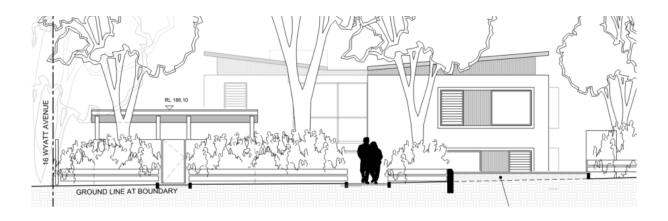


BCA & ACCESS 2019 A1 INDICATIVE COMPLIANCE REPORT FOR S4.56 LODGEMENT

14 Wyatt Avenue, Belrose NSW 2085



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1.0. INTRODUCTION

1.1. Location and Description

This report is prepared in preparation of a Section 4.56 (formally Section 96AA) lodgement and is for assessment purposes, it comprises a National Building Code of Australia 2019 Amendment 1 (NBCA) assessment of the proposed boarding house 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 four (4) storey boarding house development comprising of twenty-five (25) rooms each assumed to contain no more than two (2) tenants and associated car and motorcycle parking spaces located within the Basement Level.



Figure 1 Site location and topography

1.2. Report Purpose

The purpose of this report is to provide an indicative compliance assessment of the Section 4.56 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 Section 4.56 Application.



1.3. Basis of Report

This report is based upon and limited to:

- An assessment of design documentation referenced in Appendix B of this report.
- The Deemed-to-Satisfy provisions of the National Building Code of Australia 2019 Amendment 1 including the NSW variations where applicable.

1.4. Referenced Documents

The following documentation was relied upon when preparing this report:

- Assessment of design documentation referenced in Appendix B of this report.
- The performance and deemed-to-satisfy provisions of the National Building Code of Australia 2019 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.

1.5. Limitations and Exclusions

The limitations and exclusions of this report are as follows:

- The plans are assessed indicatively to the extent necessary to proceed to construction certificate stage whereby assessment will be undertaken pursuant to Part 4A of the Environmental Planning and Assessment Act 1979. This means that the design has been assessed to be able to comply with the BCA (i.e. the submitted plans are consistent with the BCA but certain design details may not be specified at this stage due to the plans and specifications being at Section 4.56 stage).
- This Report does not address issues in relation to the following:
 - a) The structural adequacy of the building including the Fire Resistance Levels (FRL's) of any building elements (unless specifically referred to).
 - b) The design, maintenance or operation electrical, mechanical, hydraulic or fire protection services.
 - c) Environmental Planning and Assessment Act and Regulations (unless specifically referred to).
 - d) Local Government Act and Regulations.
 - e) Occupational Health and Safety Act and Regulations.
 - f) WorkCover Authority requirements.
 - g) Requirements of other Regulatory Authorities including, but not limited to, Telstra, Sydney Water, Electricity Supply Authority, RTA, Council and the like.
 - h) Disability Discrimination Act (DDA) other than minimum requirements under the Disability (Access to Premises Buildings) Standards 2010. DDA is a Case by Case Assessment, this building will comply with the set items under the Premises Standards.
 - i) Construction Safety Act.
 - j) Conditions of Development Consent issued by the relevant Local Council.
- This assessment does not incorporate the detailed requirements of the Australian Standards.



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1.6. Legislative Framework

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

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

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

Compliance with the National Building Code of Australia

The BCA is a performance based document whereby compliance can be achieved by satisfying the deemed to satisfy requirements or by formulating 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, compliance with the Disability (Access to Premises — Buildings) Standards 2010 would inherently comply.



1.7. Terminology

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

(a) structural adequacy; and

(b) integrity; and

(c) insulation,

and expressed in that order.

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

Compliance with the Performance Requirements can only be achieved by-

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



2.0. BUILDING DESCRIPTION – PROPOSED DEVELOPMENT

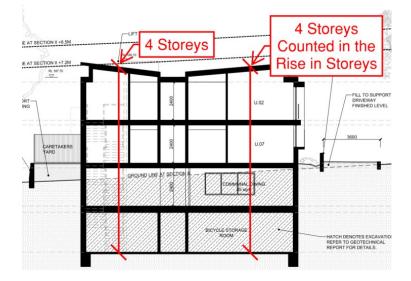
2.1. Building Code of Australia Description

For the purposes of the Building Code of Australia 2019 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 four (4) as illustrated below;

The number of storeys contained is four (4)



2.3. Building Classifications (Part A6)

The proposed building has been classified as follows.

BUILDING LEVELS	PLAN LEVELS	CLASSIFICATION	USE	RIS
Basement 2 Floor	Second Basement Plan	Class 7a	Carpark	1
Basement 1 Floor	First Basement Plan	Class 7a	Carpark	2
Ground Floor	Ground Floor Plan	Class 3	Boarding House	3
First Floor	First Floor Plan	Class 3	Boarding House	4
Roof	Roof Plan	-	-	-

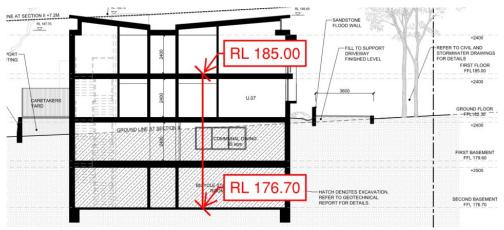


2.4. Effective Height (Schedule 3)

The building has an effective height (EH) of approximately **8.30m** when measured from the floor of the topmost storey which is less than 12m.

*Lowest Point taken @ RL 176.70 (Approx.)

*Highest Point taken @ RL 185.00



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 3 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 3 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 Section 4.56 (formally Section 96AA) 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 Section 4.56 documentation stage.
- CRA 'Compliance Readily Achievable'. It is considered that the level of detail included in the Section 4.56 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	construction	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 four (4) The building contains four (4) storeys.		



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 3.	
C1.4	Mixed types of Construction	Noted		in accordance with Clause C2.7, the constructed in differing levels of fire- ince 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	C1.8 Lightweight CRA construction		CRA	Lightweight construction used i Specification C1.8.	n a wall system must comply with
		column or the like, and where the with the column must have the v	s a fire-resisting covering of a steel covering is not in continuous contact oids filled to a height of not less than the column is liable to be damaged er suitable material.		
			d in the proposed development, then RL and compliance with this clause le of a Construction Certificate.		
C1.9	9 Non-combustible building elements		CRA		e A construction, the following building must be non-combustible, concrete,
			Building Element	Type A Construction	
			External wall	Non-combustible	
			Common wall	Non-combustible	
			Floor and floor framing of lift pit	Non-combustible	
			All loadbearing internal walls (including shaft walls)	Concrete, masonry or fire-protected timber	
		Loadbearin	Loadbearing fire walls	Concrete, masonry or fire-protected timber	
	Non-loadbearing internal walls to be fire-resistant	Non-loadbearing internal walls required to be fire-resistant	Non-combustible		
		Non-loadbearing lift, ventilating, pipe, garbage and like shafts which do not discharge hot products of combustion	Non-combustible		



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



Part C2 – 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	
		Numerous vertical spandrels throughout the building may not extend 900mm in height and 600mm above the upper surface of the intervening floor. All openings with the following configuration shall be checked and adjusted to ensure they comply with the requirements of this Clause.	
	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	



Clause	Description	Status	Comments
			Comments
			Horizontal Spandrels
			Horizontal spandrels throughout the building appear to extend 450mm along the wall.
			Example of subject horizontal spandrels
			Example of subject borizontal spandrels
			Numerous horizontal spandrels throughout the building may not extend 1100mm past the openings. All openings with the following configuration shall be checked and adjusted to ensure they comply with the requirements of this Clause. Designer to confirm compliance of all vertical and horizontal spandrels prior to the issue of the Construction Certificate.
	FRL of 60/60/60	(a) Section	7 In-fill panels - part of opening (construction need not have an FRL) Glass
	450 mm min	(b) Elevation	External wall In-fill panels (part of opening)



Part C2 -	· Compartmentation a	nd Separatio	on and a second s
Clause	Description	Status	Comments
C2.7	Separation by fire walls	Noted	
C2.8	Separation of classifications in the same storey	Noted	Refer to Clause C2.7 if applicable.
C2.9	Separation of classifications in different storeys	CRA	 The floor slab separating the different storeys require an FRL of: Basement 2/basement 1 FRL 120/120/120; Basement 1/ground floor FRL 90/90/90; Ground/first floor FRL 90/90/90. Refer to 'Appendix' A for the relevant fire resisting requirements. Plans to reflect required FRLs prior to the issue of a Construction Certificate.
	O SUPPORT PLANTING		BANDSTONE FRUCTOR WALL FILL TO SUPPORT DRIVEWAY FINISHED LEVEL FRL 90/90/90 U.07 FRL 90/90/90 FRL 90/90/90 FRL 120/120/120 FRL 120/120/120
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 a 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.



Part C2 -	Part C2 – Compartmentation and Separation			
Clause	Description	Status	Comments	
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: Cla following:	use 6.4.2 of AS 2419.	1-2005 requir	es that an internal pumproom located within the building shall have the	
	door opening to a roa ad or open space; and		ace, or a door opening to fire-isolated passage or stair which leads to a	
le			protected in accordance with AS 2118.1, enclosing walls with an FRL not for a firewall for the particular building classifications served by the fire	
C2.13	Electricity supply	CRA	The following electricity supply equipment:	
	system		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 Openin	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.
C3.4	Acceptable method of protection	Noted	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/
C3.5	Doorways in fire walls	Noted	
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.
			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.



Part C3 -	Part C3 – Protection of Openings				
Clause	Description	Status	Comments		
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, 4 and 9	PS	As this building is Type 'A 'construction, doorways of the Class 3 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 3 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.			
			Residential Common Areas		
			The internal common areas within the enclosed residential corridors of the residential floors may not be adequately fire separated with a fire rated wall and doorway as required by this Clause.		
			Tated wai and doorway as required by this clause.		



Clause	Description	Status	Comments
Clause	Description	Status	Basement 1 Communal Room
			The subject wall of the Basement 1 communal dining and kitchen room cannot be constructed of glass.
			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.
			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		1_	No provisions



Part C3 -	Part C3 – Protection of Openings			
Clause	Description	Status	Comments	
C3.15	Openings for service installation	CRA	Where services (e.g. hydraulic, mechanical, plumbing, electrical) penetrate a building element that is required to achieve an FRL with respect to integrity or insulation or a resistance to the incipient spread of fire then that installation must be protected / sealed (e.g. fire collars, fire dampers etc) by material that is identical to tested prototypes and in accordance with AS4072.1 and AS1530.4, and having achieved the required FRL or resistance to the incipient spread of fire or other specified method. Details verifying compliance must be provided on plans prior to the issue of a Construction Certificate.	
C3.16	Construction Joints	CRA	Construction joints are to be installed in accordance with a tested prototype in accordance with AS1530.4. Details verifying compliance must be provided on plans prior to the issue of a Construction Certificate.	
C3.17	Columns protected with lightweight construction	CRA	Columns must be protected in accordance with the identical tested prototype. Details verifying compliance must be provided on plans prior to the issue of a Construction Certificate.	



Specifica	tion C1.1–Fire-Resist	ing Construc	stion
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.
			Example of subject external walls
			Instrumentation Example of subject external walls Image: Constraint of the strumentation of
			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.
			the second secon
			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.



Clause	Description	sisting Constr	Comments
Oldube	Description		Fire Rated Supporting Columns
			The steel columns supporting the roof structure are required to achieve an FRL in accordance with Table 3 of Specification C1.1.
			Example of subject steel columns
			Fire Rated Wall & Wet Wall Junctions
			The junction between the subject fire rated wall and wet wall may not achieve the same FRL and cannot be protected by a tested system. Designer to confirm if a tested system is available.
			Leven weight of the subject walls weight of the subject wa
			Basement 2 Storage
			Storage within the basement 2 carpark appears to be greater than 10% of the total floor area.
			Subject basement storage
			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.



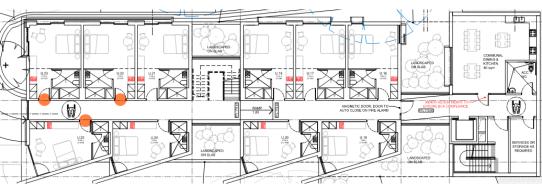
SECTION D – ACCESS AND EGRESS

Part D1 –	Part D1 – Provision for Escape			
Clause	Description	Status	Comments	
D1.1	Application of Part	Noted	Does not apply to the internal parts of a sole occupancy unit in a Class 2, 3 or 4 building.	
D1.2	Number of exits	Complies	Building has effective height less than 25m.	
	required		Each storey is to have at least one (1) exit.	
D1.3	When fire isolated exits are required	CRA	In a Class 3 building, a required non-fire-isolated stairway is permitted if it connects, passes through or passes by not more than 2 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.	
			All stairways throughout the building are to be constructed as fire isolated exit stairways except for the basement stairway.	
			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 (increased to 12 m if the building is provided with a required automatic fire sprinkler system in accordance with Specification E1.5a) 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 via a fire engineering performance solution undertaken prior to the issue of the Construction Certificate.	

Basement 1 Floor

The following SOU's retain distances of up to 14.6m to a single exit in lieu of 6m and include:

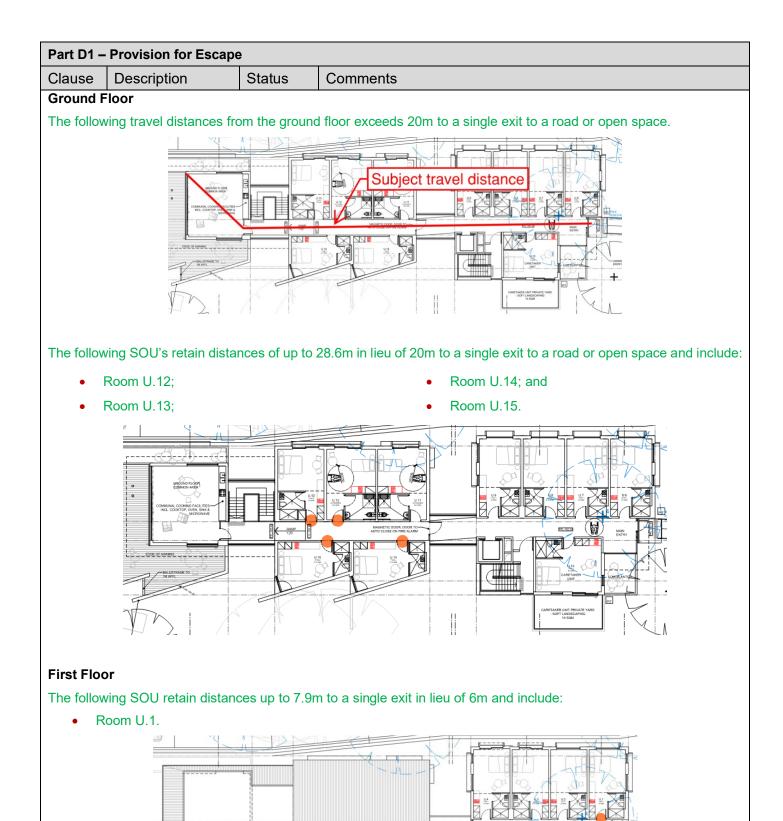
- Room U.22;
- Room U.25.



•

Room U.23; and





UP



Part D1 -	Part D1 – Provision for Escape			
Clause	Description	Status	Comments	
D1.5	Distances between alternative exits	N / A	The current design consists of single exits on all floors, so alternative exit requirements do not apply.	
D1.6	Dimensions of exits	CRA	In a required exit or path of travel, the unobstructed height throughout must be not less than 2m, except the unobstructed height of any doorway must be reduced to not less than 1980mm. The unobstructed width of each exit or path of travel to an exit except a doorway must not be less than 1m.	
			The unobstructed width must be measured clear of all obstructions such as handrails, projecting parts of balustrades or other barriers and the like.	
			Note: all service and common areas such as the residential bin storage room are required to be provided with a clear exit width of 1m.	
			Non-Fire Isolated Stairways and Ramps	
			All non- fire isolated stairways and ramps serving the building must include double handrails and tactile indicators in accordance with AS 1428.1-2009.	
			Please note: Internal non-fire isolated stairs must incorporate double handrail as required under D3, stairs are to be >1.2m wide to cater for this requirement.	
			Details verifying compliance must be provided on plans prior to the issue of a Construction Certificate.	
D1.7	Travel via fire- isolated exits	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 open 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 – Provision for Escape			
Clause	Description	Status	Comments	
			Open Area Discharge Points The current design of numerous fire isolated stairways serving the basement level and residential units discharges in an open area within the confines of the building not 2/3 of the perimeter open and/or is further than 20m to a road or open space.	
			Subject discharge point VIELAM UNITER AND UNITER AND UN	
			Compliance can be achieved via undertaking a fire engineering performance solution prior to the issue of the Construction Certificate.	
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	PS	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 3 building, the distance between the doorway of a sole- occupancy unit and a road or open space via a required non-fire- isolated stairway or ramp must not exceed 60m.	
			A required non-fire-isolated stairway or ramp serving the residential parts of the building must discharge at a point not more than 15 m from a road or open space or from a fire-isolated passageway leading to a road or open space.	
			A required non-fire-isolated stairway or ramp serving the carpark must discharge at a point not more than 20 m from a road or open space or from a fire-isolated passageway leading to a road or open space.	
			Subject travel distance	
			Compliance can be achieved via undertaking a fire engineering performance solution prior to the issue of the Construction Certificate.	



	- Provision for Escape	r	Comments
Clause	Description	Status	Comments
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.
			Path of Travel to Street
			The subject path of travel to the street from the Basement 2 Level does not appear to be provided.
			Subject path of travel
			Convergence of Exits The subject paths of travel from the discharge points converge on the ground floor.
			Compliance can be achieved via slight redesign undertaken prior to the
D1.11	Horizontal exits	N/A	The current design does not consist of required horizontal exits
ווט		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	



Part D1 -	Part D1 – Provision for Escape				
Clause	Description	Status	Comments		
D1.14	Measurement of distance	Noted			
D1.15	Method of measurement	Noted			
D1.16	Plant rooms and lift machine rooms: Concession	N / A			
D1.17	Access to lift pits	CRA	Final details as to the lift shafts and pits are required.		
DT.17 Access to IIIT pits CRA DANGER: LIFTWELL ENTRY OF UNAUTHORISED PERSONS PROHIBITED KEEP CLEAR AT ALL TIMES		SED D	 (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" 		



Part D2 – Construction of Exits			
Clause	Description	Status	Comments
D2.1	Application of Part	Noted	
D2.2	Fire isolated stairs or ramps	Noted	The current design proposes no fire-isolated shafts with stairs or ramps.
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.
			Subject rising and
			descending stair flights requiring separation
			Compliance can be achieved by a fire engineering performance solution undertaken prior to 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	N / A	The current design proposes no fire-isolated passageways.
D2.12	Roof as open space	N / A	
D2.13	Goings and risers	CRA	Stairs are to have risers measuring between 115-190mm and goings 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 gap between risers must not permit a 125mm sphere to pass through it.
			Ensure all stairways throughout the building do not contain less than 2 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 of Table D2.14 when tested in accordance with AS4586-2013 and 30% colour contrasting nosings.
			Final details are to be submitted with the Construction Certificate Documentation.



Part D2 -	Part D2 – Construction of Exits				
Clause	Description	Status	Comments		
D2.14	Landings	CRA	 Landings must comply with the requirements of Clause D2.14 of th BCA. Landings must be not less than 750mm long and have a non-slif finish throughout or an adequate non-skid strip near the edge of th landing where it leads to a flight below and 30% colour contrastin nosings. Strips at the edge of the landing with slip-resistance classification not less than that listed in Table D2.14 when tested in accordance with At 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		
D2.15	Thresholds	CRA	A threshold of a doorway must not incorporate a step or ramp at an point closer to the doorway than the width of the door leaf unless th door opens to a road or open space, external stair landing or external balcony and the doorsill is not more than 190mm above the finishe surface of the ground balcony or the like to which the door opens. Design verification to be provided prior to the issue of the Constructio		
Note: If t	he door is in a pat	h of travel regi	Certificate. uired to be accessible D3, a step is not allowed.		
	-	-	Doors also including the last exit door to open space.		
Door	DIMENSIONS I	Ramp gra	dient 1 in 8 max.		

			No step except as permitted by D2.15(a) and (b)
D2.16	Balustrades	CRA	Balustrades complying with Deemed-to-Satisfy provisions of the BCA are to be provided to where the level of the surface below is 1m or more. Balustrades must also be provided where the level of the surface beneath is more than 4m where it is possible for a person to fall through an openable window.



Part D2 -	Part D2 – Construction of Exits			
Clause	Description	Status	Comments	
125 mm sphere must not pass through opening			Where the level of the surface below is 4m or more, a balustrade or other barrier must not facilitate climbing of horizontal elements between 150mm and 760mm above the floor.	
			Any opening in the balustrade must not permit a 125mm sphere to pass through the balusters.	
865 mm	Landing Nosing line		Wire balustrades must be constructed to comply with Clause D2.16 (h) and Tables D2.16a and D2.16b.	
865	125 mm sphere must not pass through opening (above nosing line)		Details demonstrating compliance with this clause must be incorporated into the architectural drawings prior to the issue of a Construction Certificate.	
D2.17	Handrails	CRA	Handrails are to be provided to at least one side of stair flights within fire isolated stairs and both side in any other case (See D3) and located not less than 865mm above the nosings of stair treads and the floor surfaces of landings.	
			Details demonstrating compliance with this clause must be incorporated into the architectural drawings prior to the issue of a 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	N / A	No power-operated doors are proposed in a path of travel to a required exit in this building.	
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 require exit serving a building part with floor area not more than 200m ² and is fitting with hold open device.	
			The door swings pertaining to the required exits appear to comply with the requirements of this clause.	
			Design verification to be provided prior to the issue of the Construction Certificate.	



Part D2 -	- Construction of Exit	s		
Clause	Description	Status	Comments	
D2.21	Operation of latch	CRA	 The latch of a door in a required exit, forming part of a required in the path of travel is to be readily openable without a key from the of that faces a person seeking egress. It is to have a single down action or pushing action and to be located between 900mm 1100mm from the floor. Where the latch operation referred to above is not located on the leaf itself, manual controls to power-operated doors must be a 25mm wide, proud of the surrounding surface located not less 	he side vnward m and ne door at least
			500mm from an internal corner, and:	
			 for a hinged door located between 1m and 2m from the door any position; or 	r leaf in
			• for a sliding door located within 2m of the doorway and cle surface mounted door in the open position.	ar of a
			Design verification to be provided prior to the issue of the Const Certificate.	ruction
	(a) Isometric (a) Isometric (c) min. (b) Plan	35 to 45 m		
FIGUF	RE 35(A) EXAMPLE OF ACCE HINGED D		IARDWARE 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 doors giving access to and egress from the fire isolated stairway	
		1		



Part D2 – Construction of Exits				
Clause Description Status	Comments			
FIRE SAFETY DOOR	Any Fire Door require the standard signage, "Fire Safety Door, Do not Obstruct, Do Not Keep Open etc " along with the EP& A Notice ;			
DO NOT KEEP OPEN FIRE SAFETY DOOR DO NOT OBSTRUCT	 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: 			
WARNING: SLIDING FIRE DOOR	"FIRE SAFETY DOOR -DO NOT OBSTRUCT -DO NOT KEEP OPEN"			
OFFENCES	 For the last door discharging from a fire isolated exit, (Door opening on to open space/outside) 			
RELATING TO	- "FIRE SAFETY DOOR-DO NOT OBSTRUCT".			
FIRE EXITS By virtue of the regulations under the Environmental Planning And Assessment Act 1979, it is an offence:	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:			
(a) to place anything in this exit that may impede the free passage of persons, or	- OFFENCE RELATING TO FIRE EXITS			
 (b) to interfere with or cause obstruction or impediment to, the operation of the doors providing access to this exit, or (c) to remove, damage or otherwise 	It is an offence under the Environmental Planning and Assessment Ac 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			
interfere with this notice.				
	(c) to remove, damage or otherwise interfere with this notice.			
All fire doors and frames are to be tagged in acco with AS 1905.1-2015 and a complete door schedu be provided at the Occupation Certificate Stage.				
Clearances under and the side of fire doors are to	be in accordance with AS 1905.1-2015			
25 mm max.	ax. - Combustible floor covering			
	- Non-combustible threshold threshold			
(a) With a combustible floor covering	(b) Without a combustible floor covering			



Part D2 –	Construction of Exits	S									
Clause	Description	Status	Comments								
					Fin	e Resistant Do	orset—	Schedule of	Eviden	се	
				Droject name:				Date of insta	lation		
				Project name: Building addre			L	Date of Insta	illation:		
				Building owner			[Date of certi	fication	:	
				representative Door identifica	:					-	
				number						_	
	(Company Na	ame)		Door location Door leaf type	and						
	FIRE DOOR CERT Certificate Numbe			Door facing an						_	
				material Door dimensio		Width		Hoig	bt.	Ты	ckness
Project Name	x			Frame type an		wiath		Heig	nt –		GRIESS
Building Own	er/			manufacturer Frame fixing a backfill materia	nd					-	
Representativ				Wall type and						_	
				Doorset FRL	FRL					_	
Building Add	ress:			Doorset hardw	are					_	
				Lock	Make	Model	Тур	e Mate		Materials on frame	FRL
The member	company nominated certifies the follo	wing:		Furniture	Make	Model	Тур	e Mate	rials	Materials	FRL
1 The fire	doorsets installed in this building com	ply with AS 1905.1:X	XXX.	Fixtures	Make	Model	Tur	on Mate		on frame Materials	FRL
2 The fire accordar	doorsets are labelled as required by t	he appropriate regula	tory authorities in				Тур	on	eaf	on frame	
	tralian Standard AS 1905.1:XXXX.			Fittings	Make	Model	Тур	e Mate		Materials on frame	FRL
3 A manua complete	al dealing with the fire-resistant doorse ed in accordance with AS 1905.1:XXX	ets installed in this bu X.	ilding has been	Vision panel	Make	Model	Тур		rials leaf	Materials on frame	FRL
	based copy of the manual has been p presentative.	provided to the buildin	g	XXXX	Make	Model	Тур	e Mate on		Materials on frame	FRL
0.177.11				Test report references							
Certified by:				Assessment report references							
Name of Cert	ifier:			Date of final in	spection	Certificate N	o.	Inspecting	officer	Thi	ckness
Signature:				Date of Certific	cation			r's Name le) Licence	-	rset Certifier	's Business
Date:				Operating and maintenance information		I					
				Doorframe							
				Doorset							
				Lock							
				Furniture							
				Fixtures							
				Fittings Vision panel							
				vision panel							



Part D2 -	art D2 – Construction of Exits				
Clause	Description	Status	Comments		
D2.24	Protection of Operable Windows	CRA	All window openings throughout the development must be provided with protection, if the floor below the window is 2m or more above the surface beneath in a Class 3 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			

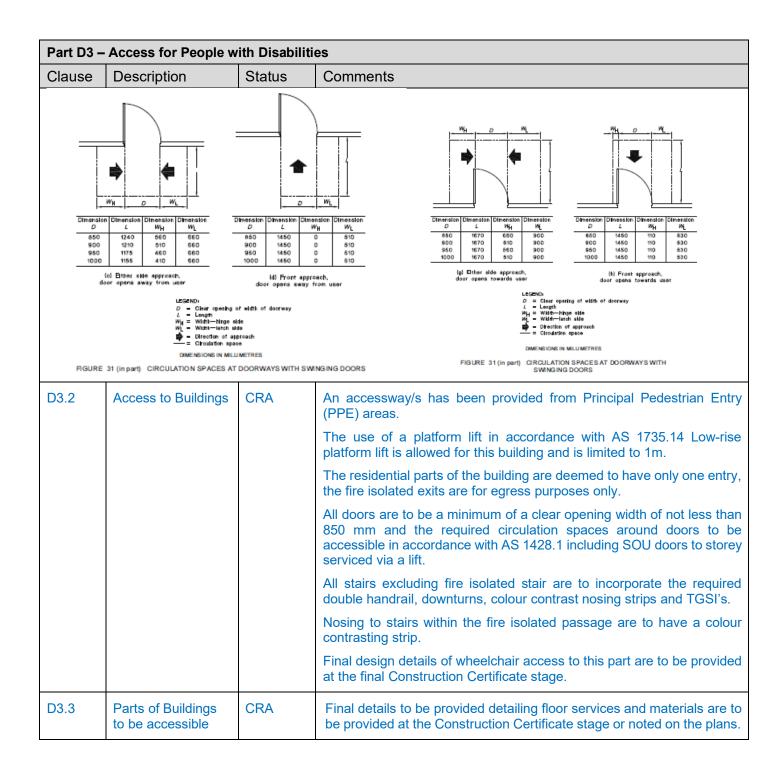


Clause	Description	Status	Comments
D3.0	Deemed-to-Satisfy	Note	Disability (Access to Premises — Buildings) Standards 2010 is to be
	Provisions		read in conjunction with the BCA. Compliance with the Access Codes appears to be achieved.
D3.1	General Building Access	CRA	Buildings and parts of buildings 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.
			Areas required to be accessible:
			Access to the building's Basement 2 clothes drying area, bicycle storage and laundry rooms, Basement 1 communal room, Ground Floor bin room and communal room are common facilities required to be accessible.
			As such, the Ground Floor external communal area requires review.
			Ensure pathway surfaces to areas required to be accessible comply with Clause 7 of AS1428.1-2009.
			Compliance can be achieved by slight redesign prior to the issue of the Construction Certificate.
			Accessible Class 3 SOUs
		Table D3.1 requires a minimum of 2 accessible SOUs of the 25 SOUs proposed. Two (2) accessible SOUs appear provided, both are located on the Ground Floor Level. The accessible units appear to not be adjacent each other and appear to be representative of the range of rooms available.	
			Refer to Clause F2.4 for sanitary compartment compliance in accessible SOUs.
			Final design details of wheelchair access to this part are to be provided at the final Construction Certificate stage.

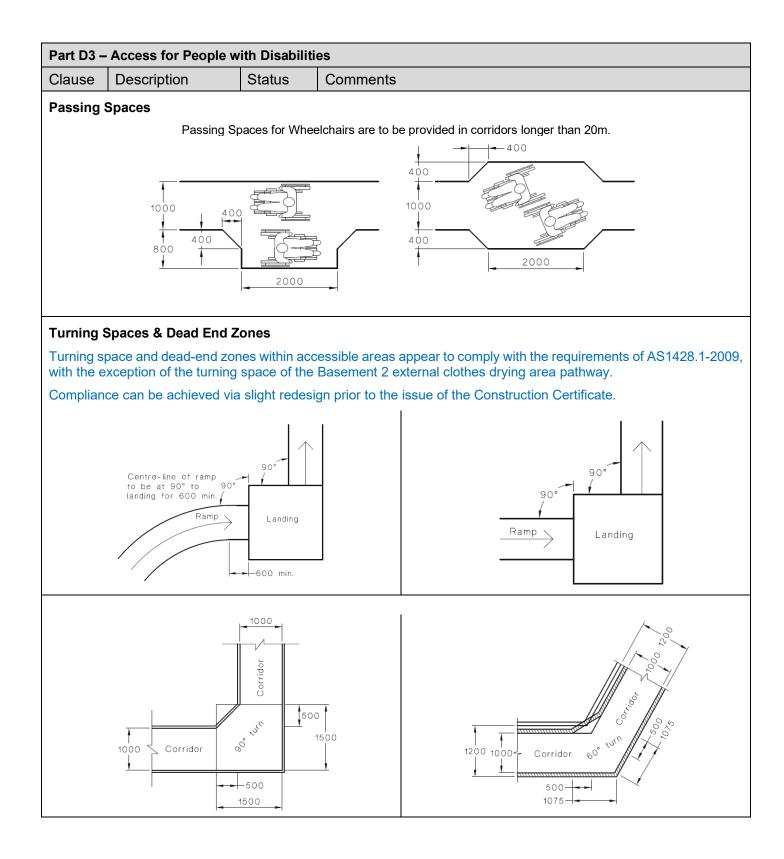


Part D3 -	Access for People	with Disabili	ties		
Clause	Description	Status	Comments		
	/Designers Note: AS compliance .I.e.:	\$1428.1 is very	detailed, pleas	e ensure that your design has	been checked and rechecked
	oors are to be a mini nd doors to be acce				he required circulation spaces
- Doo	r hardware is to a 'D	' grasping style	e, 20N force to	open and close all doors.	
- Wall	kways, corridors also	o must be com	pliant for dead a	areas, wheelchair passing an	d splayed corners.
- Doo	rs and doorways nee	ed to have 30%	6 Iuminance coi	ntrasting to distinguish door lo	ocations,
mm be lo glazi	wide and shall exten	nd across the mm and 1000 ninimum of 30	full width of the mm above the % luminance c	glazing panel. The lower edg plane of the finished floor lev	line shall be not less than 75 ge of the contrasting line shall el. Any contrasting line on the the floor surface or surfaces
	tairs excluding the fi ur contrast nosing si			prate the required double han	drail, downturns, solid treads,
Floor surf	aces and junction po	oints are all sm	nooth and comp	ly with slip resistant levels.	
Door Cire	culation Spaces				
not to me		s under AS142	28.1 including th	ne doorway serving the Baser	ned; several doorways appear ment 2 external clothes drying
Complian	ce can be achieved	via slight rede	sign prior to the	issue of the Construction Ce	rtificate.
Please no	ote: D3 requires acce	ess just to the	SOU door, not v	within the unit unless the unit	is Accessible.
			\	5	9 AS 14281-2009
Dimens D 850 900 950	1185 510 340 1160 460 340		When Dimension With With 24:0 65:0 19:0 65:0 14:0 65:0 3:0 65:0	MH D ML Image: State	Mit Mit Dimension Dimension Dimension Dimension Dimension Mit WH Mit 850 1670 900 1670 1670 110 900 1670 1000 1670
	door opens away from user	door opens aw		iel Hinge-side approach. door opens towards user	(f) Latch-side approach. door opens towards user

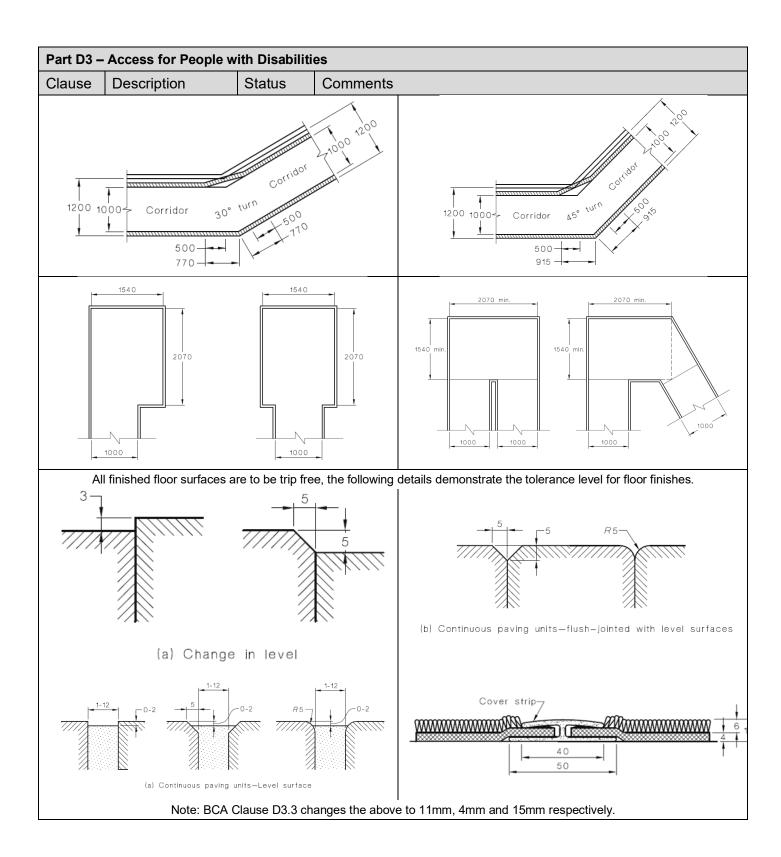




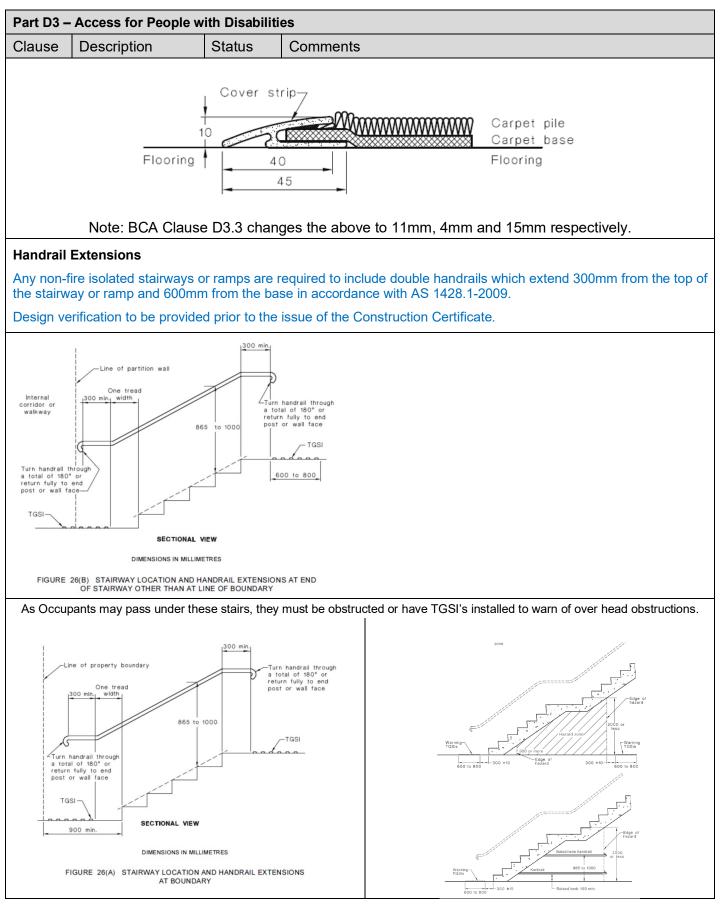






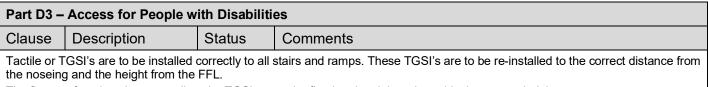






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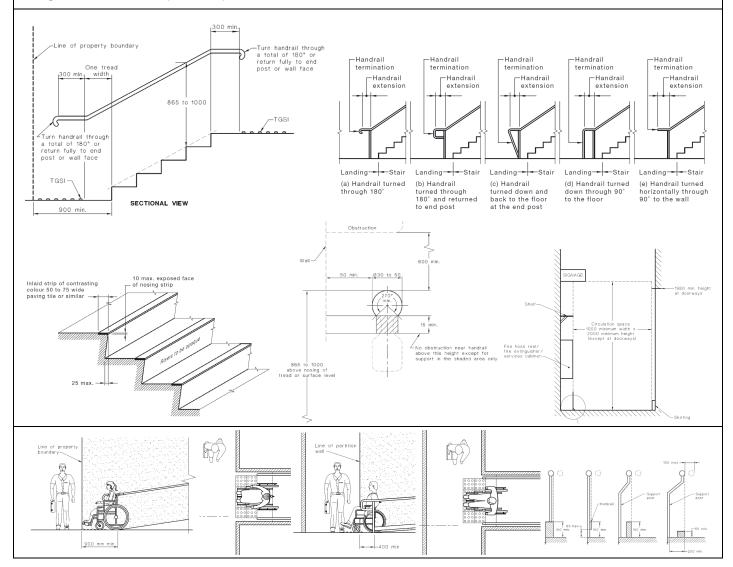


The floor surface is to be cut to allow the TGSI mat to be fixed to the slab and provide the correct height.

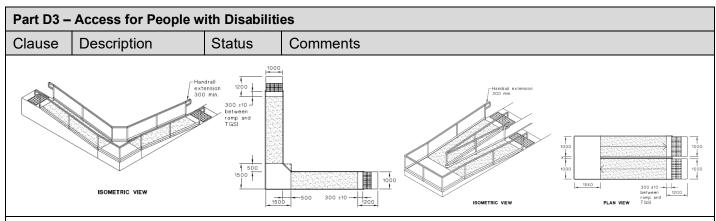
Stairways & Ramps

Any non-fire isolated stairways or ramps are required to include double handrails and tactiles in accordance with AS 1428.1-2009.

Design verification to be provided prior to the issue of the Construction Certificate.







Extraction from Standards Australia Handbook 197:1999

TABLE 3

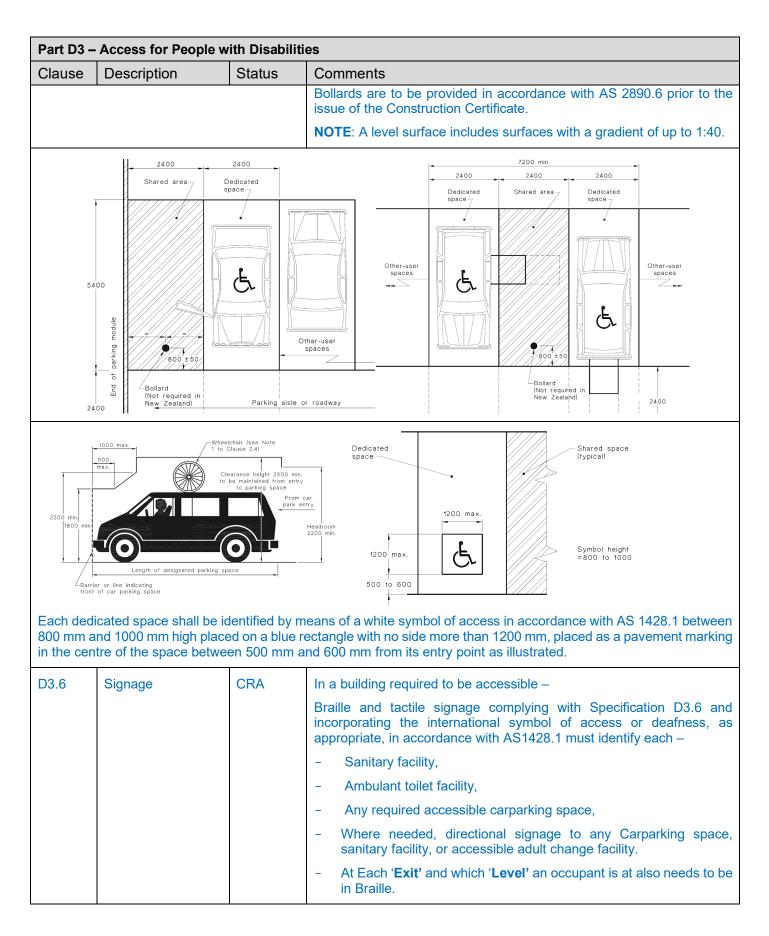
PEDESTRIAN FLOORING SELECTION GUIDE – MINIMUM PENDULUM OR RAMP RECOMMENDATIONS FOR SPECIFIC LOCATIONS

Location	Pendulum	Ramp
External colonnade, walkway and pedestrian crossings	W	R10
External ramps	V	R11
Entry foyers hotel, office, public buildings - wet	X	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	X	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	X	A or R10
Supermarket aisles except fresh food areas	Z	R9
Shop and supermarket fresh fruit and vegetable areas	X	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	X	R10
Undercover concourse areas of sports stadium	Х	R10
Accessible internal stair nosings (dry) – handrails present	X	R10
Accessible internal stair nosings (wet) – handrails present	W	B or R11
External stair nosings	W	R11

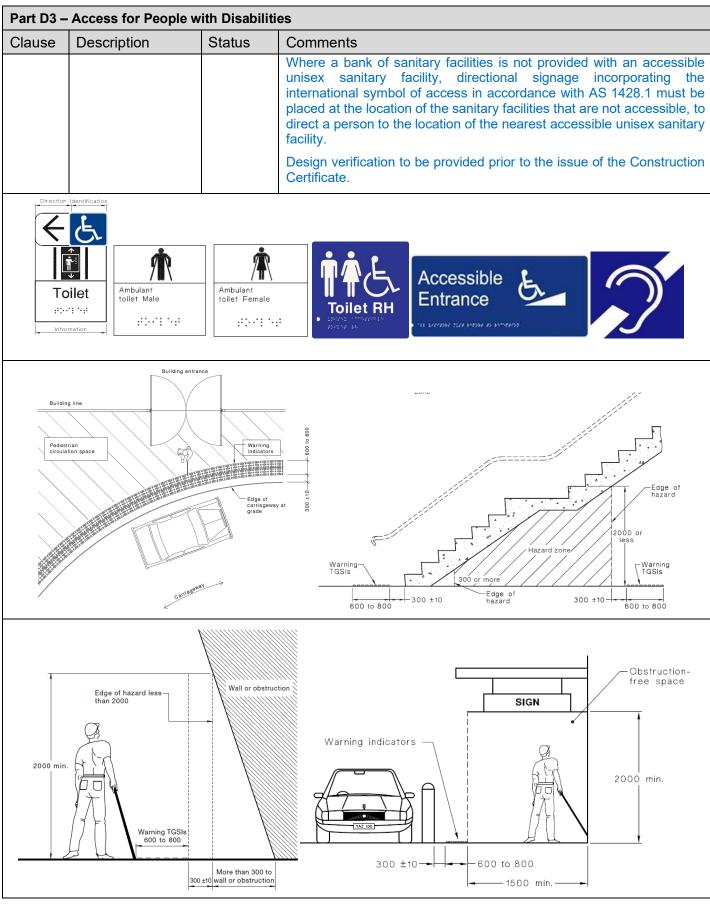


Clause	Description	with Disabili Status	Comments
	-		
D3.4	Exemptions	CRA	The following areas are not required to be accessible:
			(a) An area where access would be inappropriate because of the particular purpose for which the area is used, or
			(b) An area that would pose a health or safety risk for people with a disability, or
			(c) Any path of travel providing access only to an area exempted by (a) or (b).
D3.5	Accessible Carparking	CRA	Car-parking spaces have been provided to the building which are ancillary to the use.
	Carparking		The number of accessible carparking spaces is to be calculated by multiplying the total number of car spaces by the percentage of accessible rooms to the total number of rooms, with the calculated number taken to be the next whole number.
		In this case, one (1) designated accessible parking bays (DAPB) is required to service the required units. Two (2) accessible carparking spaces have been provided.	
		The car spaces 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.
			Required Number of Spaces
1800mm HC 1800mm HC 1800mm HC 1800mm HC 1800mm HC 2.400m HC 1800mm HC			Based on the number of required Accessible SOUs to total SOUs and the number of total car spaces available, Table D3.5 requires a Class 3 boarding house or the like to provide not less than one (1) accessible space(s) for residents. Two (2) accessible carparking spaces have been provided.
			Note: this development is on the cusp of requirements and should thirteen (13) total spaces be provided, then two (2) accessible carparking space are required for the two (2) accessible rooms of twenty-five (25) total rooms, in accordance with Table D3.5 of the BCA.
24	00 , 2400 ,	2400	Shared Zone
			The shared zone must be designated (shaded) as required by D3.5 and AS 2890.6-2009.
			Bollards
			Shared zones are to be provided with a bollard $800 \text{ mm} \pm 50 \text{ mm}$ from the front of the space and equidistant from either side of the space.
			Compliance can be achieved via slight redesign prior to the issue of the Construction Certificate.
			If a car space is to be designated as accessible, the entire shared zone









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Part D3 -	Part D3 – Access for People with Disabilities						
Clause	Description	Status	Comments				
D3.7	Hearing Augmentation	N / A					
D3.8	Tactile Indicators	CRA	For a building required to be accessible, tactile ground surface indicators must be provided to warn people who are blind or have a vision impairment in accordance with this clause. I.e.:				
			- A stairway, other than a fire-isolated stairway,				
			- An escalator,				
			 A passenger conveyor of moving walk, 				
			- A ramp other than a fire-isolated ramp, step ramp, kerb ramp or swimming pool ramp,				
			- In the absence of a suitable barrier an overhead obstruction less than 2m above floor level, other than a doorway.				
			Tactile ground surface indicators required by (a) must comply with sections 1 and 2 of AS/NZS 1428.4.1				
			Design verification to be provided prior to the issue of the Construction Certificate.				
30	0000000 000000000000000000000000000000	45% Contrast ((a) Plans of individual truncated cons (b) Elevation of individual truncated cons (c) Elevation of individual truncated cons (c) Elevation of individual truncated cons				
D3.9	Wheelchair Seating Spaces in Class 9b Assembly Buildings	N / A					
D3.10	Swimming Pools	N / A					
D3.11	Ramps	Noted	On an accessway –				
			(a) A series of connected ramps must not have a combined vertical rise of more than 3.6m; and				
			(b) A landing for a step ramp must not overlap a landing for another step ramp or ramp.				
D3.12	Glazing on an Accessway	CRA	On an accessway, where there is no chair rail, handrail or transom, all frameless or fully glazed doors, sidelights, and any glazing capable of being mistaken for a doorway or opening, must be clearly marked in accordance with AS 1428.1.				
			Design verification to be provided prior to the issue of the Construction Certificate.				



SECTION E – SERVICES AND EQUIPMENT

Part E1 -	- Fire Fighting Equ	ipment	
Clause	Description	Status	Comments
E1.1	-	-	No Provisions
E1.2	-	-	No Provisions
E1.3	Fire Hydrants	CRA	Fire Hydrant Coverage is required throughout the whole building in accordance with AS 2419.1.
			The fire hydrant booster assembly does not appear to be located within 20m of the building and is not in sight of the main building entry as required by AS2419.1.
			Furthermore, the hydrant booster assembly appears to not face the street as required by AS2419.1.
			Image: second
			Compliance can be achieved by a slight redesign prior to the issue of the Construction Certificate.
			Location of hydrant pump room (if required) to be provided prior to the issue of the Construction Certificate.
			Final plans and a design certificate from a qualified hydraulic engineer prior to the issue of a Construction Certificate.
			Please note: If variations from AS2419.1 are required, a Clause 188 approval may be required to be submitted to the NSW Fire Brigade for approval, please allocate time for this process if required.

AS2419.1:2005

3.2.2.2 Location External fire hydrants shall be located as follows:

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

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

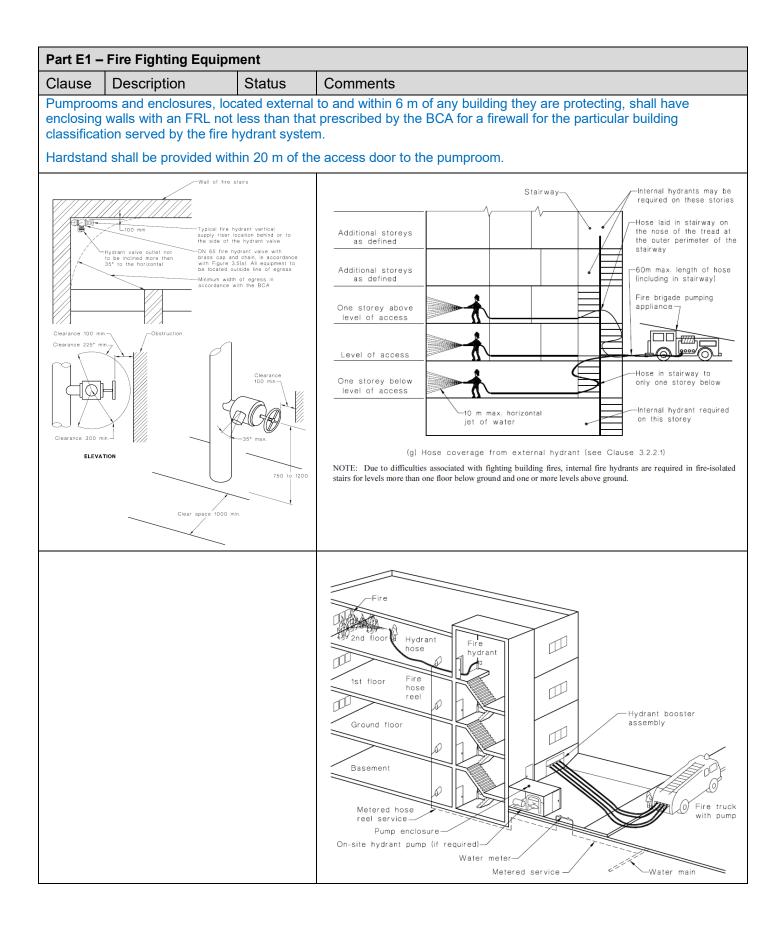
(i) all portions of the building shall be within reach of a 10 m hose stream, issuing from a nozzle at the end of a 60 m length of hose laid on the ground; and

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



Clause	Description	Status	Comments			
	installed as an attack I directly to the externa		see Figure 3.2.2.2(f)], within 50 m of a hardstand such that when			
	-		within reach of a 10 m hose stream, issuing from nozzle at the end of a			
) m length of hose laid					
(ii) a minimum of 1 m of	hose shall e	tend into any room served.			
only [see the buildir	Figure 3.2.2.2(c)], with g shall be within reach	in 20 m of a f of a 10 m he	re brigade booster assembly and having feed fire hydrant performance fire brigade pumping appliance located on a hardstand. All portions of ose 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 direc	tly to the external fire hydrant; and			
(ii) where the hose is co	nnected to a	fire brigade pumping appliance fed from the fire hydrant.			
(e) In a po	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) extending 2 m each	side of the	fire hydrant outlet; and			
	i) extending not less uilding, whichever is		ove the ground adjacent to the fire hydrant or the height of the			
			igh voltage main electrical distribution equipment such as transformers troleum gas and other combustible storage.			
(g) In a po etc.	osition so that the fire h	ydrant is not	obstructed or obscured by obstacles, stored goods, vehicles, vegetatio			
(h) In a po	osition so that the fire h	ydrant is pro	tected from possible mechanical damage by vehicles.			
6.4 PUMF	ROOM					
6.4.1 Gen	eral					
Pumproor	ns containing fixed on-	site pumpset	s and associated equipment shall be weatherproof and be—			
(a) secure	to prevent the entry o	f unauthorize	d persons;			
(b) adequ	ately ventilated for the	aspiration ar	d cooling of pump drivers;			
(c) heated	l, where necessary, to	prevent freez	ring and facilitate the cold start of compression ignition drivers;			
	ed by appropriate sign the attending fire brig		isual and audible aids, so that the room and its entrance can be readily			
(e) constr replaceme		2.1 m high in	ternal clearance with adequate space for pump maintenance and			
6.4.2 Inte	rnal pumprooms					
Pumproor	ns located within a bui	lding shall ha	ve—			
· · ·	(a) a door opening to a road or open space, or a door opening to fire-isolated passage or stair which leads to a road or open space; and					
			n accordance with AS 2118.1, enclosing walls with an FRL not less than ne particular building classification served by the fire hydrant system.			
	ernal Pumprooms					







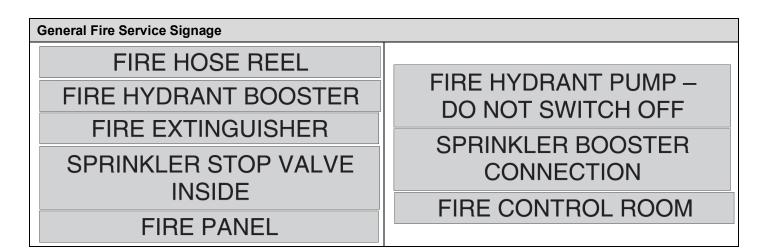
Part E1 –	Fire Fighting Equipm	nent	
Clause	Description	Status	Comments
E1.4	Hose Reels	CRA	Fire hose reels coverage is required within the car park portions of the building if a hydrant is located within the building.
			Where fire hose reels are located within the building, they are to be within 4m 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.
	(b) Front view DIMENSIONS IN MILLIMETRES	228 ((typ)-	be reel Cabinet door DIENSIONS IN MILLIMETRES
FIG	URE 10.2 FIXED HOSE REEL CLEARANCE		FIGURE 11.1 TYPICAL ARRANGEMENT OF FIXED TYPE HOSE REEL
E1.5	Sprinklers	PS	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).
			An FPAA101D or FPAA101H sprinkler system 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.
			Compliance can be achieved via undertaking a fire engineering performance solution prior to the issue of the Construction Certificate.
			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.



Part E1 -	- Fire Fighting Equipn	nent	
Clause	Description	Status	Comments
E1.6	E1.6 Portable fire C extinguishers		Portable fire extinguishers are required to be provided in accordance with Table E1.6 of the BCA and AS 2444.
			For Class 2, 3 or 5 buildings or Class 4 parts of a building portable fire extinguishers must be provided to serve the whole storey where one or more internal fire hydrants are installed and when fire hydrants are not installed to serve any fire compartment which a floor area greater than 500m ² (for the purposes of this Clause a Class 2, 3 or 4 parts of a building are considered to be a fire compartment).
			Portable fire extinguishers provided in a Class 2 or 3 building or Class 4 part of a building must be:
			An ABE type fire extinguisher; and
			A minimum size of 2.5kg; and
			• Distributed outside a sole-occupancy unit to serve the storey at which they are located and ensure that the travel distance from the entrance doorway of any sole-occupancy unit to the nearest fire extinguisher is not more than 10m.
			Details demonstrating compliance with this clause must be incorporated into the architectural drawings prior to the issue of a Construction Certificate.
			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.
			 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)
FIGURE 3.2 MG	DIMENSIONS IN MILLIMETRES	KTINGUISHERS AND	 Extinguishers Signs must be shown and shall be mounted not less than 2.0 m above floor level, or at a height that makes them most apparent to a person of average height and visual acuity approaching the extinguisher location.

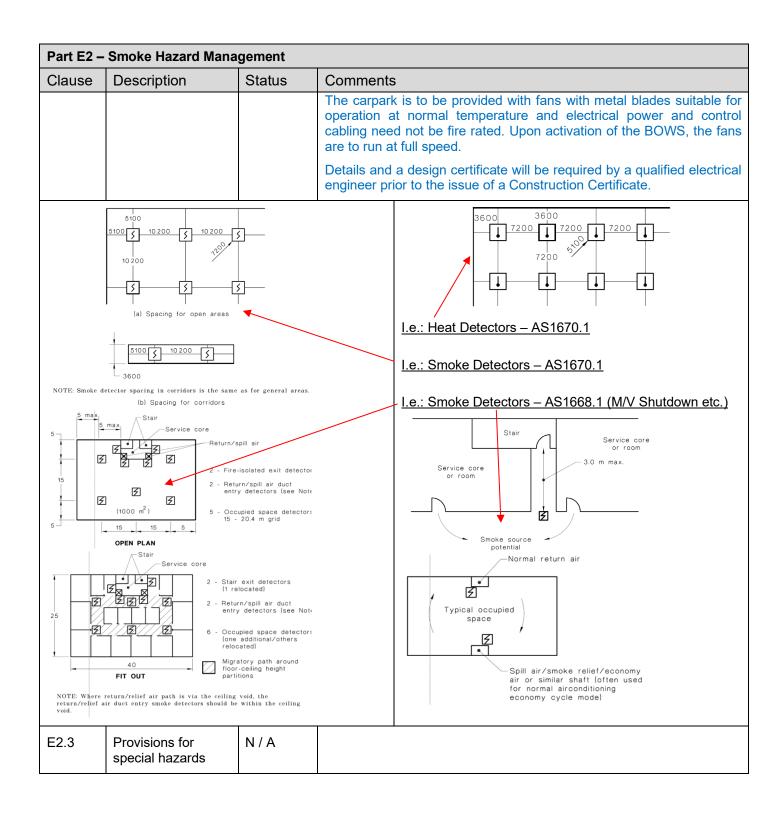


Part E1 -	Part E1 – Fire Fighting Equipment				
Clause	Description	Status	Comments		
E1.7	-	-	No Provisions		
E1.8	Fire control centres	N / A			
E1.9	Fire precautions during construction	CRA	During construction, not less than one fire extinguisher to suit Class A, B and C fires is required for each storey, and is required to be located adjacent to each exit.		
E1.10	Provisions for special hazards	N / A			



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 Clause 4 of Specification E2.2a and a Building Occupant Warning System (BOWS).		
			Each Class 3 SOU is to incorporate an AS 1670.1 smoke detection and alarm system which is connected to the FIP panel.		
			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 smoke detection and alarm system must be connected to an AS 1670.3 fire alarm monitoring system as required by Clause 8 of Specification E2.2a of the BCA.		







Part E3 –	Lift Installations				
Clause	Description	Status	Comments		
E3.1	-	-	No provisions.		
E3.2	Stretcher facility in lifts	N / A	As the effective height of this building appears to be less than 12 metres, a stretcher lift is not required.		
E3.3	Warning against use of lifts in fire	CRA	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.		
			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.		
			Refer to Clause D3.3 of this report for further detail.		
			To be confirmed with details provided at Construction Certificate stage or design statement.		
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 1400mm x 1100mm to be provided as the lift is deemed to travel less than 12m.		
			To be confirmed with details provided at Construction Certificate stage or design statement.		
E3.7	Fire Services Control	Noted	Passenger lift cars are to be provided with fire service controls in accordance with AS1735.2.		
E3.8	Aged care buildings	N / A			
E3.9	Fire service recall control switch	N / A			
E3.10	Lift car fire service drive control switch	N / A			



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.			
	<u>*</u>		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.			
	in in		2. A door from an enclosed stairway, passageway or ramp at every level of discharge to a road or open space.			
(b) Lef	t from here (c) Ric	aht from here	3. A door serving as or forming part of a required exit in a storey required to be provided with emergency lighting.			
			A test switch is to be installed for each storey.			
			Where and if requirements are altered under this proposal, details and a design certificate will be required by a suitably qualified electrical engineer prior to the issue of a Construction Certificate.			
E4.6	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				



Part E4 –	Part E4 – Emergency Lighting, Exit Signs and Warning Systems					
Clause	Description	Status	Comments			
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	CRA	To be determined at CC stage.			



SECTION F - HEALTH AND AMENITY

Part F1 -	Damp and Weatherp	oroofing	
Clause	Description	Status	Comments
F1.0	Deemed-to-Satisfy Provisions	PS	 <i>Performance Requirement</i> 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 fire engineering performance solution 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 level obstruct the perimeter of the drain of the carpark.
			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.
			Example of subject locations B C B C C B C C C C C C C C C C C C C



Part F1 -	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.		
F1.2	-	-	No provisions		
F1.3	-	-	No provisions		
F1.4	External above ground membrane	CRA	Waterproofing membranes for external above ground use may comply with AS 4654 Part 1 and 2. Details and a design certificate to be provided prior to the issue of a Construction Certificate.		
F1.5	Roof coverings	CRA	Roof coverings are to comply with the relevant Australian Standards as per Clause F1.5.		
			Details and design certification to be provided prior to the issue of a Construction Certificate.		
F1.6	Sarking	CRA	Sarking type materials used for weatherproofing of roofs and walls must comply with AS/NZS 4200 Parts 1 and 2.		
			Details and design certification to be provided prior to the issue of a Construction Certificate.		
F1.7	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			



Part F1 -	Part F1 – Damp and Weatherproofing				
Clause	Description	Status	Comments		
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.		

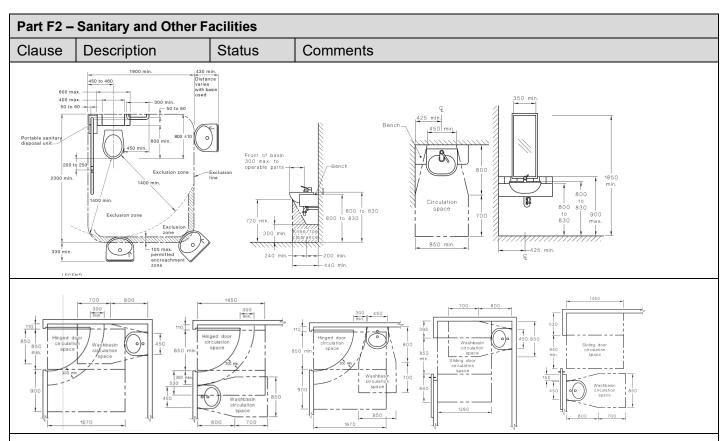


Part F2 –	Sanitary and Other	acilities				
Clause	Description	Status	Comments			
F2.1	Facilities in residential buildings	CRA	Sanitary and othe provided in accord			uildings must be
			Facilities for emplo buildings must be			
			Note : F2.4 (a) req bank of sanitary c compartments pro	ompartments cor	ntaining male an	
			Details and desigr Construction Certi		provided prior	to the issue of a
F2.2	Calculation of number of occupants and fixtures	Noted				
F2.3	Facilities in Class 3 to 9 buildings	CRA	Except where perr (f), F2.4(a) and F females must be accordance with T	2.4(b), separate provided for Cla	sanitary facilitie	es for males and
			Details and desigr Construction Certi		be provided prior	to the issue of a
Table F2.3 Sa	anitary facilities in Class 3, 5,	6, 7, 8 or 9 buildings				
User Group		set Pans		nals		basins
Class 3, 5, 6	Design Occupanc	y Number	Design Occupancy	Number	Design Occupancy	Number
Male employ	ees 1 — 20 > 20	1 Add 1 per 20	1 — 10 11 — 25 26 —50 >50	0 1 2 Add 1 per 50	1 — 30 > 30	1 Add 1 per 30
Female emp	loyees 1 — 15 > 15	1 Add 1 per 15	N/A	N/A	1 — 30 > 30	1 Add 1 per 30
F2.4			An accessible toile SOUs and the wor be indicated on the	kers WC. Full con e plans prior to is:	mpliance with AS	1428.1:2009 is to
			Accessible Work The common Acc amendment to ens	essible WC req		ashbasin location



Clause Description Status		Status	Comments
			Accessible Rooms
			The subject accessible rooms require 2.25m width between finished walls for this layout in lieu of 2.2m currently provided.
			Compliance can be achieved via slight redesign prior to the issue of the Construction Certificate.
Unisex To & Showe Pater State Pater State State Pater State Pater State Pater State Pater State Pater State Pater State	ulant	Unisex Ambulant Toilet UNISTICK PRIM	 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 cubical being a minimum normal toilet cubical size for easier use (Persons with mobility difficulties) in each and every toilet bank.
			$\begin{array}{c} & \\ & \\ & \\ & \\ & \\ & \\ & \\ & \\ & \\ & $





Details for an Accessible Toilet: (Checklist)

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



installations

Accessible adult

change facilities

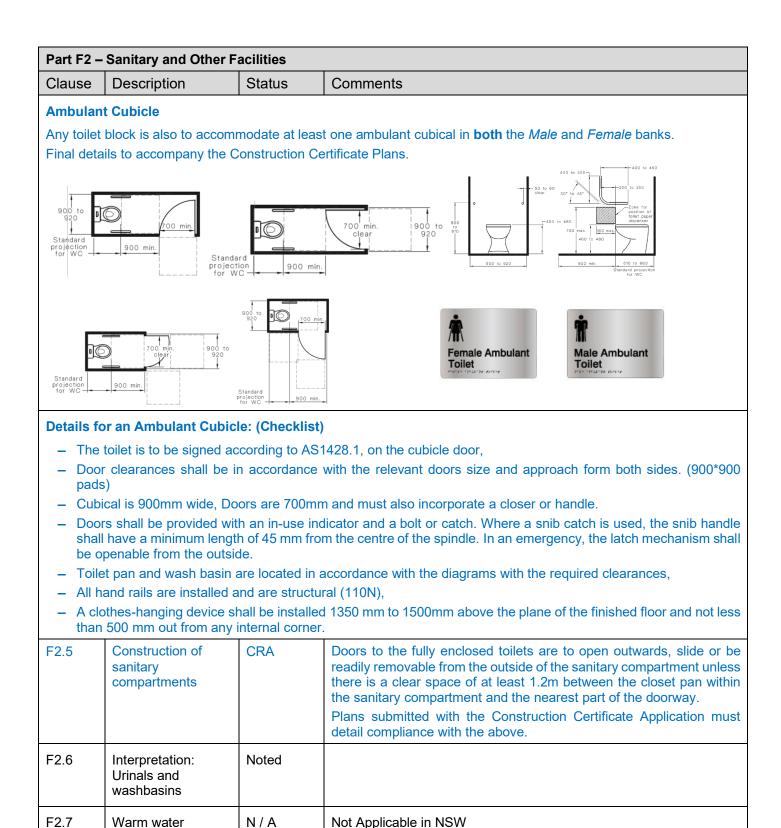
N/A

N/A

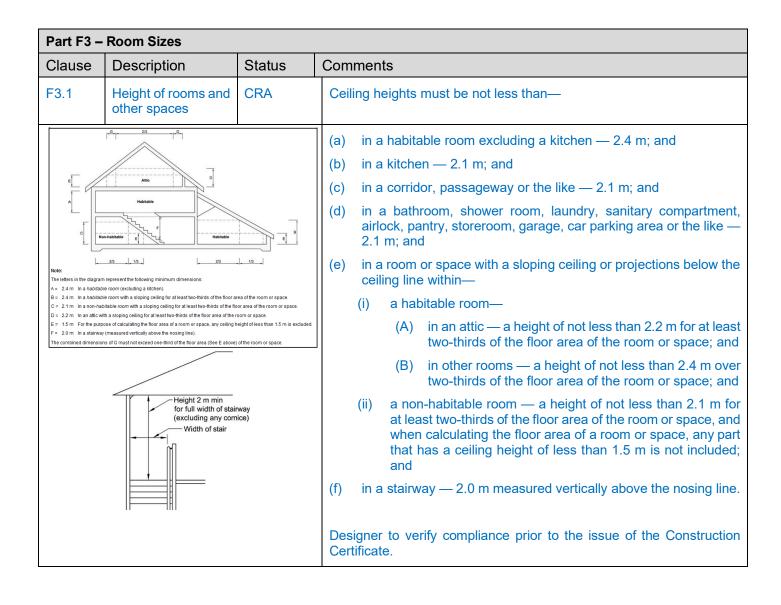
Waste

F2.8

F2.9









Part F4 -	Light and Ventilation	1	
Clause	Description	Status	Comments
F4.1	Provisions of natural light	Noted	Natural light must be provided to all habitable rooms located within the Class 3 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).
			Designer to assess the design of light to the subject bedrooms prior to the issue of the Construction Certificate.
			Details and design certification for natural light borrowed are to be provided by the architect prior to the issue of a Construction Certificate.
F4.4	Artificial lighting	CRA	Artificial lighting must be provided in required stairways, passageways, ramps, sanitary compartments, bathrooms, laundries and other spaces used in common by occupants of the building complying with AS1680.0 in accordance with the requirements of Clause F4.4 of the BCA.
			Details and design certification to be provided by electrical engineer prior to the issue of a Construction Certificate.
F4.5	Ventilation of rooms	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	



Part F4 – Light and Ventilation							
Clause	Description	Status	Comments				
F4.9	Airlocks	Noted	Note: Airlocks must comply with the set distances under AS1428.1 :2009				
900 min. —	900 min. 900 min.						
F4.10	-	-	No provisions				
F4.11	Carparks	CRA	The carpark is to be provided with ventilation complying with AS1668.2 or have an adequate system of permanent natural ventilation.				
			Details and design certification to be provided by mechanical engineer prior to the issue of a Construction Certificate.				
F4.12	Kitchen local exhaust	N / A					



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



Part F5 – Sound Transmission and Insulation						
Clause	Description	Status	Comments			
			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 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 – Condensation management

N / A – The Deemed-to-Satisfy provisions of this Part are not applicable to Class 3 buildings.



SECTION G – ANCILLARY PROVISIONS

Part G1 – Minor Structures and Components				
Clause	Description	Status	Comments	
G1.1 & NSW G1.1	Swimming pools	N / A		
G1.2	Refrigerated chambers, strong- rooms and vaults	N / A		
G1.101	Provision for cleaning windows	CRA	A safe manner of cleaning windows is to be provided as windows are located 3 or more storeys above ground level. The windows must either be able to be cleaned wholly from within the building, or a method complying with the Construction Safety Act 1912 and Regulations is required. Details verifying compliance must be provided prior to the issue of a Construction Certificate	

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

Part G3 – Atrium construction	
N/A	

Part G4 – Minor Structures and Components	
N / A	

Part G5 – Construction in bushfire prone areas
N / A



SECTION H – SPECIAL USE BUILDINGS

N / A

SECTION I – MAINTENANCE

Note:

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

SECTION J – ENERGY EFFICENCY

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



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 90/60/30 240/180/90 3 m or more 120/60/30 180/120/90 For non-loadbearing parts--/ 90/ 90 -/120/120 -/180/180 -/240/240 less than 1.5 m -/ 90/ 90 -/180/120 -/240/180 1.5 to less than 3 m -/ 60/ 60 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-90/90/90 120/120/120 180/120/120 240/120/120 Loadbearing Non-loadbearing -/ 90/ 90 -/120/120 -/120/120 -/120/120 Bounding public corridors, public lobbies and the like-Loadbearing 90/90/90 120/-/-240/_/_ 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 240/-/and COLUMNS-90/-/-120/-/-180/_/_ 180/180/180 FLOORS 240/240/240 90/90/90 120/120/120 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	Rev.	Project No.	Date	Drawn By
03	SECOND BASEMENT PLAN	2	WAB	08.12.2021	Platform Architects
04	FIRST BASEMENT PLAN	2	WAB	08.12.2021	Platform Architects
05	GROUND FLOOR PLAN	2	WAB	08.12.2021	Platform Architects
06	FIRST FLOOR PLAN	2	WAB	08.12.2021	Platform Architects
07	ROOF PLAN	2	WAB	08.12.2021	Platform Architects
08	SECTION A-A	2	WAB	08.12.2021	Platform Architects
09	SECTIONS I-I, II-II	2	WAB	08.12.2021	Platform Architects
10	SECTIONS III-III, IV-IV	2	WAB	08.12.2021	Platform Architects
11	SECTION V-V	2	WAB	08.12.2021	Platform Architects
12	NORTH ELEVATION SOUTH ELEVATION	2	WAB	08.12.2021	Platform Architects
13	EAST ELEVATION WEST ELEVATION	2	WAB	08.12.2021	Platform Architects

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