BUILDING CODE OF AUSTRALIA AND ACCESSIBILITY COMPLIANCE ASSESSMENT REPORT

ALTERATION AND ADDITION TO A MIXED USE BUILDING AND A PUB

19-21 AND 23-29 THE CORSO, MANLY







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REVISION STATUS									
REPORT NO/REV	DATE	STATUS	WRITTEN	CHECKED					
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1.0 EXECUTIVE SUMMARY AND RECOMMENDATIONS

This report provides a Building Code of Australia (BCA) 2019 Amendment 1 assessment of the proposed alteration and addition to an existing mixed-use building and a pub, located at 19-21 and 23-29 The Corso, Manly

The primary purpose of this report is to identify the non-compliance matters contained in the proposed design against the current Deemed-to-Satisfy (DTS) provisions of the BCA and to provide compliance recommendations to overcome the DTS non-compliances.

1.1 Recommendations for 19-21 The Corso

The following is a list of Deemed-to-Satisfy Provisions that should be addressed either by design amendments, additional information **OR** by way of an Alternative Solution:









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BCA Clause	Deemed-to-Satisfy Provision to be addressed
D1.3 When Fire Isolated exits	The internal stairway serving the residential levels connects more than 3 consecutive storey and is not designed to be fire isolated.
are required	This will be addressed by a Fire Engineered Performance Solution at CC stage.
D1.6 Dimensions of Exits and paths of Travel to Exits	Ground – There are two points where the path of travel width is less than 1000mm in width, being 980 & 930mm.
	First, Second & Third Floor – Path of travel width at the common corridor is less than 1000mm, being 960mm.
	This will be addressed by a Fire Engineered Performance Solution at CC stage.
D3.1 General building access	The following doorways do not have sufficient circulation space at the doorways in accordance with Clause 13.3 of AS 1428.1-2009.
requirements	It is recommended that this is addressed by Performance Solution at CC stage.







Access to buildings

entry doorways which does not comply with Clause 13.3 of AS 1428.1-2009.





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BCA Clause

Deemed-to-Satisfy Provision to be addressed



F4.2 Methods and extent of natural lighting	Level 1 - The bedrooms on the western side faces a boundary of an adjoining allotment and is less than horizontal distance from the wall which does not comply with (b). It is recommended this is addressed by a Performance Solution at CC stage.									
	Level	Calc (50% of square root of sill height)	Metres to wall	Complies						
	Level 1	0.5 x √10.98m = 1.66m	1.5	No.						

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ACCESSIBLE ENTRY The entrance doorway post adaptation has a circulation space less than permitted in AS 1428.2 & AS 1428.1 which does not comply with Clause 4.3.1 of AS 4299-1995.

It is recommended that this is addressed by a Performance Solution at CC stage.











BCA Clause	
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Deemed-to-Satisfy Provision to be addressed

1.2 Recommendations for 23-29 The Corso

The following is a list of Deemed-to-Satisfy Provisions that should be addressed either by design amendments, additional information **OR** by way of a Performance Solution:

BCA Clause	Deemed-to-Satisfy Provision to be addressed
Fire source features	It is recommended the allotments are amalgamated so that <i>fire source features</i> no longer exist within the building and fire separation provision of BCA Clause C1.1 & C3.2 can be determined DTS compliant.
C3.2 Protection of openings in external walls	<text></text>
	Ground Floor

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2.0 INTRODUCTION

This report provides a Building Code of Australia (BCA) 2019 Amendment 1 assessment of the proposed alteration and addition to an existing mixed-use building and a pub, located at 19-21 and 23-29 The Corso, Manly.

This report provides a BCA assessment table in Section 3.0 that summarises the identified non-compliance matters and offers specific recommendations.

2.1 Basis of Report

The key basis of this report is to address compliance with the Building Code of Australia (BCA) 2019 Amendment 1. The scope of services is limited to Sections C – "Fire Resistance", Section D – "Access & Egress", Section E – "Services & Equipment", Section F "Health and Amenity" and Section J "Energy Efficiency"

This report is based on a desktop assessment of the proposed plans, with specific reference to the following:

• Architectural plans for the mixed use prepared by Durbach Block Jaggers, Job No. 1733, Drawing Numbers:

Drawing Title	Drawing No.	Revision	Dated
Proposed – Ground and First Floor Plans	A-15	DA	01.04.22
Proposed – 2 nd and 3 rd Floor Plans	A-16	DA	01.04.22
Proposed – Roof Plan	A-17	DA	01.04.22
Proposed – North and South Elevations	A-18	DA	01.04.22
Proposed - East and West Elevations	A-19	DA	01.04.22
Proposed – Sections	A-20	DA	01.04.22

• Architectural plans for the pub prepared by Paul Kelly Design, Project No. 691:

Drawing Title	Drawing No.	Revision	Dated
Ground Floor	DA GD 100A	P3	09.02.22
Existing and Demolition Plan			
Ground Floor	DA GD 100B	P3	09.02.22
Proposed Plan (Context 1:200)			
Ground Floor	DA GD 101	P3	09.02.22
Existing and Demolition Plan			
Ground Floor	DA GD 102	P3	09.02.22
Proposed Plan			
Corso Elevation	DA GD 202	P3	09.02.22
Proposed			
Market Lane	DA GD 204	P3	09.02.22
Proposed			
Level 01	DA L1 101	P3	09.02.22
Existing and Demolition Plan			
Level 01	DA L1 102	P3	09.02.22
Proposed Plan			
Level 01	DA L1 100B	P3	09.02.22

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- The Building Code of Australia 2019 Amendment 1 prepared by the Australian Building Codes Board.
- The Guide to the BCA 2019 Amendment 1, prepared by the Australian Building Codes Board.

2.2 Purpose of the Report

The purpose of this report is to assess the following:

- Assessment under the current Building Code of Australia 2019 Amendment 1 and list any departures from the BCA 2019 Amendment 1.
- Provide recommendations to address identified non-compliances, and/or identify potential alternative solutions.

2.3 Limitations of the Report

This report does not assess the following:

- Access and facilities for people with disabilities is addressed however compliance with Disability Discrimination Act 1992 (DDA) is outside the scope of this report. It should be noted that BCA compliance does not necessarily meet the requirements of the Disability Discrimination Act (DDA).
- Reporting on hazardous materials, OH&S matters or site contamination
- Assessment of any structural elements or geotechnical matters relating to the building, including any structural or other assessment of the existing fire resistant levels of the building
- Consideration of any fire services operations (including hydraulic, electrical or other systems)
- Assessment of plumbing and drainage installations, including stormwater
- Assessment of mechanical plant operations, electrical systems or security systems
- Heritage significance
- Consideration of energy or water authority requirements
- Consideration of Council's local planning policies
- Environmental or planning issues
- Requirements of statutory authorities
- Pest inspection or assessment building damage caused by pests (general/visual pest invasion or damage will be reported, however invasive or intrusive inspections have not be carried out)
- Sections G, H, I or J of the BCA are not considered.
- Provision of any construction approvals or certification under Part 4A or Part 5 of the Environmental Planning & Assessment Act 1979.
- Glazing, shading, lighting calculations and the like required by Section J of the BCA not been carried out



- - BCA 2019 Amendment 1 does not directly specify slip-resistance classification(s) for all *accessible paths of travel*; however, we highlight the need under AS 1428.1-2009 for all *accessible paths of travel* to have a slip-resistant surface. We recommend you should seek surface finish advice from an independent specialist slip safety consultant.



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3.0 BCA ASSESSMENT DATA

The following data is provided in respect to review of the building under the Building Code of Australia 2019 Amendment 1 in respect to the compliance assessment of the proposed alteration and addition to an existing mixed-use building and a pub, located at 19-21 and 23-29 The Corso, Manly.

9-21 The Corso
Ground Floor: Class 2 (residential) & Class 6 (retail)
irst Floor to Third Floor: Class 2 (residential)
3-29 The Corso
Fround Floor: Class 6 (bar area)
irst Floor: Class 5 (office) & Class 6 (bar area)
9-21 The Corso
3-29 The Corso
letermined in accordance with C1.2 of the BCA).
9-21 The Corso
ype A
3-29 The Corso
ype B
letermined in accordance with C1.1 of the BCA)
2,000m² & <12,000m³
9-21 The Corso
7.030 – 5.910
11.120m
3-29 The Corso
.68 - 6.08
3.6m
letermined in accordance with ABCB Climate Map dated Sep 2019)

3.1 Location of Fire Source Features - 19-21 The Corso

The potential *fire source features* to be considered for this building are the external wall of another building on the allotment which is not a Class 10 building, the side or rear of the allotment boundary or the far side of the road.

It is recommended the allotments are amalgamated so that *fire source features* no longer exist within the building and fire separation provision of BCA Clause C1.1 & C3.2 can be determined DTS compliant.





3.2 Location of Fire Source Features - 23-29 The Corso

The potential *fire source features* to be considered for this building are the external wall of another building on the allotment which is not a Class 10 building, the side or rear of the allotment boundary or the far side of the road.

In this instance the boundaries (fire source features) are located within the building as highlighted by red dashed line marked up below.

It is recommended the allotments are amalgamated so that *fire source features* no longer exist within the building and fire separation provision of BCA Clause C1.1 & C3.2 can be determined DTS compliant.



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Figure 2: Location of *fire source features* on the far side of Market Place.

3.3 Summary of Fire Services Required - 19-21 The Corso

Summarised below are the BCA deemed to satisfy fire services required for the mixed-use building at 19-21 The Corso:

- Fire hydrants are required to serve all areas and be provided in accordance with BCA E1.3 and AS 2419.1-2005.
- A fire hose reel system complying with BCA E1.4 and AS 2441-2005 must be provided to serve all areas other than class 2 SOUs.
- A sprinkler system throughout all parts of the building complying with E1.5 and AS 2118.1-2017 and the Fire Engineering Report
- Portable fire extinguishers must be provided in accordance with BCA E1.6 & Table E1.6 and must be selected, located and distributed in accordance with Sections 1, 2, 3 and 4 of AS 2444-2001.
- Automatic smoke and fire detection to be provided throughout the building in accordance with Part E2 and BCA Specification E2.2a. and AS 1670.1-2018
- Smoke alarm system to be provided throughout the building in accordance with Part E2 and BCA Specification E2.2a. and AS 3786-2014
- An emergency lighting system must be installed throughout the building in accordance with BCA E4.2 of the BCA and AS 2293.1-2018.





• Exit signs must be installed throughout the building in accordance with BCA E4.5 and AS 2293.1-2018.

3.4 Summary of Fire Services Required - 23-29 The Corso

Summarised below are the BCA deemed to satisfy fire services required for the pub at 23-29 The Corso:

- Fire hydrants are required to serve all areas and be provided in accordance with BCA E1.3 and AS 2419.1-2005.
- A fire hose reel system complying with BCA E1.4 and AS 2441-2005.
- Automatic smoke and fire detection to be provided throughout the building in accordance with Part E2 and BCA Specification E2.2a. and AS 1670.1-2018
- An emergency lighting system must be installed throughout the building in accordance with BCA E4.2 of the BCA and AS 2293.1-2018.
- Exit signs must be installed throughout the building in accordance with BCA E4.5 and AS 2293.1-2018.
- Signage to be provided exits in accordance with D2.23 and Clause 183 of *Environmental Planning & Assessment Regulation* 2000.





4.0 BCA ASSESSMENT SUMMARY- 19-21 The Corso

The following table details the BCA compliance of the assessed design.

he following table details t	ne B	CAC	ompl	iance	e of the assessed design.
BCA DEEMED-TO-SATISFY PROVISION	COMPLIES	DOES NOT COMPLY	NA or Informational	Compliance Required	COMMENTS
SPECIFICATION A1.1 FIRE PROTECTED TIMB	ER				
					ow fire-protective timber construction utilising a non-combustible fire g 25m which are sprinkler protected.
2.1 General requirements			Х		Not applicable. Fire protected timber is not proposed.
2.2 Massive Timber			Х		 Not applicable. Fire protected timber is not proposed.
SECTION B STRUCTURE		1	1	1	
Part B1: Structural Provisions				X	Structural engineer to provide structural drawings/details and accompanying structural design certificate to demonstrate that all building elements will comply with Section B of the BCA.
					 Glazing must comply with AS1288-2006 and AS2047-2014.
					 Termite control must comply with AS3660.1-2000 where any primary building elements are timber.
					If the building is in a flood hazard area it is required to comply with BCA clause B1.6.
					Details demonstrating compliance with this clause must be incorporated into the construction certificate plans specification (and structural details)
SECTION C FIRE RESISTANCE					
Part C1 - Fire Resistance	e & S	stabil	lity		
C1.1 Type of Construction Required				X	Refer to Spec C1.1 and Attachment B for Schedule of FRLs for Type A Construction. These are to be certified by the architect and structural engineer as having been met, based on the proposed design.
					Please note that specification C1.1 also requires design compliance with the following:
					 Fire isolated shafts are required to be enclosed at the top and bottom of the shaft with fire rated construction as per specification C1.1. This fire rating is required in two directions.
		1	1	1	

- 2. The walls to fire rated shafts must achieve the fire rating from both directions i.e. from inside and outside the shaft.
- 3. Roof: The roof of the building does not need an FRL, provided the roof covering is non-combustible (as per the concession in Clause 3.5 of Specification C1.1 of the BCA).
- 4. Bounding construction to residential units must comply with the fire rating requirements of table 3.
- 8. Floors: see clause C2.9. In addition floors require an FRL of 90/90/90 where between residential levels.

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BCA DEEMED-TO-SATISFY PROVISION	COMPLIES	DOES NOT COMPLY	NA or Informational	Compliance Required	COMMENTS	
					Details demonstrating compliance with this clause must be incorporated into the construction certificate plans / specification	
C1.9 Non - combustible building elements				Х	(a) In a building <i>required</i> to be of Type A construction, the following building elements and their components must be <i>non-combustible</i> :	
building elements					 (i) External walls and <i>common walls</i>, including all components incorporated in them including the facade covering, framing and insulation. 	
					(ii) The flooring and floor framing of lift pits.	
					(iii) Non- <i>loadbearing internal walls</i> where they are <i>required</i> to be <i>fire-resisting</i> .	
					(b) A shaft, being a lift, ventilating, pipe, garbage, or similar shaft that is not for the discharge of hot products of combustion, that is non-loadbearing, must be of non-combustible construction in—	
					(i) a building <i>required</i> to be of Type A construction; and	
					(c) A loadbearing internal wall and a loadbearing fire wall, including those that are part of a loadbearing shaft, must comply with Specification C1.1.	
					(d) The requirements of (a) and (b) do not apply to gaskets, caulking, sealants, termite management systems, glass including laminated glass, thermal breaks associated with glazing systems, damp-proof courses.	
					(e) The following materials may be used wherever a <i>non-combustible</i> material is <i>required</i> :	
					(i) Plasterboard.	
					(ii) Perforated gypsum lath with a normal paper finish.	
					(iii) Fibrous-plaster sheet.	
					(iv) Fibre-reinforced cement sheeting.	
					 (v) Pre-finished metal sheeting having a <i>combustible</i> surface finish not exceeding 1 mm thickness and where the <i>Spread-of-Flame Index</i> of the product is not greater than 0. 	
					(vi) Sarking type materials that do not exceed 1mm in thickness and have a Flammability Index not greater than 5.	
					(vii) Bonded laminated materials where—	
					(A) each lamina, including any core, is <i>non-combustible</i> ; and	
					(B) each adhesive layer does not exceed 1 mm in thickness and the total thickness of the adhesive layers does not exceed 2mm; and	
					(C) the Spread-of-Flame Index and the Smoke- Developed Index of the bonded laminated material as a whole do not exceed 0 and 3 respectively.	

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BCA DEEMED-TO-SATISFY PROVISION	COMPLIES	DOES NOT COMPLY	NA or Informational	Compliance Required		COMMENTS
					incorp	s demonstrating compliance with this clause must be orated into the construction certificate plans / ication
C1.10 Fire Hazard Properties				Х		The fire hazard properties of the following internal linings, materials and assemblies must comply with Specification C1.10 by way of test reports / certificates provided from a <i>registered testing authority</i> (within the meaning of the BCA):
						(i) Floor linings and floor coverings.
						(ii) Wall linings and ceiling linings.
						(iii) Air-handling ductwork.
						(iv) Lift cars.
						(vii) Sarking type materials.
						(viii) Attachments to floors, ceilings, internal walls and the internal linings of external walls.
						(ix) Other materials including insulation materials other than
						The requirement s of (a) do not apply to a material or assembly if it is –
						(i) plaster, cement render, concrete, terrazzo, ceramic tile or the like; or
						(ii) a fire protective covering; or
						(iii) a timber framed window; or
						(iv) a solid timber handrail or skirting; or
						(v) a timber-faced door; or
						 (vi) an electrical switch, socket-outlet, cover plate or the like; or
						(vii) a material used –
						 (A) a roof insulating material applied in continuous contact with a substrate; or
						(B) an adhesive; or
						 (C) a damp-proof course, flashing, caulking, sealing, ground moisture barrier or the like; or
						(viii) a paint, varnish, lacquer or similar finish, other than nitro- cellulose lacquer; or
						 (ix) a clear or translucent roof light of glass fibre-reinforced polyester if –
						 (A) the roof in which is is installed forms part of a single storey building required to be Type C construction; and
						(B) the material is used as part of the roof covering; and
						 (C) it is no closer than 1.5m from another roof light of the same type; and
						(D) each roof light is not more than 14m ² in area; and

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BCA DEEMED-TO-SATISFY PROVISION	COMPLIES	DOES NOT COMPLY	NA or Informational	Compliance Required	COMMENTS
					 (E) the area of the roof lights per 70m² of roof surface is not more than 14m² in area; or
					(x) a face plate or neck adaptor of supply and return air outlets of an air handling system; or
					 (xi) a face plate or diffuser plate of light fitting and emergency exit signs and associated electrical wiring and electrical components; or
					(xii) a joinery unit, cupboard, shelving or the like; or
					(xiv) Timber treads, risers, landings and associated supporting framework installed in accordance with D2.25 where the Spread-of-Flame Index and the Smoke- Developed Index of the timber does not exceed 9 and respectively; or
					(xv) Any other material that does not significantly increase the hazards of the fire.
					Details demonstrating compliance with this clause must be incorporated into the construction certificate plans / specification
C1.11 Performance of External Walls in Fire				Х	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			Х		Clause deleted.
C1.13 Fire protected timber: concession			Х		Not applicable. No fire-protected timber proposed.
C1.14 Ancillary elements				Х	An <i>ancillary element</i> must not be fixed, installed or attached to the internal parts or external face of an <i>external wall</i> that is <i>required</i> to be <i>non-combustible</i> unless it is one of the following:
					(a) An ancillary element that is non-combustible.
					(b) A gutter, downpipe or other plumbing fixture or fitting.
					(c) A flashing.
					(d) A grate or grill not more than 2m ² in an area associated with a building service.
					(e) An electrical switch, socket outlet, cover plate or the like.
					(f) A light fitting.
					(g) A <i>required</i> sign.
					(h) A sign other than one provided under (a) or (g) that –
					(i) Achieves a group number 1 or 2; and
					(ii) Does not extend beyond one storey; and
					(iii) Does not extend beyond one fire compartment; and
					(iv) Is separated vertically from other signs permitted under(h) by at least 2 storeys.

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BCA DEEMED-TO-SATISFY PROVISION	COMPLIES	DOES NOT COMPLY	NA or Informational	Compliance Required	COMMENTS
					 (i) An awning, sunshade, canopy , blind or shading hood other than one provided under (a) that –
					 Meets the requirements of Table 4 of Specification C1.10 as an internal element; and
					(ii) Serves a storey -
					(A) At ground level; or
					(B) Immediately above a storey at ground level ; and
					(iii) Does not serve an exit, where it would render the exit unusable in a fire.
					(j) A part of a security, intercom or announcement system.
					(k) Wiring.
					(I) A paint, lacquer or similar finish,
					(m) A gasket, caulking, sealant or adhesive directly associated with (a) to (k).
					Details demonstrating compliance with this clause must be incorporated into the construction certificate plans / specification

Part C2 - Compartmentation & Separation									
C2.1 Application of Part			х		Informational. C2.2, C2.3 and C2.4 do not apply to a carpark provided with a sprinkler system (other than a FPAA101D or FPAA101H system complying with Specification E1.5, an open-deck carpark or an open spectator stand.				
C2.2 General Floor Area & Volume Limitations	х				The size of any fire compartment or atrium in a Class 6 building does not exceed the relevant maximum floor area and maximum volume set out in Table C2.2 & C2.5, except as permitted in C2.3.				
C2.3 Large Isolated Buildings			Х		Not applicable. Not a large isolated building.				
C2.4 Requirements for Open Space			Х		Not applicable. Not a large isolated building.				
C2.5 Class 9a & 9c Buildings			Х		Not applicable. Not Class 9a or 9c building.				
C2.6 Vertical Separation of openings in external walls	Х				Proposed building will be sprinkler protected in accordance with BCA Clause E1.5.				
C2.7 Separation by Fire Walls				Х	 (a) Construction – a fire wall must be constructed in accordance with the following: (i) The fire wall has the relevant FRL prescribed by Specification C1.1 for each of the adjoining parts, and if these are different, the greater FRL; except where Tables 3.9, 4.2 and 5.2 of Specification C1.1 permit a lower FRL on the carpark side. 				

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BCA DEEMED-TO-SATISFY PROVISION	COMPLIES	DOES NOT COMPLY	NA or Informational	Compliance Required			COMMENTS
						(ii)	Any openings in the fire wall must not reduce the FRL required by SpecificationC1.1 for the fire wall, except where permitted by the Deemed-to-Satisfy Provisions of Part C3.
						(iii)	Building elements, other than roof battens with dimensions of 75 mm x 50 mm or less or sarking-type material, must not pass through or cross the fire wall unless the required fire resisting performance of the fire wall is maintained.
					(b)	the i a se	aration of buildings – a part of a building separated from remainder of the building by a fire wall may be treated as parate building for the DTS provisions of Sections C, D & it is constructed in accordance with (a) and the following:
						(i)	The fire wall extends through all storeys and spaces in the nature of storeys that are common to that part and any adjoining part of the building.
						(ii)	The fire wall is carried through to the underside of the roof covering.
						(iii)	Where the roof of one of the adjoining parts is lower than the roof of the other part, the fire wall extends to the underside of $-$
							(A) The covering of the higher roof, or not less than 6m above the covering of the lower roof; or
							(B) The lower roof if it has an FRL not less than that of a fire wall and no openings closer than 3m to any wall above the lower roof; or
							(C) The lower roof if its covering is non combustible and the lower part has a sprinkler system (other than a FPAA101D or FPAA101H system complying with Specification E1.5.
					(c)	sepa may cons	aration of fire compartments – a part of a building arated from the remainder of the building by a fire wall be treated as a separate fire compartment if it is structed in accordance with (a) and the fire wall extends be underside of –
						(i)	A floor having an FRL required for a fire wall; or
						(ii)	The roof covering.
					The s	sepai	compliance ration of building will utilise a horizontal fire wall
							es not comply with C2.7(b). mmended this is addressed by a Fire Engineered
							nce Solution.





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BCA DEEMED-TO-SATISFY PROVISION	COMPLIES	DOES NOT COMPLY	NA or Informational	Compliance Required	COMMENTS
					Details demonstrating compliance with this clause must be incorporated into the construction certificate plans / specification
C2.10 Separation of lifts shafts				Х	(a) Any lift connecting more than 2 storeys, or more than 3 storeys where the building is sprinkler protected must be separated from the remainder of the building by enclosure in a shaft in which –
					 For Type A construction – the walls have the FRL prescribed by Specification C1.1; and
					(d) Openings for lift landing doors and services must be protected in accordance with the DTS provisions of Part C3.
					Details demonstrating compliance with this clause must be incorporated into the construction certificate plans / specification
C2.11 Stairways and lifts in one shaft	X				
C2.12 Separation of Equipment				X	 (a) Equipment other than that described in (b) and (c) must be separated from the remainder of the building with construction complying with (d), if that equipment comprises – (i) lift motors and lift control panels or (ii) Emergency generators used to sustain emergency equipment operating in the emergency mode; or (iii) Central smoke control plant; or (iv) Boilers; or

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BCA DEEMED-TO-SATISFY PROVISION	COMPLIES	DOES NOT COMPLY	NA or Informational	Compliance Required	COMMENTS
					 (v) A battery system installed in that building that has a total voltage of 12 volts or more and a storage capacity of 200kWh or more.
					(b) Equipment need not be separated in accordance with (a) if the equipment comprises-
					 Smoke control exhaust fans located in the air stream which are constructed for high temperature operation in accordance with Specification E2.2b; or
					(ii) Stair pressurizing equipment installed in compliance with AS 1668.1; or
					(iii) A lift installation without a machine room; or
					(iv) Equipment otherwise adequately separated from the remainder of the building.
					(c) Separation of onsite fire pumps must comply with the requirements of AS2419.1.
					(d) Separating construction must have –
					(i) Except as provided by (ii) –
					 (A) An FRL is required by Specification C1.1, but not less than 120/120/120; and
					 (B) Any doorway protected with a -/120/30 self-closing fire door; or
					 (ii) When separating a lift shaft and lift motor room, an FRL not less than 120/-/
					Details demonstrating compliance with this clause must be incorporated into the construction certificate plans / specification.
C2.13 Electrical Supply				Х	(a) An electricity sub-station must be separated from the building in accordance with the Energy Authority Requirements (i.e. Ausgrid).
					(b) A main switchboard located within the building (and which sustains emergency equipment operating in the emergency mode) must –
					 (i) be separated from any other part of the building by construction having an FRL of not less than 120/120/120; and
					 (ii) have any doorway in that construction protected with a self-closing fire door having an FRL of not less than – /120/30.
					(c) Electrical conductors located within the building that supply –
					 (i) a substation located within the building which supplies a main switchboard covered by (b); or
					(ii) a main switchboard covered by (b), must—
					(iii) have a classification in accordance with AS/NZS 3013- 2005 of not less than—

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BCA DEEMED-TO-SATISFY PROVISION	COMPLIES	DOES NOT COMPLY	NA or Informational	Compliance Required	COMMENTS
					 (A) if located in a position that could be subject to damage by motor vehicles — WS53W; or
					(B) otherwise — WS52W; or
					(iv) be enclosed or otherwise protected by construction having an FRL of not less than 120/120/120
					(d) where emergency equipment is required in a building, al switchboards in the electrical installation, which sustain the electricity supply to the emergency equipment, must be constructed so that emergency equipment switchgear is separated from non-emergency equipment switchgear by metal partitions designed to minimise the spread of a fault from the non-emergency equipment switchgear.
					 (e) For the purposes of (d), emergency equipment includes but is is not limited to –
					(i) Fire hydrant booster pumps
					 Pumps for automatic sprinkler systems, water spray chemical fluid suppression systems or the like.
					 (iii) Pumps for fire hose reels where such pumps and fire hose reels form the sole means of fire protection in the building.
					 (iv) Air handling systems designed to exhaust and contro the spread of fire and smoke.
					(v) Emergency lifts.
					(vi) Control and indicating equipment.
					(vii) Emergency warning and intercom systems (EWIS).
					Ground Floor – MSB/MDF room to be enclosed by construction having an FRL of not less than 120/120/120



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BCA DEEMED-TO-SATISFY PROVISION	COMPLIES	DOES NOT COMPLY	NA or Informational	Compliance Required	COMMENTS
					carpark, providing the connected floors comply as a single fire compartment for the purposes of all other requirements of the DTS provisions of Sections C, D & E.
					(b) For the purposes of DTS provisions of this Part, openings in building elements required to be fire resisting include doorways, windows (including any associated fanlight), infill panels and fixed or openable glazed areas that do not have the required FRL.
					(c) For the purposes of the DTS provisions of this part, openings other than those covered under (a)(iii), between building elements such as columns, beams and the like, in the plane formed at the construction edge of the perimeter of the building, are deemed to openings in the external wall.
C3.2 Protection of openings in			х		(a) Openings in an external wall that is required to have an FRL must be protected in accordance with C3.4:
external walls					 (i) if the distance between the opening and the fire-source feature is less than 3 m from a side or rear boundary; or
					 less than 6 m from the far boundary of a road, river, lake or the like adjoining the allotment, if not located in a storey at or near ground level; or
					(iii) less than 6 m from another building on the allotment that is not Class 10;
					If wall wetting sprinklers are to be used they are to be located externally.
					(b) if required to be protected under (a), not occupy more than 1/3 of the area of the external wall of the storey in which it is located.
					DTS non-compliance
					The following openings are located within 3m of the side boundary and not protected in accordance with C3.4.
					Details demonstrating compliance with this clause must be incorporated into the construction certificate plans / specification



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BCA DEEMED-TO-SATISFY PROVISION	Compliance Required NA or Informational DOES NOT COMPLY COMPLIES	COMMENTS
		The case
C3.3 Separation of external walls and associated openings in different fire compartments	wall appli	cable. No different fire compartments separated by a fire cable to this clause.
C3.4 Acceptable Methods of Protection		 here protection is required to doorways and windows and her openings they must be protected as follows: Doorways Internal or external wall wetting sprinklers as appropriate used with doors that are self-closing or automatic closing; or -/60/30 fire doors that are self-closing or automatic closing

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BCA DEEMED-TO-SATISFY PROVISION	COMPLIES	DOES NOT COMPLY	NA or Informational	Compliance Required	COMMENTS
					 -/60- fire windows that are automatic closing or permanently fixed in the closed position or
					 ↔ -/60- automatic closing fire shutters.
					(iii) Other openings –
					Excluding voids – internal or external wall wetting sprinklers as appropriate or
					 Construction having a FRL not less than -/60/
					(b) Fire doors, fire windows and fire shutters must comply with Specification C3.4.
					Details demonstrating compliance with this clause must be incorporated into the construction certificate plans / specification
C3.5 Doorways in Fire Walls				X	(a) The aggregate width of openings for doorways in a fire wall, which are not part of a horizontal exit, must not exceed ½ the length of the fire wall, and each doorway must be protected by –
					(i) 2 fire doors or fire shutters, one on each
					 side of the doorway, each of which has an FRL not less than ½ that required by Specification C1.1 for the fire wall except that each door or shutter must have an insulation level of at least 30; or
					 (iii) A fire door on one side and a fire shutter on the other side of the doorway, each of which complies with (i); or
					(iv) A single fire door or fire shutter which has an FRL of not less than that required by Specification C1.1 for the fire wall except that each door or shutter must have an insulation level of at least 30.
					(b) A fire door or fire shutter required by (a)(i), (ii) or (iii) must be self-closing, or automatic closing in accordance with (c) & (d).
					(c) The automatic closing operation required by (b) must be initiated by the activation of a smoke detector, or any other detector deemed suitable in accordance with AS1670.1 if smoke detectors are unsuitable in the atmosphere, installed in accordance with AS1670.1 and located on each side of the fire wall not more than 1.5m horizontal distance from the opening.
					(d) Where any other required suitable fire alarm system, including a sprinkler system (other than a FPAA101D) complying with Specification E1.5, is installed in the building, activation of the system in either fire compartment separated by the fire wall must also initiate the automatic closing operation.
					Details demonstrating compliance with this clause must be incorporated into the construction certificate plans / specification
C3.6			Х		Not applicable. No sliding fire doors proposed or required.

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BCA DEEMED-TO-SATISFY PROVISION	COMPLIES	DOES NOT COMPLY	NA or Informational	Compliance Required	COMMENTS
Sliding Fire Doors					
C3.7 Protection of Doorways in horizontal exits			Х		Not applicable. No horizontal exits proposed or required.
C3.8 Openings in fire isolated exits			Х		Not applicable. No fire-isolated exits proposed.
C3.9 Service Penetrations in fire-isolated exits			Х		Not applicable. No fire-isolated exits proposed.
C3.10 Openings in Fire isolated lift shafts			Х		Not applicable. No fire-isolated exits proposed.
C3.11 Bounding Construction:				Х	(a) A doorway in a Class 2 or 3 building must be protected if it provides access from a sole-occupancy unit to—
Class 2, 3 buildings and					(i) a public corridor, public lobby, or the like; or
Class 4 Parts.					(ii) a room not within a sole-occupancy unit; or
					(iii) the landing of an internal non fire-isolated stairway that serves as a required exit; or
					(iv) another sole-occupancy unit.
					(b) A doorway in a Class 2 or 3 building must be protected if it provides access from a room not within a sole-occupancy unit to—
					(i) a public corridor, public lobby, or the like; or
					(ii) the landing of an internal non fire-isolated stairway that serves as a required exit.
					(d) Protection for a doorway required under (a), (b) or (c) must be at least—
					 (i) in a building of Type A construction — a self-closing – /60/30 fire door; and
					 (ii) in a building of Type B or C construction — a self-closing, tight fitting, solid core door not less than 35 mm thick, except—
					 (iii) in a Class 3 building used as a residential care building protected with a sprinkler system complying with Specification E1.5, a tight fitting solid core door not less than 35 mm thick that is—
					(A) self-closing; or
					(B) fitted with a free-arm action closing device which closes the door or causes the door to remain closed (without preventing manual re-opening), upon the detection of smoke by a detector located within the room.





BCA DEEMED-TO-SATISFY PROVISION	COMPLIES	DOES NOT COMPLY	NA or Informational	Compliance Required		COMMENTS
					(e)	Other openings in internal walls which are required to have an FRL with respect to integrity and insulation must not reduce the fire-resisting performance of the wall.
					(f)	A door required by (d) may be automatic-closing in accordance with the following:
						(i) The automatic-closing operation must be initiated by the activation of a smoke detector, or any other detector deemed suitable in accordance with AS 1670.1 if smoke detectors are unsuitable in the atmosphere, installed in accordance with the relevant provisions of AS 1670.1 and located not more than 1.5 m horizontal distance from the approach side of the doorway.
						(ii) Where any other required suitable fire alarm system, including a sprinkler system (other than a FPAA101D system) complying with Specification E1.5, is installed in the building, activation of the system must also initiate the automatic-closing operation.
					(g)	In a Class 2 or 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—
						(i) another sole-occupancy unit; or
						(ii) a room not within a sole-occupancy unit, then that external wall must—
						(iii) be constructed of concrete or masonry, or be lined internally with a fire-protective covering; and
						 (iv) have any doorway fitted with a self-closing, tight-fitting solid core door not less than 35 mm thick; and
						(v) have any windows or other openings
						(A) protected internally in accordance with C3.4; or
						 (B) located at least 1.5 m above the floor of the balcony, landing or the like.
					incor	ils demonstrating compliance with this clause must be porated into the construction certificate plans / ification
C3.12 Openings in floors and ceilings for services				X	FRL enclo	e services pass through a floor which is required to achieve a or a ceiling required to have a RISF, the service must be sed within a fire resisting shaft or fire protected in accordance Clause C3.15.
					incor	ils demonstrating compliance with this clause must be porated into the construction certificate plans / ification
C3.13 Openings in Shafts				Х	acces	building of Type A construction, an opening in a wall providing as to a ventilating, pipe, garbage or other service shaft must be rotected in accordance with this clause.

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BCA DEEMED-TO-SATISFY PROVISION	COMPLIES	DOES NOT COMPLY	NA or Informational	Compliance Required	COMMENTS
					Details demonstrating compliance with this clause must be incorporated into the construction certificate plans / specification
C3.15 Openings for Service Installations				Х	Where services pass through an element which is required to achieve a FRL (other than an external wall or roof), the service must be fire stopped by a tested system or Specification C3.15.
					Details demonstrating compliance with this clause must be incorporated into the construction certificate plans / specification
C3.16 Construction Joints				x	Construction joints, spaces and the like in and between building elements required to be fire-resisting with respect to integrity and insulation must be protected in a manner identical with a prototype tested in accordance with AS 1530.4 to achieve the required FRL.
					The requirements above do not apply where joints, spaces and the like between fire protected timber elements are provided with cavity barriers in accordance with Specification C1.13.
					Details demonstrating compliance with this clause must be incorporated into the construction certificate plans / specification
C3.17 Columns protected in lightweight construction to achieve an FRL			X		Any column protected by lightweight construction to achieve an FRL which passes through a building element that is required to have an FRL or a resistance to the incipient spread of fire, must be installed using a method and materials identical with a prototype assembly of construction which has achieved the required FRL or resistance to the incipient spread of fire.
					Details demonstrating compliance with this clause must be incorporated into the construction certificate plans / specification

SECTION D ACCESS & EGRESS

Part D1 - Provision for Escape The DTS provisions of this Part do not apply to the internal parts of D1.1 Х a sole occupancy unit in a Class 2 or 3 building or Class 4 part of a Application of Part building. All buildings — Every building must have at least one exit (a) D1.2 Х from each storey. Number of Exits required (g) Access to exits - Without passing through another soleoccupancy unit every occupant of a storey or part of a storey must have access to-(i) an exit; or (ii) at least 2 exits, if 2 or more exits are required. Details demonstrating compliance with this clause must be incorporated into the construction certificate plans / specification (a) **Class 2 and 3 buildings** — Every stairway or ramp serving D1.3 Х as a required exit must be fire-isolated unless it connects, passes through or passes by not more than-

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BCA DEEMED-TO-SATISFY PROVISION	COMPLIES	DOES NOT COMPLY	NA or Informational	Compliance Required	COMMENTS
When Fire Isolated exits					(i) 3 consecutive storeys in a Class 2 building;
are required					(ii) or 2 consecutive storeys in a Class 3 building,
					and one extra storey of any classification may be included if—
					(iii) it is only for the accommodation of motor vehicles or for other ancillary purposes; or
					 (iv) the building has a sprinkler system (other than a FPAA101D system) complying with Specification E1.5 installed throughout; or
					 (v) the required exit does not provide access to or egress for, and is separated from, the extra storey by construction having—
					(A) an FRL of –/60/60, if non-loadbearing; &
					(B) an FRL of 90/90/90, if loadbearing; &
					 (C) no opening that could permit the passage of fire or smoke.
					DTS non-compliance
					The internal stairway serving the residential levels connects more than 3 consecutive storey and is not designed to be fire- isolated. <i>This will be addressed by a Fire Engineered Performance</i> <i>Solution at CC stage.</i>
D1.4	х				(a) Class 2 and 3 buildings—
Exit Travel Distances					(i) The entrance doorway of any sole-occupancy unit must be not more than—
					 (A) 6 m from an exit or from a point from which travel in different directions to 2 exits is available; or
					Note – except in a residential care building, the maximum distance of travel, may be increased from 6m to 12m under Specification E1.5a (AS 2118.1, AS 2118.4, FPAA101D or FPAA101H sprinkler system) in buildings with an effective height of not more than 25m with rise in storeys of 4 or more.
					 (B) 20 m from a single exit serving the storey at the level of egress to a road or open space; and
					Note – the maximum distance of travel from a single exit serving the storey at the level of egress to the road or open space may be increased from 20m to 30m under Specification E1.5a (AS2118.1, AS2118.4, FPAA101D or FPAA101H sprinkler system) in buildings with an effective height of not more than 25m with rise in storeys of 4 or more.
					 (ii) 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.
					(c) Class 5, 6, 7, 8 or 9 buildings — Subject to (d), (e) and (f)—
					 (i) no point on a floor must be more than 20 m from an exit, or a point from which travel in different directions to 2 exits is available, in which case the maximum distance to one of those exits must not exceed 40 m; and

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BCA DEEMED-TO-SATISFY PROVISION	COMPLIES	DOES NOT COMPLY	NA or Informational	Compliance Required	COMMENTS
					 (ii) in a Class 5 or 6 building, the distance to a single exit serving a storey at the level of access to a road or open space may be increased to 30 m. NB. First, Second & Third Floor – Where an AS 2118.1-2017 sprinkler system is proposed in accordance with E1.5, the travel distance to 12m is DTS compliant.
					A1.01A1.02UINSB11.01
D1.5 Distance Between Alternative Exits	X				 Exits that are required as alternative means of egress must be— (a) distributed as uniformly as practicable within or around the storey served and in positions where unobstructed access to at least 2 exits is readily available from all points on the floor including lift lobby areas; and (b) not less than 9 m apart; and (c) not more than— (i) in a Class 2 or 3 building — 45 m apart; or (iii) in all other cases — 60 m apart; and (d) located so that alternative paths of travel do not converge such that they become less than 6 m apart.
D1.6 Dimensions of Exits and paths of Travel to Exits		X			 In a required exit or path of travel to an exit— (a) the unobstructed height throughout must be not less than 2 m, except the unobstructed height of any doorway may be reduced to not less than 1980 mm; and

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BCA DEEMED-TO-SATISFY PROVISION	COMPLIES	DOES NOT COMPLY	NA or Informational	Compliance Required	COMMENTS
					(b) the unobstructed width of each exit or path of travel to an exit, except for doorways, must be not less than—
					(i) 1 m; or
					(iii) the unobstructed width of each exit provided to comply with (b), (c), (d) or (e), minus 250 mm; or
					 (v) in any other case except where it opens to a sanitary compartment or bathroom — 750 mm wide; and
					(g) the unobstructed width of a required exit must not diminish in the direction of travel to a road or open space, except where the width is increased in accordance with (b)(ii) or (f)(i); and
					(h) the required width of a stairway or ramp must—
					 be measured clear of all obstructions such as handrails, projecting parts of balustrades or other barriers and the like; and
					 extend without interruption, except for ceiling cornices, to a height not less than 2 m vertically above a line along the nosings of the treads or the floor surface of the ramp or landing.
					 to determine the aggregate unobstructed width, the number of persons accommodated must be calculated according to D1.13; and
					DTS non-compliance
					Ground – There are two points where the path of travel width is less than 1000mm in width, being 980 & 930mm.

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BCA DEEMED-TO-SATISFY PROVISION	COMPLIES	DOES NOT COMPLY	NA or Informational	Compliance Required		COMMENTS
					(b)	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—
						(i) to a road or open space; or
						(ii) to a point—
						 (A) 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
						(B) from which an unimpeded path of travel, not further than 20 m, is available to a road or open space; or
						(iii) into a covered area that—
						(A) adjoins a road or open space;
						(B) and is open for at least 1/3 of its perimeter; and
						 (C) has an unobstructed clear height throughout, including the perimeter openings, of not less than 3 m; and
						(D) provides an unimpeded path of travel from the point of discharge to the road or open space of not more than 6 m.
					(c)	Where a path of travel from the point of discharge of a fire- isolated exit necessitates passing within 6 m of any part of an external wall of the same building, measured horizontally at right angles to the path of travel, that part of the wall must have—
						(i) an FRL of not less than 60/60/60; and
						(ii) any openings protected internally in accordance with C3.4,
						for a distance of 3 m above or below, as appropriate, the level of the path of travel, or for the height of the wall, whichever is the lesser.
					(d)	If more than 2 access doorways, not from a sanitary compartment or the like, open to a required fire-isolated exit in the same storey—
						(i) a smoke lobby in accordance with D2.6 must be provided; or
						(ii) the exit must be pressurised in accordance with AS/NZS 1668.1.
					(e)	A ramp must be provided at any change in level less than 600 mm in a fire-isolated passageway in a Class 9 building.
						pplicable. Although a fire-isolated stairway is required by a non-fire-isolated stairway is provided.
D1.8			Х			oplicable. No external stairways or ramps in lieu of fire isolated is proposed or required.

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BCA DEEMED-TO-SATISFY PROVISION	COMPLIES	DOES NOT COMPLY	NA or Informational	Compliance Required	COMMENTS
					ARKET LANEImage: construction of the construction of
D1.10 Discharge from Exits				х	(a) An exit must not be blocked at the point of discharge and where necessary, suitable barriers must be provided to prevent vehicles from blocking the exit, or access to it.
					(b) If a required exit leads to an open space, the path of travel to the road must have an unobstructed width throughout of not less than—
					(i) the minimum width of the required exit;
					(ii) or 1 m, whichever is the greater.
					 (c) If an exit discharges to open space that is at a different level than the public road to which it is connected, the path of travel to the road must be by—
					 a ramp or other incline having a gradient not steeper than 1:8 at any part, or not steeper than 1:14 if required by the Deemed-to-Satisfy Provisions of Part D3; or
					(d) The discharge point of alternative exits must be located as far apart as practical.
					(g) The number of persons accommodated must be calculated according to D1.13.

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BCA DEEMED-TO-SATISFY PROVISION	COMPLIES	DOES NOT COMPLY	NA or Informational	Compliance Required		COMMENTS
					(a)	In the case of a room that is not a sole occupancy unit in a Class 2 or 3 building or Class 4 part of a building, the distance includes the straight-line measurement from any point of the floor of the room to the nearest part of the doorway leading from it, together with the distance from the part of the doorway to the single required exit or point from which travel in different directions to 2 required exits is available.
					(b)	Subject to (d), the distance from the doorway of a sole occupancy unit in a Class 2 or 3 building is measured in a straight line to the nearest part of the required single exit or point from which travel in different directions to 2 required exits is available.
					(c)	Subject to (d), the distance between exits is measured in a straight line between the nearest parts of those exits.
					(d)	Only the shortest distance is taken along a corridor, hallway, external balcony or other path of travel that curves or changes direction.
					(e)	If more than one corridor, hallway, or other internal path of travel connects required exits, for the purposes of D1.5(c) the measurement is along the path of travel through the point at which travel in different directions to those exits is available, as determined in accordance with D1.4.
					(f)	If a wall (including a demountable internal wall) that does not bound –
						(i) A room; or
						(ii) A corridor, hallway or the like, causes a change in direction in proceeding to a required exit, the distance is measured along the path of travel past the wall.
						 (iii) If permanent fixed seating is provided, the distance is measured along the path of travel between the rows of seats.
						(iv) In the case of a non-fire isolated stairway or non-fire isolated ramp, the distance is measured along a line connecting the nosings of the treads, along the slope of the ramp, together with the distance connecting those lines across any intermediate landing.
D1.16			Х		(a)	A ladder may be used in lieu of a stairway to provide egress from—
Plant Rooms and lift Motor Rooms: Concession						 (i) a plant room with a floor area of not more than 100 m²; or
						 (ii) all but one point of egress from a plant room, a lift machine room or a Class 8 electricity network substation with a floor area of not more than 200 m².
					(b)	A ladder permitted under (a)—
						(i) may form part of an exit provided that in the case of a fire-isolated stairway it is contained within the shaft; or
						(ii) may discharge within a storey in which case it must be considered as forming part of the path of travel; and

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BCA DEEMED-TO-SATISFY PROVISION	COMPLIES	DOES NOT COMPLY	NA or Informational	Compliance Required	COMMENTS
					(iv) for a lift machine room, where access is provided from within a machine room to a secondary floor, a fixed rung type ladder complying with AS 1657 may be used, provided that—
					 (A) the height between the floors is not more than 2800 mm; and
					 (B) the ladder is inclined at an angle to the horizontal not less than 65 degrees nor more than 75 degrees; and
					(C) the distance between the front face of the ladder and any adjacent obstruction is not less than—
					(aa) 960 mm, where the ladder is inclined 65 degrees to the horizontal; or
					(bb) 760 mm, where the ladder is inclined 75 degrees to the horizontal; or
					(cc) a distance that is determined by interpolating the values in (aa) and (bb), where the ladder is inclined at any angle between 65 degrees and 75 degrees to the horizontal; and
					 (D) a clear space not less than 600 mm exists between the foot of the ladder and any equipment.
					Details demonstrating compliance with this clause must be incorporated into the construction certificate plans / specification
D1.17				Х	Access to lift pits must—
Access to lift pits					 (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).
					 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:





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BCA DEEMED-TO-SATISFY PROVISION	COMPLIES	DOES NOT COMPLY	NA or Informational	Compliance Required	COMMENTS
					 (c) Gas or other fuel services must not be installed in a required exit
					(d) Services or equipment comprising –
					(i) Electricity meters, distribution boards or cuts; or
					 (ii) Central telecommunications distribution boards or equipment; or
					 (iii) Electrical motors or other motors service equipment in the building,
					May be installed in –
					 A required exit, except for fire-isolated exits specified in (a); or
					 (ii) In any corridor, hallway, lobby or the like leading to a required exit,
					If the services or equipment are enclosed by non-combustible construction or a fire-protective covering with doorways of openings suitably sealed against smoke spreading from the enclosure
					 (e) Electrical wiring may be installed in a fire-isolated exit if the wiring is associated with;
					 A lighting, detection, or pressurization system serving the exit; or
					 (ii) A security, surveillance or management system serving the exit; or
					 (iii) An intercommunication system or an audible or visual alarm system in accordance with D2.22; or
					(iv) The monitoring of hydrant or sprinkler isolating valves.
					Details demonstrating compliance with this clause must b incorporated into the construction certificate plans specification
D2.8 Enclosure of Space Under Stairs and ramps			Х		Not applicable. No space underneath the stairway forms a cupboard.
D2.9 Width of Stairs			Х		Not applicable. No stairway is required to be greater than 2m in width.
D2.10 Pedestrian Ramps				Х	(a) A fire isolated ramp may be substituted for a fire isolated stairway if the construction enclosing the ramp and the width and ceiling height comply with the requirements for a fire isolated stairway.
					(b) A ramp serving as a required exit must –
					 Where the ramp is also serving as an accessible ram under Part D3, be in accordance with AS1428.1; or
					(ii) In any other case, have a gradient not steeper than 1:8
					(c) The floor surface of a ramp must have a slip-resistanc classification not less than that listed in Table D2.14 when tested in accordance with AS4586.

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BCA DEEMED-TO-SATISFY PROVISION	COMPLIES	DOES NOT COMPLY	NA or Informational	Compliance Required	COMMENTS
					Details demonstrating compliance with this clause must be incorporated into the construction certificate plans / specification
D2.11 Fire-Isolated Passageways			X		Not applicable. No fire-isolated passageways proposed or required.
D2.12 Roof as Open Space			Х		Not applicable. No exit discharges to the roof of a building the roof
D2.13				Х	(a) A stairway must have—
Goings & Risers					 not more than 18 and not less than 2 risers in each flight; and
					(ii) going (G), riser (R) and quantity (2R + G) in accordance with Table D2.13, except as permitted by (b) and (c); and
					 (iii) constant goings and risers throughout each flight, except as permitted by (b) and (c), and the dimensions of goings (G) and risers (R) in accordance with (a)(ii) are considered constant if the variation between—
					 (A) adjacent risers, or between adjacent goings, is no greater than 5 mm; and
					(B) the largest and smallest riser within a flight, or the largest and smallest going within a flight, does not exceed 10 mm; and
					 (iv) risers which do not have any openings that would allow a 125 mm sphere to pass through between the treads; and
					(v) treads which have—
					 (A) a surface with a slip-resistance classification not less than that listed in Table D2.14 when tested in accordance with AS 4586; or
					 (B) a nosing strip with a slip-resistance classification not less than that listed in Table D2.14 when tested in accordance with AS 4586; and
					 (vi) treads of solid construction (not mesh or other perforated material) if the stairway is more than 10 m high or connects more than 3 storeys; and
					(viii) in the case of a required stairway, no winders in lieu of a landing.
					(b) In the case of a non-required stairway—
					(i) the stairway must have—
					 (A) not more than 3 winders in lieu of a quarter landing; and
					(B) not more than 6 winders in lieu of a half landing; and
					 (ii) the going of all straight treads must be constant throughout the same flight and the dimensions of goings (G) is considered constant if the variation between—

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BCA DEEMED-TO-SATISFY PROVISION	COMPLIES	DOES NOT COMPLY	NA or Informational	Compliance Required	COMMENTS
					(A) adjacent goings, is no greater than 5 mm; and
					 (B) the largest and smallest going within a flight, does not exceed 10 mm; and
					(iii) the going of all winders in lieu of a quarter or half landing may vary from the going of the straight treads within the same flight provided that the going of all such winders is constant.
					(c) Where a stairway discharges to a sloping public walkway or public road—
					 the riser (R) may be reduced to account for the slope of the walkway or road; and
					(ii) the quantity (2R+G) may vary at that location.
					Details demonstrating compliance with this clause must be incorporated into the construction certificate plans / specification
D2.14				Х	In a stairway
Landings	Landings				(a) Landings having a maximum gradient of 1:50 may be used in any building to limit the number of risers in each flight and each landing must –
					 Be not less than 750 mm long, and where this involves a change in direction, the length is measured 500 mm from the inside edge of the landing; and
					(ii) Have –
					 (A) A surface with a slip-resistance classification not less than that listed in Table D2.14 when tested in accordance with AS4586; or
					(B) A strip at the edge of the landing with a slip- resistance classification not less than that listed in Table D2.14 when tested in accordance with AS4586, where the edge leads to a flight below; and
					Details demonstrating compliance with this clause must be incorporated into the construction certificate plans / specification
D2.15 Thresholds				Х	The threshold of a doorway must not incorporate a step or ramp at any point closer to the doorway than the width of the door leaf unless—
					(c) in a building required to be accessible by Part D3, the doorway—
					(i) opens to a road or open space; and
					(ii) is provided with a threshold ramp or step ramp in accordance with AS 1428.1; or
					(e) in other cases—
					 the doorway opens to a road or open space, external stair landing or external balcony; and

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BCA DEEMED-TO-SATISFY PROVISION	COMPLIES	DOES NOT COMPLY	NA or Informational	Compliance Required	COMMENTS
					 the door sill is not more than 190 mm above the finished surface of the ground, balcony, or the like, to which the doorway opens.
					Details demonstrating compliance with this clause must be incorporated into the construction certificate plans / specification
D2.16				Х	(a) A continuous barrier must be provided along the side of—
Balustrades and other					(i) a roof to which general access is provided; and
Barriers Note NSW D2.16					(ii) a stairway or ramp; and
Note NSW D2.10					(iii) a floor, corridor, hallway, balcony, deck, verandah, mezzanine, access bridge or the like; and
					 (iv) any delineated path of access to a building, if the trafficable surface is 1 m or more above the surface beneath.
					(b) The requirements of (a) do not apply to—
					 (iii) a retaining wall unless the retaining wall forms part of, or is directly associated with a delineated path of access to a building from the road, or a delineated path of access between buildings; or
					(iv) a barrier provided to an openable window covered by D2.24.
					(c) A barrier required by (a) must be constructed in accordance with NSW Table D2.16a 1.
					Details demonstrating compliance with this clause must be incorporated into the construction certificate plans / specification
D2.17 Handrails				X	(a) Except for handrails referred to in D2.18, handrails must be—
					(i) located along at least one side of the ramp or flight; and
					(iii) located along each side if the total width of the stairway or ramp is 2 m or more; and
					 (iv) in any other case, fixed at a height of not less than 865 mm measured above the nosings of stair treads and the floor surface of the ramp, landing, or the like; and
					 (v) continuous between stair flight landings and have no obstruction on or above them that will tend to break a hand-hold; and
					(vi) in a required exit serving an area required to be accessible, designed and constructed to comply with clause 12 of AS 1428.1, except that clause 12(d) does not apply to a handrail required by (a)(iii)(B).
					(c) Handrails required to assist people with a disability must be provided in accordance with D3.3.
					(d) Handrails to a stairway or ramp within a sole-occupancy unit in a Class 2 or 3 building or Class 4 part of a building must—

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BCA DEEMED-TO-SATISFY PROVISION	COMPLIES	DOES NOT COMPLY	NA or Informational	Compliance Required	COMMENTS
					 (i) be located along at least one side of the flight or ramp; and
					 (ii) be located along the full length of the flight or ramp, except in the case where a handrail is associated with a barrier, the handrail may terminate where the barrier terminates; and
					 (iii) have the top surface of the handrail not less than 865 mm vertically above the nosings of the stair treads or the floor surface of the ramp; and
					(iv) have no obstruction on or above them that will tend to break a handhold, except for newel posts, ball type stanchions, or the like.
					(e) The requirements of (d) do not apply to—
					(i) handrails referred to in D2.18; or
					 (ii) a stairway or ramp providing a change in elevation of less than 1 m; or
					(iii) a landing; or
					(iv) a winder where a newel post is installed to provide a handhold.
					Details demonstrating compliance with this clause must be incorporated into the construction certificate plans / specification.
D2.18 Fixed Platforms, walkways and ladders				Х	A fixed platform, walkway, stairway, ladder and any going and riser, landing, handrail or barrier attached thereto may comply with AS1657 in lieu of D2.13, D2.14 D2.16 and D2.17 if it only serves:
					 (a) Machinery rooms, boiler houses, lift machine rooms, plant- rooms and the like; or
					(b) Non-habitable rooms, such as attics, storerooms and the like that are not used on a frequent or daily basis in the internal parts of a sole occupancy unit in a Class 2 building or Class 4 part of the building.
					Details demonstrating compliance with this clause must be incorporated into the construction certificate plans / specification.
D2.19 Doorways & Doors				Х	(b) A doorway serving as a require exit or forming part of a required exit-
					(i) Must not be fitted with a revolving door; and
					(ii) Must not be fitted with a roller shutter or tilt-up door unless –
					 (A) It serves a Class 6, 7 or 8 building or part with a floor area not more than 200m²; and
					 (B) The doorway is the only required exit from the building or part; and
					(C) It is held in the open position while the building or part is lawfully occupied; and

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BCA DEEMED-TO-SATISFY PROVISION	COMPLIES	DOES NOT COMPLY	NA or Informational	Compliance Required	COMMENTS
					(iii) Must not be fitted with a sliding door unless –
					(A) It leads directly to a road or open space; and
					(B) The door is able to be opened manually under a force of not more than 110 N; and
					(iv) If fitted with a door which is power-operated –
					 (A) It must be able to be opened manually under a force of not more than 110 N if there is a malfunction or failure of the power source; and
					(B) If it leads directly to a road or open space it must open automatically if there is a power failure to the door or on the activation of a fire or smoke alarm anywhere in the fire compartment served by the door.
					(c) A power-operated door in a path of travel to a required exit, must be able to open manually under a force of not more than 110 N if there is a malfunction or failure of the power source.
					AED note – the roller shutter doorway is not a <i>required</i> exit.
					Image: set of the set of
D2.20 Swinging Doors				X	A swinging door in a required exit or forming part of a required exit -
					(a) Must not encroach –

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BCA DEEMED-TO-SATISFY PROVISION	COMPLIES	DOES NOT COMPLY	NA or Informational	Compliance Required	COMMENTS
					 (i) At any part of its swing by more than 500mm of the require width (including any landings) of a required –
					(A) Stairway; or
					(B) Ramp; or
					(C) Passageway,
					If it is likely to impede the path of travel of the people already using the exit; and
					(ii) When fully open, by more than 100 mm on the required width of the required exit, and
					The measurement of encroachment in each case is to include door handles or other furniture or attachments to the door; and
					(b) Must swing in the direction of egress unless
					 (i) It serves a building part with a floor area not more than 200m², it is the only required exit from the building part and it is fitted with a device for holding it in the open position; or
					(ii) It serves a sanitary compartment or airlock (in which case it may swing in either direction; and
					(c) Must not otherwise impede the path or direction of egress.
					Details demonstrating compliance with this clause must be incorporated into the construction certificate plans / specification.
D2.21 Operation of Latch				X	 (a) A door in a required exit, forming part of a required exit or in the path of travel to a required exit must be readily openable without a key from the side that faces a person seeking egress by –
					 (i) A single hand downward action or pushing action on a single device which is located between 900mm and 1.1 m from the floor and if serving an area required to be accessible by Part D3 –
					 (A) be such that the hand of a person who cannot grip will not slip from the handle during the operation of the latch; and
					(B) have a clearance between the handle and the back plate or door face at the center grip section of the handle of not less than 35mm and not more than 45mm; or
					 (ii) a single hand pushing action on a single device which is located between 900mm and 1.2m from the door; and
					(iii) where the latch operation device referred to in (ii) is not located on the door leaf itself –
					 (A) manual controls to power operated doors must be at least 25mm wide, proud of the surrounding surface and located –

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BCA DEEMED-TO-SATISFY PROVISION	COMPLIES	DOES NOT COMPLY	NA or Informational	Compliance Required	COMMENTS
					(aa) not less than 500mm from an internal corner; and
					(bb) for a hinged door, between 1m and 2m from the door leaf in any position; and
					(cc) for a sliding door, within 2m of the doorway and clear of a surface mounted door in the open position.
					(B) Braille and tactile signage complying with Clause 3 and 6 of Specification D3.6 must identify the latch operation device.
					(b) The requirements of (a) do not apply to a door that –
					 Serves a vault, strong-room, sanitary compartment, or the like; or
					(ii) Serves only, or is within –
					 (A) A sole occupancy unit in a Class 2 or 4 building or part; or
					(C) A sole occupancy unit with a floor area not more than 200m ² in a Class 5, 6, 7 or 8 building; or
					 (D) A space which is otherwise inaccessible to persons at all times when the door is locked; or
					(iii) Serves –
					(C) By operating a fail-safe control switch, not contained within the protective enclosure, to actuate a device to unlock the door; or
					(D) By hand by a person or persons, specifically nominated by the owner, properly instructed as to the duties and responsibilities involved and available at all times when the building is lawfully occupied so that persons in the building or part may immediately escape if there is a fire; or
					(iv) Is fitted with a fail-safe device which automatically unlocks the door upon the activation of any sprinkler system (other than a FPAA101D system) complying with Specification E1.5, or smoke, or any other detector system deemed suitable in accordance with AS1670.1 installed throughout the building, and is readily operable when unlocked; or
					Details demonstrating compliance with this clause must be incorporated into the construction certificate plans / specification
D2.22 Re-entry from Fire isolated exits			Х		Not applicable. Not a fire-isolated exit or effective height greater than 25m.
D2.23 Signs on Doors				Х	 (a) A sign, to alert persons that the operation of certain doors must not be impaired, must be installed where it can readily be seen on, or adjacent to—

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BCA DEEMED-TO-SATISFY PROVISION	COMPLIES	DOES NOT COMPLY	NA or Informational	Compliance Required	COMMENTS
					(i) a required—
					 (A) fire door providing direct access to a fire-isolated exit, except a door providing direct egress from a sole-occupancy unit in a Class 2 or 3 building or Class 4 part of a building; and
					(B) smoke door,
					on the side of the door that faces a person seeking egress and, if the door is fitted with a device for holding it in the open position, on either the wall adjacent to the doorway or both sides of the door; and
					(ii) a—
					(A) fire door forming part of a horizontal exit; and
					(B) smoke door that swings in both directions; and
					(C) door leading from a fire isolated exit to a road or open space, on each side of the door.
					 (b) A sign referred to in (a) must be in capital letters not less than 20 mm high in a colour contrasting with the background and state—
					 (i) for an automatic door held open by an automatic hold- open device—
					"FIRE SAFETY DOOR-DO NOT OBSTRUCT"; or
					(ii) for a self-closing door—
					"FIRE SAFETY DOOR DO NOT OBSTRUCT DO NOT KEEP OPEN"; or
					(iii) for a door discharging from a fire-isolated exit—
					"FIRE SAFETY DOOR-DO NOT OBSTRUCT".
					Details demonstrating compliance with this clause must be incorporated into the construction certificate plans / specification
D2.24 Protection of openable windows				х	 (a) A window opening must be provided with protection, if the floor below the window is 2 m or more above the surface beneath in—
					 (i) a bedroom in a Class 2 or 3 building or Class 4 part of a building;
					(b) Where the lowest level of the window opening is less than 1.7 m above the floor, a window opening covered by (a) must comply with the following:
					(i) The openable portion of the window must be protected with—
					 (A) a device capable of restricting the window opening; or
					(B) a screen with secure fittings.
					(ii) A device or screen required by (i) must—

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BCA DEEMED-TO-SATISFY PROVISION	COMPLIES	DOES NOT COMPLY	NA or Informational	Compliance Required	COMMENTS
					 (A) not permit a 125 mm sphere to pass through the window opening or screen; and
					 (B) resist an outward horizontal action of 250 N against the—
					(aa) window restrained by a device; or
					(bb) screen protecting the opening; and
					(C) have a child resistant release mechanism if the screen or device is able to be removed, unlocked or overridden.
					(c) A barrier with a height not less than 865 mm above the floor is required to an openable window—
					 (i) in addition to window protection, when a child resistant release mechanism is required by (b)(ii)(C); and
					(ii) where the floor below the window is 4 m or more above the surface beneath if the window is not covered by (a).
					(d) A barrier covered by (c) except for (e) must not—
					(i) permit a 125 mm sphere to pass through it; and
					 (ii) have any horizontal or near horizontal elements between 150 mm and 760 mm above the floor that facilitate climbing.
					(e) A barrier required by (c) to an openable window in—
					 (i) fire-isolated stairways, fire-isolated ramps and other areas used primarily for emergency purposes, excluding external stairways and external ramps; and
					(ii) Class 7 (other than carparks) and Class 8 buildings and parts of buildings containing those classes,
					must not permit a 300 mm sphere to pass through it.
					Details demonstrating compliance with this clause must be incorporated into the construction certificate plans / specification
D2.25 Timber stairways concession			Х		Not applicable. No timber stairways proposed.
Part D3 - Access for Peop	le wi	ith Di	sabil	ities	
D3.1		Х			Class 2
General building access					Common areas
requirements					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.
					To and within not less than 1 of each type of room or space for use in common by the residents.
					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

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BCA DEEMED-TO-SATISFY PROVISION	COMPLIES	DOES NOT COMPLY	NA or Informational	Compliance Required	COMMENTS
	LIES	NOT	or xtional	iance ired	(b) to and within rooms or spaces for use in common by the residents, located on the levels served by the lift or ramp. Class 6 To and within all areas normally used by the occupants. Class 7b To and within all areas normally used by the occupants. All doors that are required for disabled access are to be a minimum of 850mm clear width. This also includes doors into fire stairs. DTS non-compliance The following doorways do not have sufficient circulation space at the doorways in accordance with Clause 13.3 of AS 1428.1-2009. It is recommended that this is addressed by Performance Solution at CC stage. Immension Dimension Immension Dimension<
					350 1450 0 510 950 1450 110 530 950 1450 0 510 1000 1450 110 530 1000 1450 0 510 1000 1450 110 530 1000 1450 0 510 1000 1450 110 530 (d) Front approach, door opens away from user (h) Front approach, door opens towards user (h) Front approach, door opens towards user



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BCA DEEMED-TO-SATISFY PROVISION	DOES NOT COMPLY COMPLIES	NA or Informational	Compliance Required	COMMENTS
				B MARKET LANE VOLTO BUDWET VOLTO BUDWET
D3.2 Access to buildings	X			 An AS 1428.1-2009 compliant accessway: from the main points of a pedestrian entry at the allotment boundary; and from other accessible buildings on the same allotment; and from any accessible residential carparking space on the allotment. In a building required to be accessible, an accessway must be provided through the principal pedestrian entrance, and— (i) through not less than 50% of all pedestrian entrance; and (ii) in a building with a total floor area more than 500 m2, a pedestrian entrance which is not accessible must not be located more than 50 m from an accessible pedestrian entrance,

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BCA DEEMED-TO-SATISFY PROVISION	COMPLIES	DOES NOT COMPLY	NA or Informational	Compliance Required	COMMENTS
					• No circulation space is provided for latchside clearance at the apartment entry doorways which does not comply with Clause 13.3 of AS 1428.1-2009.
					
D3.3 Parts of the building required to be accessible		X			 In a building required to be accessible— (a) every ramp and stairway, except for ramps and stairways in areas exempted by D3.4, must comply with— (iii) for a ramp, except a fire-isolated ramp, clause 10 of AS 1428.1; and (iv) for a stairway, except a fire-isolated stairway, clause 11 of AS 1428.1; and (v) for a fire-isolated stairway, clause 11.1(f) and (g) of AS 1428.1; and (a) every passenger lift must comply with E3.6; and (b) accessways must have— (vi) passing spaces complying with AS 1428.1 at maximum 20 m intervals on those parts of an accessway where a direct line of sight is not available; and (vii) turning spaces complying with AS 1428.1— (A) within 2 m of the end of accessways where it is not possible to continue travelling along the accessway; and (B) at maximum 20 m intervals along the accessway; and (c) an intersection of accessways satisfies the spatial requirements for a passing and turning space; and

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BCA DEEMED-TO-SATISFY PROVISION	COMPLIES	DOES NOT COMPLY	NA or Informational	Compliance Required	COMMENTS
					 (e) a ramp complying with AS 1428.1 or a passenger lift need not be provided to serve a storey or level other than the entrance storey in a Class 5, 6, 7b or 8 building— (viii) containing not more than 3 storeys; and (ix) with a floor area for each storey, excluding the entrance storey, of not more than 200 m²; and (f) clause 7.4.1(a) of AS 1428.1 does not apply and is replaced with 'the pile height or pile thickness shall not exceed 11 mm and the carpet backing thickness shall not exceed 4 mm'; and (g) the carpet pile height or pile thickness dimension, carpet backing thickness dimension and their combined dimension shown in Figure 8 of AS 1428.1 do not apply and are replaced with 11 mm, 4 mm and 15 mm respectively. Note: BCA 2019 Amendment 1 does not directly specify slip-resistance classification(s) for all accessible paths of travel; however, we highlight the resistant surface. We recommend you should seek surface finish advice from an independent specialist slip safety consultant. DTS non-compliance 1st Floor to 3rd Floor - A turning space in accordance with Clause 6.5.3 of AS 1428.1-2009 is not provided at the end of the corridors serving the SOUs. It is recommended that this is addressed by a Performance Solution at CC stage. Image: A stage and the stage



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SECTION SERVICES & EQUIPMENT

Part E1 - Fire Fighting Equipment

0 0 1	- 1				
E1.3		Х		(a)	A hydrant system must be provided to serve a building –
Fire Hydrants					(i) Having a total floor area greater than 500m ² ; and
					(ii) Where a fire brigade station is –
					 (A) No more than 50 km from the building as measured along roads; and
					(B) Equipped with equipment capable of utilising a fire hydrant.
				(b)	The fire hydrant system-
					(i) Must be installed in accordance with AS2419.1, except-
					(B) Where a sprinkler system is installed throughout a building in accordance with AS 2118.1, AS 2118.4, AS 2118.6, FPAA101H or FPAA101D the fire hydrant booster protection requirements of Clause

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BCA DEEMED-TO-SATISFY PROVISION	COMPLIES	DOES NOT COMPLY	NA or Informational	Compliance Required	COMMENTS
					7.3(c)(ii) and 7.3(d)(iii) of AS 2419.1 do not apply, and
					(C) A fire hydrant booster assembly may be located between 3.5m and 10m of the building, and need not comply with Clause 7.3(d)(iii) of AS 2419.1 where the assembly is protected by an adjacent fire rated freestanding wall that –
					(aa) achieves an FRL of not less than 90/90/90; and
					(bb) extends not less than 1m each side of the outermost fire hydrant booster risers within the assembly and is not less than 3m wide; and
					(cc) extends to a height of not less than 2m above finished ground level; and
					 (ii) Where internal fire hydrants are provided, they must serve only the storey on which they are located except that a sole occupancy unit –
					(A) In a Class 2 or 3 building or Class 4 part may be served by a single fire hydrant located at the level of egress from the sole occupancy unit; or
					(B) Of not more than 2 storeys in a Class 5, 6, 7, 8 or 9 building may be served by a single fire hydrant located at the level of egress from that sole occupancy unit provided the fire hydrant can provide coverage to the whole of the sole occupancy unit.
					Note – Concessions under Specification E1.5a (AS 2118.1, AS2118.4 sprinkler system) for Class 2 & 3 buildings with an effective height of not more than 25m with a rise in storeys of 4 or more.
					Internal fire hydrants need not be provided where -
					The building is served by external fire hydrants that provide compliant coverage, except that in a residential care building the nozzle at the end of the length of hose need only reach the entry door of any sole occupancy unit to be considered as covering the area within the sole occupancy unit; or
					 A dry fire hydrant system that otherwise complies with AS 2419.1 is installed in the building and –
					- Each fire hydrant head is located in accordance with E1.3 and fitted with a blank end cap or plug; and
					 The pipe work is installed in accordance with E1.3 (as for a required fire main) except that it need not be connected to a water supply; and
					- A hydrant booster inlet connection is provided in accordance with E1.3; and
					An external street or feed hydrant capable of providing the required system flow is located within 60m of the hydrant booster connection.
					Note – Concessions under Specification E1.5a (FPAA101D sprinkler system) for Class 2 & 3 buildings with an effective height of not more than 25m with a rise in storeys of 4 or more.
					Internal fire hydrants need not be provided where -

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BCA DEEMED-TO-SATISFY PROVISION	COMPLIES	DOES NOT COMPLY	NA or Informational	Compliance Required	COMMENTS
					 A dry fire hydrant system that otherwise complies with AS 2419.1 is installed in the building except - The system pipework is not connected to the water supply; and An on-site fire pump set is not required; and The minimum fire hydrant outlet flow of 6 L/s may be achieved when boosted by a fire brigade pumping appliance; and The minimum pipe sizes specified in AS 2419.1 do not apply, and Each fire hydrant head is located in accordance with E1.3 and fitted with a blank end cap or plug; and
					 A hydrant booster inlet connection is provided in accordance with E1.3; and An external street or feed hydrant capable of providing the required system flow is located within 60m of the hydrant booster connection. A hydrant booster inlet connection is provided in accordance with E1.3; and An external street or feed hydrant capable of providing the required system flow is located within 60m of the hydrant booster connection.
					DTS non-compliance The location of the booster is not located within sight of the main entrance to the building which does not comply with Clause 7.3(c) of AS 2419.1-2005. AED believes the main entrance is the entrance to which the address applies. It is a technical non-compliance. This is required to be addressed by a Fire Engineered Performance Solution at CC stage.





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BCA DEEMED-TO-SATISFY PROVISION	COMPLIES	DOES NOT COMPLY	NA or Informational	Compliance Required		COMMENTS
						hose reel can provide coverage to the whole of the sole occupancy unit.
					(d)	Fire hose reels must be located internally, externally or in combination, to achieve the system coverage as specified in AS2441.
					(e)	In achieving system coverage, one or a combination of the following criteria for individual internally located fire hose reels must be met in determining the layout of any fire hose reel system:
						(i) Fire hose reels must be located adjacent to an internal hydrant (other than one in a fire isolated exit). Except that a fire hose reel need not be located adjacent to every fire hydrant, provided system coverage can be achieved.
						 (ii) Fire hose reels must be located within 4m of an exit, except that a fire hose reel need not be located adjacent to every exit, provided system coverage can be achieved.
						(iii) Where system coverage is not achieved by compliance with (i) and (ii), additional fire hose reels may be located in paths of travel to an exit to achieve the required coverage.
					(f)	Fire hose reels must be located so that the fire hose will not pass through doorways fitted with fire or smoke doors, except
						 Doorways in walls referred to in C2.5(a)(v) in a Class 9a building and C2.5(b)(iv) in a Class 9c building, separating ancillary use areas of high potential fire hazard; and
						(ii) Doorways in walls referred to in C2.12 or C2.13 separating equipment or electrical supply systems; and
						(iii) Doorways opening into shafts referred to in C3.13.
					(g)	Where the normal water supply cannot achieve the flow and pressures required by AS 2441, or is unreliable –
						(i) A pump; or
						(ii) Water storage facility; or
						(iii) Both a pump and water storage facility,
						t be installed to provide the minimum floor and pressures uired by clause 6.1 of AS 2441.
					Detai	non-compliance Is of the location of the fire hose reels in accordance with lause are required at CC stage.

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BCA DEEMED-TO-SATISFY PROVISION	COMPLIES	DOES NOT COMPLY	NA or Informational	Compliance Required	COMMENTS
Sprinklers					 (a) Be installed in a building or part of a building when required by Table E1.5; and
					(b) Comply with Specification E1.5 and Specification E1.5a as applicable as summarised below –
					 Class 2 & 3 – Throughout the whole building, including any part of another class, if any part of the building has a rise in storeys of 4 or more and an effective height of not more than 25m
					An automatic sprinkler system in accordance with Specification E1.5a is required to comply with E1.5.
					AED understands that a sprinkler system in accordance with Spec E1.5 and AS 2118.1-2017 is proposed in the building to address the proposed Fire Engineered Performance Solutions.
					Hydraulic Services Design Certification must be incorporated into the construction certificate specification
E1.6				Х	(a) Portable fire extinguishers must be –
Portable Fire					(i) Provided as listed in Table E1.6;
Extinguishers					(ii) For a Class 2, 3, or 5 building or Class 4 part of a building, provided –
					 (A) To serve the whole Class 2, 3, or 5 building or Class 4 part of a building where one or more internal fire hydrants are installed; or
					(B) Where internal fire hydrants are not installed, to serve any fire compartment with a floor area greater than 500m ² , and for the purpose of this clause, a sole occupancy unit in a Class 2 or 3 building or Class 4 part of a building is considered to be a fire compartment; and
					(iii) Subject (b), selected, located and distributed in accordance with Sections 1, 2, 3 and 4 of AS 2444.
					(b) Portable fire extinguishers provided in a Class 2 or 3 building or Class 4 part of a building must be –
					(i) An ABE type fire extinguisher; and
					(ii) A minimum size of 2.5kg; and
					(iii) Distributed outside a sole occupancy unit –
					 (A) To serve only the storey on which they are located; and
					(B) So 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 construction certificate plans / specification
E1.8 Fire Control Centre				X	Not applicable. A Fire Control Centre facility is not required.
E1.9				X	In a building under construction –

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BCA DEEMED-TO-SATISFY PROVISION	COMPLIES	DOES NOT COMPLY	NA or Informational	Compliance Required	COMMENTS
					of a smoke hazard management system must comply with that Section of the Standard.
					(d) A smoke detection system must be installed in accordance with Clause 6 of Specification E2.2a to operate AS 1668.1 systems that are provided for zone pressurisation and automatic air pressurisation for fire-isolated exits.
					Note: Smoke alarms in sole occupancy units are required to be interconnected.
					Details demonstrating compliance with this clause must be incorporated into the construction certificate plans / specification.
E2.3			Х		Not applicable. Not a special hazard.
Provision for Special Hazards					
Part E3 - Lift Installations					
E3.1 Lift installations				Х	An electric passenger lift installation and an electrohydraulic passenger lift installation must comply with Specification E3.1
					Details demonstrating compliance with this clause must be incorporated into the construction certificate plans / specification
E3.2 Stretcher Facility in Lifts			Х		Not applicable. Effective height is less than 12.
E3.3				Х	A warning sign must—
Warning Against the use					(a) be displayed where it can be readily seen—
of lifts in Fire					 (i) near every call button for a passenger lift or group of lifts throughout a building; except
					 (ii) a small lift such as a dumb-waiter or the like that is for the transport of goods only; and
					 (b) comply with the details and dimensions of Figure E3.3 and consist of—
					 (i) incised, inlaid or embossed letters on a metal, wood, plastic or similar plate securely and permanently attached to the wall; or
					(ii) letters incised or inlaid directly into the surface of the material forming the wall.
					"DO NOT USE LIFTS IF THERE IS A FIRE"
					Details demonstrating compliance with this clause must be incorporated into the construction certificate plans / specification
E3.4 Emergency Lifts			Х		Not applicable. Effective height is less than 25m.
E3.5 Landings				х	Access and egress to and from lift-well landings must comply with the Deemed-to-Satisfy Provisions of Section D.

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BCA DEEMED-TO-SATISFY PROVISION	COMPLIES	DOES NOT COMPLY	NA or Informational	Compliance Required	COMMENTS
					Details demonstrating compliance with this clause must be incorporated into the construction certificate plans / specification
E3.6 Facilities for People with Disabilities				Х	In an accessible building, every passenger lift must be one of the types specified in Table E3.6a, have accessible features in accordance with Table E3.6b, and not rely on a constant pressure device for its operation if the lift car is fully enclosed.
					Details demonstrating compliance with this clause must be incorporated into the construction certificate plans / specification
E3.7 Fire Service Controls				Х	Where lifts serve any storey above an effective height of 12 m, the following must be provided:
					(a) A fire service recall control switch complying with E3.9 for—
					(i) a group of lifts; or
					(ii) a single lift not in a group that serves the storey.
					(b) A lift car fire service drive control switch complying with E3.10 for every lift.
					Details demonstrating compliance with this clause must be incorporated into the construction certificate plans / specification
E3.8 Residential Care Buildings			Х		Not applicable. Not a Class 9c residential care building
E3.9 Fire service recall operation switch				Х	(a) Each group of lifts must be provided with one fire service recall control switch required by E3.7 that activates the fire service recall operation at (e). The switch must—
					(i) be located at the landing nominated by the appropriate authority; and
					(ii) be labelled "FIRE SERVICE" in indelible white lettering on a red background; and
					(iii) have two positions with an "OFF" and an "ON" position identified; and
					(iv) be operable only by the use of a key that is removable in either the "OFF" position or the "ON" position.
					(b) Adhesive labels must not be used for compliance with (a)(ii) and (a)(iii).
					(c) The key in (a)(iv) must be able to turn all fire service recall control switches in the building and must have a different key combination to other keys used for lifts in the building.
					(d) The fire service recall operation must be activated by—
					 (i) switching the fire service recall control switch in (a) to "ON"; or (ii) a signal from a fire management system approved by the appropriate authority.
					(e) The activation of the fire service recall operation at (d) must—
					(i) cancel all registered car and landing calls; and
					(ii) inactivate all door reopening devices that may be affected by smoke; and

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BCA DEEMED-TO-SATISFY PROVISION	COMPLIES	DOES NOT COMPLY	NA or Informational	Compliance Required	COMMENTS
					 (iii) ensure lift cars travelling toward the nominated floor continue to the nominated floor without stopping; and
					(iv) ensure lift cars travelling away from the nominated floor stop at or before the next available floor without opening the doors (either automatically or by the door open button), reverse direction and travel without stopping to the nominated floor; and
					(v) for lifts stopped at a floor other than the nominated floor, close the doors and travel without stopping to the nominated floor; and
					(vi) ensure that lifts stay at the nominated floor with doors open; and
					(vii) permit all lifts to return to normal service if the fire service recall control switch at (a) is switched to the "OFF" position during or after the fire service recall operation.
					(f) The requirements of (e) do not apply to lifts on inspection service or when the lift car fire service control switch required by E3.10 is in the "ON" position.
					(g) Lifts having manual controls must signal an alert to the lift for the lift to return to the nominated floor containing the recall switch that activated the signal.
					Details demonstrating compliance with this clause must be incorporated into the construction certificate plans / specification
E3.10 Lift car fire service drive				Х	(a) The lift car fire service drive control switch required by E3.7 must be activated from within the lift car. The switch must—
control switch					(i) be located between 600 mm and 1500 mm above the lift car floor; and
					(ii) be labelled "FIRE SERVICE" by indelible white lettering on a red background; and
					(iii) have two positions with an "OFF" and an "ON" position identified; and
					(iv) operate only by the use of a key that is removable in either the "OFF" position or the "ON" position.
					(b) Adhesive labels must not be used for compliance with (a)(ii) or (a)(iii).
					(c) When the lift car fire service drive control switch at (a) is turned to the "ON" position, the lift must—
					(i) not respond to the fire service recall control switch; and
					(ii) cancel all registered lift car and landing calls; and(iii) override all lift car call access control systems; and
					(iv) inactivate all door reopening devices that may be affected
					by smoke; and
					(v) allow the registration of lift car call by lift car call buttons, however the lift doors must not close in response to the registration of lift car calls; and
					(vi) activate door closing by constant pressure being applied on the "door close" button unless the button is released before the doors are fully closed, in which case the doors must reopen and any registered lift car calls must be cancelled; and

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BCA DEEMED-TO-SATISFY PROVISION	COMPLIES	DOES NOT COMPLY	NA or Informational	Compliance Required	COMMENTS
					(vii) when the doors are closed, move the lift in response to registered lift car calls while allowing additional lift car calls to also be registered; and
					(viii) travel to the first possible floor in response to registered lift car calls and cancel all registered lift car calls after the lift stops; and
					(ix) ensure doors do not open automatically, rather by constant pressure being applied on the "door open" button unless the button is released before the doors are fully open, in which case the doors must re-close; and the requirements of $(c)(i)$ to $(c)(ix)$ do not apply to a lift operating on inspection service.
					(d) A multi-deck lift installation must have systems in place that—
					 (i) are able to communicate to the fire officer that the fire service drive control switch will not operate until all decks have been cleared of passengers; and
					(ii) ensure there is an appropriate method of clearing all deck landings of passengers; and
					(iii) maintain all doors to deck landings not containing the fire service control switch closed and inoperative while the lift is on fire service drive control.
					Details demonstrating compliance with this clause must be incorporated into the construction certificate plans / specification
Part E4 - Visibility in an Er	nerg	ency	, Exit	sign	s and Warning Systems
E4.2				Х	An emergency lighting system must be installed—
Emergency Lighting Requirements					 (a) in every fire-isolated stairway, fire-isolated passageway or fire-isolated ramp; and
					(b) in every storey of a Class 5, 6, 7, 8 or 9 building where the storey has a floor area more than 300 m ² —
					 (i) in every passageway, corridor, hallway, or the like, that is part of the path of travel to an exit; and
					 (ii) in any room having a floor area more than 100 m² that does not open to a corridor or space that has emergency lighting or to a road or open space; and
					(iii) in any room having a floor area more than 300 m ² ; and
					(c) in every passageway, corridor, hallway, or the like, having a length of more than 6 m from the entrance doorway of any sole-occupancy unit in a Class 2 or 3 building or Class 4 part of a building to the nearest doorway opening directly to—
					 a fire-isolated stairway, fire-isolated passageway or fire- isolated ramp; or
					 (ii) an external stairway serving instead of a fire-isolated stairway under D1.8; or
					 (iii) an external balcony leading to a fire-isolated stairway, fire-isolated passageway or fire-isolated ramp; or
					(iv) a road or open space; and
					(d) in every required non-fire-isolated stairway; and

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BCA DEEMED-TO-SATISFY PROVISION	COMPLIES	DOES NOT COMPLY	NA or Informational	Compliance Required	COMMENTS
					(e) in a sole-occupancy unit in a Class 5, 6 or 9 building if—
					(i) the floor area of the unit is more than 300 m^2 ; and
					 (ii) an exit from the unit does not open to a road or open space or to an external stairway, passageway, balcony or ramp, leading directly to a road or open space; and
					(f) in every room or space to which there is public access in every storey in a Class 6 or 9b building if—
					(i) the floor area in that storey is more than 300 m^2 ; or
					 (ii) any point on the floor of that storey is more than 20 m from the nearest doorway leading directly to a stairway, ramp, passageway, road or open space; or
					 (iii) egress from that storey involves a vertical rise within the building of more than 1.5 m, or any vertical rise if the storey concerned does not admit sufficient light; or
					(iv) the storey provides a path of travel from any other storey required by (i), (ii) or (iii) to have emergency lighting; and
					Electrical Design Certification must be incorporated into the construction certificate specification
E4.3 Measurement of Distance			X		Distances, other than vertical rise, must be measured along the shortest path of travel whether by straight lines, curves or a combination of both.
E4.4 Design and Operation of Emergency Lighting			X		The emergency lighting system must comply with AS/NZS 2293.1-2018
E4.5 Exit Signs				Х	An exit sign must be clearly visible to persons approaching the exit, and must be installed on, above or adjacent to each—
					(a) door providing direct egress from a storey to—
					 (i) an enclosed stairway, passageway or ramp serving as a required exit; and
					 (ii) an external stairway, passageway or ramp serving as a required exit; and
					(iii) an external access balcony leading to a required exit; and
					 (b) door from an enclosed stairway, passageway or ramp at every level of discharge to a road or open space; and
					(c) horizontal exit; and
					(d) door serving as, or forming part of, a required exit in a storey required to be provided with emergency lighting in accordance with E4.2.
					Electrical design plans and certification must be incorporated into the construction certificate specification
E4.6 Direction Signs (inclusive of NSW E4.6)				Х	If an exit is not readily apparent to persons occupying or visiting the building, then exit signs must be installed—

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BCA DEEMED-TO-SATISFY PROVISION	COMPLIES	DOES NOT COMPLY	NA or Informational	Compliance Required	COMMENTS
F1.5				Х	A roof must be covered with—
Roof coverings					 (a) concrete roofing tiles complying with AS 2049 and fixed, except in cyclonic areas, in accordance with AS 2050, as appropriate; or
					(b) terracotta roofing tiles complying with AS 2049 and fixed, except in cyclonic areas, in accordance with AS 2050; or
					(c) cellulose cement corrugated sheeting complying with AS/NZS 2908.1 and installed in accordance with AS/NZS 1562.2; or
					(d) metal sheet roofing complying with AS 1562.1; or
					(e) plastic sheet roofing designed and installed in accordance with AS/NZS 4256 Parts 1, 2, 3 and 5 and AS/NZS 1562.3; or
					(f) Terracotta, fibre-cement and timber slates and shingles designed and installed to complying with AS 4597 except in cyclonic areas
					Details demonstrating compliance with this clause must be incorporated into the construction certificate plans / specification
F1.6 Sarking				Х	Sarking-type materials used for weatherproofing must comply with AS/NZS 4200.1 and AS 4200.2.
Carking					Details demonstrating compliance with this clause must be incorporated into the construction certificate plans / specification
F1.7 Waterproofing of wet				х	(a) In a Class 2 and 3 building and a Class 4 part of a building, building elements in wet areas must—
area					 (i) be water resistant or waterproof in accordance with Table F1.7; and
					(ii) comply with AS 3740.
					(b) In a Class 5, 6, 7, 8 or 9 building, building elements in the bathroom or shower room, a slop hopper or sink compartment, a laundry or sanitary compartment must—
					 (i) be water resistant or waterproof in accordance with Table F1.7; and
					(ii) comply with AS 3740,
					as if they were in a Class 2 or 3 building or a Class 4 part of a building.
					(c) Where a slab or stall type urinal is installed—
					(i) the floor surface of the room containing the urinal must—
					(A) be an impervious material; and
					(B) where no step is installed—
					(aa) be graded to the urinal channel for a distance of 1.5 m from the urinal channel; and
					(bb) the remainder of the floor be graded to a floor waste; and

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BCA DEEMED-TO-SATISFY PROVISION	COMPLIES	DOES NOT COMPLY	NA or Informational	Compliance Required	COMMENTS
					(C) where a step is installed—
					(aa) the step must have an impervious surface and be graded to the urinal channel; and
					(bb) the floor behind the step must be graded to a floor waste; and
					(ii) the junction between the floor surface and the urinal channel must be impervious.
					(d) Where a wall hung urinal is installed—
					 the wall must be surfaced with impervious material extending from the floor to not less than 50 mm above the top of the urinal and not less than 225 mm on each side of the urinal.
					(ii) the floor must be surfaced with impervious material and graded to a floor waste.
					(e) In a room with timber or steel-framed walls and containing a urinal—
					 the wall must be surfaced with an impervious material extending from the floor to not less than 100 mm above the floor surface; and
					 the junction of the floor surface and the wall surface must be impervious.
					Details demonstrating compliance with this clause must be incorporated into the construction certificate plans / specification
F1.9 Damp-proofing				Х	Where a damp-proof course is required, it must consist of a material that complies with AS/NZS 2904-1995; or impervious sheet material in accordance with AS 3660.1-2000
					Details demonstrating compliance with this clause must be incorporated into the construction certificate plans / specification
F1.10 Damp-proofing of floors on the ground				Х	If a floor of a room is laid on the ground or on fill, moisture from the ground must be prevented from reaching the upper surface of the floor and adjacent walls by the insertion of a vapour barrier in accordance with AS 2870-2011 (N/A to areas that do not require weatherproofing – refer specific clause exemptions).
					Details demonstrating compliance with this clause must be incorporated into the construction certificate plans / specification
F1.11 Provision of Floor Wastes				Х	Bathrooms and laundries in Class 2 buildings must be provided with a floor waste, and the floor of such areas must be graded to such floor waste.
					Details demonstrating compliance with this clause must be incorporated into the construction certificate plans / specification
F1.12 Sub Floor Ventilation			Х		Not applicable. No sub-floor space proposed.

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BCA DEEMED-TO-SATISFY PROVISION	COMPLIES	DOES NOT COMPLY	NA or Informational	Compliance Required	COMMENTS
F1.13 Glazed Assemblies				Х	Glazed assemblies within external walls in accordance with AS 2047-2014.
					Details demonstrating compliance with this clause must be incorporated into the construction certificate plans / specification
Part F2 - Sanitary & Other	Fac	ilities			
F2.1		Х			Within each sole-occupancy unit, provide—
Facilities in residential buildings					(A) a kitchen sink and facilities for the preparation and cooking of food; and
					(B) a bath or shower; and
					(C) a closet pan; and
					(D) a washbasin
					(E) laundry facilities
					DTS non-compliance Laundry is not detailed within all SOUs.

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BCA DEEMED-TO-SATISFY PROVISION	COMPLIES	DOES NOT COMPLY	NA or Informational	Compliance Required	COMMENTS
F2.2			X		Important and the construction of certificate plans of the construction of certificate plans of the construction of certificate plans of the construction o
Calculation of number of occupants and fixtures					 The number of persons accommodated must be calculated according to D1.13 if it cannot be more accurately determined by other means. Unless the premises are used predominantly by one sex, sanitary facilities must be provided on the basis of equal numbers of males and females.

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BCA DEEMED-TO-SATISFY PROVISION	COMPLIES	DOES NOT COMPLY	NA or Informational	Compliance Required	COMMENTS
					 In calculating the number of sanitary facilities to be provided under F2.1 and F2.3, a unisex facility required for people with a disability may be counted once for each sex.
					For the purposes of this Part, a unisex facility comprises one closet pan, one washbasin and means for the disposal of sanitary towels.
F2.3 Facilities for Class 3 to 9 Buildings				X	(a) Except where permitted by (b), (c), (f), F2.4(a) and F2.4(b), separate sanitary facilities for males and females must be provided for Class 3, 5, 6, 7, 8 or 9 buildings in accordance with Table F2.3.
					(b) If not more than 10 people are employed, a unisex facility may be provided instead of separate facilities for each sex.
					(c) If the majority of employees are of one sex, not more than 2 employees of the other sex may share toilet facilities if the facilities are separated by means of walls, partitions and doors to afford privacy.
					(d) Employees and the public may share the same facilities in a Class 6 and 9b building (other than a school or early childhood centre) provided the number of facilities provided is not less than the total number of facilities required for employees plus those required for the public.
					(e) Adequate means of disposal of sanitary towels must be provided in sanitary facilities for use by females.
					(f) Separate sanitary facilities for males and females need not be provided for patients in a ward area of a class 9a building.





(g) where two or more of each type of accessible unisex sanitary facility are provided, the number of left and right handed

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BCA DEEMED-TO-SATISFY PROVISION	COMPLIES	DOES NOT COMPLY	NA or Informational	Compliance Required	COMMENTS
					mirror image facilities must be provided as evenly as possible; and
					 (h) where male sanitary facilities are provided at a separate location to female sanitary facilities, accessible unisex sanitary facilities are only required at one of those locations; and
					 (i) an accessible unisex sanitary compartment or an accessible unisex shower need not be provided on a storey or level that is not required by D3.3(f) to be provided with a passenger lift or ramp complying with AS 1428.1.
F2.5				Х	Sanitary compartments must have:
Construction of Sanitary Compartments					 (a) Doors and partitions that separate adjacent compartments; and
					(b) the door to a fully enclosed sanitary compartment must open outwards, or slide, or be removable from outside of the compartment, unless there is a clear space of at least 1.2m between the closet pan within the compartment and the doorway.
					Details demonstrating compliance with this clause must be incorporated into the construction certificate plans / specification
F2.6 Interpretation: Urinals and washbasins			Х		Information relevant to urinal and washbasin design.
F2.7 Microbial Control Note NSW F2.7 (Clause Deleted)			X		Not applicable. Clause deleted in NSW.
F2.8 Waste Management			X		Not applicable. Not Class 9a & 9c.
F2.9			X		Not applicable.
Accessible adult change facilities					
Part F3 Room Sizes					
F3.1				Х	The ceiling height must be not less than—
Height of Rooms and					(a) in a Class 2 or 3 building or Class 4 part of a building—
other spaces					(i) a kitchen, laundry, or the like — 2.1 m;
					(ii) and a corridor, passageway or the like — 2.1 m; and
					(iii) a habitable room excluding a kitchen — 2.4 m; and
					(iv) in a room or space with a sloping ceiling or projections below the ceiling line within -
					(A) a habitable room—

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BCA DEEMED-TO-SATISFY PROVISION	COMPLIES	DOES NOT COMPLY	NA or Informational	Compliance Required	COMMENTS
					(aa) in an attic — a height of not less than 2.2 m for not less than two thirds of the floor area of the room or space; and
					(bb) in other rooms — a height of not less than 2.4 m for not less than two thirds of the floor area of the room or space; and
					 (B) a non-habitable room — a height of not less than 2.1 m for not less than two thirds of the floor area of the room or space; and
					when calculating the floor area of a room or space, any part that has a ceiling height of less than 1.5 m is not included; and
					(b) in a Class 5, 6, 7 or 8 building—
					(i) except as allowed in (ii) and (f) — 2.4 m; and
					(ii) a corridor, passageway, or the like — 2.1 m; and
					(f) In any building—
					 (i) a bathroom, shower room, sanitary compartment, airlock, tea preparation room, pantry, store room, garage, car parking area, or the like — 2.1 m; and
					 (ii) a commercial kitchen & required accessible change room facility — 2.4 m; and
					(iii) above a stairway, ramp, landing or the like — 2 m measured vertically above the nosing line of stairway treads or the floor surface of the ramp, landing or the like.
Part F4 - Light & Ventilatio	n				
F4.1				Х	Natural lighting must be provided to:
Provision of natural light					 all habitable rooms in Class 2 buildings, and Class 4 parts of a building;
					Details demonstrating compliance with this clause must be incorporated into the construction certificate plans / specification
F4.2		Х			(a) Required natural lighting must be provided by—
Methods and extent of					(i) windows, excluding roof lights, that—
natural lighting					 (A) have an aggregate light transmitting area measured exclusive of framing members, glazing bars or other obstructions of not less than 10% of the floor area of the room; and
					 (B) are open to the sky or face a court or other space open to the sky or an open verandah, carport or the like; or
					(ii) roof lights, that—
					 (A) have an aggregate light transmitting area measured exclusive of framing members, glazing bars or other obstructions of not less than 3% of the floor area of the room; and

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BCA DEEMED-TO-SATISFY PROVISION	COMPLIES	DOES NOT COMPLY	NA or Informationa	Compliance Required	COMMENTS
					(B) are open to the sky; or
					(iii) a proportional combination of windows and roof lights required by (i) and (ii).
					(b) In a Class 2 building a required window that faces a boundary of an adjoining allotment or a wall of the same building or another building on the allotment must not be less than a horizontal distance from that boundary or wall that is the greater of—
					(i) generally — 1 m; and
					(iii) 50% of the square root of the exterior height of the wall in which the window is located, measured in metres from its sill.
					DTS non-compliance
					Level 1 - The bedrooms on the western side faces a boundary of an adjoining allotment and is less than horizontal distance from the wall which does not comply with (b).
					It is recommended this is addressed by a Performance Solution at CC stage.
					Level Calc (50% of square root Metres to wall Complies of sill height)
					Level 1 0.5 x √10.98m 1.5 No. = 1.66m

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BCA DEEMED-TO-SATISFY PROVISION	COMPLIES	DOES NOT COMPLY	NA or Informational	Compliance Required	COMMENTS
					(B) The areas specified in (a)(ii) and (a)(iii) may be reduced as appropriate if direct natural light is provided from another source.
F4.4				Х	Artificial lighting in accordance with AS/NZS 1680.0-2009 to specific building areas.
Artificial lighting					Electrical Design Certification must be incorporated into the construction certificate specification
F4.5 Ventilation of Rooms				Х	All rooms to be provided with Clause F4.6 compliant natural ventilation OR a mechanical ventilation or air-conditioning system complying with AS 1668.2-2012.
					Details demonstrating compliance with this clause must be incorporated into the construction certificate plans / specification
F4.6 Natural Ventilation			Х		 (a) Natural ventilation provided in accordance with F4.5(a) must consist of permanent openings, windows, doors or other devices which can be opened—
					 (i) with ventilating area not less than 5% of the floor area of the room required to be ventilated; and
					(ii) open to—
					(A) a suitably sized court, or space open to the sky; or
					(B) an open verandah, carport, or the like; or
					(C) an adjoining room in accordance with F4.7.
					(b) The requirements of (a)(i) do not apply to a Class 8 electricity network substation.
					Details demonstrating compliance with this clause must be incorporated into the construction certificate plans / specification
F4.7 Ventilation borrowed from adjoining room				X	Natural ventilation to a room may come through a window, opening, ventilating door or other device from an adjoining room (including an enclosed verandah) if both rooms are within the same sole-occupancy unit or the enclosed verandah is common property, and—
					(a) in a Class 2 building, a sole-occupancy unit of a Class 3 building or Class 4 part of a building—
					 the room to be ventilated is not a sanitary compartment; and
					 (ii) the window, opening, door or other device has a ventilating area of not less than 5% of the floor area of the room to be ventilated; and
					 (iii) the adjoining room has a window, opening, door or other device with a ventilating area of not less than 5% of the combined floor areas of both rooms; and
					(b) in a Class 5, 6, 7, 8 (except a Class 8 electricity network substation) or 9 building—
					 the window, opening, door or other device has a ventilating area of not less than 10% of the floor area of

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BCA DEEMED-TO-SATISFY PROVISION	COMPLIES	DOES NOT COMPLY	NA or Informational	Compliance Required	COMMENTS
					the room to be ventilated, measured not more than 3.6 m above the floor; and
					 the adjoining room has a window, opening, door or other device with a ventilating area of not less than 10% of the combined floor areas of both rooms; and
					(c) the ventilating areas specified in (a) and (b) may be reduced as appropriate if direct natural ventilation is provided from another source.
					Details demonstrating compliance with this clause must be incorporated into the construction certificate plans / specification
F4.8 Restriction of position of water closets and urinals				Х	Rooms containing closet pans or urinals must not open directly into kitchen / pantry areas, public dining areas, Class 3 dormitory areas, public assembly areas (excluding early childhood centres, primary schools and open spectator stands) and a workplace normally occupied by more than one person.
					Details demonstrating compliance with this clause must be incorporated into the construction certificate plans / specification
F4.9 Airlocks				Х	Information relevant to the provision of airlocks and the like to separate rooms prohibited under Clause F4.8 from opening directly into another room.
F4.11 Carparks			Х		Not applicable. No carparks proposed.
F4.12 Kitchen local exhaust			Х		Not applicable. No commercial kitchen proposed.
Part F5 - Sound Transmis	sion				
F5.1 Application of Part				X	The provisions of this Part apply to Class 2, 3 and 9c buildings only.
F5.2 Determination of			Х		A form of construction required to have an airborne sound insulation rating must—
airborne sound insulation ratings	rborne sound			 (a) have the required value for weighted sound reduction index (Rw) or weighted sound reduction index with spectrum adaptation term (Rw + Ctr) determined in accordance with AS/NZS 1276.1 or ISO 717.1 using results from laboratory measurements; or 	
					(b) comply with Specification F5.2.
					Details demonstrating compliance with this clause must be incorporated into the construction certificate plans / specification
F5.3 Determination of impact				Х	(a) A floor in a building required to have an impact sound insulation rating must—
sound insulation ratings					 have the required value for weighted normalised impact sound pressure level (Ln,w) determined in accordance

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BCA DEEMED-TO-SATISFY PROVISION	COMPLIES	DOES NOT COMPLY	NA or Informational	Compliance Required	COMMENTS
					with AS/ISO 717.2 using results from laboratory measurements; or
					(ii) comply with Specification F5.2.
					(b) A wall in a building required to have an impact sound insulation rating must—
					(i) for a Class 2 or 3 building be of discontinuous construction; and
					(c) For the purposes of this Part, discontinuous construction means a wall having a minimum 20 mm cavity between 2 separate leaves, and
					(i) for masonry, where wall ties are required to connect leaves, the ties are of the resilient type; and
					(ii) for other than masonry, there is no mechanical linkage between leaves except at the periphery.
					Details demonstrating compliance with this clause must be incorporated into the construction certificate plans / specification
F5.4 Sound Insulation of floors between units				Х	(a) A floor in a Class 2 or 3 building must achieve an $R_w + C_{tr}$ (airborne) not less than 50, and an $L_{n,w}$ (impact) not more than 62, if separating:
					(i) SOU's; or
					 (ii) An SOU from a plant room, lift shaft, stairway, public corridor, public lobby or parts of a different classification.
					Details demonstrating compliance with this clause must be incorporated into the construction certificate plans / specification
F5.5				Х	(a) A wall in a Class 2 or 3 building must—
Sound insulation of walls between units					 (i) have an Rw + Ctr (airborne) not less than 50, if it separates sole-occupancy units; and
					 (ii) have an Rw (airborne) not less than 50, if it separates a sole-occupancy unit from a plant room, lift shaft, stairway, public corridor, public lobby or the like, or parts of a different classification; and
					(iii) comply with F5.3(b) if it separates—
					 (A) a bathroom, sanitary compartment, laundry or kitchen in one sole-occupancy unit from a habitable room (other than a kitchen) in an adjoining unit; or
					(B) a sole-occupancy unit from a plant room or lift shaft.
					(b) A door may be incorporated in a wall in a Class 2 or 3 building 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.
					(e) Where a wall required to have sound insulation has a floor above, the wall must continue to—
					(i) the underside of the floor above; or

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BCA DEEMED-TO-SATISFY PROVISION	COMPLIES	DOES NOT COMPLY	NA or Informationa	Compliance Required	COMMENTS
			_		(ii) a ceiling that provides the sound insulation required for the wall.
					(f) Where a wall required to have sound insulation has a roof above, the wall must continue to—
					(i) the underside of the roof above; or
					(ii) a ceiling that provides the sound insulation required for the wall.
					Details demonstrating compliance with this clause must be incorporated into the construction certificate plans / specification
F5.6 Sound insulation rating				Х	Ducts and pipes must achieve an $R_w + C_{tr}$ (airborne) of no less than 40 if the adjacent room is habitable or 25 if non-habitable.
of services					Details demonstrating compliance with this clause must be incorporated into the construction certificate plans / specification
F5.7 Sound isolation of pumps				Х	A flexible coupling must be used at the point of connection between the service pipes in a building and any circulating pump.
					Details demonstrating compliance with this clause must be incorporated into the construction certificate plans / specification
Part F6 – Condensation M	lana	geme	ent	İ	
F6.1 Application of Part				Х	The Deemed-to-Satisfy Provisions of this Part only apply to a sole- occupancy unit of a Class 2 building and a Class 4 part of a building.
F6.2 Pliable building				Х	(a) Where a pliable building membrane is installed in an external wall, it must—
membrane					(i) comply with AS/NZS 4200.1; and
					(ii) be installed in accordance with AS 4200.2; and
					(iii) be a vapour permeable membrane for climate zones 6, 7 and 8; and
					 (iv) be located on the exterior side of the primary insulation layer of wall assemblies that form the external envelope of a building.
					(b) Except for single skin masonry and single skin concrete, where a pliable building membrane is not installed in an external wall, the primary water control layer must be separated from water sensitive materials by a drained cavity.
					Details demonstrating compliance with this clause must be incorporated into the construction certificate plans / specification
F6.3 Flow rate and discharge				Х	(a) An exhaust system installed in a kitchen, bathroom, sanitary compartment or laundry must have a minimum flow rate of—
of exhaust systems					(i) 25 L/s for a bathroom or sanitary compartment; and
of exhaust systems				1	

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BCA DEEMED-TO-SATISFY PROVISION	COMPLIES	DOES NOT COMPLY	NA or Informational	Compliance Required	COMMENTS
					(b) Exhaust from a kitchen must be discharged directly or via a shaft or duct to outdoor air.
					(c) Exhaust from a bathroom, sanitary compartment, or laundry must be discharged—
					(i) directly or via a shaft or duct to outdoor air; or
					(ii) to a roof space that is ventilated in accordance with F6.4.
					Details demonstrating compliance with this clause must be incorporated into the construction certificate plans / specification
F6.4 Ventilation of roof spaces				Х	(a) Where an exhaust system covered by F6.3 discharges directly or via a shaft or duct into a roof space, the roof space must be ventilated to outdoor air through evenly distributed openings.
					(b) Openings required by (a) must have a total unobstructed area of 1/300 of the respective ceiling area if the roof pitch is greater than 22°, or 1/150 of the respective ceiling area if the roof pitch is less than or equal to 22°.
					(c) 30% of the total unobstructed area required by (b) must be located not more than 900 mm below the ridge or highest point of the roof space, measured vertically, with the remaining required area provided by eave vents.
					Details demonstrating compliance with this clause must be incorporated into the construction certificate plans / specification

SECTION G ANCILLIARY PROVISIONS

Part G1 - Minor Structures	and C	ompon	ents	
G1.1 Swimming Pools		Х		Not applicable. No swimming pool
NSW G1.101 Provision for cleaning windows			X	 A safe manner for cleaning of windows located 3 or more storeys above ground level must be provided, and compliance is achieved where: (a) The windows can be cleaned wholly from within the building; or (b) Via a method complying with the Work Health and Safety Act 2011 and regulations made under that Act. Details demonstrating compliance with this clause must be incorporated into the construction certificate plans / specification
G1.2 Refrigeration chambers, strong-rooms and vaults		X		Not applicable. No refrigerated or cooling chamber
G1.3 Outdoor play areas		Х		Not applicable. No outdoor play areas proposed

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BCA DEEMED-TO-SATISFY PROVISION	COMPLIES	DOES NOT COMPLY	NA or Informational	Compliance Required	COMMENTS				
Part G2 - Boilers, Pressure Vessels, Heating Appliances, Fireplaces, Chimneys and Flues									
G2.2 Installation of appliances			X		Not applicable. No stove, heater or similar appliance proposed.				
G2.3 Open fire places			Х		Not applicable. No open fire places proposed.				
G2.4 Incinerator rooms			X		Not applicable. No Incinerator rooms proposed.				
Part G3 - Atrium Construc	tion								
G3.1			X		This part does not apply to an atrium which:				
Application of Part					(a) Connects only 2 storeys; or				
					(b) Connects only 3 storeys,				
					 (i) if each storey is sprinkler protected (other than a FPAA101D or FPAA101H system) complying with specification E1.5 throughout; and 				
					 (ii) one of those storeys is situated at a level at which there is direct egress to a road or open space. 				
G3.2 Dimensions of atrium well			X		Not applicable. No atrium.				
G3.3 Separation of atrium by bounding walls			Х		Not applicable. No atrium.				
G3.4 Construction of bounding walls			Х		Not applicable. No atrium.				
G3.5 Construction at balconies			X		Not applicable. No atrium.				
G3.6 Separation at roof			Х		Not applicable. No atrium.				
G3.7 Means of egress			Х		Not applicable. No atrium.				
G3.8 Fire and smoke control systems			X		Not applicable. No atrium.				
Part G4 - Construction in A	Alpin	e Are	eas						
G4.1 Application of Part			X		Not applicable. Not alpine.				
G4.3 External doorways			Х		Not applicable. Not alpine.				

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BCA DEEMED-TO-SATISFY PROVISION	COMPLIES	DOES NOT COMPLY	NA or Informational	Compliance Required	COMMENTS
					a fire wall cannot be used to separate an occupiable area into different fire compartments.
G6.4 Provision for escape				Х	For the purposes of the DTS provisions of Part D1, a reference to a storey or room includes an occupiable outdoor area.
G6.5 Construction of exits				Х	For the purposes of the DTS provisions of Part D2, a reference to a storey includes an occupiable outdoor area.
G6.6 Firefighting equipment				Х	For the purposes of the DTS provisions of Part E1, a reference to a storey includes an occupiable outdoor area.

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5.0 BCA ASSESSMENT SUMMARY - 23-29 The Corso

The following table details the BCA compliance of the assessed design.

5		1			Ç			
BCA DEEMED-TO-SATISFY PROVISION	COMPLIES	DOES NOT COMPLY	NA or Informational	Compliance Required	COMMENTS			
SPECIFICATION A1.1 FIRE PROTECTED TIMB	ER							
Specification A1.1 has been introduced to allow fire-protective timber construction utilising a non-combustible fire protective covering for buildings not exceeding 25m which are sprinkler protected.								
2.1 General requirements			Х		Not applicable. No fire protected timber proposed.			
2.2 Massive Timber			Х		Not applicable. No fire protected timber proposed.			
SECTION B STRUCTURE								
Part B1: Structural Provisions				X	Structural engineer to provide structural drawings/details and accompanying structural design certificate to demonstrate that all building elements will comply with Section B of the BCA.			
					 Glazing must comply with AS1288-2006 and AS2047-2014. 			
					 Termite control must comply with AS3660.1-2000 where any primary building elements are timber. 			
					If the building is in a flood hazard area it is required to comply with BCA clause B1.6.			
					Details demonstrating compliance with this clause must be incorporated into the construction certificate plans / specification (and structural details)			

SECTION C FIRE RESISTANCE		·									
Part C1 - Fire Resistance & Stability											
C1.1 Type of Construction Required		Х	Refer to Spec C1.1 and Attachment B for Schedule of FRLs for Type B Construction. These are to be certified by the architect and structural engineer as having been met, based on the proposed design.								
			Please note that specification C1.1 also requires design compliance with the following:								
			 Fire isolated shafts are required to be enclosed at the top and bottom of the shaft with fire rated construction as per specification C1.1. This fire rating is required in two directions. 								
			2. Internal lightweight walls to be fire rated, as well as non-load bearing lift, ventilating, pipe, garbage or similar shaft wall must be of non-combustible construction.								
			3. The walls to fire rated shafts must achieve the fire rating from both directions i.e. from inside and outside the shaft.								
			 Roof: The roof of the building does not need an FRL, provided the roof covering is non-combustible (as per the concession in Clause 3.5 of Specification C1.1 of the BCA). 								

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BCA DEEMED-TO-SATISFY PROVISION	COMPLIES	DOES NOT COMPLY	NA or Informational	Compliance Required	COMMENTS	
					 Floors: see clause C2.9. In addition floors require an FRL of 180/180/180. Details demonstrating compliance with this clause must be incorporated into the construction certificate plans / specification (and structural details) 	
C1.2 Calculation of Rise In Storeys			Х		Refer to Section 2.0 of this report for further details	
C1.3 Buildings of Multiple Classifications			Х		Informational. In a building of multiple classifications, the type of construction required for the building is the most fire resisting Type resulting from the application of Table C1.1 on the basis that the classification applying to the top storey applies to all storeys. Separate requirements apply to a Class 4 building.	
C1.4 Mixed Types of Construction			Х		Not applicable. Building will be Type A only	
C1.5 Two Storey Class 2, 3 or 9c buildings			X		Not applicable. Not a two storey Class 2, 3 or 9c building.	
C1.6 Class 4 Parts			Х		Not applicable. No Class 4 Parts.	
C1.7 Open Spectator Stands			Х		Not applicable. No open spectator stands proposed.	
C1.8 Lightweight Construction			Х		 (a) Where it is proposed to use <i>lightweight construction</i> (within the meaning of the BCA) this must comply with Specification C1.8 if it is used in a wall system— 	
					 (i) that is required to have an FRL; or (ii) for a lift shaft, stair shaft or service shaft or an external wall bounding a public corridor including a non fire-isolated passageway or non fire-isolated ramp. 	
					(b) If lightweight construction is used for the fire-resisting covering of a steel column or the like, and if —	
					 the covering is not in continuous contact with the column, then the void must be filled solid, to a height of not less than 1.2 m above the floor to prevent indenting; and 	
					 the column is liable to be damaged from the movement of vehicles, materials or equipment, then the covering must be protected by steel or other suitable material. 	
					Lightweight construction means construction which incorporates or comprises—	
					(a) sheet or board material, plaster, render, sprayed application, or other material similarly susceptible to damage by impact, pressure or abrasion; or	
					(b) concrete and concrete products containing pumice, perlite, vermiculite, or other soft material similarly susceptible to damage by impact, pressure or abrasion; or	
					(c) masonry having a width of less than 70 mm.	

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BCA DEEMED-TO-SATISFY PROVISION	COMPLIES	DOES NOT COMPLY	NA or Informational	Compliance Required	COMMENTS			
					Details demonstrating compliance with this clause must be incorporated into the construction certificate plans / specification			
C1.9			Х		(a) In a building <i>required</i> to be of Type A, the following building elements and their components must be <i>non-combustible</i> :			
Non - combustible building elements					(i) External walls and <i>common walls</i> , including all components incorporated in them including the facade covering, framing and insulation.			
					(ii) The flooring and floor framing of lift pits.			
					(iii) Non-loadbearing internal walls where they are required to be fire-resisting.			
					(b) A shaft, being a lift, ventilating, pipe, garbage, or similar shaft that is not for the discharge of hot products of combustion, that is non-loadbearing, must be of non-combustible construction in—			
					(i) a building <i>required</i> to be of Type A construction; and			
				(c) A loadbearing internal wall and a loadbearing fire wall, including those that are part of a loadbearing shaft, must comply with Specification C1.1.				
					(d) The requirements of (a) and (b) do not apply to gaskets, caulking, sealants, termite management systems, glass including laminated glass, thermal breaks associated with glazing systems, damp-proof courses.			
					(e) The following materials may be used wherever a <i>non-</i> combustible material is required:			
					(i) Plasterboard.			
					(ii) Perforated gypsum lath with a normal paper finish.			
					(iii) Fibrous-plaster sheet.			
					(iv) Fibre-reinforced cement sheeting.			
					(v) Pre-finished metal sheeting having a combustible surface finish not exceeding 1 mm thickness and where the Spread-of-Flame Index of the product is not greater than 0.			
					(vi) Sarking type materials that do not exceed 1mm in thickness and have a Flammability Index not greater than 5.			
					(vii) Bonded laminated materials where—			
					 (A) each lamina, including any core, is non- combustible; and 			
					(B) each adhesive layer does not exceed 1 mm in thickness and the total thickness of the adhesive layers does not exceed 2mm; and			

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BCA DEEMED-TO-SATISFY PROVISION	COMPLIES	DOES NOT COMPLY	NA or Informational	Compliance Required	COMMENTS
					(C) the Spread-of-Flame Index and the Smoke- Developed Index of the bonded laminated material as a whole do not exceed 0 and 3 respectively.
					Details demonstrating compliance with this clause must be incorporated into the construction certificate plans / specification
C1.10 Fire Hazard Properties				Х	 (a) The fire hazard properties of the following internal linings, materials and assemblies must comply with Specification C1.10 by way of test reports / certificates provided from a registered testing authority (within the meaning of the BCA):
					(i) Floor linings and floor coverings.
					(ii) Wall linings and ceiling linings.
					(iii) Air-handling ductwork.
					(iv) Lift cars.
					 (vi) Escalators, moving walkways and non required non fire isolated stairways or pedestrian ramps subject to Specification D1.12.
					(vii) Sarking type materials.
					(viii) Attachments to floors, ceilings, internal walls and the internal linings of external walls.
					 (ix) Other materials including insulation materials other than sarking type materials.
					(c) The requirement s of (a) do not apply to a material or assembly if it is –
					 plaster, cement render, concrete, terrazzo, ceramic tile or the like; or
					(ii) a fire protective covering; or
					(iii) a timber framed window; or
					(iv) a solid timber handrail or skirting; or
					(v) a timber-faced door; or
					(vi) an electrical switch, socket-outlet, cover plate or the like; or
					(vii) a material used –
					 (A) a roof insulating material applied in continuous contact with a substrate; or
					(B) an adhesive; or
					(C) a damp-proof course, flashing, caulking, sealing, ground moisture barrier or the like; or
					(viii) a paint, varnish, lacquer or similar finish, other than nitro- cellulose lacquer; or
					 (ix) a clear or translucent roof light of glass fibre-reinforced polyester if –

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BCA DEEMED-TO-SATISFY PROVISION	COMPLIES	DOES NOT COMPLY	NA or Informational	Compliance Required	COMMENTS		
					 (A) the roof in which is is installed forms part of a single storey building required to be Type C construction; and 		
					(B) the material is used as part of the roof covering; and		
					 (C) it is no closer than 1.5m from another roof light of the same type; and 		
					(D) each roof light is not more than 14m ² in area; and		
					 (E) the area of the roof lights per 70m² of roof surface is not more than 14m² in area; or 		
					Details demonstrating compliance with this clause must be incorporated into the construction certificate plans / specification		
C1.11 Performance of External Walls in Fire			Х		Not applicable. No tilt-up and pre-cast concrete proposed.		
C1.12			Х		Clause deleted.		
C1.13 Fire protected timber: concession			X		Not applicable. No fire protected timber is proposed.		
C1.14 Ancillary elements			Х		An <i>ancillary element</i> must not be fixed, installed or attached to the internal parts or external face of an <i>external wall</i> that is <i>required</i> to be <i>non-combustible</i> unless it is one of the following:		
					(a) An ancillary element that is non-combustible.		
					(b) A gutter, downpipe or other plumbing fixture or fitting.		
					(c) A flashing.		
					(d) A grate or grill not more than 2m ² in an area associated with a building service.		
					(e) An electrical switch, socket outlet, cover plate or the like.		
					(f) A light fitting.		
					(g) A <i>required</i> sign.		
					(h) A sign other than one provided under (a) or (g) that –		
					(i) Achieves a group number 1 or 2; and		
					(ii) Does not extend beyond one storey; and		
					(iii) Does not extend beyond one fire compartment; and		
					(iv) Is separated vertically from other signs permitted under(h) by at least 2 storeys.		
					 An awning, sunshade, canopy , blind or shading hood other than one provided under (a) that – 		
					 Meets the requirements of Table 4 of Specification C1.10 as an internal element; and 		
					(ii) Serves a storey -		

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BCA DEEMED-TO-SATISFY PROVISION	COMPLIES	DOES NOT COMPLY	NA or Informational	Compliance Required	COMMENTS		
					(A) At ground level; or		
					(B) Immediately above a storey at ground level ; and		
					(iii) Does not serve an exit, where it would render the exit unusable in a fire.		
					(j) A part of a security, intercom or announcement system.(k) Wiring.		
					(I) A paint, lacquer or similar finish,		
					(i) A paint, lacquer of similar missi,(m) A gasket, caulking, sealant or adhesive directly associated with (a) to (k).		
					Details demonstrating compliance with this clause must be incorporated into the construction certificate plans / specification		
Part C2 - Compartmenta	tion	& Se	para	tion			
C2.1 Application of Part			X		Informational. C2.2, C2.3 and C2.4 do not apply to a carpark provided with a sprinkler system (other than a FPAA101D or FPAA101H system complying with Specification E1.5, an open-deck carpark or an open spectator stand.		
C2.2 General Floor Area & Volume Limitations	Х				The size of any fire compartment or atrium in a Class 5, 6, 7, 8 or 9 building must not exceed the relevant maximum floor area and maximum volume set out in Table C2.2 & C2.5, except as permitted in C2.3. Details demonstrating compliance with this clause must be incorporated into the construction certificate plans / specification		
C2.3 Large Isolated Buildings			Х		Not applicable. Not a large isolated building.		
C2.4 Requirements for Open Space			Х		Not applicable. Not a large isolated building.		
C2.5 Class 9a & 9c Buildings			Х		Not applicable. Not a Class 9a or 9c building.		
C2.6 Vertical Separation of openings in external walls			Х		Not applicable. Building is Type B construction.		
C2.7 Separation by Fire Walls		Х			(a) Construction – a fire wall must be constructed in accordance with the following:		
					(i) The fire wall has the relevant FRL prescribed by Specification C1.1 for each of the adjoining parts, and if these are different, the greater FRL; except where Tables 3.9, 4.2 and 5.2 of Specification C1.1 permit a lower FRL on the carpark side.		
					 (ii) Any openings in the fire wall must not reduce the FRL required by SpecificationC1.1 for the fire wall, except 		

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BCA DEEMED-TO-SATISFY PROVISION	COMPLIES	DOES NOT COMPLY	NA or Informationa	Compliance Required			COMMENTS
							where permitted by the Deemed-to-Satisfy Provisions of Part C3.
						(iii)	Building elements, other than roof battens with dimensions of 75 mm x 50 mm or less or sarking-type material, must not pass through or cross the fire wall unless the required fire resisting performance of the fire wall is maintained.
					(b)	the a se	baration of buildings – a part of a building separated from remainder of the building by a fire wall may be treated as eparate building for the DTS provisions of Sections C, D & it is constructed in accordance with (a) and the following:
						(i)	The fire wall extends through all storeys and spaces in the nature of storeys that are common to that part and any adjoining part of the building.
						(ii)	The fire wall is carried through to the underside of the roof covering.
						(iii)	Where the roof of one of the adjoining parts is lower than the roof of the other part, the fire wall extends to the underside of $-$
							 (A) The covering of the higher roof, or not less than 6m above the covering of the lower roof; or
						(B) The lower roof if it has an FRL not less than that of a fire wall and no openings closer than 3m to any wall above the lower roof; or	
							(C) The lower roof if its covering is non combustible and the lower part has a sprinkler system (other than a FPAA101D or FPAA101H system complying with Specification E1.5.
					(c)	sep may con	baration of fire compartments – a part of a building arated from the remainder of the building by a fire wall be treated as a separate fire compartment if it is structed in accordance with (a) and the fire wall extends the underside of –
						(i)	A floor having an FRL required for a fire wall; or
					Dotai	(ii) Is du	The roof covering. emonstrating compliance with this clause must be
					incor speci	pora ificat	nted into the construction certificate plans / tion
C2.8 Separation of				Х			ng containing different classifications located alongside in the same storey -
Classifications in the same storey					(a)	pres	h building element in that storey must have the higher FRL scribed in Specification C1.1 for that element for the sifications concerned; or
					(b)	the	parts must be separated in that storey by a fire wall having
						(i)	the higher FRL prescribed in Table 3or 4; or

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BCA DEEMED-TO-SATISFY PROVISION	COMPLIES	DOES NOT COMPLY	NA or Informational	Compliance Required	COMMENTS
					 (ii) the FRL prescribed in Table 5, Specification C1.1, for that element for the Type of construction and classification concerned; or
					 (c) where one part is a carpark complying with Table 3.9, 4.2 or 5.2 of Specification C1.1, the parts may be separated by a fire wall complying with the appropriate table.
					Details demonstrating compliance with this clause must be incorporated into the construction certificate plans / specification
C2.9				Х	If parts of different classification are situated one above the other in adjoining storeys they must be separated as follows –
Separation of Classifications in different storeys					 (a) Type A construction - the floor between the adjoining parts must have an FRL of not less than that prescribed in Specification C1.1 for the classification of the lower storey.
					Details demonstrating compliance with this clause must be incorporated into the construction certificate plans / specification
C2.10			Х		Not applicable. No lifts proposed.
Separation of lifts shafts					
C2.11 Stairways and lifts in one shaft			Х		Not applicable. No lifts proposed.
C2.12				Х	Not applicable. The following equipment is not proposed.
Separation of Equipment					(i) lift motors and lift control panels or
					(ii) Emergency generators used to sustain emergency equipment operating in the emergency mode; or
					(iii) Central smoke control plant; or
					(iv) Boilers; or
					(v) A battery system installed in that building that has a total voltage of 12 volts or more and a storage capacity of 200kWh or more.
C2.13 Electrical Supply			X		Not applicable. An electricity sub-station or a main switchboard is not proposed.
C2.14			Х		Not applicable. No Class 2 or 2 parts proposed
Public corridors in Class 2 & 3 Buildings			^		Not applicable. No Class 2 or 3 parts proposed.
Part C3 - Protection of O	peni	ings			
C3.1			Х		Informational.
Application of Part					(a) The DTS provisions of this Part do not apply to-
					 Control joints, weep holes and the like in external walls of masonry construction and joints between panels in external walls of pre -cast concrete panel construction if,

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BCA DEEMED-TO-SATISFY PROVISION	COMPLIES	DOES NOT COMPLY	NA or Informational	Compliance Required			COMMENTS
							in all cases they are not larger than necessary for the purpose; and
						i i i i i i i i i i i i i i i i i i i	Non-combustible ventilators for subfloor or cavity ventilation, if each does not exceed 45000m in face area and spaced not less than 2m from any other ventilator in the same wall; and
						(Openings in the vertical plane formed between building elements at the construction edge or perimeter of a balcony or verandah, colonnade, terrace, or the like and
						(iv) l	In a carpark –
						((A) Service penetrations through; and
							(B) Openings formed by a vehicle ramp in, a floor other than a floor that separates a part not uses as a carpark, providing the connected floors comply as a single fire compartment for the purposes of all other requirements of the DTS provisions of Sections C, D & E.
					(b)	buildi doorv pane	he purposes of DTS provisions of this Part, openings in ing elements required to be fire resisting include ways, windows (including any associated fanlight), infill Is and fixed or openable glazed areas that do not have equired FRL.
					(c)	other eleme forme	the purposes of the DTS provisions of this part, openings than those covered under (a)(iii), between building ents such as columns, beams and the like, in the plane ed at the construction edge of the perimeter of the ing, are deemed to openings in the external wall.
C3.2 Protection of openings in		Х			(a)		nings in an external wall that is required to have an FRL be protected in accordance with C3.4:
external walls							if the distance between the opening and the fire-source feature is less than 3 m from a side or rear boundary; or
						(less than 6 m from the far boundary of a road, river, lake or the like adjoining the allotment, if not located in a storey at or near ground level; or
						· · ·	less than 6 m from another building on the allotment that is not Class 10;
							Il wetting sprinklers are to be used they are to be located mally.
					(b)	1/3 of locate	uired to be protected under (a), not occupy more than f the area of the external wall of the storey in which it is ed unless they are in a Class 9b building used as an spectator stand.
					DTS I	non-co	ompliance
					the a	llotme	ing existing and proposed openings in the walls at ent boundary are not protected in accordance with e C3.4.
							nmended this is addressed by a Fire Engineered ce Solution.

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First Floor





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BCA DEEMED-TO-SATISFY PROVISION	COMPLIES	DOES NOT COMPLY	NA or Informational	Compliance Required	COMMENTS
					(c) The automatic closing operation required by (b) must be initiated by the activation of a smoke detector, or any other detector deemed suitable in accordance with AS1670.1 if smoke detectors are unsuitable in the atmosphere, installed in accordance with AS1670.1 and located on each side of the fire wall not more than 1.5m horizontal distance from the opening.
					(d) Where any other required suitable fire alarm system, including a sprinkler system (other than a FPAA101D) complying with Specification E1.5, is installed in the building, activation of the system in either fire compartment separated by the fire wall must also initiate the automatic closing operation.
					Details demonstrating compliance with this clause must be incorporated into the construction certificate plans / specification
C3.6 Sliding Fire Doors			Х		Not applicable. No sliding fire doors are proposed or required.
C3.7 Protection of Doorways in horizontal exits			Х		Not applicable. No horizontal exits proposed or required.
C3.8 Openings in fire isolated exits				Х	 (a) Doorways that open into fire-isolated stairways, fire-isolated passageways or fire isolated ramps, and are not doorways opening to a road or open space, must be protected by -/60/30 fire doors that are self-closing, or automatic closing in accordance with (b) and (c).
					(i) The automatic-closing operation must be initiated by the activation of a smoke detector, or any other detector deemed suitable in accordance with AS1670.1 if smoke detectors are unsuitable in the atmosphere, installed in accordance with AS1670.1 and located on each side of the fire wall not more than 1.5m horizontal distance from the approach side of the doorway.
					(ii) Where any other required suitable fire alarm system, including a sprinkler system (other than a FPAA101D) complying with Specification E1.5, is installed in the building, activation of the system in either fire compartment separated by the fire wall must also initiate the automatic closing operation.
					(b) A window in an external wall of a fire isolated stairway, fire isolated passageway or fire isolated ramp must be protected in accordance with C3.4 if it is within 6m of, and exposed to, a window or other opening in a wall of the same building, other than in the same fire-isolated enclosure.
					Stairway connecting Ground Level and Level 1 is designed to be fire-isolating.

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BCA DEEMED-TO-SATISFY PROVISION	COMPLIES	DOES NOT COMPLY	NA or Informational	Compliance Required	COMMENTS
					Image: constraining compliance with this clause must be incorporated into the construction certificate plans /
C3.9 Service Penetrations in fire-isolated exits				X	 Fire-isolated exits must not be penetrated by any services other than – (a) electrical wiring permitted by D2.7(e) to be installed in the exit; or (b) ducting associated with a pressurisation system if it – (i) is constructed of material having an FRL of not less than -/120/60 where it passes through any other part of the building; and (ii) Does not open into any other part of the building; or (c) Water supply pipes for fire services. Details demonstrating compliance with this clause must be incorporated into the construction certificate plans / specification
C3.10 Openings in Fire isolated lift shafts			Х		Not applicable. No lift shafts proposed or required.
C3.11 Bounding Construction: Class 2, 3 buildings and Class 4 Parts.			Х		Not applicable. No residential parts proposed.
C3.12 Openings in floors and ceilings for services				Х	Where services pass through a floor which is required to achieve a FRL or a ceiling required to have a RISF, the service must be enclosed within a fire resisting shaft or fire protected in accordance with Clause C3.15. Details demonstrating compliance with this clause must be
C3.13 Openings in Shafts				X	incorporated into the construction certificate plans / specification

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BCA DEEMED-TO-SATISFY PROVISION	COMPLIES	DOES NOT COMPLY	NA or Informational	Compliance Required	COMMENTS
					Details demonstrating compliance with this clause must be incorporated into the construction certificate plans / specification
C3.15 Openings for Service Installations				Х	Where services pass through an element which is required to achieve a FRL (other than an external wall or roof), the service must be fire stopped by a tested system or Specification C3.15.
					Details demonstrating compliance with this clause must be incorporated into the construction certificate plans / specification
C3.16 Construction Joints				Х	Construction joints, spaces and the like in and between building elements required to be fire-resisting with respect to integrity and insulation must be protected in a manner identical with a prototype tested in accordance with AS 1530.4 to achieve the required FRL.
					The requirements above do not apply where joints, spaces and the like between fire protected timber elements are provided with cavity barriers in accordance with Specification C1.13.
					Details demonstrating compliance with this clause must be incorporated into the construction certificate plans / specification
C3.17 Columns protected in lightweight construction to achieve an FRL			Х		Any column protected by lightweight construction to achieve an FRL which passes through a building element that is required to have an FRL or a resistance to the incipient spread of fire, must be installed using a method and materials identical with a prototype assembly of construction which has achieved the required FRL or resistance to the incipient spread of fire.
					Details demonstrating compliance with this clause must be incorporated into the construction certificate plans / specification

SECTION D ACCESS & EGRESS

Part D1 - Provision for Escape

Fait DI - FIOVISIONI IOI E	Scap			
D1.1			Х	Informational.
Application of Part				The DTS provisions of this Part do not apply to the internal parts of a sole occupancy unit in a Class 2 or 3 building or Class 4 part of a building.
D1.2 Number of exits required	Х			 (a) All buildings — Every building must have at least one exit from each storey.
·			(g) Access to exits — Without passing through another sole- occupancy unit every occupant of a storey or part of a storey must have access to—	
				(i) an exit; or
				(ii) at least 2 exits, if 2 or more exits are required.
				Details demonstrating compliance with this clause must be incorporated into the construction certificate plans / specification

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Ground Floor



Level 1

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BCA DEEMED-TO-SATISFY PROVISION	COMPLIES	DOES NOT COMPLY	NA or Informational	Compliance Required	COMMENTS
D1.3 When Fire Isolated exits				Х	(b) Class 5, 6, 7, 8 or 9 buildings — Every stairway or ramp serving as a required exit must be fire-isolated unless—
are required					 (iii) in any other case, it connects, passes through or passes by not more than 2 consecutive storeys and one extra storey of any classification may be included if—
					 (A) the building has a sprinkler system (other than a FPAA101D system) complying with Specification E1.5 installed throughout; or
					(B) the required exit does not provide access to or egress for, and is separated from, the extra storey by construction having—
					(aa) an FRL of –/60/60, if non-loadbearing; and
					(bb) an FRL of 90/90/90 for Type A construction or 60/60/60 for Type B or C construction, if loadbearing; and
					(cc) no opening that could permit the passage of fire or smoke.
					The proposed stairway connecting Ground Floor and Level 1 is not required to be fire-isolated.
					CILICIENT WELL PATTON CILICIENT WELL PATTON CILICIENT WELL CILICIENT OFFICE CILICIENT WELL CILICIENT OFFICE CILICIENT WELL CILICIENT OFFICE CILICIENT OFFICE
					Details demonstrating compliance with this clause must be incorporated into the construction certificate plans / specification
D1.4	Х				(c) Class 5, 6, 7, 8 or 9 buildings — Subject to (d), (e) and (f)—
Exit Travel Distances					 no point on a floor must be more than 20 m from an exit, or a point from which travel in different directions to 2 exits is available, in which case the maximum distance to one of those exits must not exceed 40 m; and
					 (ii) in a Class 5 or 6 building, the distance to a single exit serving a storey at the level of access to a road or open space may be increased to 30 m.
					Ground floor & Level 01 complies.
					Details demonstrating compliance with this clause must be incorporated into the construction certificate plans / specification

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BCA DEEMED-TO-SATISFY PROVISION	COMPLIES	DOES NOT COMPLY	NA or Informational	Compliance Required	COMMENTS
					(g) the unobstructed width of a required exit must not diminish in the direction of travel to a road or open space, except where the width is increased in accordance with (b)(ii) or (f)(i); and
					(h) the required width of a stairway or ramp must—
					 be measured clear of all obstructions such as handrails, projecting parts of balustrades or other barriers and the like; and
					 (ii) extend without interruption, except for ceiling cornices, to a height not less than 2 m vertically above a line along the nosings of the treads or the floor surface of the ramp or landing.
					 to determine the aggregate unobstructed width, the number of persons accommodated must be calculated according to D1.13;
					The aggregate egress width permits a total of 380 persons to occupy Level 1. D1.13 assessment calculates the expected occupant numbers to be 285. Building complies.



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BCA DEEMED-TO-SATISFY PROVISION	COMPLIES	DOES NOT COMPLY	NA or Informational	Compliance Required	COMMENTS
					 (c) Where a path of travel from the point of discharge of a fire-isolated exit necessitates passing within 6 m of any part of an external wall of the same building, measured horizontally at right angles to the path of travel, that part of the wall must have— (i) an FRL of not less than 60/60/60; and (ii) any openings protected internally in accordance with C3.4, for a distance of 3 m above or below, as appropriate, the level of the path of travel, or for the height of the wall, whichever is the lesser. (d) If more than 2 access doorways, not from a sanitary compartment or the like, open to a required fire-isolated exit in the same storey— (i) a smoke lobby in accordance with D2.6 must be provided; or
					(ii) the exit must be pressurised in accordance with AS/NZS 1668.1.
					Assessment of discharge into a covered space. Image: Assessment of discharge into the construction certificate plans / specification.
D1.8 External Stairways or ramps in lieu of Fire Isolated Stairs			Х		Not applicable. No external stairways proposed in in lieu of fire- isolated stairways.
D1.9 Travel by non-fire- isolated stairs	X				 (a) A non-fire-isolated stairway or non-fire-isolated ramp serving as a required exit 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. (c) In a Class 5, 6, 7, 8 or 9 building, the distance from any point on a floor to a point of egress to a road or open space by way of a required non-fire-isolated stairway or non-fire-isolated ramp must not exceed 80 m.

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BCA DEEMED-TO-SATISFY PROVISION	COMPLIES	DOES NOT COMPLY	NA or Informational	Compliance Required	COMMENTS
					(e) In a Class 5 to 8 or 9b building, a required non-fire-isolated stairway or non-fire-isolated ramp must discharge at a point not more than—
					 (i) 20 m from a doorway providing egress to a road or open space or from a fire isolated passageway leading to a road or open space; or
					 40 m from one of 2 such doorways or passageways if travel to each of them from the non-fire-isolated stairway or non-fire-isolated ramp is in opposite or approximately opposite directions.
					Details demonstrating compliance with this clause must be incorporated into the construction certificate plans / specification
D1.10 Discharge from Exits				Х	 (a) An exit must not be blocked at the point of discharge and where necessary, suitable barriers must be provided to prevent vehicles from blocking the exit, or access to it.
					(b) If a required exit leads to an open space, the path of travel to the road must have an unobstructed width throughout of not less than—
					(i) the minimum width of the required exit;
					(ii) or 1 m,
					whichever is the greater.
					(c) If an exit discharges to open space that is at a different level than the public road to which it is connected, the path of travel to the road must be by—
					 (i) a ramp or other incline having a gradient not steeper than 1:8 at any part, or not steeper than 1:14 if required by the Deemed-to-Satisfy Provisions of Part D3; or
					 except if the exit is from a Class 9a building, a stairway complying with the Deemed-to-Satisfy Provisions of the BCA.
					(d) The discharge point of alternative exits must be located as far apart as practical.
					(g) The number of persons accommodated must be calculated according to D1.13.
					Details demonstrating compliance with this clause must be incorporated into the construction certificate plans / specification
D1.11 Horizontal Exits			Х		Not applicable. No horizontal exits proposed or required.
D1.12 Non-required stairways, ramps or escalators			Х		Not applicable. No escalator, moving walkway, non-required non- fire-isolated stairway or pedestrian ramp are proposed.
D1.13			Х		Informational.
Number of Persons Accommodated					For the purpose of the Deemed-to-Satisfy provisions, the number of persons accommodated in a storey, room or mezzanine must be

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Ground Floor

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BCA DEEMED-TO-SATISFY PROVISION	COMPLIES	DOES NOT COMPLY	NA or Informational	Compliance Required	COMMENTS
					(b) Subject to (d), the distance from the doorway of a sole occupancy unit in a Class 2 or 3 building is measured in a straight line to the nearest part of the required single exit or point from which travel in different directions to 2 required exits is available.
					(c) Subject to (d), the distance between exits is measured in a straight line between the nearest parts of those exits.
					 (d) Only the shortest distance is taken along a corridor, hallway, external balcony or other path of travel that curves or changes direction.
					(e) If more than one corridor, hallway, or other internal path of travel connects required exits, for the purposes of D1.5(c) the measurement is along the path of travel through the point at which travel in different directions to those exits is available, as determined in accordance with D1.4.
					(f) If a wall (including a demountable internal wall) that does not bound –
					(i) A room; or
					 (ii) A corridor, hallway or the like, causes a change in direction in proceeding to a required exit, the distance is measured along the path of travel past the wall.
					 (iii) If permanent fixed seating is provided, the distance is measured along the path of travel between the rows of seats.
					 (iv) In the case of a non-fire isolated stairway or non-fire isolated ramp, the distance is measured along a line connecting the nosings of the treads, along the slope of the ramp, together with the distance connecting those lines across any intermediate landing.
D1.16			Х		Not applicable. No plant proposed.
Plant Rooms and lift Motor Rooms: Concession					
D1.17 Access to lift pits			Х		Not applicable .No lift proposed.
Part D2 - Construction o	f Exi	ts			
D2.1 Application of Part			X		Except for D2.13, D2.14 (a), D2.16, D2.17(d), D2.17(e) and D2.18, the Deemed-to-Satisfy Provisions of this Part do not apply to the internal parts of the Class 2 sole-occupancy units. Note NSW D2.1 (entertainment venues)
D2.2 Fire-Isolated stairways				Х	A stairway or ramp (including any landings) that is required to be in a fire resisting shaft must be constructed –
and ramps					(a) Of non-combustible materials; and
					(b) So that if there is local failure it will not cause structural damage to or impair the fire resistance of the shaft.

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BCA DEEMED-TO-SATISFY PROVISION	COMPLIES	DOES NOT COMPLY	NA or Informational	Compliance Required	COMMENTS
					Details demonstrating compliance with this clause must be incorporated into the construction certificate plans / specification (and structural details)
D2.3 Non-fire Isolated stairways and ramps				Х	In a building having a rise in storeys of more than 2, required stairs and ramps (including any landings and any supporting building elements) which are not required to be within a fire resisting shaft, must be constructed according to D2.2, or only of -
					(a) reinforced or prestressed concrete; or
					(b) steel in no part less than 6 mm thick; or
					(c) timber that—
					(i) has a finished thickness of not less than 44 mm; and
					 has an average density of not less than 800 kg/m₃ at a moisture content of 12%; and
					(iii) has not been joined by means of glue unless it has been laminated and glued with resorcinol formaldehyde or resorcinol phenol formaldehyde glue".
					Details demonstrating compliance with this clause must be incorporated into the construction certificate plans / specification
D2.4 Separation of Rising and Descending Stairs			Х		Not applicable. No rising stairway.
D2.5 Open Access ramps and balconies			Х		Not applicable. No open access ramps or balconies provided to meet the smoke hazard management requirements proposed or required.
D2.6 Smoke Lobbies			Х		Not applicable. No smoke lobbies required by D1.7 proposed.
D2.7 Installations in Exits and Paths of Travel				Х	(a) Access to service shafts and services other than to fire- fighting or detection equipment as permitted in the Deemed- to-Satisfy Provisions of Section E, must not be provided from a fire-isolated stairway.
					(b) An opening to any chute or duct intended to convey hot products of combustion from a boiler, incinerator, fireplace or the like must not be located in any part of a required exit or any corridor, hallway, lobby or the like leading to a required exit.
					 (c) Gas or other fuel services must not be installed in a required exit
					(d) Services or equipment comprising –
					(i) Electricity meters, distribution boards or cuts; or
					 (ii) Central telecommunications distribution boards or equipment; or
					(iii) Electrical motors or other motors service equipment in the building,

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BCA DEEMED-TO-SATISFY PROVISION	COMPLIES	DOES NOT COMPLY	NA or Informational	Compliance Required	COMMENTS
					May be installed in –
					 (x) A required exit, except for fire-isolated exits specified in (a); or
					(xi) In any corridor, hallway, lobby or the like leading to a required exit,
					If the services or equipment are enclosed by non-combustible construction or a fire-protective covering with doorways or openings suitably sealed against smoke spreading from the enclosure
					 (e) Electrical wiring may be installed in a fire-isolated exit if the wiring is associated with;
					 A lighting, detection, or pressurization system serving the exit; or
					 (ii) A security, surveillance or management system serving the exit; or
					(iii) An intercommunication system or an audible or visual alarm system in accordance with D2.22; or
					(iv) The monitoring of hydrant or sprinkler isolating valves.
					Details demonstrating compliance with this clause must be incorporated into the construction certificate plans / specification
D2.8 Enclosure of Space Under Stairs and ramps			X		Not applicable. No enclosure under stairways.
D2.9 Width of Stairs			Х		Not applicable. Stairways are not required to be more then 2m.
D2.10 Pedestrian Ramps			Х		Not applicable. No pedestrian ramps proposed.
D2.11 Fire-Isolated Passageways			X		Not applicable. No fire-isolated passageway proposed.
D2.12 Roof as Open Space			Х		Not applicable. No discharge onto a roof proposed.
D2.13				Х	(a) A stairway must have—
Goings & Risers					 not more than 18 and not less than 2 risers in each flight; and
					(ii) going (G), riser (R) and quantity (2R + G) in accordance with Table D2.13, except as permitted by (b) and (c); and
					 (iii) constant goings and risers throughout each flight, except as permitted by (b) and (c), and the dimensions of goings (G) and risers (R) in accordance with (a)(ii) are considered constant if the variation between—
					(A) adjacent risers, or between adjacent goings, is no greater than 5 mm; and

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BCA DEEMED-TO-SATISFY PROVISION	COMPLIES	DOES NOT COMPLY	NA or Informational	Compliance Required	COMMENTS
					(B) the largest and smallest riser within a flight, or the largest and smallest going within a flight, does not exceed 10 mm; and
					 (iv) risers which do not have any openings that would allow a 125 mm sphere to pass through between the treads; and
					(v) treads which have—
					 (A) a surface with a slip-resistance classification not less than that listed in Table D2.14 when tested in accordance with AS 4586; or
					 (B) a nosing strip with a slip-resistance classification not less than that listed in Table D2.14 when tested in accordance with AS 4586; and
					 (vi) treads of solid construction (not mesh or other perforated material) if the stairway is more than 10 m high or connects more than 3 storeys; and
					(c) Where a stairway discharges to a sloping public walkway or public road—
					 the riser (R) may be reduced to account for the slope of the walkway or road; and
					(ii) the quantity (2R+G) may vary at that location.
					Details demonstrating compliance with this clause must be incorporated into the construction certificate plans / specification
D2.14				Х	In a stairway
Landings					(a) Landings having a maximum gradient of 1:50 may be used in any building to limit the number of risers in each flight and each landing must –
					 Be not less than 750 mm long, and where this involves a change in direction, the length is measured 500 mm from the inside edge of the landing; and
					(ii) Have –
					 (A) A surface with a slip-resistance classification not less than that listed in Table D2.14 when tested in accordance with AS4586; or
					(B) A strip at the edge of the landing with a slip- resistance classification not less than that listed in Table D2.14 when tested in accordance with AS4586, where the edge leads to a flight below; and
					Details demonstrating compliance with this clause must be incorporated into the construction certificate plans / specification
D2.15 Thresholds				Х	The threshold of a doorway must not incorporate a step or ramp at any point closer to the doorway than the width of the door leaf unless—

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BCA DEEMED-TO-SATISFY PROVISION	COMPLIES	DOES NOT COMPLY	NA or Informational	Compliance Required	COMMENTS
					(c) in a building required to be accessible by Part D3, the doorway—
					(i) opens to a road or open space; and
					(ii) is provided with a threshold ramp or step ramp in accordance with AS 1428.1; or
					(e) in other cases—
					 the doorway opens to a road or open space, external stair landing or external balcony; and
					 the door sill is not more than 190 mm above the finished surface of the ground, balcony, or the like, to which the doorway opens.
					Details demonstrating compliance with this clause must be incorporated into the construction certificate plans / specification
D2.16 Balustrades and other Barriers Note NSW D2.16			Х		Not applicable. No balustrades proposed or required.
D2.17				Х	
Handrails					 (a) Except for handrails referred to in D2.18, handrails must be (i) leasted clong at least one side of the ramp or flight, and
					(i) located along at least one side of the ramp or flight; and
					(iii) located along each side if the total width of the stairway or ramp is 2 m or more; and
					 (iv) in any other case, fixed at a height of not less than 865 mm measured above the nosings of stair treads and the floor surface of the ramp, landing, or the like; and
					 (v) continuous between stair flight landings and have no obstruction on or above them that will tend to break a hand-hold; and
					(vi) in a required exit serving an area required to be accessible, designed and constructed to comply with clause 12 of AS 1428.1, except that clause 12(d) does not apply to a handrail required by (a)(iii)(B).
					(c) Handrails required to assist people with a disability must be provided in accordance with D3.3.
					Details demonstrating compliance with this clause must be incorporated into the construction certificate plans / specification.
D2.18 Fixed Platforms, walkways and ladders			Х		Not applicable. No fixed platform, walkway, stairway, ladder and any going and riser, landing, handrail or barrier attached thereto may comply with AS1657 proposed or required.
D2.19 Doorways & Doors				Х	(b) A doorway serving as a require exit or forming part of a required exit –
					(i) Must not be fitted with a revolving door; and

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BCA DEEMED-TO-SATISFY PROVISION	COMPLIES	DOES NOT COMPLY	NA or Informational	Compliance Required	COMMENTS
					 (ii) Must not be fitted with a roller shutter or tilt-up door unless –
					 (A) It serves a Class 6, 7 or 8 building or part with a floor area not more than 200m²; and
					 (B) The doorway is the only required exit from the building or part; and
					(C) It is held in the open position while the building or part is lawfully occupied; and
					(iii) Must not be fitted with a sliding door unless –
					(A) It leads directly to a road or open space; and
					(B) The door is able to be opened manually under a force of not more than 110 N; and
					(iv) If fitted with a door which is power-operated –
					 (A) It must be able to be opened manually under a force of not more than 110 N if there is a malfunction or failure of the power source; and
				(B) If it leads directly to a road or open space it must open automatically if there is a power failure to the door or on the activation of a fire or smoke alarm anywhere in the fire compartment served by the door.	
					(c) A power-operated door in a path of travel to a required exit must be able to open manually under a force of not more than 110 N if there is a malfunction or failure of the power source.
					Details demonstrating compliance with this clause must be incorporated into the construction certificate plans / specification.
D2.20 Swinging Doors				Х	A swinging door in a required exit or forming part of a required exit –
					(a) Must not encroach –
					 (i) At any part of its swing by more than 500mm of the require width (including any landings) of a required –
					(A) Stairway; or
					(B) Ramp; or
					(C) Passageway,
					If it is likely to impede the path of travel of the people already using the exit; and
					(ii) When fully open, by more than 100 mm on the required width of the required exit, and
					The measurement of encroachment in each case is to include door handles or other furniture or attachments to the door; and
					(b) Must swing in the direction of egress unless
					 (i) It serves a building part with a floor area not more than 200m², it is the only required exit from the building part

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BCA DEEMED-TO-SATISFY PROVISION	COMPLIES	DOES NOT COMPLY	NA or Informational	Compliance Required	COMMENTS
					and it is fitted with a device for holding it in the open position; or
					(ii) It serves a sanitary compartment or airlock (in which case it may swing in either direction; and
					(c) Must not otherwise impede the path or direction of egress.
					Details demonstrating compliance with this clause must be incorporated into the construction certificate plans / specification.
D2.21 Operation of Latch				Х	 (a) A door in a required exit, forming part of a required exit or in the path of travel to a required exit must be readily openable without a key from the side that faces a person seeking egress by –
					 A single hand downward action or pushing action on a single device which is located between 900mm and 1.1 m from the floor and if serving an area required to be accessible by Part D3 –
					 (A) be such that the hand of a person who cannot grip will not slip from the handle during the operation of the latch; and
					(B) have a clearance between the handle and the back plate or door face at the center grip section of the handle of not less than 35mm and not more than 45mm; or
					 (ii) a single hand pushing action on a single device which is located between 900mm and 1.2m from the door; and
					 (iii) where the latch operation device referred to in (ii) is not located on the door leaf itself –
					 (A) manual controls to power operated doors must be at least 25mm wide, proud of the surrounding surface and located –
					(aa) not less than 500mm from an internal corner; and
					(bb) for a hinged door, between 1m and 2m from the door leaf in any position; and
					(cc) for a sliding door, within 2m of the doorway and clear of a surface mounted door in the open position.
					(B) Braille and tactile signage complying with Clause 3 and 6 of Specification D3.6 must identify the latch operation device.
					(iii) Serves –
					(D) By hand by a person or persons, specifically nominated by the owner, properly instructed as to the duties and responsibilities involved and available at all times when the building is lawfully

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BCA DEEMED-TO-SATISFY PROVISION	COMPLIES	DOES NOT COMPLY	NA or Informational	Compliance Required	COMMENTS
			-		occupied so that persons in the building or part may immediately escape if there is a fire; or
					 (iv) Is fitted with a fail-safe device which automatically unlocks the door upon the activation of any sprinkler system (other than a FPAA101D system) complying with Specification E1.5, or smoke, or any other detector system deemed suitable in accordance with AS1670.1 installed throughout the building, and is readily operable when unlocked; or
					Details demonstrating compliance with this clause must be incorporated into the construction certificate plans / specification
D2.22			Х		Not applicable. Proposed is not a
Re-entry from Fire					(i) In a Class 9a health care building.
isolated exits					(ii) In a Class 9c building.
					 (iii) In a fire-isolated exit serving any storey above an effective height of 25m, throughout the exit.
D2.23 Signs on Doors				Х	 (a) A sign, to alert persons that the operation of certain doors must not be impaired, must be installed where it can readily be seen on, or adjacent to—
					(i) a required—
					 (A) fire door providing direct access to a fire-isolated exit,
					(ii) a—
					(C) door leading from a fire isolated exit to a road or open space, on each side of the door.
					 (b) A sign referred to in (a) must be in capital letters not less than 20 mm high in a colour contrasting with the background and state—
					 (i) for an automatic door held open by an automatic hold- open device—
					"FIRE SAFETY DOOR—DO NOT OBSTRUCT"; or
					(ii) for a self-closing door—
					"FIRE SAFETY DOOR DO NOT OBSTRUCT DO NOT KEEP OPEN"; or
					(iii) for a door discharging from a fire-isolated exit—
					"FIRE SAFETY DOOR—DO NOT OBSTRUCT" .
					Details demonstrating compliance with this clause must be incorporated into the construction certificate plans / specification
D2.24 Protection of openable windows			Х		Not applicable. Not a Class 2, 3 or 9b building.

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BCA DEEMED-TO-SATISFY PROVISION	COMPLIES	DOES NOT COMPLY	NA or Informational	Compliance Required	COMMENTS
					A continuous accessible path of travel shall not include a step, stairway, turnstile, revolving door, escalator, moving walk or other impediment.
					This can be addressed by a Performance Solution.
D3.2 Access to buildings			Х		 (a) An accessway must be provided to a building required to be accessible— (i) from the main points of a pedestrian entry at the allotment boundary; and (ii) from another accessible building connected by a pedestrian link; and (iii) from any required accessible carparking space on the allotment. (b) In a building required to be accessible, an accessway must be provided through the principal pedestrian entrance, and— (i) through not less than 50% of all pedestrian entrances including the principal pedestrian entrance; and (ii) in a building with a total floor area more than 500 m2, a pedestrian entrance which is not accessible must not be located more than 50 m from an accessible pedestrian entrance, except for pedestrian entrances serving only areas exempted by D3.4. Details demonstrating compliance with this clause must be incorporated into the construction certificate plans / specification



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NB. The concession provided by D3.3 cannot be applied as Level 01 is greater than 200m2. The Guide explains "The exemption states that if the size of each storey (other than the entrance level) is less than 200m2 access via a passenger lift of ramp complying with AS 1428.1 is not required to the other levels."

D3.4 Exemptions	Х		Information relevant to parts of buildings that are not required to be accessible.	
D3.5 Carparking	Х		Not applicable. No carparking proposed.	
D3.6		Х	In a building required to be accessible—	
Signage			(a) braille and tactile signage complying with Specification D3.6 must—	
			(i) incorporate the international symbol of access or deafness, as appropriate, in accordance with AS 1428.1 and identify each—	
			(A) sanitary facility, and	
			(ii) identify each door required by E4.5 to be provided with an exit sign and state—	
			(A) "Exit"; and	
			(B) "Level"; and either	
			(aa) the floor level number; or	
			(bb) a floor level descriptor; or	
			(cc) a combination of (aa) and (bb); and	

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BCA DEEMED-TO-SATISFY PROVISION	COMPLIES	DOES NOT COMPLY	NA or Informational	Compliance Required	COMMENTS
					 (b) signage including the international symbol for deafness in accordance with AS 1428.1 must be provided within a room containing a hearing augmentation system identifying— (i) the type of hearing augmentation; and (ii) the area covered within the room; and (iii) if receivers are being used and where the receivers can be obtained; and (c) signage in accordance with AS 1428.1 must be provided for accessible unisex sanitary facilities to identify if the facility is suitable for left or right handed use; and (d) signage to identify an ambulant accessible sanitary facility in accordance with AS 1428.1 must be located on the door of the facility; and (e) where a pedestrian entrance is not accessible, directional signage incorporating the international symbol of access, in accordance with AS 1428.1 must be provided to direct a person to the location of the nearest accessible pedestrian entrance. Details demonstrating compliance with this clause must be incorporated into the construction certificate plans / specification
D3.7			Х		Not applicable.
Hearing augmentation D3.8 Tactile indicators				X	 (a) 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 that they are approaching— (i) a stairway, other than a fire-isolated stairway; and (ii) an escalator; and (iii) a passenger conveyor or moving walk; and (iv) a ramp other than a fire-isolated ramp, step ramp, kerb ramp or swimming pool ramp; and (v) in the absence of a suitable barrier— (A) an overhead obstruction less than 2 m above floor level, other than a doorway; and (B) an accessway meeting a vehicular way adjacent to any pedestrian entrance to a building, excluding a pedestrian entrance serving an area referred to in D3.4, if there is no kerb or kerb ramp at that point, except for areas exempted by D3.4. (b) Tactile ground surface indicators required by (a) must comply with sections 1 and 2 of AS/NZS 1428.4.1. Details demonstrating compliance with this clause must be incorporated into the construction certificate plans / specification
D3.9 Wheelchair seating spaces in Class 9b assembly buildings			Х		Not applicable. Not a Class 9b building.
D3.10			Х		Not applicable. No swimming pool.

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BCA DEEMED-TO-SATISFY PROVISION	COMPLIES	DOES NOT COMPLY	NA or Informational	Compliance Required	COMMENTS		
Swimming Pools							
D3.11			Х		Not applicable. No ramps proposed.		
Ramps							
D3.12 Glazing on an accessway				Х	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.		
					Details demonstrating compliance with this clause must be incorporated into the construction certificate plans / specification		
SECTION SERVICES & EQUIPMEN	SECTION E						

Part E1	- Fire	Fighting	Equipment

E1.3		Х	(a)	A h	ydrant system must be provided to serve a building –
Fire Hydrants				(i)	Having a total floor area greater than 500m ² ; and
				(ii)	Where a fire brigade station is -
					 (A) No more than 50 km from the building as measured along roads; and
					(B) Equipped with equipment capable of utilising a fire hydrant.
			(b)	The	e fire hydrant system-
				(i)	Must be installed in accordance with AS2419.1, except –
					(A) A Class 8 electricity network station need not comply with clause 4.2 of AS 2419.1 if –
					(aa) it cannot be connected to town main supply; and
					(bb) one-hour water storage is provided for fire- fighting; and
					(B) Where a sprinkler system is installed throughout a building in accordance with AS 2118.1, AS 2118.4, AS 2118.6, FPAA101H or FPAA101D the fire hydrant booster protection requirements of Clause 7.3(c)(ii) and 7.3(d)(iii) of AS 2419.1 do not apply, and
					(C) A fire hydrant booster assembly may be located between 3.5m and 10m of the building, and need not comply with Clause 7.3(d)(iii) of AS 2419.1 where the assembly is protected by an adjacent fire rated freestanding wall that –
					(aa) achieves an FRL of not less than 90/90/90; and
					(bb) extends not less than 1m each side of the outermost fire hydrant booster risers within the assembly and is not less than 3m wide; and

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BCA DEEMED-TO-SATISFY PROVISION	COMPLIES	DOES NOT COMPLY	NA or Informational	Compliance Required	COMMENTS
					(cc) extends to a height of not less than 2m above finished ground level; and
					(ii) Where internal fire hydrants are provided, they must serve only the storey on which they are located except that a sole occupancy unit –
					(A) In a Class 2 or 3 building or Class 4 part may be served by a single fire hydrant located at the level of egress from the sole occupancy unit; or
					(B) Of not more than 2 storeys in a Class 5, 6, 7, 8 or 9 building may be served by a single fire hydrant located at the level of egress from that sole occupancy unit provided the fire hydrant can provide coverage to the whole of the sole occupancy unit.
					The existing building and proposed modified part is required to be provided with a hydrant system in accordance with AS 2419.1-2005.
					Details are required to be provided on the architectural plans for CC approval.
					Hydraulic Services Design Certification and associated plans must be incorporated into the construction certificate specification
E1.4				Х	(b) A fire hose reel system must be provided –
Fire Hose Reels					 to serve the whole building where one or more internal fire hydrants area installed; or
					 (ii) where internal fire hydrants are not installed, to serve any fire compartment with a floor area greater than 500m².
					(c) The fire hose reel system must –
					 Have hose reels installed in accordance with AS 2441; and
					(ii) Provide hose reels to serve only the storey in which they are located except a sole occupancy unit of not more than 2 storeys in a Class 6, 7, 8 and 9 building may be served by a single fire hose reel located at the level of egress from that sole occupancy unit provided the fire hose reel can provide coverage to the whole of the sole occupancy unit.
					(d) Fire hose reels must be located internally, externally or in combination, to achieve the system coverage as specified in AS2441.
					(e) In achieving system coverage, one or a combination of the following criteria for individual internally located fire hose reels must be met in determining the layout of any fire hose reel system:
					 (i) Fire hose reels must be located adjacent to an internal hydrant (other than one in a fire isolated exit). Except that

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BCA DEEMED-TO-SATISFY PROVISION	COMPLIES	DOES NOT COMPLY	NA or Informational	Compliance Required			COMMENTS
							a fire hose reel need not be located adjacent to every fire hydrant, provided system coverage can be achieved.
						(ii)	Fire hose reels must be located within 4m of an exit, except that a fire hose reel need not be located adjacent to every exit, provided system coverage can be achieved.
						(iii)	Where system coverage is not achieved by compliance with (i) and (ii), additional fire hose reels may be located in paths of travel to an exit to achieve the required coverage.
					()		hose reels must be located so that the fire hose will not s through doorways fitted with fire or smoke doors, except
						(i)	Doorways in walls referred to in C2.5(a)(v) in a Class 9a building and C2.5(b)(iv) in a Class 9c building, separating ancillary use areas of high potential fire hazard; and
						(ii)	Doorways in walls referred to in C2.12 or C2.13 separating equipment or electrical supply systems; and
						(iii)	Doorways opening into shafts referred to in C3.13.
							ere the normal water supply cannot achieve the flow and sures required by AS 2441, or is unreliable –
						(i)	A pump; or
						(ii)	Water storage facility; or
						(iii)	Both a pump and water storage facility,
							installed to provide the minimum floor and pressures by clause 6.1 of AS 2441.
							ng building and proposed modified part is required to ed with a fire hose reels in accordance with AS 2441-
					Details for CC		e required to be provided on the architectural plans proval.
						be	Services Design Certification and associated plans incorporated into the construction certificate ion
E1.5			Х		Not a	appli	cable. The proposed building is not:
Sprinklers					×		All Classes - Throughout the whole building if any part of the building has an effective height of more than 25m
					*	1	Class 2 & 3 (excluding residential aged care) – Throughout the whole building, including any part of another class, if any part of the building has a rise in storeys of 4 or more and an effective height of not more than 25m
					×		Class 3 building used as a residential aged care building – Throughout the building and any fire compartment containing a Class 3 part used for residential care.
					*		Class 6 - fire compartments that exceed a floor area of 3,500m ² or volume of more than 21,000m ³ .

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BCA DEEMED-TO-SATISFY PROVISION	COMPLIES	DOES NOT COMPLY	NA or Informational	Compliance Required	COMMENTS	
					 Class 7a carparks (other than open deck) – in fire compartments that accommodate more than 40 vehicles. 	
					 Class 9a health-care building used as residential care building throughout the building and any fire compartment containing a Class 9a part used for residential care. 	
					Class 9c building – throughout the building and any fire compartment containing a Class 9c part. / any Class 9c part;	
					 Class 9b theatres, stages and public halls (refer Part H1); 	
					 Atrium construction (refer Part G3); 	
					 Large isolated buildings (refer clause 2.3); 	
					 Occupancies of excessive hazard in fire compartments that exceed 2,000m2 / 12,000m3 	
E1.6 Portable Fire Extinguishers			Х		Not applicable. Portable fire extinguishers are not required.	
E1.8 Fire Control Centre			Х		Not applicable. A Fire Control Centre facility is not required.	
E1.9				Х	In a building under construction –	
Fire Precautions during construction					(a) not less than one portable fire extinguisher to suit Class A, B and C fires and electrical fires must be provided at all times on each storey adjacent to each required / temporary exit; and	
					(b) After the building has reach an effective height of 12m –	
					 the required fire hydrants and fire hose reels must be operational on all floor / roof covered storeys, except for the 2 uppermost storeys; and 	
					(ii) Any required booster connections must be installed.	
					Details demonstrating compliance with this clause must be incorporated into the construction certificate plans / specification	
E1.10 Provision for Special Hazards			X		Not applicable. Not a special hazard.	
Part E2 Smoke Hazard Manageme	ent					
E2.2				Х	General smoke hazard management requirements	
General Requirements					(a) A building must comply with (b), (c), (d) and—	
(inclusive of Table E2.2a / Table E2.2b & NSW amendments)					 (i) Table E2.2a as applicable to Class 2 to 9 buildings such that each separate part complies with the relevant provisions for the classification; and 	
					(ii) Table E2.2b as applicable to Class 6 and 9b buildings such that each separate part complies with the relevant provisions for the classification.	
					(b) An air-handling system which does not form part of a smoke hazard management system in accordance with Table E2.2a or Table E2.2b and which recycles air from one fire	

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BCA DEEMED-TO-SATISFY PROVISION	COMPLIES	DOES NOT COMPLY	NA or Informational	Compliance Required	COMMENTS
					compartment to another fire compartment or operates in a manner that may unduly contribute to the spread of smoke from one fire compartment to another fire compartment must—
					 be designed and installed to operate as a smoke control system in accordance with AS 1668.1; or
					(ii)
					 (A) incorporate smoke dampers where the air-handling ducts penetrate any elements separating the fire compartments served; and
					(B) be arranged such that the air-handling system is shut down and the smoke dampers are activated to close automatically by smoke detectors complying with clause 7.5 of AS 1670.1; and
					for the purposes of this provision, each sole-occupancy unit in a Class 2 or 3 building is treated as a separate fire compartment.
					(c) Miscellaneous air-handling systems covered by Sections 5 and 6 of AS 1668.1 serving more than one fire compartment (other than a carpark ventilation system) and not forming part of a smoke hazard management system must comply with that Section of the Standard.
					(d) A smoke detection system must be installed in accordance with Clause 6 of Specification E2.2a to operate AS 1668.1 systems that are provided for zone pressurisation and automatic air pressurisation for fire-isolated exits.
					The building is Class 6 and has a rise in storeys of more than 2 and therefore the building must be provided with: <u>Table E2.2a</u> (d) in each required fire-isolated stairway, including any associated fire-isolated passageway or fire-isolated ramp, an automatic air pressurisation system for fire-isolated exits in accordance with AS 1668.1; or
					(e) a zone pressurisation system between vertically separated fire compartments in accordance with AS 1668.1, if the building has more than one fire compartment; or
					(f) an automatic smoke detection and alarm system complying with Specification E2.2a; or
					(g) a sprinkler system (other than a FPAA101D or FPAA101H system) complying with Specification E1.5.
					Specification E2.2a
					4. Smoke detection system
					(a) All Class 2 - 9 buildings—
					(i) A smoke detection system must—
					(A) subject to (b) and (c), comply with AS 1670.1; and

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BCA DEEMED-TO-SATISFY PROVISION	COMPLIES	DOES NOT COMPLY	NA or Informational	Compliance Required	COMMENTS	
					(B) activate a building occupant warning system in accordance with Clause 7.	
					 (ii) In kitchens and other areas where the use of the area is likely to result in smoke detectors causing spurious signals— (A) any other detector deemed suitable in accordance with AS 1670.1 may be installed provided that smoke detectors are installed elsewhere in the sole-occupancy unit in accordance with the requirements for alarms in Clause 3(b)(i) and Clause 3(b)(ii); or (B) an alarm acknowledgement facility may be installed, except where the kitchen or other area is in a building protected with a sprinkler system complying with Specification E1.5 (other than a FPAA101D or FPAA101H system), the detectors need not be installed in the kitchen or other areas likely to result in spurious signals. 7. Building occupant warning system must comply with clause 3.22 of AS 1670.1 to sound through all occupied areas 	
					Details demonstrating compliance with this clause must be incorporated into the construction certificate plans / specification.	
E2.3 Provision for Special Hazards			Х		Not applicable. Not a special hazard.	
Part E3 - Lift Installations						
E3.1 Lift installations			Х		Not applicable. Lift is not proposed.	
E3.2 Stretcher Facility in Lifts			Х		Not applicable. Lift is not proposed.	
E3.3 Warning Against the use of lifts in Fire			X		Not applicable. Lift is not proposed.	
E3.4 Emergency Lifts			Х		Not applicable. Emergency lift is not required.	
E3.5 Landings			Х		Not applicable. Lift is not proposed.	
E3.6 Facilities for People with Disabilities			Х		Not applicable. Lift is not proposed.	
E3.7 Fire Service Controls			Х		Not applicable. Lift is not proposed.	
E3.8			Х		Not applicable. Not a residential care building.	

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BCA DEEMED-TO-SATISFY PROVISION	COMPLIES	DOES NOT COMPLY	NA or Informational	Compliance Required	COMMENTS
E4.4 Design and Operation of Emergency Lighting				Х	The emergency lighting system must comply with AS/NZS 2293.1-2018
E4.5 Exit Signs				Х	An exit sign must be clearly visible to persons approaching the exit, and must be installed on, above or adjacent to each—
					(a) door providing direct egress from a storey to—
					 (i) an enclosed stairway, passageway or ramp serving as a required exit; and
					(ii) an external stairway, passageway or ramp serving as a required exit; and
					(iii) an external access balcony leading to a required exit; and
					(b) door from an enclosed stairway, passageway or ramp at every level of discharge to a road or open space; and
					(d) door serving as, or forming part of, a required exit in a storey required to be provided with emergency lighting in accordance with E4.2.
					Electrical design plans and certification must be incorporated into the construction certificate specification
E4.6 Direction Signs				Х	If an exit is not readily apparent to persons occupying or visiting the building, then exit signs must be installed—
(inclusive of NSW E4.6)					 (a) in appropriate positions in corridors, hallways, lobbies, foyers, auditoria, and the like, indicating the direction to a required exit; and
					Electrical Design Certification must be incorporated into the construction certificate specification and directional exit sign locations must be illustrated on the architectural floor plans
E4.7 Class 2 & 3 Buildings &			Х		Not applicable. Not a residential building.
Class 4 Parts: Exemption E4.8				Х	Exit signs must comply with:
Design & Operation of				^	(a) AS/NZS 2293.1-2018; or
Exit Signs					(b) For a photoluminescent exit sign, Specification E4.8.
					Details demonstrating compliance with this clause must be incorporated into the construction certificate plans / specification
E4.9 Emergency Warning & Intercom Systems			Х		Not applicable. An emergency warning and intercom system is not required.
SECTION F HEALTH & AMENITY					
Part F1 - Damp & Weathe	rproc	ofing			
F1.0			Х		Performance Requirements FP1.4, for the prevention of the penetration of water through external wall, must be complied.





BCA DEEMED-TO-SATISFY PROVISION	COMPLIES	DOES NOT COMPLY	NA or Informational	Compliance Required	COMMENTS
Deemed -to-Satisfy Provisions					There are no Deemed -to Satisfy Provisions for this Performance Solution in respect to external walls.
					Details demonstrating compliance with this clause must be incorporated into the construction certificate plans / specification
F1.1				Х	Stormwater drainage must comply with AS/NZS 3500.3-2018.
Stormwater Drainage					Details demonstrating compliance with this clause must be incorporated into the construction certificate plans / specification
F1.4 External above ground				Х	Any external above ground membranes must be waterproofed as per AS 4654 Parts 1 and 2-2012.
membranes					Details demonstrating compliance with this clause must be incorporated into the construction certificate plans / specification
F1.5				Х	A roof must be covered with—
Roof coverings					(d) metal sheet roofing complying with AS 1562.1; or
					Details demonstrating compliance with this clause must be incorporated into the construction certificate plans / specification
F1.6 Sarking				Х	Sarking-type materials used for weatherproofing must comply with AS/NZS 4200.1 and AS 4200.2.
					Details demonstrating compliance with this clause must be incorporated into the construction certificate plans / specification
F1.7 Waterproofing of wet area				Х	(b) In a Class 5, 6, 7, 8 or 9 building, building elements in the bathroom or shower room, a slop hopper or sink compartment, a laundry or sanitary compartment must—
					(i) be water resistant or waterproof in accordance with Table F1.7; and
					(ii) comply with AS 3740,
					as if they were in a Class 2 or 3 building or a Class 4 part of a building.
					Details demonstrating compliance with this clause must be incorporated into the construction certificate plans / specification
F1.9 Damp-proofing				Х	Where a damp-proof course is required, it must consist of a material that complies with AS/NZS 2904-1995; or impervious sheet material in accordance with AS 3660.1-2000
					Details demonstrating compliance with this clause must be incorporated into the construction certificate plans / specification
F1.10 Damp-proofing of floors on the ground				Х	If a floor of a room is laid on the ground or on fill, moisture from the ground must be prevented from reaching the upper surface of the floor and adjacent walls by the insertion of a vapour barrier in accordance with AS 2870-2011.

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BCA DEEMED-TO-SATISFY PROVISION	COMPLIES	DOES NOT COMPLY	NA or Informational	Compliance Required	COMMENTS
					Details demonstrating compliance with this clause must be incorporated into the construction certificate plans / specification
F1.11 Provision of Floor Wastes			Х		Not applicable. Not a residential building.
F1.12 Sub Floor Ventilation			Х		Not applicable. No sub floor proposed.
F1.13 Glazed Assemblies				Х	Glazed assemblies within external walls in accordance with AS 2047-2014.
					Details demonstrating compliance with this clause must be incorporated into the construction certificate plans / specification
Part F2 - Sanitary & Other	Fac	ilities	;		
F2.1 Facilities in residential buildings			Х		Not applicable. Not a residential building.
F2.2			Х		Informational clause.
Calculation of number of occupants and fixtures					The number of persons accommodated must be calculated according to D1.13 if it cannot be more accurately determined by other means.
					Unless the premises are used predominantly by one sex, sanitary facilities must be provided on the basis of equal numbers of males and females.
					In calculating the number of sanitary facilities to be provided under F2.1 and F2.3, a unisex facility required for people with a disability may be counted once for each sex.
					For the purposes of this Part, a unisex facility comprises one closet pan, one washbasin and means for the disposal of sanitary towels.
F2.3 Facilities for Class 3 to 9 Buildings			Х		 (a) Except where permitted by (b), (c), (f), F2.4(a) and F2.4(b), separate sanitary facilities for males and females must be provided for Class 3, 5, 6, 7, 8 or 9 buildings in accordance with Table F2.3.
					(b) If not more than 10 people are employed, a unisex facility may be provided instead of separate facilities for each sex.
					(c) If the majority of employees are of one sex, not more than 2 employees of the other sex may share toilet facilities if the facilities are separated by means of walls, partitions and doors to afford privacy.
					(d) Employees and the public may share the same facilities in a Class 6 provided the number of facilities provided is not less than the total number of facilities required for employees plus those required for the public.
					(e) Adequate means of disposal of sanitary towels must be provided in sanitary facilities for use by females.

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Male patrons	1 — 100	1	1 — 50	1	1 — 50	1
indie panene	101 — 300	2	51 — 100	2	51 — 200	2
	>300	Add 1 per 200	101 — 150	3	>200	Add 1 per 200
			151 — 200	4		
			201 — 250	5		
			>250	Add 1 per 100		
emale patrons	1 — 25	1	N/A	N/A	1 — 50	1
	26 — 50	2			51 — 150	2
	51 — 100	3			>150	Add 1 per 200
	101 — 150	4				
	151 — 200	5				1
	201 — 250	6				
	>250	Add 1 per 100				

F2.4XIn a building required to be accessible— SA F2.4(a)Facilities for People with
Disabilities(a) accessible unisex sanitary compartments must be provided
in accessible parts of the building in accordance with Table
F2.4(a); and(b) accessible unisex showers must be provided in accordance
with Table F2.4(b); and

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BCA DEEMED-TO-SATISFY PROVISION	COMPLIES	DOES NOT COMPLY	NA or Informational	Compliance Required		COMMENTS
					(c)	at each bank of toilets where there is one or more toilets in addition to an accessible unisex sanitary compartment at that bank of toilets, a sanitary compartment suitable for a person with an ambulant disability in accordance with AS 1428.1 must be provided for use by males and females; and
					(d)	an accessible unisex sanitary compartment must contain a closet pan, washbasin, shelf or bench top and adequate means of disposal of sanitary towels; and
					(e)	the circulation spaces, fixtures and fittings of all accessible sanitary facilities provided in accordance with Table F2.4(a) and Table F2.4(b) must comply with the requirements of AS 1428.1; and
					(f)	an accessible unisex sanitary facility must be located so that it can be entered without crossing an area reserved for one sex only; and
					(g)	where two or more of each type of accessible unisex sanitary facility are provided, the number of left and right handed mirror image facilities must be provided as evenly as possible; and
					(h)	where male sanitary facilities are provided at a separate location to female sanitary facilities, accessible unisex sanitary facilities are only required at one of those locations; and
					(i)	an accessible unisex sanitary compartment or an accessible unisex shower need not be provided on a storey or level that is not required by D3.3(f) to be provided with a passenger lift or ramp complying with AS 1428.1.
					/ STAIR	
F2.5				Х	Sanita	ary compartments must have:
Construction of Sanitary Compartments					(a)	Doors and partitions that separate adjacent compartments; and
					(b)	the door to a fully enclosed sanitary compartment must open outwards, or slide, or be removable from outside of the compartment, unless there is a clear space of at least 1.2m between the closet pan within the compartment and the doorway.





BCA DEEMED-TO-SATISFY PROVISION	COMPLIES	DOES NOT COMPLY	NA or Informational	Compliance Required	COMMENTS
					Details demonstrating compliance with this clause must be incorporated into the construction certificate plans / specification
F2.6 Interpretation: Urinals and washbasins			Х		Not applicable. No urinal or washbasin proposed.
F2.7 Microbial Control Note NSW F2.7 (Clause Deleted)			Х		Not applicable. Clause deleted in NSW.
F2.8 Waste Management			Х		Not applicable. Not Class 9a & 9c.
F2.9 Accessible adult change facilities			Х		Not applicable. Accessible adult change facility not required.
Part F3 Room Sizes			1		
F3.1 Height of Rooms and other spaces				×	 The ceiling height must be not less than— (b) in a Class 6 building— (i) except as allowed in (ii) and (f) — 2.4 m; and (ii) a corridor, passageway, or the like — 2.1 m; and (f) In any building— (i) a bathroom, shower room, sanitary compartment, airlock, tea preparation room, pantry, store room, garage, car parking area, or the like — 2.1 m; and (ii) a commercial kitchen & required accessible change room facility — 2.4 m; and (iii) above a stairway, ramp, landing or the like — 2 m measured vertically above the nosing line of stairway treads or the floor surface of the ramp, landing or the like.
Part F4 - Light & Ventilation	n				
F4.1 Provision of natural light			X		 Not applicable. Not any of the following all habitable rooms in Class 2 buildings, and Class 4 parts of a building; to all bedrooms and dormitories in a Class 3 building; to all rooms used for sleeping purposes in Class 9a and 9c buildings Class 9b buildings – to all general-purpose classrooms in primary and secondary schools and all playrooms or the like for the use of children in an early childhood centre.
F4.2			Х		Not applicable. Natural light is not required.

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BCA DEEMED-TO-SATISFY PROVISION	COMPLIES	DOES NOT COMPLY	NA or Informational	Compliance Required	COMMENTS
Methods and extent of natural lighting					
F4.3 Natural light borrowed from adjoining room			Х		Not applicable. Natural light is not required.
F4.4 Artificial lighting				Х	Artificial lighting in accordance with AS/NZS 1680.0-2009 to specific building areas.
, and a ngrang					Electrical Design Certification must be incorporated into the construction certificate specification
F4.5 Ventilation of Rooms				Х	All rooms to be provided with Clause F4.6 compliant natural ventilation OR a mechanical ventilation or air-conditioning system complying with AS 1668.2-2012.
					Details demonstrating compliance with this clause must be incorporated into the construction certificate plans / specification
F4.6 Natural Ventilation				Х	 (a) Natural ventilation provided in accordance with F4.5(a) must consist of permanent openings, windows, doors or other devices which can be opened—
					 (i) with ventilating area not less than 5% of the floor area of the room required to be ventilated; and
					(ii) open to—
					(A) a suitably sized court, or space open to the sky; or
					(B) an open verandah, carport, or the like; or
					(C) an adjoining room in accordance with F4.7.
					(b) The requirements of (a)(i) do not apply to a Class 8 electricity network substation.
					Details demonstrating compliance with this clause must be incorporated into the construction certificate plans / specification
F4.7 Ventilation borrowed from adjoining room			Х		Not applicable. Borrowed ventilation is not proposed or required.
F4.8 Restriction of position of water closets and urinals				Х	Rooms containing closet pans or urinals must not open directly into a workplace normally occupied by more than one person. Sanitary compartment opens to the space behind the stairway, not the workplace.
		1	1	1	1



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BCA DEEMED-TO-SATISFY PROVISION	COMPLIES	DOES NOT COMPLY	NA or Informational	Compliance Required	COMMENTS
F4.9 Airlocks			Х		Not applicable. No airlock is proposed or required.
F4.11 Carparks			Х		Not applicable. No carpark.
F4.12 Kitchen local exhaust			Х		Not applicable. No kitchen proposed.
Part F5 - Sound Transmis	sion				
F5.1 Application of Part			Х		Not applicable. Not a residential building.
F5.2 Determination of airborne sound insulation ratings			Х		Not applicable. Not a residential building.
F5.3 Determination of impact sound insulation ratings			Х		Not applicable. Not a residential building.
F5.4 Sound Insulation of floors between units			Х		Not applicable. Not a residential building.
F5.5 Sound insulation of walls between units			Х		Not applicable. Not a residential building.
F5.6 Sound insulation rating of services			Х		Not applicable. Not a residential building.
F5.7 Sound isolation of pumps			Х		Not applicable. Not a residential building.
Part F6 – Condensation M	lana	geme	ent		·
F6.1			Х		Not applicable. Not a residential building.





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BCA DEEMED-TO-SATISFY PROVISION	COMPLIES	DOES NOT COMPLY	NA or Informational	Compliance Required	COMMENTS
G6.5			Х		Not applicable. No occupiable outdoor area.
Construction of exits					
G6.6			Х		Not applicable. No occupiable outdoor area.
Firefighting equipment					

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6.0 CONCLUSION

This report provides a Building Code of Australia 2019 Amendment 1 (BCA) assessment of the proposed alteration and addition to an existing mixed use building and pub.

The primary purpose of this report was to identify the non-compliance matters contained in the proposed design philosophy against the current Deemed-to-Satisfy (DTS) Provisions of the BCA and to provide compliance recommendations to overcome the DTS non-compliances.

This report provided a BCA assessment table in Section 3.0 that summarises the identified non-compliance matters and offers specific recommendations that are also outlined in the Executive Summary.

Further, if compliance with the deemed-to-satisfy provisions is not achievable or desirable, Performance Solutions could be further developed and verified by an appropriately qualified BCA Consultant or Fire Safety Engineer.

Prepared by:	Reviewed by:
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7.0 ATTACHMENT A - INSPECTION & MAINTENANCE

7.1 Fire Safety Measures

The fire safety measures within the building must be maintained to ensure correct operation at all times the building is occupied. All firefighting equipment should be tagged when tested/inspected and log books kept up-to-date for all smoke detection, warning systems and sprinkler systems (where installed).

An annual fire safety certificate must be submitted to the local consent authority and the NSW Fire Brigade each year indicating satisfactory performance of the fire safety measures contained within the building. The annual fire safety statement should be displayed in a prominent place within the building (i.e. the main entry foyer)

The correct operation and maintenance of the buildings fire safety measures is critical in affording an adequate level of fire safety.

7.2 Good Housekeeping

The ongoing management of the building should ensure good housekeeping procedures. The following matters should be considered by building management:

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- Ensure exits and paths of travel to exits remain unobstructed (in particular stairways)
- Avoid storage of materials in unoccupied areas
- Limit storage of flammable/combustible materials to designated and approved areas
- Prevent chocking open fire/smoke doors
- Prevent storage of materials that could hinder access to firefighting equipment





9.0 ATTACHMENT B - REQUIREMENTS TYPE A CONSTRUCTION

3.1 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) ****
- (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 constructed from—
 - (i) concrete; or
 - (ii) masonry; or
 - (iii) fire-protected timber, provided that-
 - (A) the building is—
 - (aa) a separate building; or
 - (ee) a part of a building-
 - (AA) which only occupies part of a storey, and is separated from the remaining part by a fire wall; or
 - (BB) which is located above or below a part not containing fire-protected timber and the floor between the adjoining parts is provided with an FRL not less than that prescribed for a fire wall for the lower storey; and
 - (B) the building has an effective height of not more than 25 m; and
 - (C) the building has a sprinkler system (other than a FPAA101D or FPAA101H system) throughout complying with Specification E1.5; and
 - (D) any insulation installed in the cavity of the timber building element required to have an FRL is noncombustible; and
 - (E) cavity barriers are provided in accordance with Specification C1.13; or
 - (iv) any combination of (i) to (iii); and
- (e) ***
- (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.

Table 3 Type A Construction: FRL of Building Elements

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—											
Less than 1.5m	90/90/90	120/120/120	180/180/180	240/240/240							
1.5 to less than 3m	90/60/60	120/90/90	180/180/120	240/240/180							
3m or more	90/60/30	120/60/30	180/120/90	240/180/90							
	1		1								





Building Element	Class of building – FRL: (in minutes) Structural adequacy/Integrity/Insulation								
For non-loadbearing parts—									
Less than 1.5m	-/90/90	-/120/120	-/180/180	-/240/240					
1.5 to less than 3m	-/60/60	-/90/90	-/180/120	-/240/180					
3m or more	-/-/-	-/-/-	-/-/-	-/-/-					
EXTERNAL COLUMN not incorporate	ed in an external wa	ll—							
For loadbearing columns -	90/-/-	120/-/-	180/-/-	240/-/-					
For non-loadbearing columns -	-/-/-	-/-/-	-/-/-	-/-/-					
COMMON WALLS AND FIRE WALLS	90/90/90	120/120/120	180/180/180	240/240/240					
INTERNAL WALLS									
Fire-resisting lift and stair shafts									
Loadbearing	90/90/90	120/120/120	180/120/120	240/120/120					
Non-loadbearing	-/90/90	-/120/120	-/120/120	-/120/120					
Bounding public corridors, public lobb	ies and the like -		1	I					
Loadbearing	90/90/90	120/-/-	180/-/-	240/-/-					
Non-loadbearing	-/60/60	-/-/-	-/-/-	-/-/-					
Between or bounding sole-occupancy	units		1	I					
Loadbearing	90/90/90	120/-/-	180/-/-	240/-/-					
Non-loadbearing	-/60/60	-/-/-	-/-/-	-/-/-					
Ventilating, pipe, garbage, and like sh	afts not used for the	e discharge of hot pr	oducts of combustion	on -					
Loadbearing	90/90/90	120/90/90	180/120/120	240/120/120					
Non-loadbearing	-/90/90	-/90/90	-/120/120	-/120/120					
OTHER LOADBEARING INTERNAL	WALLS, INTERNA	L BEAMS, TRUSS	ES	1					
And Columns -	90/-/-	120/-/-	180/-/-	240/-/-					
Floors	90/90/90	120/120/120	180/180/180	240/240/240					
Roofs	90/60/30	120/60/30	180/60/30	240/90/60					

3.2 Concessions for floors

A floor need not comply with Table 3 if-

- (a) it is laid directly on the ground; or
- (b) in a Class 2, 3, 5 or 9 building, the space below is not a storey, does not accommodate motor vehicles, is not a storage or work area, and is not used for any other ancillary purpose; or
- (c) it is a timber stage floor in a Class 9b building laid over a floor having the required FRL and the space below the stage is not used as a dressing room, store room, or the like; or
- (d) it is within a sole-occupancy unit in a Class 2 or 3 building or Class 4 part of a building; or
- (e) it is an open-access floor (for the accommodation of electrical and electronic services and the like) above a floor with the required FRL.

3.3 Floor loading of Class 5 and 9b buildings: Concession

If a floor in a Class 5 or 9b building is designed for a live load not exceeding 3 kPa-

- (a) the floor next above (including floor beams) may have an FRL of 90/90/90; or
- (b) the roof, if that is next above (including roof beams) may have an FRL of 90/60/30.





3.4 Roof superimposed on concrete slab: Concession

A roof superimposed on a concrete slab roof need not comply with Clause 3.1 as to fire-resisting construction if-

- (a) the superimposed roof and any construction between it and the concrete slab roof are non-combustible throughout; and
- (b) the concrete slab roof complies with Table 3.

3.5 Roof: Concession

A roof need not comply with Table 3 if its covering is non-combustible and the building-

- (a) has a sprinkler system (other than a FPAA101D or FPAA101H system) complying with Specification E1.5 installed throughout; or
- (b) has a rise in storeys of 3 or less; or
- (c) is of Class 2 or 3; or
- (d) has an effective height of not more than 25 m and the ceiling immediately below the roof has a resistance to the incipient spread of fire to the roof space of not less than 60 minutes.

3.6 Roof lights

If a roof is required to have an FRL or its covering is required to be non-combustible, roof lights or the like installed in that roof must—

- (a) have an aggregate area of not more than 20% of the roof surface; and
- (b) be not less than 3 m from-
 - (i) any boundary of the allotment other than the boundary with a road or public place; and
 - (ii) any part of the building which projects above the roof unless that part has the FRL required of a fire wall and any openings in that part of the wall for 6 m vertically above the roof light or the like are protected in accordance with C3.4; and
 - (iii) any roof light or the like in an adjoining sole-occupancy unit if the walls bounding the unit are required to have an FRL; and
 - (iv) any roof light or the like in an adjoining fire-separated section of the building; and
- (c) if a ceiling with a resistance to the incipient spread of fire is required, be installed in a way that will maintain the level of protection provided by the ceiling to the roof space.

3.7 Internal columns and walls: Concession

For a building with an effective height of not more than 25 m and having a roof without an FRL in accordance with Clause 3.5, in the storey immediately below that roof, internal columns other than those referred to in Clause 3.1(f) and internal walls other than fire walls and shaft walls may have—

- (a) in a Class 2 or 3 building: FRL 60/60/60; or
- (b) in a Class 5, 6, 7, 8 or 9 building-
 - (i) with rise in storeys exceeding 3: FRL 60/60/60; or
 - (ii) with rise in storeys not exceeding 3: no FRL.

3.8 Open spectator stands and indoor sports stadiums: Concession

In an open spectator stand or indoor sports stadium, the following building elements need not have the FRL specified in Table 3:

- (a) The roof if it is non-combustible.
- (b) Columns and loadbearing walls supporting only the roof if they are non-combustible.
- (c) Any non-loadbearing part of an external wall less than 3 m-
 - (i) from any fire-source feature to which it is exposed if it has an FRL of not less than -/60/60 and is noncombustible; or
 - (ii) from an external wall of another open spectator stand if it is non-combustible.

3.9 Carparks

- (a) Notwithstanding Clause 3.1, a carpark may comply with Table 3.9 if it is an open-deck carpark or is protected with a sprinkler system (other than a FPAA101D or FPAA101H system) complying with Specification E1.5 and is—
 - (i) a separate building; or
 - (ii) a part of a building-

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- (A) which only occupies part of a storey, and is separated from the remaining part by a fire wall; or
- (B) which is located above or below another classification, and the floor separating the classifications complies with C2.9; or
- (C) which is located above another Class 7 part of the building not used for carparking, and the floor separating the parts complies with Table 3 for a Class 7 part other than a carpark; or
- (D) which is located below another Class 7 part of the building not used for carparking, and the floor separating the parts complies with Table 3.9.
- (b) For the purposes of this Clause, a carpark-
 - (i) includes-
 - (A) an administration area associated with the functioning of the carpark; and
 - (B) where the carpark is sprinklered, is associated with a Class 2 or 3 building and provides carparking for separate sole-occupancy units, each carparking area with an area not greater than 10% of its floor area for purposes ancillary to the sole-occupancy units; but
 - (ii) excludes-
 - (A) except for (b)(i), any area of another classification, or other part of a Class 7 building not used for carparking; and
 - (B) a building or part of a building specifically intended for the parking of trucks, buses, vans and the like.

Table 3.9 - Requirements for carparks

Building	Elemer	nt	FRL (not less than) Structural adequacy/Integrity/Insulation ESA/M (not greater than)		
Wall					
(a)	Extern	nal Wall			
	(i) Less than 3m from a fire-source feature to which exposed:				
		Loadbearing	60/60/60		
		Non-loadbearing	-/60/60		
	(ii)	3m or more from a fire-source feature to which it is exposed	-/-/-		
(b)	Internal Wall				
	(i)	Loadbearing, other than one supporting only the roof (not used for carparking)	60/-/-		
	(ii)	Supporting only the roof (not used for carparking).	-/-/-		
	(iii)	Non-loadbearing	-/-/-		
(c)	Fire wall				
	(i)	From the direction used as a carpark	60/60/60		
	(ii)	From the direction not used as a carpark	As required by Table 7.1		
Column					
(a)	Supporting only the roof (not used for carparking) and 3m or more from a fire-source to which it is exposed		-/-/-		
(b)	Steel column other than one covered by (a) and one that does not support a part of a building that is not used as a carpark		60/-/- or 25m ² /tonne		
(C)	Any other column not covered by (a) or (b)		60/-/-		
Beam					



Building	Element	FRL (not less than) Structural adequacy/Integrity/Insulation ESA/M (not greater than)			
(a)	Steel floor beam in continuous contact with a concrete floor slab	60/-/- or 30m²/tonne			
(b)	Any other beam	60/-/-			
Fire resisting lift and stair shaft (within the carpark only)		60/60/60			
Floor slab and vehicle ramp		60/60/60			
Roof (not used for carparking)		-/-/-			

Notes to Table 3.9:

1. ESA/M means the ratio of exposed surface area to mass per unit length.

2. Refer to Specification E1.5 for special requirements for a sprinkler system in a carpark complying with Table 3.9 and located within a multi-classified building.

3.10 Class 2 and 3 buildings: Concession

- (a) A Class 2 or 3 building having a rise in storeys of not more than 3 need not comply with Clause 3.1(d) of Specification C1.1 and the requirements of C1.9(a), (b) and C2.6 for non-combustible material, if it is constructed using—
 - (i) timber framing throughout; or
 - (ii) non-combustible material throughout; or
 - (iii) a combination of (i) and (ii), provided-
 - (iv) * * * * *
 - (v) any insulation installed in the cavity of a wall required to have an FRL is non-combustible; and
 - (vi) the building is fitted with an automatic smoke alarm system complying with Specification E2.2a.
- (b) A Class 2 or 3 building having a rise in storeys of not more than 4 may have the top three storeys constructed in accordance with (a) provided—
 - (i) the lowest storey is used solely for the purpose of parking motor vehicles or for some other ancillary purpose; and
 - (ii) the lowest storey is constructed of concrete or masonry including the floor between it and the Class 2 or 3 part of the building above; and
 - (iii) the lowest storey and the storey above are separated by construction having an FRL of not less than 90/90/90 with no openings or penetrations that would reduce the fire-resisting performance of that construction except that a doorway in that construction may be protected by a –/60/30 self-closing fire door.
- (c) In a Class 2 or 3 building complying with (a) or (b) and fitted with a sprinkler system (other than a FPAA101D or FPAA101H system) complying with Specification E1.5, any FRL criterion prescribed in Table 3—
 - (i) for any floor and any loadbearing wall, may be reduced to 60, except any FRL criterion of 90 for an external wall must be maintained when tested from the outside; and
 - (ii) for any non-loadbearing internal wall, need not apply if-
 - (A) it is lined on each side with 13 mm standard grade plasterboard or similar non-combustible material; and
 - (B) it extends—
 - (aa) to the underside of the floor next above; or
 - (bb) to the underside of a ceiling with a resistance to the incipient spread of fire of 60 minutes; or
 - (cc) to the underside of a non-combustible roof covering; and
 - (C) any insulation installed in the cavity of the wall is non-combustible; and
 - (D) any construction joint, space or the like between the top of the wall and the floor, ceiling or roof is smoke sealed with intumescent putty or other suitable material; and
 - (E) any doorway in the wall is protected by a self-closing, tight fitting, solid core door not less than 35 mm thick.

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10.0 ATTACHMENT C - REQUIREMENTS TYPE B CONSTRUCTION

4.1 Fire-resistance of building elements

In a building *required* to be of Type B construction—

- (d) each building element listed in Table 4, 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
- (e) ****
- (f) if a stair shaft supports any floor or a structural part of it-
 - (iii) the floor or part must have an FRL of 60/-/- or more; or
 - (iv) the junction of the stair *shaft* must be constructed so that the floor or part will be free to sag or fall in a fire without causing structural damage to the *shaft*, and
- (g) any *internal wall* which is *required* to have an FRL with respect to *integrity* and *insulation*, except a wall that bounds a *sole-occupancy unit* in the topmost (or only) *storey* and there is only one unit in that *storey*, must extend to—
 - (v) the underside of the floor next above if that floor has an FRL of at least 30/30/30; or
 - (vi) the underside of a ceiling having a *resistance to the incipient spread of fire* to the space above itself of not less than 60 minutes; or
 - (vii) the underside of the roof covering if it is *non-combustible* 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
 - (viii) 450 mm above the roof covering if it is combustible; and
- (h) a *loadbearing internal wall* and a *loadbearing fire wall* (including those that are part of a *loadbearing shaft*) must be constructed from—
 - (ix) concrete; or
 - (x) masonry; or
 - (xi) *fire-protected timber*, provided that—
 - (F) the building is-
 - (aa) a separate building; or
 - (bb) a part of a building-
 - (CC) which only occupies part of a *storey*, and is separated from the remaining part by a *fire wall*; or
 - (DD)which is located above or below a part not containing *fire-protected timber* and the floor between the adjoining parts is provided with an FRL not less than that prescribed for a *fire wall* for the lower *storey*; and
 - (G) the building has an effective height of not more than 25 m; and
 - (H) the building has a sprinkler system (other than a FPAA101D or FPAA101H system) throughout complying with Specification E1.5; and
 - (I) any insulation installed in the cavity of the timber building element *required* to have an FRL is *non-combustible*; and
 - (J) cavity barriers are provided in accordance with Specification C1.13; or
 - (xii) any combination of (i) to (iii); and
- (i) ****
- (j) in a Class 5, 6, 7, 8 or 9 building, in the *storey* immediately below the roof, internal columns and *internal walls* other than *fire walls* and *shaft* walls, need not comply with Table 4; and
- (k) ****
- (I) in a Class 2 or 3 building, except where within the one sole-occupancy units, or a Class 9a health-care building or a Class 9b building, a floor separating storeys or above a space for the accommodation of motor vehicles or used for storage or any other ancillary purpose, must—
 - (xiii) be constructed so that it is at least of the standard achieved by a floor/ceiling system incorporating a ceiling which has a resistance to the incipient spread of fire to the space above itself of not less than 60 minutes; or

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- (xiv) have an FRL of at least 30/30/30; or
- (xv) have a *fire-protective covering* on the underside of the floor, including beams incorporated in it, if the floor is *combustible* or of metal; and
- (m) in a Class 9c building a floor above a space for the accommodation of motor vehicles or used for storage or any other ancillary purpose, and any column supporting the floor must—
 - (xvi) be constructed so that it is at least of the standard achieved by a floor/ceiling system incorporating a ceiling which has a *resistance to the incipient spread of fire* to the space above itself of not less than 60 minutes; or
 - (xvii)have an FRL of at least 30/30/30; or
 - (xviii) have a *fire-protective covering* on the underside of the floor, including beams incorporated in it, if the floor is *combustible* or of metal.

Table 4 Type B construction: FRL of building elements

1	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 colu building element, where the distance f							
For loadbearing parts—							
less than 1.5 m	90/ 90/ 90	120/120/120	180/180/180	240/240/240			
1.5 to less than 3 m	90/ 60/ 30	120/ 90/ 60	180/120/ 90	240/180/120			
3 to less than 9 m	90/ 30/ 30	120/ 30/ 30	180/ 90/ 60	240/ 90/ 60			
9 to less than 18 m	90/ 30/-	120/ 30/-	180/ 60/-	240/ 60/-			
18 m or more	_/_/_	_/_/_	_/_/_	_/_/_			
For non- <i>loadbearing</i> parts—							
less than 1.5 m	-/ 90/ 90	-/120/120	-/180/180	-/240/240			
1.5 to less than 3 m	-/ 60/ 30	-/ 90/ 60	-/120/ 90	-/180/120			
3 m or more	_/_/_	_/_/_	_/_/_	_/_/_			
4							
EXTERNAL COLUMN not incorporated which it is exposed is—	d in an <i>externa</i>	al wall, where the	e distance from any	/ fire-source feature to			
	d in an <i>externa</i>	al wall, where the	e distance from any	/ fire-source feature to			
which it is exposed is— For <i>loadbearing</i> columns—	d in an <i>externa</i> 90//-	al wall, where the	e distance from any	240/-/-			
which it is exposed is—							
which it is exposed is— For <i>loadbearing</i> columns— less than 18 m	90//	120/-/-	180//	240/-/-			
which it is exposed is— For <i>loadbearing</i> columns— less than 18 m 18 m or more	90//	120/-/-	180//	240/-/-			
which it is exposed is— For <i>loadbearing</i> columns— less than 18 m 18 m or more For non- <i>loadbearing</i> columns—	90/—/—	120/-/-	180//	240/-/-			
which it is exposed is— For loadbearing columns— less than 18 m 18 m or more For non-loadbearing columns— For non-loadbearing columns—	90/—/— —/—/—	120/_/_ _/_/_	-/-/- -/-/-	240/-/- -/-/-			
which it is exposed is— For loadbearing columns— less than 18 m 18 m or more For non-loadbearing columns— For non-loadbearing columns— COMMON WALLS and FIRE WALLS— INTERNAL WALLS—	90/—/— —/—/—	120/_/_ _/_/_	-/-/- -/-/-	240/-/- -/-/-			
which it is exposed is— For loadbearing columns— less than 18 m 18 m or more For non-loadbearing columns— For non-loadbearing columns— COMMON WALLS and FIRE WALLS—	90/—/— —/—/—	120/_/_ _/_/_	-/-/- -/-/-	240/-/- -/-/-			
which it is exposed is— For loadbearing columns— less than 18 m 18 m or more For non-loadbearing columns— For non-loadbearing columns— COMMON WALLS and FIRE WALLS— INTERNAL WALLS— Fire-resisting lift and stair shafts—	90/-/- -/-/- -/-/- 90/ 90 / 90	120/-/- -/-/- 120/120/120	180// -// 180/180/180	240/-/- -/-/- -/-/- 240/240/240			
which it is exposed is— For loadbearing columns— less than 18 m 18 m or more For non-loadbearing columns— For non-loadbearing columns— COMMON WALLS and FIRE WALLS— INTERNAL WALLS— Fire-resisting lift and stair shafts— Loadbearing Fire-resisting stair shafts—	90/-/- -/-/- -/-/- 90/ 90 / 90	120/-/- -/-/- 120/120/120	180// -// 180/180/180	240/-/- -/-/- -/-/- 240/240/240			
which it is exposed is— For loadbearing columns— less than 18 m 18 m or more For non-loadbearing columns— For non-loadbearing columns— COMMON WALLS and FIRE WALLS— INTERNAL WALLS— Fire-resisting lift and stair shafts— Loadbearing	90// -// 90/ 90 / 90 90/ 90/ 90	120/-/- -/-/- 120/120/120 120/120/120	180/-/- -/-/- 180/180/180	240/-/- -/-/- 240/240/240 240/120/120			



Non- <i>loadbearing</i>	-/ 60/ 60	_/_/_	_/_/_	_/_/_					
Between or bounding sole-occupancy units—									
Loadbearing	60/ 60/ 60	120/—/—	180/—/—	240/—/—					
Non- <i>loadbearing</i>	-/ 60/ 60	_/_/_	_/_/_	_/_/_					
OTHER LOADBEARING INTERNAL WALLS and COLUMNS—	60/—/—	120/—/—	180/—/—	240/—/—					
ROOFS	_/_/_	_/_/_	_/_/_	_/_/_					

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