

Project	13-19 Canberra Avenue, St Leonards
Report	NCC Assessment Report (DA Stage)
Reference	220225C-NCC-r5
Date	10 April 2024
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Document Control

Reference/Revision	Date	Description	NCC Assessment Report
C21251-NCC-r1		Prepared by	Tatenda Makurumidze
DA Submission			Building Surveyor
	14/10/21	Reviewed by	Zoe Brown
			Building Surveyor – Unrestricted BDC3299
		Prepared by	Tatenda Makurumidze
			Building Surveyor
220225C-NCC-r2		Reviewed by	Robert Briant
Section 4.55 Submission	01/12/22	_	Associate
			Building Surveyor – Unrestricted
			BDC0048
220225C-NCC-r3	13/12/2022	Prepared by	Tatenda Makurumidze
Section 4.55 (2) Submission		. ,	Building Surveyor
Report updated to capture the additional two storeys.			
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		Reviewed by	Christopher Ward
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220225C-NCC-r4	08/04/2024	Prepared by	Tatenda Makurumidze
DA Submission			
Report updated to capture			
the additional storeys.			
220225C-NCC-r5	10/04/2024	Prepared by	Tatenda Makurumidze
DA Submission			Senior Building Surveyor
the additional storeys and			a duringeo
fire control room.			muranus

1 Introduction

1.1 Building Location and Description

The development being the subject of this report is proposed to be located at 13-19 Canberra Avenue, St Leonards NSW 2065.

The proposed development consists of a nineteen (19) storey residential apartment building The building also comprises of one commercial tenancy, childcare, gym, community centre, and associated facilities and a four-level car park located within the Basement with 138 one hundred and thirty eight car park spaces.

The main pedestrian entrance to the residential component is located on Canberra Avenue.

1.2 Objectives

The purpose of this Report is to outline an assessment of the proposed development against the National Construction Code, Volume 1, Building Code of Australia, 2019, Amendment 1 (the "NCC"). The assessment addresses all relevant Deemed-To-Satisfy (DTS) clauses of the NCC and provides comment on the compliance status of the proposed development. If the development does not comply with a DTS clause, where appropriate, a recommendation to prepare/obtain a Performance Solution is specified. Where a clause is not relevant to the proposed development it is not discussed.

It is presumed the assumptions, content, and limitations of this Report are reviewed and understood by the reader. Credwell Consulting should be contacted to clarify any queries or assumptions made in relation to the contents of this Report. Furthermore, Credwell Consulting take no responsibility for misinterpretation of any of the content herein.



1.3 Limitations

This Report does not include or imply any audit, assessment, or upgrading of the proposed development regarding:

- 1. The structural design;
- 2. The capacity or design of any electrical, fire, hydraulic or mechanical services;
- the Disability Discrimination Act 1992 including the Disability ((Access to Premises Buildings) Standards 2010 – unless specifically referred to), (Note: The provision of disabled access to the subject development has not been assessed against the deemed to satisfy provision of Part D3 and F2.4 of BCA2019 only);
- 4. NCC Section Part D3, Clauses E3.6, F2.4 and F2.9, Part J

This Report does not include or imply, any assessment of, or compliance with:

- 1. any development consent conditions;
- 2. the Liquor Licensing Act 2007;
- 3. the Work Health and Safety Act 2011;
- 4. the Swimming Pools Act 1992; and
- 5. requirements of authorities including, but not limited to, WorkCover, Roads and Maritime Services, Council, telecommunications supply authority, electricity supply authority, water supply authority, gas supply authority, and the like.

Interpretations

Numerous clauses within the NCC require interpretation. Where interpretation of a clause is required, Credwell Consulting apply what is believed to be the current standard industry practice (at the time the Report is written).

Dimensions and Tolerances

The NCC regularly specifies minimum dimensions for construction. The assessment outlined in this Report includes a review of such minimum dimensions that are relevant to the proposed development. However, Credwell Consulting does not guarantee that all relevant minimum dimensions have been assessed where they are not clearly and explicitly denoted/marked on the architectural drawings reviewed. Also, it remains the responsibility of the designer(s) and builder(s) to confirm that all minimum dimensions are achievable on site prior to work commencing.

1.4 Reviewed Documentation

The assessment outline in the Report is based on review of the documentation referenced in Annexure A.



2 Building Description

For the purposes of the NCC, the building is described as follows:

Building Classification:	Class 2, 6, 7a, 7b, & 9b	Levels Contained:	23
Rise in Storeys:	19	Effective Building Height (m):	57.2m (RL 114.100- RL 56.90)
Type of Construction:	A	Climate Zone:	Lane Cove Municipal Council Zone 5

2.1 Classification

Location	Class	Use	Floor Area
	7a	Carpark	1,502m ²
Basement 4	7a	Carpark	1,451 m ²
	7b	Storage (< 10% of the floor area)	51 m ²
	7a	Carpark	1,490m ²
Basement 3	7a	Carpark	1,438 m²
	7b	Storage (< 10% of the floor area)	52m²
	7a	Carpark	1,489m ²
Basement 2	7a	Carpark	1,437 m²
	7b	Storage (< 10% of the floor area)	52m²
Basement 1	7a	Carpark	1,531m²
	7a	Carpark	1,465m²
	7b	Storage (< 10% of the floor area)	39.73 ²
Ground Floor 2, 6, 7a &		Residential, Retail, Carpark, storage	1309m ²
	7b		
	2	Residential	-
	6	Retail	37 m ²
	7a	Carpark	786 m ²
	7b	Bike and waste Storage (> 10% of the floor area)	131m ²
Upper Ground	2	Residential	777m ²
Floor	2	Residential including residential amenity spaces	754m²
	7b	Childcare Storage (< 10% of the floor area)	23m ²
Level 1	2 & 9b	Residential, Childcare, community &	1335m ²
		centre	
	2	Residential	-
	9b	Childcare	436m ²
	9b	Community Centre	113m ²
Levels 02 – 17	2	Residential	-
Roof	2	-	-

Note:

- 1. In accordance with Clause A6.0, Exemption 1 of the BCA, for the purposes of determining a building classification, where an ancillary use does not occupy greater than 10% of the floor area of the storey which it is situated on, it may be absorbed into the dominate use for that level.
- 2. The common areas, including gym, cinema, swimming pool and wine store have considered as ancillary to Class 2, as the client has confirmed these areas will be accessed by residents of the building, and not open to the general public.

2.2 Fire Compartments

For the purposes of the assessment outlined in this Report, the following fire compartments are assumed:

- 1. The car parking areas located at Basement level 04 and Basement level 01 are considered one fire compartment.
- 2. The assembly areas located on the upper ground is considered one fire compartment.
- 3. The childcare and community centre on the level 1 is considered one fire compartment.
- 4. Level ground floor Level 17 residential part are considered one fire compartment.

2.3 Required Exits

For the purposes of the assessment outlined in this Report, the following are considered as the exits from the building:

- 1. The two stairways which provide egress from the basement level.
- 2. The main entry doorway on Canberra Avenue.
- 3. The fire isolated stairway which provides egress from level 1 to level 17
- 4. The perimeter doors to the childcare and community centre on level 1.



3 Fire Safety Measures

Given the assessment in this Report, the following fire safety measures are required to be installed in the building. This list is subject to minor change if Performance Solutions are proposed, or other options are taken during the Construction Certificate (CC) and/or construction stages.

	Fire Safety Measure	Standard of Performance
1	Access panels, doors and hoppers to fire-	BCA 2019 Amendment 1 clause C3.13
1.	resisting shaft	Manufacturer's Specifications
2	Automatic fail-safe devices (automatic	BCA 2019 Amendment 1 clause D2.19
2.	doors)	Manufacturer's Specifications
	Automatic fail-safe devices (electronic	BCA 2019 Amendment 1 clause D2.21
3.	latching)	Manufacturer's Specifications
		BCA 2019 Amendment 1 clause E2.2 and
	Automatic fire detection and alarm	Specification E2.2a
4.	systems	AS 1670.1-2018
		AS 3786-2014
		BCA 2019 Amendment 1 clause E1.5 and
5.	Automatic fire suppression systems	Specification E1.5
	(sprinklers)	AS 2118.1-2017
6.	Emergency lifts	BCA 2019 Amendment 1 clause E3.4
-	For some stations	BCA 2019 Amendment 1 clause E4.2 & E4.4
/.	Emergency lighting	AS/NZS 2293.1-2018
	Emergency Warning and intercom system	BCA 2019 Amendment 1 clause E4.9
8.	(EWIS)	AS 1670.4
_	Exit signs	BCA 2019 Amendment 1 clause E4.5, E4.6 & E4.8
9.	_	AS/NZS 2293.1-2018
	Fire control centre	BCA 2019 Amendment 1 clause E1.8 and
10.		Specification E1.8 Clause 1 to 12.
	Fire dampers	BCA 2019 Amendment 1 clause C3.15
11.		AS 1668.1-2015
		Manufacturer's Specification
	Fire doors	BCA 2019 Amendment 1 clause C3.2, C3.4, C3.8, &
12.		C3.11 and Specification C3.4 clause 2
		AS 1905.1-2015
	Fire hose reel systems	
13	(Carpark, commercial areas, storage areas	BCA 2019 Amendment 1 clause E1.4
15.	and the community and child care	AS 2441-2005
	centres)	
	Fire hydrant systems	BCA 2019 Amendment 1 clause E1.3
14.		AS 2419.1-2005
		Performance Solution
	Fire seals protecting openings in fire-	BCA 2019 Amendment 1 clause C3.15 and
	resisting components of the building	Specification C3.15
15.		AS 1530.4-2014
		AS 4072.1-2005
		Manufacturer's Specification
	Lightweight construction (fire rated)	BCA 2019 Amendment 1 clause C1.8 and
16.		Specification C1.8
		Manufacturer's Specification
	Mechanical air handling systems	BCA 2019 Amendment 1 E2.2 and Specification
17.	(automatic shutdown)	E2.2a
1		AS 1668.1-2015



	Fire Safety Measure	Standard of Performance
10	Portable fire extinguishers	BCA 2019 Amendment 1 Clause E1.6
10.		AS 2444-2001
	Smoke dampers	BCA 2019 Amendment 1 C2.5, Specification C2.5,
19.		and clause E2.2
		AS 1668.1-2015
20	Smoke doors	BCA 2019 Amendment 1 Clause C2.5, Specification
20.		C2.5, and Specification C3.4 clause 3
	Stair pressurisation system	BCA 2019 Amendment 1 Clause D1.7, Clause E2.2,
21.		and Specification E2.2a
		AS 1668.1-2015
22	Zone pressurisation system	BCA 2019 Amendment 1 Clause E2.2
22.		AS 1668.1-2015
	Warning and operational signs	BCA 2019 Amendment 1 Clause D2.23 & E3.3
		Environmental Planning and Assessment
23.		Development Certification & Fire Safety
		Regulation –section 108
	Fire alarm monitoring	BCA 2019 Amendment 1 Clause E2.2 and
24.		Specification E2.2a clause 8
		AS 1670.3-2018

4 Fire Resistance Levels

The following fire resistance levels (FRLs) are required for the various elements of the building. Where the table below refers to a fire source feature (FSF), this is as defined in the NCC as the far boundary of a road, river, lake or the like adjoining the allotment, or a side or rear boundary of the allotment, or an external wall of another building on the allotment which is not a Class 10 building.

uilding Element - Type A Class 2 Class onstruction Residential Car		Class7a or 9 Carpark,	Class 6 (Retail)	Class 7b (Storage)
	(SOUs) Community		. ,	(U)
		centre,		
· · · · · · ·		Childcare, Gym		
Loadbearing External				
Walls	00/00/00	120/120/120	400/400/400	240/240/240
- Less than 1.5m from a	90/90/90	120/120/120	180/180/180	240/240/240
-15-2m from a ESE	90/60/60	120/00/00	180/180/120	240/240/180
- 3m or more from a ESE	90/60/30	120/50/30	180/180/120	240/240/180
Non-Loadbearing External	50/00/50	120/00/30	100/120/50	240/100/50
Walls				
- Less than 1 5m from a	-/90/90	-/120/120	-/180/180	-/240/240
FSF	750750	,120,120	, 100, 100	/240/240
- 1.5-3m from a FSF	-/60/60	-/90/90	-/180/120	-/240/180
- 3m or more from a FSF	-/-/-	-/-/-	-/-/-	-/-/-
External Columns (not				
incorporated into an				
external wall)				
- Loadbearing	90/-/-	120/-/-	180/-/-	240/-/-
- Non-Loadbearing	-/-/-	-/-/-	-/-/-	-/-/-
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	-/90/90/90	-/120/120	-/120/120	-/120/120
Internal Walls - Bounding				
public corridors, public				
lobbies and the like				
- Loadbearing	90/90/90	120/-/-	180/-/-	240/-/-
- Non-Loadbearing	-/60/60	-/-/-	-/-/-	-/-/-
Internal Walls - Between				
	00/00/00	120//	190//	240//
	-/60/60	-/-/-	_/_/-	_/_/-
	-700700	-/-/-	-/-/-	-/-/-
Ventilating nine garhage				
and the like shafts not				
used for discharge of hot				
products of combustion				
- Loadbearing	90/90/90	120/90/90	180/120/120	240/120/120
- Non-Loadbearing	-/90/90	-/90/90	-/120/120	-/120/120



Building Element - Type A Construction	Class 2 Residential (SOUs)	Class7a or 9 Carpark, Community centre, Childcare, Gym	Class 6 (Retail)	Class 7b (Storage)
Other loadbearing internal walls, internal beams, trusses 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

Notes:

Clause 2.5(c) of Specification C1.1 grants a concession to structures located on roofs to house plant and equipment to not have a Fire-Resistance Level (FRL) provided their construction is non-combustible.

Clause 3.5 of Specification C1.1 grants a concession for roofs of Class 2 and 3 buildings to not have a FRL provided the roof covering is non-combustible.



5 Matters for Further Consideration

5.1 Assessment

The reviewed documentation referenced in Annexure A of this Report has been assessed against the Deemed-to-Satisfy (DtS) provisions of the NCC. This assessment has identified the following areas where compliance with the NCC will require further consideration.

Annexure B of this Report provides a detailed assessment of the proposal against each of the relevant DtS provisions of the NCC.

5.2 Possible Performance Solutions

The following items relate to areas where a Performance Solution may be available to justify a deviation from the DtS requirements of the NCC. This Report does not form a Performance Solution.

Item	Possible Performance Solution	DtS	Performance
		Provision	Requirements
1.	Reduction of FRLs	C1.1	CP1
		C2.8	CP2
	It is anticipated that the retail areas on ground floor will be	C2.9	
	subject to a proposed reduction of FRL from 180 minutes to	Spec C1.1	
	120 minutes.		
2.	Bin Rooms containing a garbage chute	C1.1	CP2
		Spec C1.1	
	Clause 2.7 of Spec C1.1 specifies that shafts required to have		
	an FRL must be enclosed at the top and bottom by		
	construction having an FRL of 90 minutes.		
	The buildings contain Carbaga Chutas which run vartically		
	through the residential levels and discharge directly into the		
	unrough the residential levels and discharge directly into the		
	waste rooms. Due to typical an angements, the bottom of the		
	by being enclosed whilst achieving an ERL of 90 minutes		
	by being enclosed whilst achieving and the of 50 minutes.		
	Furthermore, there is a roller shutter in the bin room that will		
	not achieve the insulation rating.		
3.	Fire-Resisting Construction – Slab Edge	C1.1	CP1
	In accordance with Clause C1.1, each building element must	Spec C1.1	CP2
	achieve an EPL in accordance with Table 2 of Specification		
	C1 1		
	Cans between the fire rated fleers and external well systems		
	of the building may not most the fire conarction		
	requirements of specification C1.1		
Δ	Ancillary Attachments to the External Wall	C1 14	CP1
		01.17	CP2
	In accordance with clause C1.14 of the BCA. attachments to		
	the external walls must be non-combustible. except where		
	exempt by the clause.		



Item	Possible Performance Solution	DtS Description	Performance
	The Deemed-to-satisfy provisions are not met as fixed planter boxes, proposed to contain living plants appear to be attached to various portions of the external façade (balconies). Living plants cannot be tested in accordance with AS 1530.1 and therefore must be assessed on a Performance Basis.	Provision	Requirements
5.	Openings in external walls	C3.2	CP2 CP8
	Openings in the external wall are to be protected in alternative means other than as required by Clause C3.4.	03.4	5
6.	Number of exits required	D1.2	DP4 FP2-2
	Clause D1.2 of the BCA specifies that as the building has an effective height of more than 25m, it must contain at least two (2) exits from each storey.		LF2.2
	The Deemed-to-Satisfy provisions are not met as the following locations are provided with access to one (1) exit in lieu of two (2) exits:		
	• <u>Class 9b</u>		
	The childcare centre and community centre part of the building located on level 1		
7.	Exit travel distances	D1.4	DP4
	The following areas have been provided with non-complaint exit travel distances:		EPZ.Z
	 <u>Ground floor carpark</u> The ground floor park has been provided with a non- compliant distance to a point of choice measured to be 23m in lieu of 20m 		
	 <u>Upper ground floor</u> The upper ground floor has been provided with a with a non-complaint distance to a point of choice from the swimming pool area, measured to be 28m in lieu of 20m 		
	• <u>Level 1</u> The travel distance has been measured to be 34m to an exit from the community centre in lieu of 20m to a single exit (being the open space).		
	• <u>Residential Levels</u> The exit travel distances within the residential parts of the building level 2 to level 17 have been provided with a		

Item	Possible Performance Solution	DtS	Performance
		Provision	Requirements
	non-complaint distance measured at 10m to a point where two exits are available.		
	The exit travel distances do not meet the deemed to satisfy provisions of the NCC and must be assessed on a		
	Performance Basis at construction stage.		
8.	Distance between alternative Exits	D1.5	DP4 EP2.2
	lieu of 9.0m minimum		
	The distances between do not most the deemed to satisfy		
	provisions of the NCC and must be assessed on a Performance Basis at construction stage		
9.	Travel via fire-isolated exits	D1.7	DP4 EP2.2
	The fire-isolated stairs from the residential levels adjacent the residential lobby discharges within the entry lobby which is under the building line in lieu of discharging directly (or via a fire-isolated passageway) to a road or open space or to a part of a building in accordance with Clause D1.7(b)(ii) or D1.7 (b)(iii).		
	Furthermore the path of travel from the discharge point to open space requires travel pass unprotected openings Clause D1.7(c).		
	This can be supportable via a performance solution with a fire engineer.		
10	Travel via Fire Isolated exits – Doors opening into Fire- Isolated Exits	D1.7	DP4 EP2.2
	In accordance with clause D1.7, a doorway from a room must not open directly into a fire-isolated stairway, or fire-isolated		

Item	Possible Performance Solution	DtS	Performance
		Provision	Requirements
	passageway unless it's from an airlock or the like.		
	The Deemed-to-Satisfy provisions are not met as the pump rooms opens directly onto Fire isolated passageway on Ground Floor.		
11	Portable fire extinguishers	E1.6	EP1.6
	The Class 2 parts of the building includes two storey sole occupancy units. Clause E1.6 (b)requires portable fire extinguishers to serve only the storey at which they are located. Clause E1.6 (b) requires the portable fire extinguishers the travel distance from the entrance doorway of any sole-occupancy unit to the nearest fire extinguisher is not more than 10 m. On review of the proposed floor plans for the building, this would be a Dts departure. Due to the entry doorways of the ground floor two storey units are on the ground level.		
	Therefore, the provision of a portable fire extinguisher at the main entrance of the sole-occupancy unit would be a technical non-compliance with Clause E1.6 (b) as it will not permit to serve the storeys above.		
12	Fire control centres	D2.15	CP9
	The fire control room has been proposed to be constructed and have two steps at the entry doorway located at the front entrance of the building.	E1.8 Spec E1.8 (8)(a)	EP1.6
	The provision of the steps in lieu of a landing is considered to be a technical non-compliance with Specification E1.8 Clause 8(a) due to the steps can obstruct or hinder access to the room.		
	At the construction certificate stage, a fire engineer will need to carry out the feasibility to address the fire control DtS departure from Specification E1.8 Clause 8(a).		

Item	Possible Performance Solution	DtS	Performance
		Provision	Requirements
	RL \$7/43 FIRE CONTROL UOBBY RL \$8/32 RL \$8/32 FIRE CONTROL FIRE FIRE FIRE FIRE FIRE FIRE FIRE FIRE		
13	Provision for special hazards	E1.10	EP1.1
			EP1.2
	The provision for solar panels on the roof top is considered a		EP1.3
	Special nazard to be considered as part of the Fire		EP1.4
			LFZ.Z
	A fire-engineered performance solution will be required to address this deviation.		
14	Zone Pressurisation System	E2.2	CP4
	There are Class 6, 7b and 9b parts located across more than 1 fire compartment in the building and therefore a zone pressurisation system in accordance with AS 1668.1 is		EP2.2
	required.		
	A Performance Solution may be prepared to omit a zone		
11	pressurisation system.		
	The proposed method of weatherproofing the roof and external wall is to be assessed a on Performance Basis. A Performance Solution is to be prepared by a registered	-	FF 1.4
	Architect or Façade Engineer in consultation with all stakeholders and submitted as part of the Construction Certificate Application.		

5.3 Required Design Amendments

The following items have been identified as departures from the BCA deemed-to-satisfy provisions, and Credwell recommend these items to be resolved with minor design amendments prior to the application for construction certificate:

Item	Design amendments required	DtS Provision
1.	Number of exits required	D1.2
	The retail part of the building has not been shown with a doorway which may affect our assessment of travel distances.	
	An assessment against this provision is not included in a DA stage report due to the level of documentation provided. Pending further engagement, this will be assessed upon receipt of Construction Documentation.	
2.	Separation of rising and descending stairs	D2.4
	The stairs rising from the basement levels to the ground floor appear to connect to the stairs descending from the residential levels to the ground floor.	
	In accordance with D2.4, rising and descending stairs are to be separated with smoke proof construction. Further information to be provided to enable further assessment.	
	An assessment against this provision is not included in a DA stage report due to the level of documentation provided. Pending further engagement, this will be assessed upon	
	receipt of Construction Documentation.	
3.	Swinging doors	D2.20
	The main entry doors to the ground floor lobby will be required to amended to swing outwards in the direction of egress.	

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Item	Design amendments required	DtS Provision
	The double doors to the community centre are required to swing in the	
	direction of egress as panic bars are required under Clause D2.21	
	ADER RL 58,32 RL 58,32 RL 58,32 RL 58,32 PARCEL CUPBOARO	
	An assessment against this provision is not included in a DA stage report due to the level	
	of documentation provided. Pending further engagement, this will be assessed upon	
4.	Facilities in Class 3 to 9 buildings	F2.3
	At the design team has proposed that the childcare part of the building	
	on level one will include a population of 60 Children and 14 staff.	
	An assessment against this provision is not included in a DA stage report due to the level of documentation provided. Pending further engagement, this will be assessed upon receipt of Construction Documentation.	

6 Statement of Compliance

Credwell Consulting have completed a high level assessment of the subject proposed development for the Development Application Stage, as indicated on the drawings referenced in Annexure A of this Report, against the relevant requirements of the NCC. The details of this are specified in the Assessment Table provided in Annexure B of this Report. Subject to this assessment, Credwell Consulting advise that the design of the proposed development complies, or is capable of complying, with the relevant requirements of the NCC.



Annexure A - Reviewed Documentation

This Report is based on review of the documentation listed below prepared by SJB Architects

Drawing Number	Revision	Title
DA-0201	66	Floor Plan B4
DA-0202	66	Floor Plan B3
DA-0203	66	Floor Plan B2
DA-0204	66	Floor Plan B1
DA-0205	66	Floor Plan Ground
DA-0206	66	Floor Plan Upper Ground
DA-0207	66	Floor Plan L1
DA-0208	66	Floor Plan L2
DA-0209	66	Floor Plan L3
DA-0210	66	Floor Plan L4
DA-0211	66	Floor Plan L5
DA-0212	66	Floor Plan L6-L7
DA-0214	66	Floor Plan L8-L10
DA-0215	66	Floor Plan L9
DA-0216	66	Floor Plan L10
DA-0217	66	Floor Plan L11
DA-0218	66	Floor Plan 12-15
DA-0221	66	Floor Plan L16
DA-0222	66	Floor Plan L17
DA-0223	66	Roof Plan
DA-0501	66	North Elevation
DA-0502	66	East Elevation
DA-0503	66	South Elevation
DA-0504	66	West Elevation
DA-0601	66	Building Section 1



Annexure B - Detailed Assessment

The following Assessment Table outlines a clause by clause review of the subject proposed development against the relevant Deemed-To-Satisfy (DTS) provisions of the NCC. Where a clause is not relevant to the proposed development, no discussion of that clause is provided.

The following abbreviations have been used in the table below:

PS Performance Solution

The design does not comply with the clause, however, a Performance Solution is proposed to justify the design in its current format.

CRA Compliance Readily Achievable

It is considered that, whilst there is insufficient information currently provided to determine strict compliance with the relevant DTS clause, the proposed design can comply in its current format.

Complies The proposed design complies with the relevant DTS clause

DNC Does Not Comply

The proposed design does not comply with the relevant DTS clause and requires amendment.

FI Further Information

Further information is required to determine whether the proposed design satisfies the requirements of the relevant DTS clause.

N/A Not Applicable

The relevant DTS clause is considered not applicable to the subject proposed development but requires further explanation to confirm reason(s).

Noted The relevant DTS clause specifies information only, no assessment is required.



SECTIO	N B - STRUCTURE		
Claus	e	Comments	Assessment
Part E	31 – Structural provis	ions	
B1.0	Deemed-to-Satisfy Provisions	Information only.	Noted
B1.1	Resistance to actions	Resistance to actions must be in accordance with this clause. Structural Engineer to certify.	CRA
B1.2	Determination of individual actions	The magnitude of individual actions must be determined in accordance with this clause.	CRA
B1.4	Determination of structural resistance of materials and forms of construction	The structural resistance of materials and forms of construction must be determined in accordance with this clause. Structural Engineer to certify.	CRA
B1.5	Structural software	Structural software used in computer aided design of a building or structure must comply with the ABCB Protocol for Structural Software in accordance with this clause. Structural Engineer to certify.	CRA
B1.6	Construction of buildings in flood hazard areas	A Class 2 or 3 building, Class 9a health-care building, Class 9c building or Class 4 part of a building in a flood hazard area must comply with this clause.	CRA
SECTIO	N C - FIRE RESISTANC	E	
Claus	e	Comments	Assessment
Part (C1 - Fire resistance ar	nd stability	
C1.0	Deemed-to-Satisfy Provisions	Information only.	Noted
C1.1	Type of construction required	The building, having a rise in storeys of 16 and containing a Class 2 part on the top storey, is required to be Type A construction. Each building element must comply with Specification C1.1 as	CRA
C1.2	Calculation of rise	The building has a rise in storeys of 19	Noted
C1.3	Buildings of multiple classification	The top storey of the building contains a Class 2 part.	Noted
C1.4	Mixed types of construction	The building will be a single type of construction – Type A, therefore this clause does not apply.	Noted
C1.5	Two storey Class 2, 3 or 9c buildings	The building will be of Type A construction; therefore, this clause does not apply.	N/A
C1.6	Class 4 parts of buildings	The building does not contain a class 4 part; therefore, this clause does not apply.	N/A
C1.8	Lightweight	If lightweight construction is utilised to achieve an FRL, it must comply with this clause and Specification C1.8.	CRA
C1.9	Non-combustible building elements	The building is required to be of Type A construction, therefore, the building elements listed in this clause must be non- combustible. Where a building element is required to be non- combustible, all materials forming that element are to be non- combustible. This clause also identifies building elements to which it does not apply. Also, it should be noted that wall systems utilising permanent polymer/PVC formwork (e.g. Dincel, Rediwall, etc.) used where the NCC requires the element to be non-combustible, must be justified by a Performance Solution prepared by a suitably qualified fire safety engineer.	CRA
C1.10	Fire hazard properties	The fire hazard properties of all materials must comply with this clause and Specification C1.10.	CRA

Clause		Comments	Assessment
C1.11	Performance of external walls in fire	The building has a rise on storeys of 15, therefore this clause does not apply.	N/A
C1.13	Fire-protected timber: Concession	Fire-protected timber has not been proposed in this building.	N/A
C1.14	Ancillary elements	In accordance with clause C1.14 of the BCA, attachments to the external walls must be non-combustible, except where exempt by the clause. The Deemed-to-satisfy provisions are not met as fixed planter boxes, proposed to contain living plants appear to be attached to various portions of the external façade (balconies). Living plants cannot be tested in accordance with AS 1530.1 and therefore must be assessed on a Performance Basis. Further detail is to also be provided to confirm the construction of the planter boxes and any element contained within them.	DNC PS refer to section 5
Part C2	- Compartmentation	and separation	
C2.0	Provisions	Information only.	Noted
C2.1	Application of Part	Clause 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 or an open-deck carpark.	Noted
C2.2	General floor area and volume limitations	Class 2The Class 2 part of the building are not subject to the floor area and volume limitations of C2.2. Rather, Table 3 of Specification C1.1 and clause C3.11 regulate the compartmentation and separation requirements applicable to Class 2 buildings or parts.Class 6 & 7bMaximum Floor Area Maximum Volume 30,000m3Class 7aThe carpark is required to be sprinkler protected, therefore, depending on the type of sprinkler system installed, may not be subject to maximum floor area or volume limitations (see clause C2.1). Regardless, having a floor area of approximately 6,124m2, the Class 7a part of the building complies with the requirements of this clause.Class 9bMaximum Floor Area Maximum Volume 48,000m3	CRA
C2.6	Vertical separation of openings in external walls	The requirements of this Clause are not applicable to the building, as a sprinkler system complying with AS2118.1-2017 has been proposed to be installed throughout the class 2 part of the building.	N/A
C2.7	Separation by fire walls	Where firewalls are utilised, they must comply with this clause.	CRA
C2.8	Separation of classifications in the same storey	The building contains storeys with different classifications located alongside one another. Each building element will be required to be provided with the highest FRL prescribed in Specification C1.1 Table 3 of the NCC or the different classifications must be separated from one another by fire walls.	CRA
C2.9	Separation of classifications in different storeys	The building contains storeys with different classifications located above the other in adjoining storeys. The floor between the adjoining parts with different classifications must have an FRI of	CRA PS Refer to section 5



	Comments	Assessment
	not less than that prescribed in Specification C1.1 for the	
	classification of the lower storey.	
	It is anticipated that the retail areas on ground floor will be subject	
	to a proposed reduction of FRL from 180 minutes to 120 minutes	
Separation of lift shafts	Ine lift must be enclosed within a shaft that has the FRLs outlined in Specification C1.1 with reference to the classification in which it is located. Based on the review of the architectural plans we cannot determine if the wall type details have been nominated.	CRA
Stairways and lifts in one shaft	The fire-isolated stairway and the lift are in separate shafts.	CRA
Separation of equipment	Equipment including lift motor rooms, emergency generators sustaining emergency equipment operating in emergency mode, central smoke control plan, boilers or battery areas with a voltage exceeding 24 volts and a capacity exceeding 10 ampere hours must be fire separated from the remainder of the building in accordance with this clause.	CRA
	If the main switch room sustains emergency equipment operating in emergency mode, the room is to be separated from the remainder of the building with construction having a FRL of not less than 120/120/120.	
Electricity supply system	Where emergency equipment is required in a building, all switchboards in the electrical installation that 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.	CRA
Public corridors in Class 2 and 3 buildings	The Class 2 parts of the building do not incorporate any public corridors that have a length of more than 40m.	N/A
- Protection of openi	ngs	
Provisions	Information only.	Noted
Application of Part	Information only.	Noted
Protection of openings in external walls	There are openings in the external walls facing towards the Southern boundary of which are located within 3m of side boundary being the windows located in community centre and childcare. These openings must be adequately shielded from exposure or protected by one of the methods specified by clause C3.4.	CRA
Separation of external walls and associated openings in different fire compartments	The distance between parts of external walls and any openings within them in different fire compartments separated by a fire wall must not be less than that set out in Table C3.3 are to be protected by construction with an FRL not less than 60/60/60 and the associated openings protected in accordance with Clause C3.4.	CRA
Acceptable methods of protection	 The openings in external walls requiring protection under clause C3.2 must be protected in accordance with the requirements of this clause being: (i) Window openings that are required to be protected are to be protected by internal or external wall-wetting sprinklers with windows that are automatic closing or permanently fixed in the closed position, -/60/- fire windows that are automatic closing or permanently fixed closed or -/60/60 automatic closing fire shutters. 	CRA PS Refer to section 5
	Separation of lift shafts Stairways and lifts in one shaft Separation of equipment Electricity supply system Public corridors in Class 2 and 3 buildings Protection of openi Deemed-to-Satisfy Provisions Application of Part Protection of openings in external walls Separation of external walls Separation of external walls Separation of external walls Application of external walls Application of external walls	Comments not less than that prescribed in Specification C1.1 for the classification of the lower storey. It is anticipated that the retail areas on ground floor will be subject to a proposed reduction of FRL from 180 minutes to 120 minutes Separation of lift shafts The lift must be enclosed within a shaft that has the FRLs outlined in Specification C1.1 with reference to the classification in which is located. Based on the review of the architectural plans we cannot determine if the wall type details have been nominated. Stairways and lifts in one shaft The fire-isolated stairway and the lift are in separate shafts. Equipment including lift motor rooms, emergency generators sustaining emergency equipment operating in emergency mode, central smoke control plan, boilers or battery areas with a voltage exceeding 24 volts and a capacity exceeding 10 amper hours must be fire separated from the remainder of the building in accordance with this clause. Electricity supply system If the main switch room sustains emergency equipment hours and a sustain the electricity supply to the emergency equipment switchgear is separated from non-emergency equipment switchgear is separated from non-emergency equipment switchgear is measurated from non-emergency equipment s

Clause		Comments	Assessment
		Alternatively, a fire engineering performance solution can be	
		prepared to justify the openings located on the Southern	
	De emueure in fine	boundary to be not protected in accordance with Clause C3.4.	
C3.5	Doorways in fire	If fire walls are utilised, any doorways through them must be	CRA
	Walls	There are no sliding fire doors within the subject buildings fire	
C3.6	Sliding fire doors	walls, there for this clause is not applicable.	N/A
	Protection of	No horizontal exits are located within the subject building.	
C3.7	doorways in		N/A
	horizontal exits		
C2 0	Openings in fire-	The doorways opening into the fire-isolated exits, that are not	CBA
C3.0	isolated exits	with self-closing -/60/30 fire door sets	CKA
	Service	Fire-isolated exits must not be penetrated by any service other	
C3.9	penetrations in	than electrical wiring for lighting and intercom systems, water	CRA
	fire-isolated exits	supply for fire services, and other fire related services.	
	Openings in fire-	The lift doors must achieve an FRL of not less than -/60/- and be in	
C3.10	isolated lift shafts	accordance with this clause. Also, the lift indicator panels must	CRA
		comply with this clause.	
		The FRL for self-closing fire doors, as required by C3.11, may be reduced to not loss than 760/20	
	Bounding	The lift shaft opening into the Sou is a non-compliance with the	
C2 11	construction:	requirements of Clause C3.11 (e), as the lift doorways can only	PS Refer to
C3.11	Class 2 and 3	achieve an FRL of 60/-/- fire door in lieu of the required self-	section 5
	Class 4 parts	closing -/60/30 fire door.	
		This are because which is the second s	
		This can be supportable via a performance solution with a fire	
	Openings in floors	All service shafts must achieve the FRI's outlined by Table 3 of	
C3.12	and ceilings for	Specification C1.1.	CRA
	services		
C3.13	Openings in shafts	Openings providing access to service shafts must be protected in	CRA
	Openingefer	accordance with this clause.	_
C3 15	service	elements must comply with this clause	CRA
C3.15	installations	ciencits must comply with this clause.	CIA
62.46	Construction	Construction joints in fire rated building elements must be	65.4
C3.16	joints	protected in accordance with this clause.	CRA
	Columns	Any columns protected with lightweight fire rated materials to	
	protected with	achieve the required FRL must comply with this clause.	
C3.17	lightweight		CRA
	achieve an FRI		
Specific	ation C1.1 – Fire-resis	ting construction	
1	Seene	This Specification contains the requirements for fire resisting	Natad
1	Scope	construction of building elements.	Noted
2	General	-	-
	Exposure to fire	The building is exposed to fire source feature ESE from the	
2.1	source-features	Southern boundary off the neighbouring allotment.	CRA
	Fire construction for	Where a part of a building required to have a FRL depends on	
2.2	Fire protection for	direct vertical or lateral support from another part to maintain its	CPA
2.2	another part	FRL. That supporting part must have a FRL not less than that	CIA
		required by other provisions as set out in this Clause.	
22	Lintols	A lintel must have the FKL required for the part of the building in	CDA
2.3	LIIILEIS	requirements of this clause	UKA
	Method of	The method of attaching or installing a finish. lining, ancillary	
2.4	attachment not to	element or service installation to a building element must not	CRA
	reduce the fire-	reduce the fire-resistance of that element to below that required.	



Clause		Comments	Assessment	
	resistance of building elements			
2.5	General concessions	The proposed building does not meet the provisions of this concession.	N/A	
2.6	Mezzanine floors: Concession	The proposed building does not meet the provisions of this concession.	N/A	
2.7	Enclosure of shafts	 Shafts required to have an FRL must be enclosed at the top and bottom by construction having an FRL not less than that required for the walls of a non-loadbearing shaft in the same building, except that these provisions need not apply to - (a) the top of a shaft extending beyond the roof covering, other than one enclosing a fire-isolated stairway or ramp; or the bottom of a shaft if it is non-combustible and laid directly on the ground. 	PS Refer to section 5	
2.8	Carparks in Class 2 and 3 buildings	The proposed building does not meet the provisions of this concession as the building has a rise in storeys of fifteen (15)	N/A	
3	Type A Construction	-	-	
3.1	Fire-resistance of building elements	The building elements must have FRLs as determined by this clause. See Part 4 of the Report.	CRA	
3.2	Concessions for floors	This clause outlines concessions for when a floor is not required to have a FRL.	Noted	
3.5	Roof: Concession	The roof, being the roof of a Class 2 building, is not required to have an FRL if its covering is non-combustible.	CRA	
3.6	Roof lights	The proposed roof skylights comply with the requirements of this clause.	CRA	
3.7	Internal columns and walls: Concession	The internal columns (except those referred to in clause 3.1(f) Specification C1.1) and walls (except fire walls and shaft walls) within the storey immediately below the roof are granted a concession by this clause to have an FRL of no less than 60/60/60	Noted	
3.9	Carparks	The building does not contain a carpark therefore this Clause does not apply.	N/A	
3.10	Class 2 and 3 buildings: Concession	The building is greater than fifteen storeys and therefore the concessions under this clause do not apply.	N/A	
4	Type B Construction	-	-	
4.1	Fire-resistance of building elements	The building is of Type A construction, therefore this Clause does not apply.	N/A	
4.2	Carparks	The building is of Type A construction, therefore this Clause does not apply.	N/A	
4.3	Class 2 and 3 buildings: Concession	The building is of Type A construction, therefore this Clause does not apply.	N/A	
5	Type C Construction	The building is of Type A construction, therefore this Clause does not apply.	N/A	
5.1	Fire-resistance of building elements	The building is of Type A construction, therefore this Clause does not apply.	N/A	
5.2	Carparks	The building is of Type A construction, therefore this Clause does not apply.	N/A	
Specifica	ation C1.8 – Structura	al tests for lightweight construction		
1	Scope	This Specification describes test methods to be applied to and criteria to be satisfied by a wall system of light weight construction.	Noted	
2	Application	Information only.	Noted	
3	Tests	Tests to walls and lift shafts to comply with this clause.	CRA	
4	Test specimens	Testing to comply with this clause.	CRA	
5	Test methods	Tests to be carried out in accordance with this clause.	CRA	
6	Criteria for compliance	The wall system or the specimen of it must comply with this clause.	CRA	
Specifica	Specification C1.10 – Fire hazard properties			



Clause		Comments	Assessment
1	Scope	This Specification sets out requirements in relation to the fire hazard properties of linings, materials and assemblies in buildings.	Noted
2	Application	Linings, materials and assemblies must comply with the appropriate provisions described in Table 1 of this clause.	Noted
3	Floor linings and floor coverings	Fire hazard properties of the floor linings and floor coverings are to comply with this clause.	CRA
4	Wall and ceiling linings	Fire hazard properties of the wall and ceiling linings are to comply with this clause.	CRA
5	Air-handling ductwork	Fire hazard properties of the air-handling ductwork are to comply with this clause.	CRA
6	Lift cars	Fire hazard properties of the lift cars are to comply with this clause.	CRA
7	Other materials	Fire hazard properties of other materials not covered in Clauses 3, 4, 5 or 6 above are to comply with this clause.	CRA
Specifica	ation C1.11 – Perform	ance of external walls in a fire	
1	Scope	This Specification contains measure to minimise, in the event of fire, the likelihood of external walls covered by clause 2 collapsing outwards as complete panels and the likelihood of panels separating from supporting members.	Noted
2	Application	Information only.	Noted
3	General requirements for external wall panels	The building has a rise in storeys of sixteen (16) therefore this clause does not apply.	N/A
4	Additional requirements for vertically spanning external wall panels adjacent to columns	The building has a rise in storeys of sixteen (16), therefore this clause does not apply.	N/A
Specifica	ation C1.13 – Cavity b	arriers for fire-protected timber	
1	Scope	This Specification sets out requirements for cavity barriers in fire- protective timber construction.	Noted
2	Requirements	The building must comply with the requirements of this clause.	CRA
Specifica	ation C1.13a – Fire-pr	otected timber	N1 / A
1	Scope	The concession does not apply to the building.	N/A
2	General	The concession does not apply to the building. The concession does not apply to the building.	N/A N/A
2.2	Massive timber	The concession does not apply to the building	Ν/Δ
3	Determination of time the timber interface temperature exceeds 300°C for timber at least 75 mm thick	The concession does not apply to the building.	N/A
3.1	Form of test	The concession does not apply to the building.	N/A
3.2	Smaller specimen permitted	The concession does not apply to the building.	N/A
3.3	Acceptance criteria	The concession does not apply to the building.	N/A
Specifica	ation C3.4 – Fire door	s, smoke doors, fire windows and shutters	
1	Scope	This Specification sets out requirements for the construction of fire doors, smoke doors, fire windows and fire shutters.	Noted
2	Fire Doors	Fire doors must comply with AS1905.1-2015 Amendment 1 and this clause.	CRA
3	Smoke Doors	The building does not contain any smoke doors therefore this Clause does not apply.	CRA
4	Fire Shutters	The building does not contain any fire shutters therefore this Clause does not apply.	CRA

Clause		Comments	Assessment	
5	Fire Windows	Fire windows must comply with this clause and the manufacturer's specifications.	CRA	
Specification C3.15 – Penetration of walls, floors and ceilings by services				
1	Scope	This Specification prescribes material and methods of installation for services that penetrate walls, floors and ceilings required to have an FRL.	Noted	
2	Application	Information only.	Noted	
3	Metal pipe systems	Metal pipe system penetration must comply with this clause.	CRA	
4	Pipes penetrating sanitary compartments	Pipes penetrating sanitary compartments must comply with this clause.	CRA	
5	Wires and cables	Wire and cable penetrations must comply with this clause.	CRA	
6	Electrical switches and outlets	Electrical switches and outlets must comply with this clause.	CRA	
7	Fire-stopping	Fire-stopping must comply with this clause.	CRA	
SECTION	D - ACCESS AND EG	iress		
Clause		Comments	Assessment	
Part D1	- Provision for esc	аре		
D1.0	Deemed-to-Satisfy Provisions	Information only.	Noted	
D1.1	Application of Part	The Deemed-to-Satisfy Provisions of this Part do not apply to the internal parts of a sole-occupancy unit in a Class 2 or 3 building or a Class 4 part of a building.	Noted	
D1.2	Number of exits required	effective height of more than 25m, it must contain at least two (2) exits from each storey. The Deemed-to-Satisfy provisions are not met as the following locations are provided with access to one (1) exit in lieu of two (2) exits: • <u>Class 9b</u> The childcare centre and community centre part of the building located on level 1	DNC PS	
D1.3	When fire-isolated stairways and ramps are required	The exit stairways are required to be fire-isolated and is indicated as such on the plans.	CRA	
D1.4	D1.4	 The following areas have been provided with non-complaint exit travel distances: <u>Ground floor carpark</u> The ground floor park has been provided with a non-complaint distance to a point of choice measured to be 23m in lieu of 20m <u>Upper ground floor</u> The upper ground floor has been provided with a with a non-complaint distance to a point of choice measured to be 26m in lieu of 20m <u>Level 1</u> 	DNC PS	

Clause		Comments	Assessment
		The travel distance has been measured to be 31m in lieu of 20m to a single exit (being the open space) for the community centre.	
		• <u>Residential Levels</u>	
		The exit travel distances within the residential parts of the building level 2 to level 17 have been provided with a non-complaint distance measured at 9m to a point where two exits are available.	
		The exit travel distances do not meet the deemed to satisfy provisions of the NCC and must be assessed on a Performance Basis at construction stage.	
D1.5	Distance between alternative exits	The distance between exits on Basement level 1 is 6.8m in lieu of 9.0m minimum The distances between do not meet the deemed to satisfy provisions of the NCC and must be assessed on a Performance Basis at construction stage	DNS PS
D1.6	Dimensions of exits and paths of travel to exits	The exits must have an unobstructed width (measured clear of handrails) of no less than 1,000mm. The width of approximately 1,200mm is required to install compliant handrails to both sides of a stairway.	Complies
D1.7	Travel via fire- isolated exits	 The following non compliances have been identified in relation to the travel via fire isolated exits: 1. Doorways in the fire-isolated passageway ground floor There are doorways that open directly into the fire-isolated passageway on the ground. To comply the doorways will be required to be provided with an airlock with a self-closing fire door. 2. Discharge point ground floor The fire-isolated stairs from the residential levels adjacent the residential lobby discharges within the entry lobby which is under the building line in lieu of discharging directly (or via a fire-isolated passageway) to a road or open space or to a part of a building in accordance with Clause D1.7(b)(ii) or D1.7 (b)(iii). Furthermore, the path of travel from the discharge point to open space requires travel pass unprotected openings Clause D1.7(c). The non-compliances related to the discharge point on the ground floor can be supportable via performance solution with a fire engineer.	DNC PS Refer to section 5
D1.8	External stairways or ramps in lieu of fire-isolated exits	The building has not been provided with external stairways or ramps in lieu of fire-isolated exits; therefore, this clause does not apply	N/A
D1.9	Travel by non-fire- isolated stairways or ramps	All exit stairways serving the building are considered to fire isolated.	N/A
D1.10	Discharge from exits	The discharge from exits must comply with the requirements of this clause.	CRA
D1.11	Horizontal exits	The building has not been provided with horizontal exits.	N/A
D1.12	Non-required stairways, ramps or escalators	The building has not been provided with non-required stairways, ramps or escalators.	N/A

Clause		Comments	Assessment
0.0000		Class 6	
		The retail tenancy at the ground floor is assumed to accommodate a maximum of thirty-six (36) people as per the calculation of one (1) person 1m2 for a space.	
D1.13	Number of persons accommodated	Class 9b The childcare at the level 1 floor is assumed to accommodate a maximum of one hundred and three (103) people as per the calculation of one (1) person per 4 m2 for a space.	Noted
		Note: Please advise should the occupation calculation of the not be in accordance with your expectations as this part of the Report will need to be amended	
D1.14	Measurement of distances	Information only.	Noted
D1.15	Method of measurement	Information only.	Noted
D1.16	Plant rooms, lift machine rooms, electricity network substations: concession	The building does not include ladders in lieu of a stairway to provide egress from plant rooms, lift machine rooms, electricity network substations.	N/A
D1.17	Access to lift pits	If the building incorporates a lift pit, access to it must comply with this clause.	CRA
D1.18	Egress from early childhood centres	Class 9b early childhood centres must be located on a storey that is provided with direct access to a road or open space (eg ground floor), except where the building contains a rise of storeys not more than 2 and the early child care centre is the only use within the building.	FI
Dout D2	Construction of ovi	See discussion under D1.2 in relation to the provision of exits.	
Part DZ	Deemed-to-Satisfy		
D2.0	Provisions	Information only.	Noted
D2.1	Application of Part	Clause D2.13, D2.14(a), D2.16, D2.17(d), D2.17(e), D2.21, and D2.24 are the only clauses of this Part that apply to the internal parts of a sole-occupancy unit in a Class 2 building.	Noted
D2.2	Fire-isolated stairways and ramps	 Construction of the fire-isolated stairways must be – (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. 	CRA
D2.3	Non-fire-isolated stairways and ramps	The building does not include non-fire-isolated stairways and ramps; therefore, this clause does not apply.	CRA
D2.4	Separation of rising and descending stair flights	The building does not include any connecting rising and descending flights	CRA
D2.5	Open access ramps and balconies	The building does not include open access ramps and balconies; therefore, this clause does not apply.	N/A
D2.6	Smoke lobbies	The building does not include smoke lobbies therefore, this clause does not apply.	N/A
D2.7	Installations in exits and paths of travel	 Services or equipment comprising - (i) electricity meters, distribution boards or ducts; or (ii) central telecommunications distribution boards or equipment; or 	CRA



Clause		Comments	Assessment
		(iii) electrical motors or other motors serving equipment in the	
		building may be installed 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.	
	Enclosure of space	The space below the stairways located within the fire-isolated	
D2.8	under stairs and	exits must not be enclosed to form a cupboard or similar enclosed	CRA
	ramps	space.	
	Width of required	The building does not include required stairways and ramps over	
D2.9	stairways and	2m in width.	N/A
	ramps	The fleer surface of the ramps must have a slip resistance	
D2 10	Podostrian ramps	classification not loss than that listed in Table D2.14 when tested	CPA
D2.10	recescian ramps	in accordance with AS 4586-2013	CRA
		The enclosing construction of a fire-isolated passageway must	
	Fire-isolated	have an ERL, when tested for a fire outside the passageway in	
D2.11	passageways	another part of the building, of not less than that required for the	CRA
	1	stairway shaft.	
	5 (The childcare outdoor area above the basement carpark is roof as	
D2.12	Roof as open	open space and the BBQ outdoor area located on level 16. Any	CRA
	space	openings from the level below are to be protected.	
D2 12	Coings and risers	The geometry of the stairways and slip-resistance of the stairway	CDA
D2.13	Goings and risers	treads must comply with this clause.	CRA
D2 1/	Landings	The geometry and slip-resistance of landings must comply with	CRA
D2.14	Lanungs	this clause.	CIA
D2 15	Thresholds	The thresholds throughout the building are to not include a step	CRA
D2.13		or ramp within the width of the door leaf.	Clur
D2.16	Barriers to	Barriers (balustrades) must be provided in accordance, and	CRA
	prevent falls	comply, with this clause.	-
D2.17	Handrails	The provision of handrails is to comply with this Clause.	CRA
		A fixed platform, walkway, stairway, ladder and any going and	
		riser, landing, nandrall or barrier attached thereto may comply	
	Eived platforms	with AS 1657-2018 in lieu of D2.13, D2.14, D2.16 and D2.17 if it	
	walkways	(a) machinery rooms hoiler houses lift-machine rooms plant-	
D2.18	stairways,	rooms and the like or	CRA
	ladders	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 a	
		building.	
	Doorways and	All doorways and doors forming the path travel to an exit are	
D2.19	doors	swinging doors and are to comply with the requirements of this	CRA
	40013	clause.	
		The main entry doors to the ground floor lobby will be required to	
		amended to swing outwards in the direction of Egress.	
		The double doors to the community centre are required to swing	
		In the direction of egress as panic bars are required under Clause	
		D2.21 The door way design will be required to be amended.	
		The swinging exit doors throughout the building comply	
		The swinging exit doors throughout the building comply.	DNC
D2.20	Swinging doors	The swinging door(s) serving the exits must not encroach -	PS refer to
		(a) at any part of its swing by more than 500mm on the required	section 5
		width (including any landings) of a required—	
		(i) stairway; or	
		(ii) ramp; or	
		(iii) passageway,	
		if it is likely to impede the path of travel of the people already	
		using the exit; and	



D2.21 Operation of latch B2.22 Re-entry from fire-isolated exits Re-entry from Fire-isolated exits D2.22 Re-entry from fire-isolated exits	CRA
D2.21 Operation of latch D2.22 Re-entry from fire-isolated exits Re-entry from fire-isolated exits Fire-isolated stair doorway must always facilitate re-entry from within the stair back onto the floor on every 4th level and on all levels in the event of a fire alarm, where the exit stair serves a	CRA
D2.21 Operation of latch All doorways must be provided with latches compliant with the requirements of this clause. D2.22 Re-entry from fire-isolated exits Fire-isolated stair doorway must always facilitate re-entry from within the stair back onto the floor on every 4th level and on all levels in the event of a fire alarm, where the exit stair serves a	CRA
other furniture or attachments to the door. D2.21 Operation of latch All doorways must be provided with latches compliant with the requirements of this clause. D2.22 Re-entry from fire-isolated exits Fire-isolated exits Fire-isolated stair back onto the floor on every 4th level and on all levels in the event of a fire alarm, where the exit stair serves a	CRA
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D2.22 Re-entry from within the stair back onto the floor on every 4th level and on all levels in the event of a fire alarm, where the exit stair serves a	
fire-isolated exits levels in the event of a fire alarm, where the exit stair serves a	CDA
	CKA
storey above 25m in effective height.	
Signage must be located on or adjacent to all fire doors in	
accordance with this clause. For the self-closing doors, the sign is	
to say -	
FIRE SAFETY DOOR	
D2.23 Signs on doors	CRA
DO NOT KEEP OPEN.	
FIRE SAFETY DOOR – DO NOT OBSTRUCT.	
contrasting to the background of the sign	
The windows to the bedrooms must be protected in accordance	
Protection of with this clause. All windows on storeys 4m above the surface	
D2.24 openable below are to be provided with barriers in accordance with the	CRA
windows requirements of this clause.	
Timber stairways:	
D2.25 Concession The provisions of this Clause do not apply.	
Part D3 – Access for people with a disability	N/A
An assessment of this Part does not form part of the scope of this Report. Rather, it is covered by ar	N/A
	n/A
Report prepared with reference to the proposed development also prepared by this office.	n/A n Access
Report prepared with reference to the proposed development also prepared by this office. Part E1 – Fire fighting equipment	n Access
Report prepared with reference to the proposed development also prepared by this office. Part E1 – Fire fighting equipment E1.0 Deemed-to-Satisfy Information only. Information only.	N/A
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Report prepared with reference to the proposed development also prepared by this office. Part E1 – Fire fighting equipment E1.0 Deemed-to-Satisfy Provisions Information only. The building must be served by a fire hydrant system compliant with AS 2419.1-2005, within fire stairs or at other approved leasting in general and with this Clause	N/A n Access Noted
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Report prepared with reference to the proposed development also prepared by this office. Part E1 – Fire fighting equipment E1.0 Deemed-to-Satisfy Provisions Information only. E1.3 Fire hydrants Information only. E1.3 Fire hydrants The building must be served by a fire hydrant system compliant with AS 2419.1-2005, within fire stairs or at other approved locations in accordance with this Clause. E1.3 Fire hydrants Compliance is to be determined prior to the issue of the Construction Certificate. E1.4 Fire hose reels The building must be served by a fire hydrant system compliant with AS 2419.1-2005, within fire stairs or at other approved locations in accordance with this Clause. E1.4 Fire hose reels Compliance is to be determined prior to the issue of the Construction Certificate. E1.4 Fire hose reels Compliance is to be determined prior to the issue of the Construction Certificate. E1.5 Sprinklers The building has a rise in storeys of greater than fifteen (15) and includes a Class 2 part, therefore, it must be served by a sprinkler system compliant with by a sprinkler system compliant with Specification E1.5 and AS 2118.1-2017. E1.6 Portable fire extinguisher The building must be provided with portable fire extinguishers. Within the Class 2 to class 9 parts, a 2.5kg ABE powder extinguisher must be located within 10m of all sole occupant	N/A n Access Noted CRA

Clause		Comments	Assessment
E1.10	Provision for special hazards	The provision for solar panels on the rooftop is considered a special hazard to be considered as part of the Fire Engineering assessment A fire-engineered performance solution will be required to address this deviation.	PS Refer to section 5
specific	ation E1.5 – File spill	This Specification sets out requirements for the design and	
1	Scope	installation of fire sprinkler systems.	Noted
2	Application of automatic fire sprinkler standards	Subject to this Specification a sprinkler system must comply with AS2118.1-2017, or Specification E1.5a.	CRA
3	Separation of sprinklered and non-sprinklered areas	The sprinklered and non-sprinklered parts of the building must be fire separated in accordance with this clause.	CRA
4	Protection of openings	Any openings in construction separating sprinklered and non- sprinklered areas must be protected in accordance with NCC Part C3, except where AS2118.1-2017 provides exemptions.	CRA
5	Fast response sprinklers	Fast response sprinklers may be installed only if they are suitable for the type of application proposed and it is demonstrated that the sprinkler system is designed to accommodate their use.	Noted
6	Sprinkler valve enclosures	The sprinkler pump room does not contain direct access to a fire isolated passageway that connects directly to a road or open space. The configuration requires travel via 2x separate fire isolated passageways This can be supportable via performance solution with a fire engineer.	DNC PS Refer to section 5
7	Water supply	The Grade of water supply to the sprinkler system must be in accordance with this clause.	CRA
8	Building occupant warning system	The sprinkler system must be connected to activate a building occupant warning system complying with Clause 7 of Specification E2.2a.	CRA
9	Connection to other systems	Where a smoke hazard management system is installed and is actuated by smoke detectors, the sprinkler system must, wherever practicable, be arranged to also activate the smoke hazard management system.	CRA
10	Anti-tamper devices	Where a sprinkler system is installed in a theatre, public hall or the like, valves provided to control sprinklers over a stage area must be fitted with anti-tamper devices connected to a monitoring panel at the location normally used by the stage manager.	CRA
11	Sprinkler systems in carparks	A sprinkler system protecting a carpark complying with Table 3.9 of NCC Specification C1.1 in a multi-classified building must comply with this clause.	N/A
12	Residential care buildings	In addition to the provisions of AS 2118.4-2012, a sprinkler system in a Class 3 residential aged care building is to be provided with a monitored stop valve in accordance with AS 2118.1-1999 and be permanently connected by an approved monitoring system to a fire station or fire station dispatch centre.	N/A
13	Sprinkler systems in lift installations	 Where sprinklers are installed in a space housing lift electrical and control equipment, including machine rooms, secondary floors and sheave rooms, theses spaces must – (i) have heads protected from accidental damage by way of a guard that will not impair the performance of the head; and be capable of being isolated and drained, either separately or collectively, without isolating any other sprinklers within the building. 	CRA
Specific	ation E1.5a – Class 2 a	and 3 buildings not more than 25m in effective height	
1	application	Information only.	Noted

Clause		Comments	Assessment
2	System requirements	The building has an effective height of more than 25m, therefore this Clause is not applicable.	N/A
3	Permitted	The building has an effective height of more than 25m, therefore	N/A
Specifica	ation F1.8 – Fire cont	rol centres	
1	Scope	This Specification describes the construction and content of fire control centres and rooms.	N/A
2	Purpose and content	A fire control centre must comply with this clause.	N/A
3	Location of fire control centre	A fire control centre must be located so that egress from any part of its floor to a road or open space does not involve changes in level which in aggregate exceed 300mm.	CRA
4	Equipment not permitted within a fire control centre	An internal combustion engine, pumps, sprinkler control valves, pipes and pipe fittings must not be located in a fire control centre but may be located in rooms access through the fire control centre.	CRA
5	Ambient sound level for a fire control centre	Ambient sound levels within the fire control centre when all fire safety equipment is operating must not exceed 65dB(A), with the sound measured in accordance with this clause.	CRA
6	Construction of a fire control room	A fire control centre in a building of more than 50m effective height must be in a separate room in accordance with this clause. Fire control centres in buildings with an effective height of less than 50m are not required to be in a specialised room, but in an area complying with clauses 2, 3, 4 and 5 of NCC Specification F1.8.	CRA
7	Protection of openings in a fire control room	Openings in fire control rooms must be protected in accordance with this clause.	CRA
8	Doors to a fire control room	The fire control room must be accessible via two paths of travel, one from the front of the building and one direct from a public place or fire-isolated passageway. Doors are to be in accordance with this clause.	DNC PS refer to section 5
9	Size and contents of a fire control room	A fire control room must be adequately sized to contain all equipment set out in this clause and have a floor area of not less than that set out in this clause.	CRA
10	Ventilation and power supply for a fire control room	A fire control room must be ventilated in accordance with this clause.	CRA
11	Sign for a fire control room	The external face of the door to the fire control rom must have a sign stating FIRE CONTROL ROOM in letters of not less than 50mm high and in a colour that contrasts with that of the background.	CRA
12	Lighting for a fire control room	Emergency lighting in accordance with NCC Part E4 must be provided to the fire control room in accordance with this clause.	CRA
Part E2 -	- Smoke hazard mana	agement	
E2.0	Deemed-to-Satisfy Provisions	Information only.	Noted
E2.1	Application of Part	Information only.	Noted
E2.2	General requirements	The Class 2 parts of the building must be provided with automatic smoke detection and alarm system complying with Specification E2.2a. There are Class 6, 7b and 9b parts located in more than 1 fire compartment of the building and therefore a zone pressurisation system in accordance with AS 1668.1 is required.	PS Refer to section 5
		A Performance Solution may be prepared to omit a sone pressurisation system.	
E2.3	Provision for special hazards	The building must be provided with an automatic smoke detection and alarm system, and smoke detectors complying with	CRA

Clause		Comments	Assessment
		Specification E2.2a and a Building Occupant Warning System	
		(BOWS).	
		Each Class 2 residential unit is to incorporate an AS3786 smoke	
		and interconnected throughout the SOLL. Accredited fire services	
		engineer will investigate each individual unit to determine the	
		most appropriate location to install the smoke alarm to the	
		requirements of AS3786-2014 to prevent false alarms occurring.	
		Except where the kitchen or other area is in a building protected	
		with a sprinkler system complying with Specification E1.5, the	
		alarms need not be installed in the kitchen or other areas likely to	
		result in spurious signals.	
		The common proce of the building are to incornerate a smalle	
		detection and alarm system installed in accordance with (BOWS)	
		being a sound pressure within each SOLL door is to	
		achieve no less than 85dB(A). Where the smoke alarms are to be	
		in an area the smoke alarm may be able to replace with a heat	
		detector to reduce spurious signals. Please note that the smoke	
		detectors which are required outside the lift and the fire-isolated	
		stairs cannot be replaced with heat detectors under the	
		requirements of AS1670.1-2015. The layout and selection of the	
		smoke alarm system is to be designed by an appropriately	
		accredited fire services engineer.	
		Upon activation of the BOWS, the fans are to run at full speed	
		AS1670.1-2018 and activate a Building Occupant warning System	
		The childcare part of the building will be required to be provided	
		with a shut down and the smoke dampers are activated to close	
		automatically by smoke detectors complying with clause 7.5 of AS	
		1670.1.	
Specific	ation E2.2a – Smoke	detection and alarm systems	
1	Scope	This Specification describes the installation and operation of	Noted
	ccope	automatic smoke detection and alarm systems.	
		The building must be provided with a smoke alarm system	
2	T	complying with clause 3 of Specification E2.2a, a smoke detection	60.4
2	Type of system	system complying with clause 4 of Specification E2.2a, or a	CRA
		system complying with clause 5 of Specification F2.2a	
	Smoke alarm		_
3	system	A smoke alarm system must comply with this clause.	CRA
4	Smoke detection	A smalle detection system must comply with this clause	CDA
4	system		CKA
	Combined smoke	The building has been proposed not have a combined smoke	
5	alarm and smoke	alarm and smoke detection system, therefore this Clause is not	CRA
	detection system	applicable.	
c	Smoke detection	The building has an effective heigh less than 50m, therefore this	NI / A
D	SUSTER	Clause is not applicable.	N/A
	Building occupant	The smoke alarm or detection system must activate a building	
7	warning system	occupant warning system in accordance with this clause.	CRA
	System	The system monitoring must be provided in accordance with this	05.1
8	monitoring	clause.	CRA
Specific	ation E2.2d – Resider	tial fire safety systems	
		Clause 3 describes requirements for connecting residential	
1	Application	sprinkler systems in Class 2 and 3 buildings or a residential care	Noted
		building, to a fire station or other approved monitoring service.	

Clause		Comments	Assessment
	Connection of		
	residential sprinkler systems	The building has not been provided with a connection of	
3	to a fire station or	residential sprinkler systems to a fire station or other approved	N/A
	other approved	nonitoring service, therefore this clause is not applicable.	
Part E3 -	– Lift installations		
E2 0	Deemed-to-Satisfy	Information only	Noted
13.0	Provisions		Noteu
E3.1	Lift installations	An electric passenger lift installation and an electrohydraulic passenger lift installation must comply with Specification E3.1.	CRA
		The lift serves a storey with an effective height above 12m,	
52.2	Stretcher facility	therefore, must be provided with a stretcher facility. A stretcher	CDA
E3.2	in lifts	600mm wide x 2.000mm long to a height of no less than 1.400mm	CKA
		above the floor.	
52.2	Warning against	Warning signage stating –	CDA
E3.3	use of lifts in fire	must be provided in accordance with this clause.	CKA
E2 /	Emorgonovlifts	The building will be required to be provided with a least one	CPA
L3.4	Emergency mus	emergency lift.	CRA
E2 E	Landings	An assessment of this clause does not form part of the scope of	
E3.5	Lanungs	prepared by a third party.	N/A
		An assessment of this clause does not form part of the scope of	
E3.6	Passenger lifts	this Report. Rather, it is to be covered by an Access Report	N/A
		prepared by a third party. The lift serves a storey above an effective height of 12m	
E2 7	Fire service	therefore, must be provided with a fire service recall control	CDA
E3.7	controls	switch and a lift car fire service drive control switch in accordance	CRA
	Fire service recall	with this clause. A fire service recall control switch is to be provided in accordance	
E3.9	control switch	with this clause.	CRA
52.40	Lift car fire service	A lift car fire service drive control switch is to be provided in	CD 4
E3.10	drive control switch	accordance with this clause.	CRA
Specifica	ation E3.1 – Lift Instal	lations	
1	Scope	This Specification contains requirements for electric passenger lift	Noted
	Lift cars exposed	A lift car exposed to solar radiation directly, or indirectly through	
2	to solar radiation	re-radiation, must comply with this clause.	CRA
3	Lift car emergency lighting	A lift car must have emergency lighting complying with this clause.	CRA
4	Cooling of lift	While in service, a lift shaft must have cooling in accordance with	CRA
+	shaft	this clause.	CITA
5	Lift fover access	Where there is a security foyer in a building, access may be via locked security doors provided measures are in place in	CRA
5		accordance with this clause.	0.0.1
C	Emergency access	Emergency access doors in a single enclosed lift shaft must be in	CDA
6	doors in a single enclosed lift shaft	accordance with this clause.	CRA
Part E4	- Visibility in an eme	gency, exit signs and warning systems	
E4.0	Deemed-to-Satisfy Provisions	Information only.	Noted
	Emergency	The building must be provided with an array of the bins in	
E4.2	lighting	accordance with this clause.	CRA
	requirements Measurement of		
E4.3	distance	Information only.	Noted

Clause		Comments	Assessment
ciause	Design and	The emergency lighting system must comply with AS 2293 1-2018	Assessment
	operation of		
E4.4	emergency		CRA
	lighting		
F 4 F	5 U	The building must be provided with exit signage in accordance	CD A
E4.5	Exit signs	with this clause.	CRA
E4.6	Direction signs	Where required, the building must be provided with exit direction	CRA
		signage in accordance with this clause.	
		The requirements of clause E4.5 do not apply to—	
		(a) a Class 2 building in which every door referred to is clearly and logibly labelled on the cide remote from the evit or	
	Class 2 and 3	balcony—	
F4 7	buildings and	(i) with the word "FXIT" in capital letters 25 mm high	CRA
	Class 4 parts:	in a colour contrasting with that of the background:	0.0.0
	Exemptions	or	
		by some other suitable method; and an entrance door of a sole-	
		occupancy unit in a Class 2 building	
	Design and		
E4.8	operation of exit	The exit lighting system must comply with AS 2293.1-2018.	CRA
	signs		
54.0	Emergency	The building exceeds an effective height of more than 25m,	CRA
E4.9	warning and	therefore is required to contain an emergency warning and	
Specifics	ation E4.8 – Photolun	intercom system in accordance with AS 1670.4	
Specifica		This Specification contains the requirements for photoluminescent	
1	Scope	exit signs	Noted
		A photoluminescent exit sign must comply with Section 6 and	
2	Application	Appendix D of AS 2293.1-2018, except as varied by this	Noted
		Specification.	
3	Illumination	Photoluminescent exit signage must comply with this clause.	CRA
4	Pictorial elements	Photoluminescent exit signage must comply with this clause.	CRA
5	Viewing distance	Photoluminescent exit signage must comply with this clause.	CRA
6	Smoke control	Photoluminescent exit signage must comply with this clause.	CRA
SECTION			
SECTION	F - HEALTH AND AN		
Clause		Comments	Assessment
Part F1	 Damp and weath 	nerproofing	
F1.0	Deemed-to-Satisfy Provisions	Information only.	Noted
F1.1	Stormwater	Stormwater drainage for the building must comply with AS/NZS	CRA
	drainage	3500.3-2015.	-
F1 4	External above	Waterproofing membranes for external above ground use, such as	CD A
F1.4	ground	balconies and roots, must comply with AS 4654.1-2012 and AS	CKA
F1 5	Roof coverings	The roof covering must be in accordance with this clause	CRA
11.5	Roor coverings	Sarking-type materials used for weatherproofing of roofs and	CIVI
F1.6	Sarking	walls must comply with AS 4200.1-1994 and AS 4200.2-1994.	CRA
		Waterproofing of the wet areas in the building must comply with	
	Waterproofing of	this clause and AS 3740-2010.	
F1.7	wet areas in		FI
. 1.7	buildings	Further information will be required in relation to the window sill	
	0	height in Sou ensuite bathroom tub to ensure the waterproofing	
		requirements comply.	
		Where a damp-proof course is provided, the material must comply	
F1.9	Damp-proofing	with AS/N7S 2904-1995 or for impervious termite shields AS	CRA
		3660.1-2014.	
<u> </u>	Damp-proofing of	Damp-proofing of floors on the ground must be in accordance	
F1.10	floors on the	with this clause. Where required the vapour barrier is to comply	CRA
	ground	with AS 2870-2011.	



Clause		Comments	Assessment
clause		The bathrooms and laundries located above a sole-occupancy unit	Assessment
E1 11	Provision of floor	or public space m bays a floor wasts, and the floor must be	CDA
F1.11	wastes	graded to the floor waste to normit the drainage of water	CNA
	Subfloor	Where provided sub-floor ventilation is to be in accordance with	
F1.12	Sublicon	this clouce	CRA
	ventilation	this clause.	
F4 40		Glazed assemblies in external walls or roots must comply with AS	CD A
F1.13	Glazed assemblies	2047-2014 or AS 1288-2006 as required by this clause and NCC	CRA
D	Coultant and ath out	Clause B1.4.	
Part F2 -	- Sanitary and other	racilities	
F2.0	Deemed-to-Satisty	Information only.	Noted
	Provisions		
	Facilities in	The provision of facilities to all other units complies.	
F2.1	residential		CRA
	buildings		
	Calculation of	The number of persons served by the new sanitary facilities must	
F2.2	number of	be calculated in accordance with clause D1.13.	Noted
	occupants and		
	facilities		
		The toilet bank on the level 1 childcare centre do not comply with	
F2.3	Facilities in Class 3	this provision based on the calculation of number of occupants	CRA
	to 9 buildings	and facilities under Clause D1.13 of this report.	
	Accessible	An assessment of this clause does not form part of the scope of	N/A
F2.4	sanitary facilities	this Report. Rather, it is covered by an Access Report prepared by	
		a third party.	
	Construction of	The sanitary compartments must be provided with clearance in	
F2.5	sanitary	accordance with NCC Figure F2.5.	CRA
	compartments		
	Interpretation:	Information only	
F2.6	Urinals and		Note
	washbasins		
_	Microbial	Information only	
F2.7	(legionella)		Note
	control		
Part F3 -	- Room heights		
F3.0	Deemed-to-Satisfy	Information only.	Noted
	Provisions		
F3.1	Height of rooms	The height of all spaces and rooms must comply with the	CRA
	and other spaces	requirements of this clause.	
Part F4 -	 Light and ventilation 	n	
F4 0	Deemed-to-Satisfy	Information only	Noted
14.0	Provisions		Noted
F4 1	Provision of	Natural light must be provided to bedrooms and dormitories	CRA
14.1	natural light	within the Class 2 parts.	CIA
	Methods and	The method and extent of natural light provided to bedrooms and	CRA
F4.2	extent of natural	dormitories within the Class 2 parts must be in accordance with	
	light	the requirements of this clause.	
	Natural light	Natural light can be berrowed (where required) in accordance	CRA
F4.3	borrowed from	with the requirements of this clause	
	adjoining room	with the requirements of this clause.	
F4 A	Artificial lighting	Artificial lighting must be provided throughout the building in	CRA
14.4		accordance with the requirements of AS 1680.0-2009.	
F4 5	Ventilation of	All occupiable spaces throughout the building must be provided	CRA
F4.3	rooms	with natural or mechanical ventilation.	
E4 6	Natural	If natural ventilation is utilised, a ventilating area of no less than	CDA
F4.0	ventilation	5% of the floor area must be provided.	СКА
	Ventilation	Ventilation can be borrowed from an adjacent room in accordance	
F4.7	borrowed from	with the requirements of this clause.	CRA
	adjoining room		
54.0	Restriction on	The location of sanitary compartments complies with this clause.	C
F4.8	location of	, , , , , , , , , , , , , , , , , , , ,	complies



Clause		Comments	Assessment	
	sanitary compartments			
F4.9	Airlocks	The provisions of this Clause do not apply to the sanitary facilities within the building.	CRA	
F4.11	Carparks	The carpark must have a system of mechanical ventilation complying with AS 1668.2-2012.	CRA	
F4.12	Kitchen local exhaust ventilation	The building has not been proposed to be provided with a commercial kitchen and therefore this Clause does not apply.	N/A	
Part F5 -	- Sound transmission	and insulation		
F5.0	Deemed-to-Satisfy Provisions	Information only.	Noted	
F5.1	Application of Part	This Part applies to Class 2, 3 and 9c buildings.	Noted	
F5.2	Determination of airborne sound insulation ratings	A form of construction required to have an airborne sound insulation rating must comply with this clause.	CRA	
F5.3	Determination of impact sound insulation ratings	Building elements required to have an impact sound insulation rating must comply with this clause.	CRA	
F5.4	Sound insulation rating of floors	A floor in a 3 building must have a $R_w + C_{tr}$ (airborne) of not less than 50 and a $L_{n,w} + C_l$ (impact) of not more than 62 if it separates sole-occupancy units (SOUs) or a SOU from plant, a lift shaft, a stairway, etc., or parts of a different classification in accordance with this clause.	CRA	
F5.5	Sound insulation rating of walls	Walls must be sound insulated in accordance with this clause.	CRA	
F5.6	Sound insulation rating of internal services	Ducts and waste or water supply pipes that pass through more than one SOU must be separated by construction with an $R_w + C_{tr}$ (airborne) in accordance with this clause.	CRA	
F5.7	Sound isolation of pumps	A flexible coupling must be used at the point of connection between the service pipes in a building and any circulating or other pump.	CRA	
Specifica	Specification F5.2 – Sound insulation for building elements			
1	Scope	This Specification contains details of common forms of construction and their designated DTS weighted sound reduction index.	Noted	
2	Construction Deemed-to-Satisfy	Information only.	Noted	
Specifica	ation F5.5 – Impact so	ound – Test of equivalence		
1	Scope	This Specification describes a method of test to determine the comparative resistance of walls to the transmission of impact sound	Noted	
2	Construction to be tested	Information only.	Noted	
3	Method	Information only.	Noted	
Part F6 -	- Condensation mana	ngement		
F6.0	Deemed-to-Satisfy Provisions	Information only.	Noted	
F6.1	Application of part	Information only.	Noted	
F6.2	Pliable building membrane	Pliable building membrane must comply with this clause.	CRA	
F6.3	Flow rate and discharge of exhaust systems	Flow rate and discharge of exhaust systems must comply with this clause.	CRA	
F6.4	Ventilation of roof spaces	Ventilation of roof spaces must comply with this clause.	CRA	
SECTION	G - ANCILLARY PRO	VISIONS		
Clause		Comments	Assessment	
Part G1	– Minor structures	s and components		

Clause		Comments	Assessment
	Deemed-to-		
G1.0	Satisfy	Information only.	Noted
	Provisions		
		The swimming pool located on the upper ground floor is required	
		to comply with the following	
		A swimming pool with a depth of water more than 300 mm and	
G1.1	Swimming pools	which is associated with a Class 2 or 3 building or	CRA
		Class 4 part of a building, must have suitable barriers to restrict	
		access by young children to the immediate pool	
		surrounds in accordance with AS 1926.1 and AS 1926.2.	
	Refrigerated	Refrigerated chambers, strong-rooms and vaults that are of a	
G1.2	strong-rooms	sufficient size for a person to enter must have facilities in	CRA
	and vaults	accordance with this clause.	
		The outdoor play space must be enclosed on all sides with a	
		barrier which complies with AS 1926.1:2012 to restrict the	
	Outdoor play	children from exiting the premises.	
G1.3	spaces	The above requirements do not apply to a wall, including doors	CRA
		and windows, which form part of the Class 9b early childhood	
		centre.	
		A safe manner for cleaning of windows located 3 or more storeys	
		above ground level must be provided, and compliance is achieved	
	Drovicion for	where:	
NSW	cleaning	the windows can be cleaned wholly from within the	CRA
G1.101	windows	building; or	CNA
	initia de la seconda de la sec	via a method complying with the Work Health and Safety Act 2011	
		and regulations made under that Act.	
Part G2 –	Boilers, pressure ve	essels, heating appliances, fireplaces, chimneys and flues	
	Deemed-to-	Information only.	
G2.0	Satisfy		Noted
	Provisions		
		The installation of a stove, heater or similar appliance in a building	
	Installation of	must comply with AS/NZS 2918-2001 for domestic solid fuel	
G2.2	annliances	burning appliances of AS 1200-2000 for pressure equipment.	CRA
	appliances	The installation of a boilers and pressure vessels is to comply with	
		Specification G2.2.	
G2.3	Open fireplaces	The building does not include open fireplaces.	N/A
G2.4	Incinerator	The building does not include an incinerator room.	N/A
Specificat	rooms	on of hollows and procedure voccols	
Specificat	on G2.2 – Installati	This Specification sets out the requirements for the installation of	
1	Scope	boilers and pressure vessels in buildings.	Noted
2	Boilers and	This Clause does not apply to this building.	N/A
2	pressure vessels		
Part G3 –	Atrium construction	n	
	Application of	The void between levels ground to level 5 connects 5 storeys and	
G3.1	Application of Part	of Part G3 of the BCA	Noted
C 2 2	Dimension of	This Clause does not apply to this building.	N/A
63.2	atrium well		
	Separation of	This Clause does not apply to this building.	N/A
G3.3	atrium by		
	bounding walls	Dounding walls are to have an EDL and lass three CO/CO/CO with	
G3.4	bounding walls	glazed openings protected with all wetting sprinklers	F1



Clause		Comments	Assessment		
G3.5	Construction at	This Clause does not apply to this building.	N/A		
G3.6	Separation at	This Clause does not apply to this building.	N/A		
C2 7	roof	This Clause does not apply to this building	NI/A		
G3.7	Fire and smoke	This Clause does not apply to this building.	N/A N/A		
G3.8	control systems	······································	,		
Specification G3.8 – Fire and smoke control systems in buildings containing atriums					
1	Scope	This Specification sets out the requirements for the design and operation of systems of fire and smoke control in buildings	Noted		
		containing an atrium.	Noted		
2	Automatic fire sprinkler system	This Clause does not apply to this building.	N/A		
3	Smoke control system	This Clause does not apply to this building.	N/A		
	Fire detection	This Clause does not apply to this building.	N/A		
4	and alarm				
	Emergency	This Clause does not apply to this building.	N/A		
5	warning and				
5	intercom				
	systems Standby power	This Clause does not apply to this building	N/A		
6	system		N/A		
	System for	This Clause does not apply to this building.	N/A		
7	excluding smoke				
	isolated exits				
Part G4 –	Construction in alp	ine areas	I		
	Deemed-to-				
G4.0	Satisfy Provisions	Information only.	Noted		
		This Part applies to any building constructed in an alpine area in			
G4.1	Application of	addition to other DtS clauses of the NCC. Where a clause in this	CRA		
	Part	precedence.			
G4.3	External doors	This Clause does not apply to this building.	N/A		
G4 4	Emergency	This Clause does not apply to this building.	N/A		
64.4	lighting	This Clause descendence which the ball disc	N/A		
G4 5	External trafficable	This Clause does not apply to this building.	N/A		
04.5	structures				
	Clear space	This Clause does not apply to this building.	N/A		
G4.6	around				
	Fire-fighting	This Clause does not apply to this building.	N/A		
G4.8	services and				
	equipment				
G4.9	Fire orders	This Clause does not apply to this building.	N/A		
rait 05 -	Deemed-to-				
G5.0	Satisfy Provisions	Information only.	Noted		
	Application of	This Part applies to any Class 2 or 3 building and any Class 10a			
G5.1	Part	building associated with a Class 2 or 3 building constructed in designated bushfire prone area.	CRA		
NSW G5.2		In a designated bushfire prone area, a Class 2 building, a Class 3			
	Protection	building, a Class 4 part of a building or a Class 9 building that is a	CD A		
		associated with such a building or part must comply with this	CKA		
		clause.			



Clause		Comments	Assessment		
Part G6 – Occupiable outdoor areas					
G6.1	Application of Part	This Part applies to "occupiable outdoor areas". The communal open space provided on level 1 childcare centre and the BBQ outdoor area on level 16 is an occupiable outdoor area.	Noted		
G6.2	Fire hazard properties	The communal open space located on level 1 childcare centre and the BBQ outdoor area on level 16 must comply with the fire hazard requirements of this clause.	CRA		
G6.3	Fire separation	For information.	Noted		
G6.4	Provision for escape	The requirements of Part D1 are applicable to the on level 1 childcare centre and the BBQ outdoor area on level 16	Noted		
G6.5	Construction of exits	The requirements of Part D2 apply to the communal open space provided on the in accordance with this clause.	CRA		
G6.6	Firefighting equipment	The requirements of Part E3 apply to the communal open space provided on level 1 and level 16 by this clause.	CRA		
G6.7	Lift installations	The requirements of Part E3 apply to the communal open space provided on level 1 and level 16 by this clause.	CRA		
G6.8	Visibility in an emergency, exit signs and warning systems	The requirements of Part E4 are applicable to the communal open Space provided on the ground floor in accordance with this clause.	CRA		
G6.9	Light and ventilation	The requirements of clause F4.4, F4.8, and F4.9 are applicable to the communal open space provided on level 1 and level 16 in accordance with this clause.	CRA		
G6.10	Fire orders	The requirements of clause G4.9 are applicable to the communal open space provided on level 1 and level 16 in accordance with this clause.	Noted		
SECTION J - ENERGY EFFICIENCY					
A separate Section J Report must be obtained to confirm compliance with this Section. Please contact Credwell Energy on 02 9281 8555 or at <u>info@credwell.com.au</u> for further information regarding obtaining a Section J Report.					