapour barrier in accordance with AS2870 is to be provided beneath the basement floor slab.			
			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.			
F1.12	Sub-floor ventilation	N / A				
F1.13	Glazed assemblies	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.			



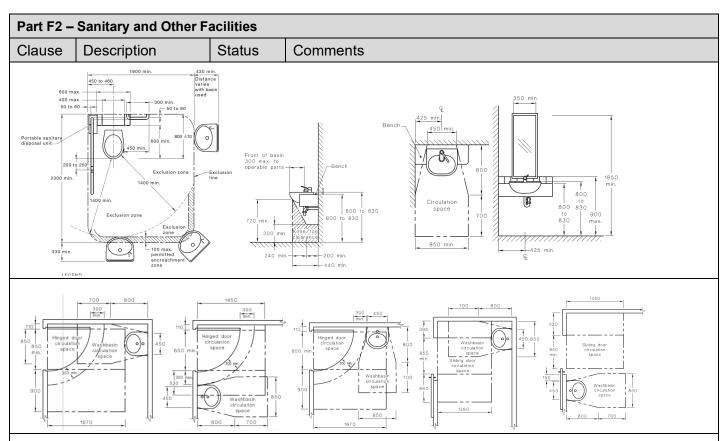
Part F2 –	Part F2 – Sanitary and Other Facilities					
Clause	Description	Status	Comments			
F2.1	Facilities in residential buildings	N / A				
F2.2	Calculation of number of occupants and fixtures	CRA	Floor area of each room is to be provided for the purpose of calculating occupant numbers within the 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 Class 2 portions of the building is not required for this development.			
			If a sanitary compartment is provided in the common areas of the Class 2 portions of the 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.			
			Ground Floor Accessible WC			
			Design verification to be provided prior to the issue of the Construction Certificate.			
			Fourth Floor Accessible WC			
			Compliance can be achieved by a slight redesign prior to the issue of the Construction Certificate.			



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Part F2 – Sanitary and Other Facilities					
Clause	Description	Status	Comments Fifth Floor Accessible WC		
			Details and design certification to be provided prior to the issue of a Construction Certificate.		
Unisex T & Showe		H Unisex Ambulant Toilet Utweethur Marka	 Where existing accessible toilets are provided, the use of exiting AS1428.1:2001 compliant toilet facility is deemed as acceptable only if the toilet actually complies with AS1248.1:2001. Full compliance with AS1428.1:2009 is to be indicated on the Construction Certificate plans or via Design Certificate. Occupants are to be provided with two (2) different types of accessible toilets; 1: An accessible toilet compartment (Wheelchairs) i.e.: Ground floor <i>RH Transfer</i> First Floor <i>LH Transfer</i> etc. 2: an ambulant <i>cubicle</i> being a minimum normal toilet cubicle size for easier use (Persons with mobility difficulties) in each and every toilet bank. 		





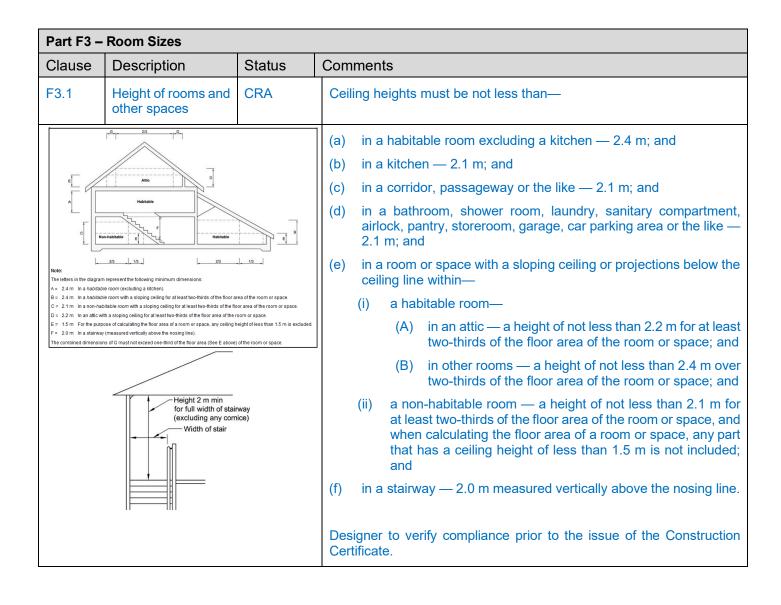
Details for an Accessible Toilet: (Checklist)

- 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 from 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 handrails 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.



Part F2 – Sanitary and Other Facilities						
Clause	Description	Status	Comments			
F2.5	Construction of sanitary compartments	Noted	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 must detail compliance with the above.			
F2.6	Interpretation: Urinals and washbasins	Noted				
F2.7	Warm water installations	N / A				
F2.8	Waste	N / A				
F2.9	Accessible adult change facilities	N / A	Not applicable to the proposed scope of works.			

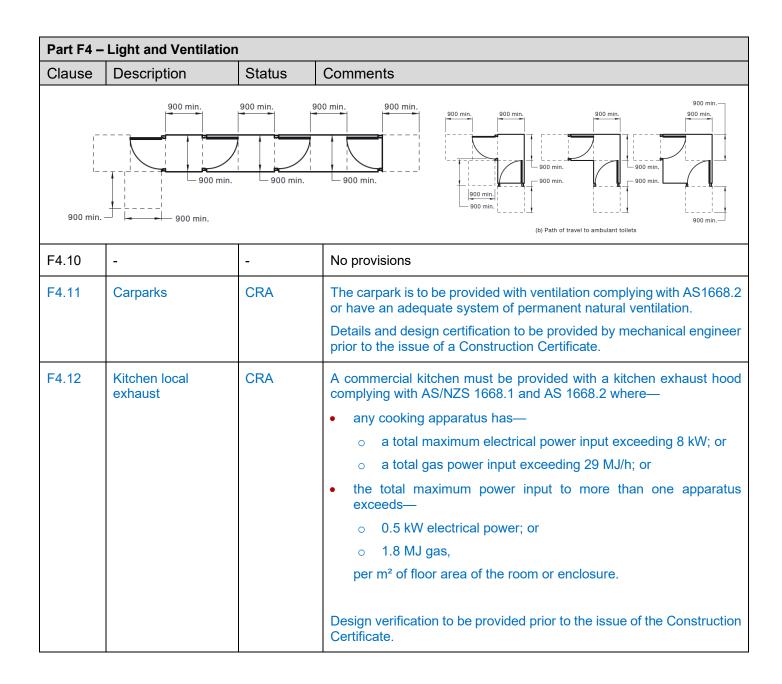






	Part F4 – Light and Ventilation				
Clause	Description	Status	Comments		
F4.1	Provisions of natural light	Noted	Natural light must be provided to all habitable rooms located within the Class 2 portion of the development.		
F4.2	Methods and extent of natural light	Complies			
F4.3	Natural light borrowed 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).		
			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	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		
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		







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. SOU Walls Bounding Lift Shaft Discontinuous construction is required between the lift and the internal parts of the SOU.			
			BUILDINGA BUILDINGA SOU Walls Bounding SOU Bathrooms			
			Discontinuous construction is required between the habitable rooms of			
			an SOU and the bathroom of an adjoining SOU.			



Clause	Description	Status	Comments			
			SOU Walls Bounding Mechanical Risers			
			Discontinuous construction is required between the habitable rooms of an SOU and mechanical riser(s).			
			BAL 380 100 m 380 10			
			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.			
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	Sound insulation rating of services	CRA	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			



Part F5 – Sound Transmission and Insulation							
Clause	Description	Status	Comments				
			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.				



Part F6 -	Part F6 – Condensation management					
Clause	Description	Status	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 exhaust systems	CRA	(a) An exhaust system installed in a kitchen, bathroom, sanitary compartment or laundry must have a minimum flow rate of—			
			(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 – Boilers, pressure vessels, heating appliances, fireplaces, chimneys and flues N / A

Part G3 – Atrium construction
N/A

Part G4 – Construction in alpine areas

N / A

Part G5 – Construction in bushfire prone areas N / A

Part G6 – Occupiable outdoor 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.



4.0. 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.

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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 column and other building element incorporated within it) or other external building element, where the distance from any fire-source feature to which it is exposed is-For loadbearing parts-240/240/240 less than 1.5 m 90/90/90 120/120/120 180/180/180 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--/180/180 less than 1.5 m -/ 90/ 90 -/120/120 -/240/240 -/180/120 -/240/180 1.5 to less than 3 m -/ 60/ 60 -/ 90/ 90 3 m or more _|_|_ _/_/_ _/_/_ _/_/_ EXTERNAL COLUMN not incorporated in an external wall-90/-/-180/_/_ 240/-/-For loadbearing columns-120/-/-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 lobbies and the like-120/-/-240/_/_ Loadbearing 90/90/90 180/_/_ Non-loadbearing -/ 60/ 60 _/_/_ _/_/_ _/_/_ Between or bounding sole-occupancy units-Loadbearing 90/90/90 120/-/-180/_/_ 240/_/_ Non-loadbearing -/ 60/ 60 _/_/_ _/_/_ _/_/_ Ventilating, pipe, garbage, and like shafts not used for the discharge of hot products of combustion-90/90/90 120/90/90 180/120/120 240/120/120 Loadbearing -/ 90/ 90 -/ 90/ 90 -/120/120 -/120/120 Non-loadbearing OTHER LOADBEARING INTERNAL WALLS, INTERNAL BEAMS, TRUSSES and COLUMNS-90/-/-120/-/-180/_/_ 240/-/-240/240/240 FLOORS 90/90/90 120/120/120 180/180/180 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 features
- Fire 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	Project No.	Rev.	Date	Drawn By
DA-0-210	BASEMENT PLAN	22-020	ш	10.05.2022	Dickson Rothschild
DA-0-211	LOWER GROUND PLAN	22-020	Е	10.05.2022	Dickson Rothschild
DA-0-212	GROUND FLOOR PLAN	22-020	Е	10.05.2022	Dickson Rothschild
DA-0-213	LEVEL 1 FLOOR PLAN	22-020	Е	10.05.2022	Dickson Rothschild
DA-0-214	LEVEL 2 FLOOR PLAN	22-020	Е	10.05.2022	Dickson Rothschild
DA-0-215	LEVEL 3 FLOOR PLAN	22-020	Е	10.05.2022	Dickson Rothschild
DA-0-216	LEVEL 4 FLOOR PLAN	22-020	Е	10.05.2022	Dickson Rothschild
DA-0-217	LEVEL 5 FLOOR PLAN	22-020	Е	10.05.2022	Dickson Rothschild
DA-0-218	ROOF PLAN	22-020	Е	10.05.2022	Dickson Rothschild
DA-0-302	ELEVATIONS 1	22-020	Е	10.05.2022	Dickson Rothschild
DA-0-303	ELEVATIONS 2	22-020	ш	10.05.2022	Dickson Rothschild
DA-0-401	SECTION 1 & 2	22-020	Е	10.05.2022	Dickson Rothschild
DA-0-402	SECTION 3 & 4	22-020	Е	10.05.2022	Dickson Rothschild

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