

Date: 2 October 2023 Our Ref: P220163 (5)

NSW Land and Housing Corporation Locked Bag 7028 Liverpool BC NSW 1871 Att: Mr Ned Harper

Dear Ned,

RE: 35 - 39 West St, Lurnea BCA COMPLIANCE ASSESSMENT

Please find enclosed our BCA Compliance Report prepared in respect of the proposed design contained within the architectural documentation provided.

In reviewing the content of this Report, particular attention is drawn to the content of Parts 2, 3 and 4, as: -

- □ Part 3 Provides a Key point summary
- □ Part 4 summarizes the compliance status of the proposed design in terms of each prescriptive provision of the BCA.

The inclusion of this summary enables an immediate understanding of the compliance status of the proposed design to be obtained.

□ Part 5 contains a detailed analysis of the proposed design, and provides informative commentary & recommendation in respect of each instance of prescriptive non-compliance and area of preliminary only (design) detail, as applicable.

This commentary enables the project team to readily identify and understand the nature and extent of information required within the Crown Certificate application to demonstrate the attainment of BCA compliance.

Should you require any further information, please do not hesitate to contact me on the number provided.

Yours faithfully

Kieran Tobin Director

BCA COMPLIANCE ASSESSMENT

PREPARED FOR

NSW Land and Housing Corporation

REGARDING 35 - 39 West St, Lurnea

Prepared By



REPORT REGISTER

The following report register documents the development and issue of this report and project as undertaken by this office, in accordance with the *Quality Assurance* policy of BCA Vision Pty Ltd.

Our Reference	Issue No.	Remarks	Issue Date	
P220163	1	Design Compliance Report	22 November 2022	
P220163	2	Design Compliance Report	20 February 2023	
P220163	3	Design Compliance Report 33 June 202		
P220163	4	Design Compliance Report	25 September 2023	
P220163	5	Design Compliance Report 2 October 2023		
Author		Kieran Tobin Senior NCC Consultant Registered Building Surveyor - Fair Trading no 0409 Grad Dip Building Surveying UWS		

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ision Pty Ltd, P.O. Box 2278, Westfield Hornsby NSW 1635, (02) 9476 8 Building Compliance Report P220163 (5) – **35 – 39 West St, Lurnea**

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1.0 INTRODUCTION

1.1 GENERAL

This "BCA Compliance Assessment" report has been prepared at the request of NSW Land and Housing Corporation, and relates to the premises located at 35 - 39 West St, Lurnea.

The project proposal is for construction of a new residential unit building containing 12 Seniors Living Units

1.2 REPORT BASIS

The content of this report reflects -

- (a) The principles and provisions of BCA 2022, Parts B, C, D, E, F and J;
- (b) Fire Engineering Report 22221F FSER R1.1, prepared by Code performance and dated 04/05/23
- (c) Architectural documentation provided by McIntosh and Phelps

Plan Reference	Plan Description	Dated
A009	SITE PLAN	20/09/23
A101	FLOOR PLAN - GROUND FLOOR	20/09/23
A102	LOWER GROUND FLOOR	20/09/23
A103	FLOOR PLAN - LEVEL 1	20/09/23
A104	ROOF PLAN	20/09/23
A201	SECTIONS 1	20/09/23
A202	SECTIONS 2	20/09/23
A203	SECTION 3	20/09/23
A204	ELEVATIONS	20/09/23
A205	ELEVATIONS	20/09/23

1.4 REPORT PURPOSE

The purpose of this report is to identify the extent to which the proposed works comply with the relevant prescriptive provisions of BCA 2022, Parts B, C, D, E, F and J

Assessment of the proposed design considers each prescriptive BCA provision, and identifies such as either: –

- (a) Being complied with; or
- (b) Not being complied with; or
- (c) Requiring the provision further detail with the future Building Permit or other application or
- (d) Not being relevant to the particular building works proposal.

The status of the design, in terms of these four (4) categories, is summarised within Part 3 of this report.

Where prescriptive non-compliance is identified, suitable recommendations to remedy the non-compliance shall be detailed in Part 4.

In instances where preliminary only detail exists, summary of the information required from the project team for inclusion within future applications (i.e. Crown Certificate) shall also be outlined in Part 4.

2.0 MATTERS IDENTIFIED / RECOMMENDATIONS

2.1 COMPLIANCE PATHWAYS WITHIN THE BCA

Compliance with the NCC is achieved by complying with—(1) the Governing Requirements of the NCC; and

(2) the Performance Requirements.

A2.1 Compliance with the Performance Requirements

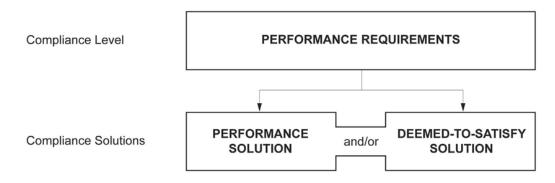
Performance Requirements are satisfied by one of the following, as shown in Figure 1:

(1)A Performance Solution.

(2) A Deemed-to-Satisfy Solution.

(3)A combination of (1) and (2).

Figure 1: NCC compliance option structure



2.2 KEY COMPLIANCE ISSUES IDENTIFIED

The following table provides a list of key compliance issues within the proposed design.

	BCA Clause	Comment
1	C2D2	All building elements to achieve the fire resistance levels of Type C Construction as outlined in Specification C1.1 (Refer Clause 3.4 of this report).
		Sectional Details and wall systems must be detailed within the construction plans
2	C2D10	External wall Construction
	C2D15	AS 1530 Fire Test Certificates will be required for Sarking Insulation and Cladding materials
3	C2D14	Attachments to Buildings
		In regard to Privacy Screens and other attachments to the Building
		An ancillary element must not be fixed, installed, attached to or supported by the concealed internal parts or external face of an external wall that is required to be non-combustible
		AS 1530 Fire Test Certificates will be required to qualify these attachments

C3D13	Separation of Equipment + Electricity Supply System			
C3D14	The Switch room requires 120/120/120 Fire separation from the remainder			
CJD14	of the building and a -/120/30 self closing fire door			
D3D9	Under stair enclosure			
/	It is noted that under stair storage is provided – where it does not = house			
	equipment identified within clauses C3D13 and C3D14 (which require			
	greater fire separation) the enclosures will require a 60/60/60 fire			
	separation and a self closing -/60/30 fire door (and frame)			
C4D12	Self-closing, tight fitting, solid core door, not less than 35 mm thick are required			
	to - All (internal) Unit Entry Doors			
D2D5	Exit Travel Distance			
-	Exit travel distance from Unit 7 exceeds 6m to the first stair riser and is			
	not compliant with the Deemed to Satisfy Requirements of the BCA			
	A Fire Engineered Solution will be proposed			
D2D14	Egress via Non Fire Isolated Stairs			
	The stairs providing egress from Units 7 and 8 do not provide continuous			
	egress via their own flights and landings – part of the egress path is via the			
	lower Lift Landing			
	A Fire Engineered Solution will be proposed			
Part D4	Building Access			
	An Access Consultants Report is required to qualify compliance with Part			
	D4 of the BCA			
E1D2	The Building Requires Fire Hydrant Protection			
Part F6	A Window Schedule is required to allow for consideration of compliant			
•	Light and Ventilation			
Part F7	Wall floor and riser sections are required to determine the method of			
,	Acoustic separation			
	Note services must not be chased into separating walls – provision for			
	services must be detailed			
Part F8	Identify the methods and materials for condensation management			
Part J	BASIX, NatHers and a Section J Parts 3, 5 and 6 assessment is required			
	C3D14 D3D9 C4D12 D2D5 D2D5 D2D14 Part D4 E1D2 Part F6 Part F7 Part F7 Part F8			

3.0 BUILDING DESCRIPTION

3.1 GENERAL

In the context of the Building Code of Australia (BCA), the subject development is described within items 2.2 - 2.6 below.

3.1 **RISE IN STOREYS (CLAUSE C1.2)**

The building is proposed to have a rise in storeys of 2 (two)

2.3 **BUILDING CLASSIFICATION (CLAUSE A3.2)**

The entire building incorporates the following classifications:-

CLASS	DESCRIPTION
Class 2	A Residential Unit Building

2.4 EFFECTIVE HEIGHT (CLAUSE A1.1)

The building has an effective height Not exceeding 12m.

2.5 TYPE OF CONSTRUCTION (TABLE C1.1) Specification C1.1 - Type B Construction

Building element	
	other building element incorporated within it) or other
external building element, where the distance from	
	Class 2
less than 1.5 m	90/ 90/ 90
1.5 to less than 3 m	90/ 60/ 30
3 to less than 9 m	90/30/30
9 to less than 18 m	90/ 30/-
18 m or more	_/_/_
For non-loadbearing parts—	
less than 1.5 m	-/ 90/ 90
1.5 to less than 3 m	-/ 60/ 30
3 m or more	_/_/_
EXTERNAL COLUMN not incorporated in an ex	<i>sternal wall</i> , where the distance from any <i>fire-source</i>
<i>feature</i> to which it exposed is—	
For <i>loadbearing</i> columns—	
less than 18 m	90/_/_
18 m or more	_/_/_
For non- <i>loadbearing</i> columns—	
For non- <i>loadbearing</i> columns—	_/_/_
COMMON WALLS and FIRE WALLS—	90/90/90
INTERNAL WALLS—	
<i>Fire-resisting</i> lift and stair <i>shafts</i> —	
Loadbearing	90/90/90
Fire-resisting stair shafts—	
Non-loadbearing	-/ 90/ 90
Bounding <i>public corridors</i> , public lobbies and the l	like—
Loadbearing	60/ 60/ 60
Non-loadbearing	-/ 60/ 60
Between or bounding <i>sole-occupancy units</i> —	
Loadbearing	60/ 60/ 60
Non-loadbearing	-/ 60/ 60
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OTHER LOADBEARING INTERNAL WALLS and COLUMNS—	60/_/_
ROOFS	_/_/_

3.5 GENERAL FLOOR AREA LIMITATIONS (TABLE C2.2)

Note - Not applicable to residential portion

Subject to the following maximum fire compartment floor area and volume limits for Construction: –

Table C2.2 – Maximum size of Fire Compartments					
Building Class Type A Type B Type C					
5, 9b, 9c	Max Floor area Max Volume	8000 m ² 48,000 m ³	5,500 m ² 33,000 m ³	3000 m ² 18,000 m ³	

3.6 PART B1 - STRUCTURAL PROVISIONS

Structural Engineers Details prepared by an Appropriately qualified Structural Engineer will be required within the Crown Certificate Documentation.

Confirmation will be required that the design achieves compliance with the following standards (where relevant):-

- AS 1170.0 2002 General Principles
- AS 1170.1 2002 Certification of Barriers to Prevent Falls (Dead and Live Loads)
- AS 1170.2 2011 Wind Loads
- AS 1170.4 2007 Earthquake Actions
- AS 3700 2018 Masonry Structures
- AS 3600 2018 Concrete Structures
- AS 4100 1998 Steel Structures
- AS 4600 2018 Cold Formed Steel Structures
- AS 2519- 2009 Piling Design and Installation
- AS 1720.1 2010 Design of Timber Structures
- AS/NZS 1664.1 and 1664.2 1997 Aluminium Construction
- AS 2047 2014 Windows and External Glazed Doors in Buildings
- AS 1288 2006 Glass In Buildings Selection and Installation

4.0 BCA ASSESSMENT – SUMMARY

4.1 GENERAL

The tables contained within items 3.2 - 3.5 below summarise the compliance status of the proposed architectural design in terms of each prescriptive provision of the Building Code of Australia.

For those instances of either "prescriptive non-compliance" or "preliminary only detail", a detailed analysis and commentary is provided within Part 4.

4.2 SECTION C – FIRE RESISTANCE						
BCA reference	Complies	Does not comply	Detail Required	For REF	Not relevant	
C2D1 - Deemed-to-Satisfy Provisions			✓			
C2D2 - Type of construction required				√		
C2D3 - Calculation of rise in storeys				✓	✓	
C2D4 - Buildings of multiple classification					✓	
C2D5 - Mixed types of construction					✓	
C2D6 - Two storey Class 2, 3 or 9c buildings					✓	
C2D7 - Class 4 parts of buildings					✓	
C2D8 - Open spectator stands and indoor sports stadiums					✓	
C2D9 - Lightweight construction			✓			
C2D10 - Non-combustible building elements			✓			
C2D11 - Fire hazard properties			✓			
C2D12 - Performance of external walls in fire					✓	
C2D12 - Feromanee of external wans in file C2D13 - Fire-protected timber: Concession	ł		✓			
C2D13 - The-protected timber: Concession C2D14- Ancillary elements			· ✓			
C2D14- Anomaly clements C2D15-Fixing of bonded laminated cladding panels			✓			
C3D3 - General floor area and volume limitations					✓	
C3D4 - Large isolated buildings					· •	
C3D5 - Requirements for open spaces and vehicular access					· ✓	
C3D5 - Class 9 buildings					· ✓	
C3D7 - Vertical separation of openings in external walls					✓ ✓	
C3D8 - Separation by fire walls					· ✓	
C3D8 - Separation by the waits C3D9 - Separation of classifications in the same storey					✓ ✓	
C3D10 - Separation of classifications in the same storeys					 ✓	
· · · · · · · · · · · · · · · · · · ·					✓ ✓	
C3D11 - Separation of lift shafts					✓ ✓	
C3D12 - Stairways and lifts in one shaft			✓		•	
C3D13 - Separation of equipment			•			
C3D14 - Electricity supply system			•		✓	
C3D15 - Public corridors in Class 2 and 3 buildings	✓				•	
C4D3 - Protection of openings in external walls	•					
C4D4- Separation of external walls and associated openings					✓	
in different fire compartments						
C4D5- Acceptable methods of protection					\checkmark	
C4D6- Doorways in fire walls					▼ ✓	
C4D7-Sliding fire doors						
C4D8- Protection of doorways in horizontal exits					 ✓ 	
C4D9- Openings in fire-isolated exits					 ✓ 	
C4D10- Service penetrations in fire-isolated exits					✓	
C4D11- Openings in fire-isolated lift shafts					v	
C4D12- Bounding construction: Class 2 and 3 buildings and			✓			
Class 4 parts			✓			
C4D13- Openings in floors and ceilings for services			✓ ✓			
C4D14- Openings in shafts						
C4D15- Openings for service installations			√			
C4D16- Construction joints			 ✓ 			
C4D17- Columns protected with lightweight construction to			✓			
achieve an FRL						

4.2 SECTION C – FIRE RESISTANCE

BCA reference	Complies	FER	Does not comply	Detail Required	Not relevant
D2D3 - Number of exits required	✓				
D2D4 - When fire-isolated stairways and ramps are required					✓
D2D5 - Exit travel distances		√			
D2D6 - Distance between alternative exits					✓
D2D7 - Height of exits, paths of travel to exits and doorways				✓	
D2D8 - Width of exits and paths of travel to exits				✓	
D2D9 - Width of doorways in exits or paths of travel to exits				•	
D2D10 - Exit width not to diminish in direction of travel				1	
D2D11 - Determination and measurement of exits and paths of travel to exits				v	
D2D12 - Travel via fire-isolated exits					 ✓
D2D12 - Haver via incensioned exits D2D13 - External stairways or ramps in lieu of fire-isolated exits					· •
D2D15 External stan ways of ramps in nea of the isolated extes D2D14 - Travel by non-fire-isolated stairways or ramps		√			
D2D15 - Discharge from exits	✓				
D2D16 - Horizontal exits					✓
D2D17 - Non-required stairways, ramps or escalators					✓
D2D18 - Number of persons accommodated					✓
D2D19 - Measurement of distances					✓
D2D20 - Method of measurement					✓
D2D21 - Plant rooms, lift machine rooms and electricity network					✓
substations: Concession					
D2D22 - Access to lift pits				1	
D2D23 - Egress from primary schools					✓
D3D3 - Fire-isolated stairways and ramps					✓
D3D4 - Non-fire-isolated stairways and ramps					✓
D3D5 - Separation of rising and descending stair flights					✓
D3D6 - Open access ramps and balconies					√
D3D7 - Smoke lobbies				✓	•
D3D8 - Installations in exits and paths of travel				•	
D3D9 - Enclosure of space under stairs and ramps D3D10 - Width of required stairways and ramps			-	•	✓
D3D10 - width of required stan ways and ramps D3D11 - Pedestrian ramps					•
D3D12 - Fire-isolated passageways					, ,
D3D12 - Roof as open space					✓
D3D14 - Goings and risers				✓	
D3D15 - Landings				✓	
D3D16 - Thresholds				✓	
D3D17 - Barriers to prevent falls				✓	
D3D18 - Height of barriers				✓	
D3D19 - Openings in barriers				✓	
D3D20 - Barrier climbability				✓	,
D3D21 - Wire barriers					✓
D3D22 - Handrails				✓	
D3D23 - Fixed platforms, walkways, stairways and ladders					 ✓
D3D24 - Doorways and doors	✓				•
D3D25 - Swinging doors	•			✓	
D3D26 - Operation of latch D3D27 - Re-entry from fire-isolated exits					✓
D3D27 - Re-entry from fire-isolated exits D3D28 - Signs on doors				✓	*
D3D29 - Protection of openable windows				, ,	
D3D29 - Frotection of openable windows D3D30 - Timber stairways: Concession				-	✓
D4D2 -General building access requirements				✓	
D4D2-General buildings				· •	
D4D4 -Parts of buildings to be accessible				✓	
D4D5 - Exemptions					✓
D4D6 -Accessible carparking				✓	
D4D7 -Signage				✓	
D4D8 -Hearing augmentation					✓
D4D9 -Tactile indicators				✓	

4.3 SECTION D – ACCESS AND EGRESS

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D4D10- Wheelchair seating spaces in Class 9b assembly			✓
buildings			
D4D11-Swimming pools			✓
D4D12-Ramps			✓
D4D13-Glazing on an accessway		✓	

E1D2 - Fire hydrants / E1D3 - Sprinklers / E1D5 - Where sprinklers are required: all classifications / E1D5 - Where sprinklers are required: Class 2 and 3 buildings other / E1D7 - Where sprinklers are required: Class 3 building used as a residential care building. / E1D8 - Where sprinklers are required: Class 6 building. / E1D9 - Where sprinklers are required: Class 6 building. / E1D9 - Where sprinklers are required: Class 6 building. / E1D1 - Where sprinklers are required: Class 9 building. / E1D1 - Where sprinklers are required: Class 9 buildings / E1D1 - Where sprinklers are required: Class 9 buildings / E1D1 - Where sprinklers are required: class 9b buildings / E1D1 - Where sprinklers are required: class 9b buildings / E1D1 - Throwsion for special hazards / E1D1 - Fire control centres / E1D1 - Fire control entres / E1D3 - Generations during construction / E1D1 - Fire required: near of a building / E1D3 - Generatings more than 25 m in effective height: Class 2 and 3 buildings and Class 4 part of a building / E2D3 - Geneatings nore than 25 m in effective height: Cla	BCA reference	Complies	Does not comply	Detail Required	Not relevant
E1D3 - Fire hose reels / E1D4 - Sprinklers // E1D5 - Where sprinklers are required: all classifications // E1D6 - Where sprinklers are required: Class 3 building sother // E1D7 - Where sprinklers are required: Class 3 building used as a residential care building. // E1D8 - Where sprinklers are required: Class 6 building. // E1D9 - Where sprinklers are required: Class 9 health-care building. // Used as a residential care building. Class 9 buildings // E1D1 - Where sprinklers are required: Class 9 buildings // E1D1 - Where sprinklers are required: class 9 buildings // E1D1 - Where sprinklers are required: class 9 buildings // E1D1 - Where sprinklers are required: class 9 buildings // E1D1 - Where sprinklers are required: class 9 buildings // E1D1 - Provision for special hazards // E1D1 - Provision for special hazards // E1D1 - Provision for special hazards // E1D3				Required	
1111 Phree sprinklers are required: all classifications / 11116 Where sprinklers are required: Class 3 buildings other / 1117 Where sprinklers are required: Class 3 building used as a / 1107 Where sprinklers are required: Class 6 building / 1108 Where sprinklers are required: Class 7 building, other than / 1108 Where sprinklers are required: Class 7 building, other than / 1109 Where sprinklers are required: Class 9 buildings / 1101 Where sprinklers are required: Class 9 buildings / 11012 Where sprinklers are required: Class 9 buildings / 11012 Where sprinklers are required: aduitional requirements / 11012 Where sprinklers are required: aduitional requirements / 11012 Where sprinklers are required: aduitional requirements / 11013 Where sprinklers are required: aduiting / 11014 Portable fire extinguishers / 11015 Fire control controts / 11016 Fire control exting / 11016 Fire required: aduiting / 11014 <td< td=""><td></td><td></td><td></td><td>✓</td><td></td></td<>				✓	
E11D3 Where sprinklers are required: Class 2 and 3 buildings other E11D6 Where sprinklers are required: Class 2 and 3 building such are sidential care building: E1D7 Where sprinklers are required: Class 3 building, other than an open-deck carpark - E1D8 Where sprinklers are required: Class 9 building, other than an open-deck carpark - E1D10 Where sprinklers are required: Class 9 buildings E1D11 Where sprinklers are required: Class 9 buildings E1D12 Where sprinklers are required: Class 9 buildings E1D13 Where sprinklers are required: Class 9 buildings E1D14 Where sprinklers are required: Class 9 buildings E1D15 - E1D14 Portable fire extinguishers E1D15 - E1D16 Fire contol centres E1D17 - E1D16 Fire contol centres E2D5 - E2D6 Sildings more than 25 m in effective height: Class 2 and 3 buildings and Class 4 part of a building. - E2D7<-Buildings not more than 25 m in effective height: Class 2 and 3					
F1106 Where sprinklers are required: Class 2 and 3 buildings other Bit Darweiter sprinklers are required: Class 3 building used as a * residential care building: * E1108 Where sprinklers are required: Class 4 building. other than an open-deck carpark. * E1109 Where sprinklers are required: Class 7 building. * E1101 Where sprinklers are required: Class 9 health-care building. * E1101 Where sprinklers are required: Class 9 health-care buildings * E1101 Where sprinklers are required: dollargs * E11013 Where sprinklers are required: dollargs * E11014 Price sprinklers are required: dollargs * E11015 Fire control centres * E11014 Fire precautions during construction * E11015 Fire control centres * E1203<-General requirements					√
than residential care buildings E1D7 -Where sprinklers are required: Class 3 building used as a residential ene building E1D8 - Where sprinklers are required: Class 7 building, other than an open-deck carpark. E1D9 - Where sprinklers are required: Class 9 a bealth-care building used as a residential care building. Class 9 buildings E1D10 - Where sprinklers are required: Class 9 buildings E1D12 - Where sprinklers are required: Class 9 buildings E1D12 - Where sprinklers are required: Class 9 buildings E1D12 - Where sprinklers are required: additional requirements E1D13 - Where sprinklers are required: additional requirements E1D14 - Portable fire extinguishers E1D15 - Fire precautions during construction E1D16 - Fire precautions during construction E1D17 - Provision for special hazards E2D3 - General requirements E2D4 - Fire isolated exits E2D5 - Buildings more than 25 m in effective height: Class 5, 6, 7b, 8 or 9b buildings E2D6 - Buildings nore than 25 m in effective height: Class 2 and 3 buildings and Class 4 part of a building E2D8 - Buildings nore than 25 m in effective height: Class 2 and 3 buildings and Class 4 part of a building E2D8 - Buildings nore than 25 m in effective height: Class 5, 6, 7b, 8 C2D1 - Buildings nore than 25 m in effective height: Class 2 and 4 E2D3 - Buildings nore than 25 m in effective height: Class 9 a dure 250 - Buildings nore than 25 m in effective height: Class 9 a dure 250 - Buildings nore than 25 m in effective height: Class 9 a dure 250 - Buildings not more than 25 m in effective height: Class 9 a dure 250 - Buildings not more than 25 m in effective height: Class 9 a dure 250 - Buildings not more than 25 m in effective height: Class 9 a dure 250 - Buildings not more than 25 m in effective height: Class 9 a dure 250 - Buildings not more than 25 m in effective height: Class 9 a dure 250 - Buildings not more than 25 m in effective height: Class 9 a dure 250 - Buildings not more than 25 m in effective height: Class 9 a dure 250 - Buildings not more than 25 m in effective height:					▼ ✓
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E3D6 -Landings				*	
		✓			-
	E3D7 -Passenger lift types and their limitations			✓	

4.4 SECTION E – SERVICES AND EQUIPMENT

BCA Vision Pty Ltd, P.O. Box 2278, Westfield Hornsby NSW 1635, (02) 9476 8613. Building Compliance Report P220163 (5) – **35** – **39 West St, Lurnea**

E3D8 -Accessible features required for passenger lifts	✓	
E3D9 -Fire service controls		
E3D10 -Residential care buildings		
E3D11 -Fire service recall control switch		
E3D12 -Lift car fire service drive control switch		
E4D2 -Emergency lighting requirements	✓	
E4D3 -Measurement of distance	✓	
E4D4 -Design and operation of emergency lighting	✓	
E4D5 -Exit signs	✓	
E4D6 -Direction signs	✓	
E4D7 -Class 2 and 3 buildings and Class 4 parts: exemptions		✓
E4D8 -Design and operation of exit signs	✓	
E4D9 -Emergency warning and intercom systems		✓

BCA reference	Complies	Does not comply	Detail required	Not relevant
F1D3 - Stormwater drainage			√	
F1D4 - Exposed joints			✓	
F1D5 - External waterproofing membranes			✓	
F1D6 - Damp-proofing			✓	
F1D7 - Damp-proofing of floors on the ground			✓	
F1D8 - Subfloor ventilation				✓
F2D2 - Wet area construction			✓	
F2D3 - Rooms containing urinals				✓
F2D4 - Floor wastes			✓	
F3D2 - Roof coverings			✓	
F3D3 - Sarking			✓	
F3D4 - Glazed assemblies			✓	
F3D5 - Wall cladding			✓	
F4D2 - Calculation of number of occupants and facilities				✓
F4D3 - Facilities in Class 3 to 9 buildings				✓
F4D4 - Accessible sanitary facilities			✓	
F4D5 - Accessible unisex sanitary compartments				✓
F4D6 - Accessible unisex showers				✓
F4D7 - Construction of sanitary compartments				✓
F4D8 - Interpretation: urinals and washbasins				✓
F4D9 - Microbial (legionella) control				✓
F4D10 - Waste management				✓
F4D12 - Accessible adult change facilities				✓
F5D2 - Height of rooms and other spaces	✓			
F6D2 Provision of natural light			✓	
F6D3 Methods and extent of natural light			✓	
F6D4 Natural light borrowed from adjoining room				✓
F6D5 Artificial lighting			✓	
F6D6 Ventilation of rooms			✓	
F6D7 Natural ventilation			~	
F6D8 Ventilation borrowed from adjoining room				✓
F6D9 Restriction on location of sanitary compartments				✓
F6D10 Airlocks				✓
F6D11 Carparks				✓
F6D12 Kitchen local exhaust ventilation				✓
F7D3 Determination of airborne sound insulation ratings			✓	
F7D4 Determination of impact sound insulation ratings			✓	
F7D5 Sound insulation rating of floors			√	
F7D6 Sound insulation rating of walls			√	
F7D7 Sound insulation rating of internal services			√	
F7D8 Sound isolation of pumps			✓	

3.1.

BCA reference	Complies	Does not comply	Detail required	Not relevant
Part J0 Energy Efficiency			√	
Part J1 Building Fabric			✓	
NSW J3D2 Application of Part				✓
NSW J4D2 Application of Part			✓	
NSW J4D3 Thermal construction—general			✓	
NSW J4D6 Walls and glazing				✓
NSW J5D2 Application of Part			✓	
J5D3 Chimneys and flues				✓
J5D4 Roof lights				✓
NSW J5D5 Windows and doors				✓
J5D6 Exhaust fans			✓	
J5D7 Construction of ceilings, walls and floors			✓	
J5D8				√
NSW J6D2 Application of Part	✓			
J6D3 Air-conditioning system control			~	
J6D4 Mechanical ventilation system control				✓
J6D5 Fans and duct systems			~	
J6D6 Ductwork insulation			~	
J6D7 Ductwork sealing			~	
J6D8 Pump systems			~	
J6D9 Pipework insulation			4	
J6D10 Space heating			~	
J6D11 Refrigerant chillers				~
J6D12 Unitary air-conditioning equipment			✓	
J6D13 Heat rejection equipment			✓	
NSW J7D2 Application of Part	✓			

3.1. SECTION J – ENERGY EFFICIENCY

5.0 BCA ASSESSMENT – DETAILED ANALYSIS

5.1 GENERAL

With reference to the "BCA Assessment Summary" contained within Part 3 above, the following detailed analysis and commentary is provided.

This commentary is formulated to enable the design documentation to be further progressed, for the purpose of evidencing the attainment of compliance with the relevant provisions of the BCA.

In our opinion compliance with the Building Code of Australia 2022, Volume 1, can be achieved subject to the implementation of the following details into the Construction documentation.

5.2 SECTION C – FIRE RESISTANCE

CLAUSE	CLAUSE REQUIREMENT	ACTION/RECOMENDATION
C2D2	Type of construction required(1)The minimum Type of <i>fire-resisting construction</i> of a building must be determined in accordancewith Table C2D2, except as allowed for—(a)certain Class 2, 3 or 9c buildings, in C2D6; and	Further Detail will be required within the Crown Certificate documentation
	 (b)a Class 4 part of a building located on the top <i>storey</i>, in C2D4(2); and (c)<i>open spectator stands</i> and indoor sports stadiums, in C2D8. (2)Each building element must comply with Specification 5 as applicable. 	
C2D10	Non-combustible building elements(1)In a building required to be of Type A or B construction, the following building elements and their components must be non-combustible:(a)External walls and common walls, including all components incorporated in them including the facade covering, framing and insulation.	Further Detail will be required within the Crown Certificate documentation

(b)The flooring and floor framing of lift pits.	
 (c)Non-loadbearing internal walls where they are required to be fire-resisting. (2)A shaft, being a lift, ventilating, pipe, garbage, or similar shaft that is not for the discharge of hot products of combustion, that is non-loadbearing, must be of non-combustible construction in— (a)a building required to be of Type A construction; and 	
(b)a building <i>required</i> to be of Type B construction, subject to C3D11, in— (i)a Class 2, 3 or 9 building; and	
 (ii)a Class 5, 6, 7 or 8 building if the <i>shaft</i> connects more than 2 <i>storeys</i>. (3)A <i>loadbearing internal wall</i> and a <i>loadbearing fire wall</i>, including those that are part of a <i>loadbearing shafts</i>, must comply with Specification 5. (4)The requirements of (1) and (2) do not apply to the following: (a)Gaskets. (b)Caulking. 	
(c)Sealants.	
(d)Termite management systems.	
(e)Glass, including laminated glass, and associated adhesives, including tapes.	
(f)Thermal breaks associated with—(i)glazing systems; or	
(ii) <i>external wall</i> systems, where the thermal breaks— (A)are no larger than necessary to achieve thermal objectives; and	
(B)do not extend beyond one <i>storey</i> ; and	
(C)do not extend beyond one <i>fire compartment</i> .	
 (g)Damp-proof courses. (h)Compressible fillers and backing materials, including those associated with articulation joints, closing gaps not wider than 50 mm. (i)Isolated— (i)construction packers and shims; or 	
(ii)blocking for fixing fixtures; or	
(iii)fixings, including fixing accessories; or	

(iv)acoustic mounts.	
(j)Waterproofing materials applied to the external face, used below ground level and up to 250 mm above ground level.	
(k)Joint trims and joint reinforcing tape and mesh of a width not greater than 50 mm.	
(l)Weather sealing materials, applied to gaps not wider than 50 mm, used within and between concrete elements.	
(m)Wall ties and other masonry components complying with AS 2699 Part 1 and Part 3 as appropriate,	
and associated with masonry wall construction.	
(n)Reinforcing bars and associated minor elements that are wholly or predominately encased in concrete	
or grout.	
(o)A paint, lacquer or a similar finish or coating.	
(p)Adhesives, including tapes, associated with stiffeners for cladding systems.(q)Fire-protective materials and components <i>required</i> for the protection of penetrations.	
(5) The following materials, when entirely composed of itself, are <i>non-combustible</i> and may be used	
wherever a <i>non-combustible</i> material is <i>required</i> : (a)Concrete.	
(b)Steel, including metallic coated steel.	
(c)Masonry, including mortar.	
(d)Aluminium, including aluminium alloy.	
(e)Autoclaved aerated concrete, including mortar.	
(f)Iron.	
(g)Terracotta.	
(h)Porcelain.	
(i)Ceramic.	
(j)Natural stone.	
(k)Copper.	
(l)Zinc.	

	(m)Lead.	
	(n)Bronze.	
	 (o)Brass. (6)The following materials may be used wherever a <i>non-combustible</i> material is <i>required</i>: (a)Plasterboard. 	
	(b)Perforated gypsum lath with a normal paper finish.	
	(c)Fibrous-plaster sheet.	
	(d)Fibre-reinforced cement sheeting.	
	(e)Pre-finished metal sheeting having a <i>combustible</i> surface finish not exceeding 1 mm thickness and where the <i>Spread-of-Flame Index</i> of the product is not greater than 0.	
	(f) <i>Sarking-type materials</i> that do not exceed 1 mm in thickness and have a <i>Flammability Index</i> not greater than 5.	
	(g)Bonded laminated materials where— (i)each lamina, including any core, is non-combustible; and	
	(ii)each adhesive layer does not exceed 1 mm in thickness and the total thickness of the adhesive layers does not exceed 2 mm; and	
	(iii)the <i>Spread-of-Flame Index</i> and the <i>Smoke-Developed Index</i> of the bonded laminated material as a whole do not exceed 0 and 3 respectively; and when located externally, are fixed in accordance with C2D15.	
C2D11	Fire hazard properties (1)The <i>fire hazard properties</i> of the following internal linings, materials and assemblies within a Class 2 to 9 building must comply with Specification 7: (a)Floor linings and floor coverings.	Further Detail will be required within the Crown Certificate documentation
	(b)Wall linings and ceiling linings.	
	(c)Air-handling ductwork.	
	(d)Lift cars.	
	(e)In Class 9b buildings used as a theatre, public hall or the like— (i)fixed seating in the audience area	

or auditorium; and
(ii)a proscenium curtain <i>required</i> by Specification 32.
(f)Escalators, moving walkways and non-required non fire-isolated stairways or pedestrian ramps
subject to Specification 14.
(g)Sarking-type materials.
(h)Attachments to floors, ceilings, <i>internal walls, common walls, fire walls</i> and to internal linings of <i>external walls</i> .
(i)Other materials including insulation materials other than <i>sarking-type materials</i> .
(2)Paint or fire-retardant coatings must not be used to achieve compliance with the <i>required fire hazard</i>
properties.
(3)The requirements of (1) do not apply to a material or assembly if it is— (a)plaster, cement render, concrete, terrazzo, ceramic tile or the like; or
(b)a <i>fire-protective covering</i> ; or
(c)a timber-framed <i>window</i> ; or
(d)a solid timber handrail or skirting; or
(e)a timber-faced door; or
(f)an electrical switch, socket-outlet, cover plate or the like; or
(g)a material used for— (i)a roof insulating material applied in continuous contact with a substrate; or
(ii)an adhesive; or
 (iii)a <i>damp-proof course, flashing</i>, caulking, sealing, ground moisture barrier, or the like; or (h)a paint, varnish, lacquer or similar finish, other than nitro-cellulose lacquer; or (i)a clear or translucent roof light of glass fibre-reinforced polyester if— (i)the roof in which it is installed forms part of a single <i>storey</i> building <i>required</i> to be Type C construction; and
(ii)the material is used as part of the roof covering; and
(iii)it is not closer than 1.5 m from another roof light of the same type; and
(iv)each roof light is not more than 14 m2 in area; and
(v)the area of the roof lights per 70 m2 of roof surface is not more than 14 m2; or (j)a face plate or neck adaptor of supply and return air outlets of an air handling system; or

	 (k)a face plate or diffuser plate of light fitting and emergency <i>exit</i> signs and associated electrical wiring and electrical components; or (l)a joinery unit, cupboard, shelving, or the like; or (m)an attached non-building fixture and fitting such as— (i)a curtain, blind, or similar decor, other than a proscenium curtain <i>required</i> by Specification 32; and (ii)a whiteboard, <i>window</i> treatment or the like; or (n)timber treads, risers, landings and associated supporting framework installed in accordance with D3D30 where the <i>Spread-of-Flame Index</i> and the <i>Smoke-Developed Index</i> of the timber does not exceed 9 and 8 respectively; or any other material that does not significantly increase the hazards of fire. 	
C2D14	Ancillary elements An <i>ancillary element</i> must not be fixed, installed, attached to or supported by the concealed internal parts or external face of an <i>external wall</i> that is <i>required</i> to be <i>non-combustible</i> unless it is one of the following: (a)An <i>ancillary element</i> that is <i>non-combustible</i> .	Further Detail will be required within the Crown Certificate documentation
	(b)A gutter, downpipe or other plumbing fixture or fitting.	
	(c)A flashing.	
	(d)A grate, grille or similar cover not more than 2 m2 in area associated with a building service.	
	(e)An electrical switch, socket-outlet, cover plate or the like.	
	(f)A light fitting.	
	(g)A required sign.	
	(h)A sign other than one provided under (a) or (g) that— (i)achieves a group number of 1 or 2; and	
	(ii)does not extend beyond one <i>storey</i> ; and	
	(iii)does not extend beyond one <i>fire compartment</i> ; and	
	 (iv)is separated vertically from other signs permitted under (h) by at least 2 <i>storeys</i>. (i)An awning, sunshade, canopy, blind or shading hood other than one provided under (a) that— (i)meets the relevant requirements of Table S7C7 as for an internal element; and 	
	(ii)serves a <i>storey</i> —(A)at ground level; or	
	(B)immediately above a <i>storey</i> at ground level; and (iii)does not serve an <i>exit</i> , where it would render the <i>exit</i> unusable in a fire.	

	 (j)A part of a security, intercom or announcement system. (k)Wiring. (l)Waterproofing material installed in accordance with AS 4654.2 and applied to an adjacent floor surface, including vertical upturn, or a roof surface. (m)Collars, sleeves and insulation associated with service installations. (n)Screens applied to vents, weepholes and gaps complying with AS 3959. (o)Wiper and brush seals associated with doors, windows or other openings. A gasket, caulking, sealant or adhesive directly associated with (a) to (o). 	
C2D15	 Fixing of bonded laminated cladding panels (1)In a building <i>required</i> to be of Type A or B construction, externally located bonded laminated cladding panels must have all layers of cladding mechanically supported or restrained to the supporting frame. (2)An externally located bonded laminated cladding panel need not comply with (1) if it is one of the following: (a)A laminated glass system. (b)Layered plasterboard product. 	Further Detail will be required within the Crown Certificate documentation
	(c)Perforated gypsum lath with a normal paper finish.(d)Fibrous-plaster sheet.(e)Fibre-reinforced cement sheeting. A component of a garage door.	
C3D13	Separation of equipment [2019: C2.12] (1)Equipment other than that described in (2) and (3) must be separated from the remainder of the building with construction complying with (4), if that equipment comprises— (a)lift motors and lift control panels; or (b)emergency generators used to sustain emergency equipment operating in the emergency mode; or (c)central smoke control plant; or	Further Detail will be required within the Crown Certificate documentation
	(d) <i>boilers</i> ; or	
	 (e)a <i>battery system</i> installed in the building that has a total voltage of 12 volts or more and a storage capacity of 200 kWh or more. (2)Equipment need not be separated in accordance with (1) if the equipment comprises— (a)smoke 	

	control exhaust fans located in the air stream which are constructed for high temperature operation in accordance with Specification 21; or	
	(b)stair pressurising equipment installed in compliance with the relevant provisions of AS 1668.1; or	
	(c)a lift installation without a machine-room; or	
	 (d)equipment otherwise adequately separated from the remainder of the building. (3)Separation of on-site fire pumps must comply with the requirements of AS 2419.1. (4)Separating construction must have— (a)except as provided by (b)— (i)an FRL as <i>required</i> by Specification 5, but not less than 120/120/120; and 	
	(ii)any doorway protected with a <i>self-closing</i> fire door having an FRL of not less than -/120/30; or when separating a lift <i>shaft</i> and lift motor room, an FRL not less than 120/-/	
C3D14	Electricity supply system (1)An electricity substation located within a building must— (a)be separated from any other part of the building by construction having an FRL of not less than 120/120/120; and	Further Detail will be required within the Crown Certificate documentation
	 (b)have any doorway in that construction protected with a <i>self-closing</i> fire door having an FRL of not less than -/120/30. (2)A main switchboard located within the building which sustains emergency equipment operating in the emergency mode must— (a)be separated from any other part of the building by construction having an FRL of not less than 120/120/120; and 	
	 (b)have any doorway in that construction protected with a <i>self-closing</i> fire door having an FRL of not less than -/120/30. (3)Subject to (4), electrical conductors must— (a)have a classification in accordance with AS/NZS 3013 of not less than— (i)if located in a position that could be subject to damage by motor vehicles — WS53W; or (ii)otherwise — WS52W; or (b)be enclosed or otherwise protected by construction having an FRL of not less than 120/120/120. (4)The requirements of (3) only apply to electrical conductors located within a building that supply— (a)a substation located within the building which supplies a main switchboard covered by (2); or (b)a main switchboard covered by (2). (5)Where emergency equipment is <i>required</i> in a building, all switchboards in the electrical installation, which sustain the electricity supply to the emergency equipment, must be constructed so that emergency 	

	equipment switchgear is separated from non-emergency equipment switchgear by metal partitions designed to minimise the spread of a fault from the non-emergency equipment switchgear.(6)For the purposes of (5), emergency equipment includes but is not limited to the following: (a)Fire hydrant booster pumps.	
	(b)Pumps for <i>automatic</i> sprinkler systems, water spray, chemical fluid suppression systems or the like. (c)Pumps for fire hose reels where such pumps and fire hose reels form the sole means of fire protection in the building.	
	(d)Air handling systems designed to exhaust and control the spread of fire and smoke.	
	(e)Emergency lifts.	
	(f)Control and indicating equipment. Emergency warning and intercom systems.	
C4D13	 Openings in floors and ceilings for services (1)Where a service passes through— (a)a floor that is required to have an FRL with respect to integrity and insulation; or (b)a ceiling required to have a resistance to the incipient spread of fire, the service must be installed in accordance with (2). (2)A service must be protected— (a)in a building of Type A construction, by a shaft complying with Specification 5; or (b)in a building of Type B or C construction, by a shaft that will not reduce the fire performance of the building elements it penetrates; or (c)in accordance with C4D15. (3)Where a service passes through a floor which is required to be protected by a fire-protective covering, the penetration must not reduce the fire performance of the covering. 	Further Detail will be required within the Crown Certificate documentation
C4D14	Openings in shaftsIn a building of Type A construction, an opening in a wall providing access to a ventilating,pipe, garbage or other service shaft must be protected by— (a)if it is in a sanitary compartment— a door or panel which, together with its frame, is non-combustible or has an FRL of not lessthan -/30/30; or(b)a self-closing -/60/30 fire door or hopper; or	Further Detail will be required within the Crown Certificate documentation

	(c)an access panel having an FRL of not less than -/60/30; or if the shaft is a garbage shaft — a door or hopper of non-combustible construction.	
C3D15	 Openings for service installations (1) The requirements of (2) apply where an electrical, electronic, plumbing, mechanical ventilation, air-conditioning or other service penetrates a building element (other than an external wall or roof) that is required to have an FRL with respect to integrity or insulation or a resistance to the incipient spread of fire. (2) An installation mentioned in (1) must comply with any one of the following: (a)Tested systems — the following applies: (i)The service, building element and any protection method at the penetration— (A) are identical with a prototype assembly of the service, building element and protection method which has been tested in accordance with AS 4072.1 and AS 1530.4 and has achieved the required FRL or resistance to the incipient spread of fire; or (B)differ from a prototype assembly of the service, building element and protection method in accordance with Section 4 of AS 4072.1. (ii)It complies with (i) except for the insulation criteria relating to the service if— (A)the service is a pipe system comprised entirely of metal (excluding pipe seals or the like); and (B)any combustible building element is not located within 100 mm of the service for a distance of 2 m from the penetration; and (C)combustible material is not able to be located within 100 mm of the service for a distance of 2 m from (b)Ventilation and air-conditioning — in the case of ventilating or air-conditioning ducts or equipment, the installation is in accordance with AS 1668.1. (c)Compliance with Specification 13 — the following applies: (i)The service is a pipe system comprised and the oflowing applies: (i)The service is a pipe system comprised and the oflowing applies: (i)The service is a pipe system comprised entirely of metal excluding or air-conditioning ducts or equipment, the installation is in accordance with Specification 13 — the following applies: (i)The service is a pipe system comprised entirely of met	Further Detail will be required within the Crown Certificate documentation

C3D17	Columns protected with lightweight construction to achieve an FRL	Further Detail will be required within the
	 with a prototype tested in accordance with AS 4072.1 and AS 1530.4 to achieve the required FRL; or (b)that differs from a prototype in accordance with Section 4 of AS 4072.1 and achieves the required FRL. (2)The determination of the required FRL must be confirmed in a report from an Accredited Testing Laboratory in accordance with Specifications 1 and 2. (3)The requirements of (1) do not apply where joints, spaces and the like between fire-protected timber elements are provided with cavity barriers in accordance with Specification 9. 	
C3D16	Construction joints (1)Construction joints, spaces and the like in and between building elements required to be fire- resisting with respect to integrity and insulation must be protected in a manner— (a)identical	Further Detail will be required within the Crown Certificate documentation
	required to have a (A)resistance to the incipient spread (B)connects not more than 2 fire compartments in addition to any fire-resisting service shafts; and (C)does not contain a flammable or combustible liquid or gas. (ii)The service is sanitary plumbing installed in accordance with Specification 13 and it— (A)is of metal or UPVC pipe; and (B)penetrates the floors of a Class 5, 6, 7, 8 or 9b building; and (C)is in a sanitary compartment separated from other parts of the building by walls with the FRL required by Specification 5 for a stair shaft in the building and a self-closing –/60/30 fire door. (iii)The service is a wire or cable, or a cluster of wires or cables installed in accordance with Specification 13 and it— of fire; and penetrates a wall, floor or ceiling, but not a ceiling required to have a (A)resistance to the incipient spread (B)connects not more than 2 fire compartments in addition to any fire-resisting service shafts. The service is an electrical switch, outlet, or the like, and it is installed in accordance with Specification 13.	

building element that is required to have an FRL or a resistance to the incipient spread of fire,	
must be installed using a method and materials identical with a prototype assembly of the	
construction which has achieved the required FRL or resistance to the incipient spread of fire.	

5.3 SECTION D – ACCESS AND EGRESS

CLAUSE	CLAUSE REQUIREMENT	ACTION/RECOMENDATION
D2D5	Exit travel distances [2019: D1.4] (1)Class 2 and 3 buildings — (a)The entrance doorway of any sole-occupancy unit must be not more than— (i)6 m from an exit or from a point from which travel in different directions to 2 exits is available; or (ii)20 m from a single exit serving the storey at the level of egress to a road or open space; and (b)no point on the floor of a room which is not in a sole-occupancy unit must be more than 20	Exit travel distance to unit 7 exceeds 6m to the first stair riser and is not compliant with the Deemed to Satisfy Requirements of the BCA
D2D7	 m from an exit or from a point at which travel in different directions to 2 exits is available. Height of exits, paths of travel to exits and doorways 	Further Detail will be required within the
	[2019: D1.6(a)] In a <i>required exit</i> or path of travel to an <i>exit</i> the unobstructed height throughout must be not less than 2 m, except the unobstructed height of any doorway may be reduced to not less than 1980 mm.	Crown Certificate documentation
D2D8	Width of exits and paths of travel to exits [2019: D1.6(b), (c), (d) and (e)] (1)The unobstructed width of each <i>required exit</i> or path of travel to an <i>exit</i> , except for ladders provided in accordance with D2D21, D3D23 or I3D5, and doorways, must be not less than— (a)1 m; or <i>area</i> or <i>ward area</i> ; and 1.8 m in a passageway, corridor or ramp normally used for the transportation of patients in beds within a (b) <i>treatment</i> (c)in a <i>public corridor</i> in a Class 9c <i>aged care building</i> , notwithstanding (2) and (3)— (i)1.5 m; and	Further Detail will be required within the Crown Certificate documentation
	 (ii)1.8 m for the full width of the doorway, providing access into a <i>sole-occupancy unit</i> or communal bathroom. (2)If the <i>storey</i>, <i>mezzanine</i> or <i>open spectator stand</i> accommodates more than 100 persons but 	

	not more than 200 persons, the aggregate unobstructed width of each <i>required exit</i> or path of travel to an <i>exit</i> , except for doorways, must be not less than— (a)1 m plus 250 mm for each 25 persons (or part) in excess of 100; or 1.8 m in a passageway, corridor or ramp normally used for the transportation of patients in beds within a (b) <i>treatment area</i> or <i>ward area</i> . (3)If the <i>storey, mezzanine</i> or <i>open spectator stand</i> accommodates more than 200 persons, the aggregate unobstructed width of each <i>required exit</i> or path of travel to an <i>exit</i> , except for doorways, must be not less than— (a)2 m plus 500 mm for every 60 persons (or part) in excess of 200 persons if egress involves a change in floor level by a stairway or ramp with a gradient steeper than 1 in 12; or	
	 (b)in any other case, 2 m plus 500 mm for every 75 persons (or part) in excess of 200. (4)In an <i>open spectator stand</i> which accommodates more than 2000 persons, the aggregate unobstructed width of each <i>required exit</i> or path of travel to an <i>exit</i>, except for doorways, must be not less than 17 m plus a width (in metres) equal to the number in excess of 2000 divided by 600. 	
D2D9	Width of doorways in exits or paths of travel to exitsIn a required exit or path of travel to an exit, the unobstructed width of a doorway must be notless than— (a)in patient care areas through which patients would normally be transported inbeds— (i)if the doorway provides access to, or from, a corridor of width— (A)less than 2.2 m— 1200 mm; or	Further Detail will be required within the Crown Certificate documentation
	 (B)2.2 m or greater — 1070 mm; and (ii)where the doorway referred to in (i) is fitted with two leaves and one leaf is secured in the closed position in accordance with D3D26(3)(e), the other leaf must permit an unobstructed opening not less than 800 mm wide; or (b)in <i>patient care areas</i> in a <i>horizontal exit</i> — 1250 mm; or (c)the unobstructed width of each <i>exit</i> provided to comply with D2D8(1), (2), (3) or (4), minus 250 mm; or 	
	(d)in a Class 9c building, 800 mm, except— (i)in <i>resident use areas</i> the minimum unobstructed width must be 870 mm; and	

	 (ii)for doorways leading from a <i>public corridor</i> to a <i>sole-occupancy unit</i> the minimum unobstructed width must be 1070 mm; and (iii)where the doorway is fitted with two leaves and one leaf is secured in the closed position in accordance with D3D26(3)(e), the other leaf must permit an unobstructed opening not less than 870 mm wide in <i>resident use areas</i> and 800 mm wide in non-<i>resident use area;</i> or in any other case except where it opens to a <i>sanitary compartment</i> or bathroom — 750 mm wide. 	
D2D10	Exit width not to diminish in direction of travel The unobstructed width of a <i>required exit</i> must not diminish in the direction of travel to a road or <i>open space</i> , except where the width is increased in accordance with D2D8(1)(b) or D2D9(a)(i).	Further Detail will be required within the Crown Certificate documentation
D2D11	Determination and measurement of exits and paths of travel to exitsFor the purposes of D2D7 to D2D10 the following apply: (a)The <i>required</i> width of a stairwayor ramp in a <i>required exit</i> or path of travel to an <i>exit</i> must— (i)be measured clear of allobstructions such as handrails, projecting parts of barriers and the like; and	For Reference
	 (ii)extend without interruption, except for ceiling cornices, to a height not less than 2 m vertically above a line along the nosings of the treads or the floor surface of the ramp or landing. (b)To determine the aggregate unobstructed width, the number of persons accommodated must be calculated according to D2D18. 	
D2D14	Travel by non-fire-isolated stairways or ramps[2019: D1.9](1)A non-fire-isolated stairway or non-fire-isolated ramp serving as a required exit must provide a continuous means of travel by its own flights and landings from every storey served to the level at which egress to a road or open space is provided.(2)In a Class 2, 3 or 4 building, the distance between the doorway of a room or sole- occupancy unit and the point of egress to a road or open space by way of a stairway or ramp that is not fire-isolated and is required to serve that room or sole-occupancy unit must not	Egress via Non Fire Isolated Stairs The stairs providing egress from Units 7 and 8 do not provide continuous egress via their own flights and landings – part of the egress path is via the lower Lift Landing

	 exceed— (a)30 m in a building of Type C construction; or (b)60 m in all other cases. (3)In a Class 5, 6, 7, 8 or 9 building, the distance from any point on a floor to a point of egress to a road or open space by way of a required non-fire-isolated stairway or non-fire-isolated ramp must not exceed 80 m. (4)In a Class 2, 3 or 9a building, a required non-fire-isolated stairway or non-fire-isolated ramp must discharge at a point not more than— (a)15 m from a doorway providing egress to a road or open space or from a fire-isolated passageway leading to a road or open space; or (b)30 m from one of 2 such doorways or passageways if travel to each of them from the non-fire-isolated stairway or non-fire-isolated ramp is in opposite or approximately opposite directions. (5)In a Class 5 to 8 or 9b building, a required non-fire-isolated stairway or non-fire-isolated ramp must discharge at a point not more than— (a)20 m from a doorway providing egress to a road or open space or from a fire-isolated passageway leading to a road or open space; or (b)40 m from one of 2 such doorways or passageways if travel to each of them from the non-fire-isolated stairway or non-fire-isolated passageway leading to a road or open space; or (b)40 m from one of 2 such doorways or passageways if travel to each of them from the non-fire-isolated stairway or non-fire-isolated ramp is in opposite or approximately opposite directions. (6)In a Class 2 or 3 building, if 2 or more exits are required and are provided by means of internal non-fire-isolated stairways or non-fire-isolated ramps each exit must— (a)provide separate egress to a road or open space; and be suitably smoke-separated from each other at the level of discharge. 	
D2D22	Access to lift pits [2019: D1.17] Access to lift pits must— (a)where the pit depth is not more than 3 m, be through the lowest landing doors; or (b)where the pit depth is more than 3 m, be provided through an access doorway complying with the following: (i)In lieu of D2D7 to D2D11, the doorway must be level with the pit floor and not be less than 600 mm wide by 1980 mm high clear opening, which may be reduced to 1500 mm where it is necessary to comply with (ii). (ii)No part of the lift car or platform must encroach on the pit doorway entrance when the car is on a	Further Detail will be required within the Crown Certificate documentation

	 fully compressed buffer. (iii)Access to the doorway must be by a stairway complying with AS 1657. (iv)In lieu of D3D26, doors fitted to the doorway must be— (A)of the horizontal sliding or outwards opening hinged type; and (B)self-closing and self-locking from the outside; and (C)marked on the landing side with the letters not less than 35 mm high: DANGER LIFTWELL – ENTRY OF UNAUTHORIZED PERSONS PROHIBITED – KEEP CLEAR AT ALL TIMES 	
D3D8	 Installations in exits and paths of travel (1)Access to service <i>shafts</i> and services other than to fire-fighting or detection equipment as permitted in the <i>Deemed-to-Satisfy Provisions</i> of Section E, must not be provided from a <i>fire-isolated stairway</i>, <i>fire-isolated passageway</i> or <i>fire-isolated ramp</i>. (2)An opening to any chute or duct intended to convey hot products of combustion from a boiler, incinerator, fireplace or the like, must not be located in any part of a <i>required exit</i> or any corridor, hallway, lobby or the like leading to a <i>required exit</i>. (3)Gas or other fuel services must not be installed in a <i>required exit</i>. (4)Except for in a fire-isolated <i>exit</i> specified in (1), services or equipment enclosed in accordance with (5) may be installed in a <i>required exit</i>, or in any corridor, hallway, lobby or the like leading to a <i>required exit</i>. 	Further Detail will be required within the Crown Certificate documentation
	 (b)central telecommunications distribution boards or equipment; or (c)electrical motors or other motors serving equipment in the building. (5)An enclosure for the purposes of (4) must be suitably sealed against smoke spreading from the enclosure and be— (a)<i>non-combustible</i> construction; or (b)a <i>fire-protective covering</i>. (6)Electrical wiring may be installed in a fire-isolated <i>exit</i> if the wiring is associated with— (a)a lighting, detection, or pressurisation system serving the <i>exit</i>; or (b)a security, surveillance or management system serving the <i>exit</i>; or (c)an intercommunication system or an audible or visual alarm system in accordance with D3D27; or the monitoring of hydrant or sprinkler isolating valves. 	

D3D9	 Enclosure of space under stairs and ramps (1)Fire-isolated stairways and ramps — If the space below a required fire-isolated stairway or fire-isolated ramp is within the fire-isolated shaft, it must not be enclosed to form a cupboard or similar enclosed space. (2)Non fire-isolated stairways and ramps — The space below a required non fire-isolated stairway (including an external stairway) or non fire-isolated ramp must not be enclosed to form a cupboard or other enclosed space unless— (a)the enclosing walls and ceilings have an FRL of not less than 60/60/60; and any access doorway to the enclosed space is fitted with a self-closing –/60/30 fire door. 	Further Detail will be required within the Crown Certificate documentation
D3D14	Goings and risers (1)A stairway must have— (a)not more than 18 and not less than 2 risers in each <i>flight</i> ; and (b)going (G), riser (R) and quantity (2R + G) in accordance with Table D3D14, except as permitted by (2) and (3); and	Further Detail will be required within the Crown Certificate documentation
	(c)constant goings and risers throughout each <i>flight</i> , except as permitted by (2) and (3), and the dimensions of goings (G) and risers (R) in accordance with (1)(b) are considered constant if the variation between— (i)adjacent risers, or between adjacent goings, is no greater than 5 mm; and	
	 (ii)the largest and smallest riser within a <i>flight</i>, or the largest and smallest going within a <i>flight</i>, does not exceed 10 mm; and (d)risers which do not have any openings that would allow a 125 mm sphere to pass through between the treads; and (e)treads which have— (i)a surface with a slip-resistance classification not less than that listed in Table D3D15 when tested in accordance with AS 4586; or 	
	(ii)a nosing strip with a slip-resistance classification not less than that listed in Table D3D15 when tested in accordance with AS 4586; and (f)treads of solid construction (not mesh or other perforated material) if the stairway is more than 10 m high or connects more than 3 <i>storeys</i> ; and	

(g)in a Class 9b building, not more than 36 risers in consecutive <i>flights</i> without a change in direction of at least 30°; and	
 (h)in the case of a <i>required</i> stairway, no winders in lieu of a landing. (2)In the case of a non-<i>required</i> stairway— (a)the stairway must have— (i)not more than 3 winders in lieu of a quarter <i>landing</i>; and 	
 (ii)not more than 6 winders in lieu of a half <i>landing</i>; and (b)the going of all straight treads must be constant throughout the same <i>flight</i> and the dimensions of goings (G) is considered constant if the variation between— (i)adjacent goings, is no greater than 5 mm; and 	
 (ii)the largest and smallest going within a <i>flight</i>, does not exceed 10 mm; and (c)the going of all winders in lieu of a quarter or half <i>landing</i> may vary from the going of the straight treads within the same <i>flight</i> provided that the going of all such winders is constant. (3)Where a stairway discharges to a sloping public walkway or public road— (a)the riser (R) may be reduced to account for the slope of the walkway or road; and the quantity (2R+G) may vary at that location. 	
Landings In a stairway— (a) <i>landings</i> having a maximum gradient of 1:50 may be used in any building to limit the number of risers in each <i>flight</i> and each <i>landing</i> must— (i)be not less than 750 mm long, and where this involves a change in direction, the length is measured 500 mm from the inside edge of the <i>landing</i> ; and	Further Detail will be required within the Crown Certificate documentation
 (ii)have— (A)a surface with a slip-resistance classification not less than that listed in Table D3D15 when tested in accordance with AS 4586; or D3D15 when tested in accordance with AS 4586, where the edge leads to a <i>flight</i> below; and a strip at the edge of the <i>landing</i> with a slip-resistance classification not less than that listed in (B)Table (b)in a Class 9a building— (i)the area of any <i>landing</i> must be sufficient to move a stretcher, 2 m long and 600 mm wide, at a gradient not more than the gradient of the stairs, with at least one end of the stretcher on the <i>landing</i> while changing direction between <i>flights</i>; or (ii)the stair must have a change of direction of 180°, and the <i>landing</i> a clear width of not less 	
	 (2)In the case of a non-<i>required</i> stairway— (a)the stairway must have— (i)not more than 3 winders in lieu of a quarter <i>landing</i>; and (ii)not more than 6 winders in lieu of a half <i>landing</i>; and (b)the going of all straight treads must be constant throughout the same <i>flight</i> and the dimensions of goings (G) is considered constant if the variation between— (i)adjacent goings, is no greater than 5 mm; and (ii)the largest and smallest going within a <i>flight</i>, does not exceed 10 mm; and (c)the going of all winders in lieu of a quarter or half <i>landing</i> may vary from the going of the straight treads within the same <i>flight</i> provided that the going of all such winders is constant. (3)Where a stairway discharges to a sloping public walkway or public road— (a)the riser (R) may be reduced to account for the slope of the walkway or road; and the quantity (2R+G) may vary at that location. Landings In a stairway— (a) <i>landings</i> having a maximum gradient of 1:50 may be used in any building to limit the number of risers in each <i>flight</i> and each <i>landing</i> must— (i)be not less than 750 mm long, and where this involves a change in direction, the length is measured 500 mm from the inside edge of the <i>landing</i> ; and (ii)have— (A)a surface with a slip-resistance classification not less than that listed in Table D3D15 when tested in accordance with AS 4586; or D3D15 when tested in accordance with AS 4586, where the edge leads to a <i>flight</i> below; and a strip at the edge of the <i>landing</i> with a slip-resistance classification not less than that listed in Calace with a Slip-resistance classification not less than that listed in accordance with AS 4586, where the edge leads to a <i>flight</i> below; and a strip at the edge of the <i>landing</i> with a slip-resistance of any <i>landing</i> must be sufficient to move a stretcher, 2 m long and 600 mm wide, at a gradient not more than the gradient of the stairs, with at least

	than 1.6 m and a clear length o Table D3D15:Slip-resistance			
	Application	Dry Surface conditions	Wet surface conditions	
	Ramp steeper than 1:14	P4 or R11	P5 or R12	
	Ramp steeper than 1:20 but not steeper than 1:14	P3 or R10	P4 or R11	
	Tread or <i>landing</i> surface	P3 or R10	P4 or R11	
	Nosing or landing edge strip	P3	P4	
D3D16	 Thresholds The threshold of a doorway must not incorporate a step or ramp at any point closer to the doorway than the width of the door leaf unless— (a)in <i>patient care areas</i> in a Class 9a <i>health-care building</i>, the door sill is not more than 25 mm above the finished floor level to which the doorway opens; or (b)in <i>resident use areas</i> in a Class 9c building, a ramp is provided with a maximum gradient of 1:8 for a maximum height of 25 mm over the threshold; or (c)in a building <i>required</i> to be <i>accessible</i> by Part D4, the doorway— (i)opens to a road or <i>open space</i>; and 		Further Detail will be required within the Crown Certificate documentation	
	(ii)is provided with a threshold ramp or step ramp in accordance with AS 1428.1; or (d)in other cases— (i)the doorway opens to a road or <i>open space</i> , external stair landing or external balcony; and			
	(ii)the door sill is not more than 190 mm above the finished surface of the ground, balcony, or the like, to which the doorway opens.			
D3D17	Barriers to prevent falls (1)A continuous barrier must b access is provided; and	e provided along the side of-	– (a)a roof to which general	Further Detail will be required within the Crown Certificate documentation

	 (b)a stairway or ramp; and (c)a floor, corridor, hallway, balcony, deck, verandah, <i>mezzanine</i>, access bridge or the like; and (d)any delineated path of access to a building, if the trafficable surface is 1 m or more above the surface beneath. (2)The requirements of (1) do not apply to— (a)the perimeter of a <i>stage</i>, rigging loft, loading dock or the like; or (b)areas referred to in D3D23; or (c)a retaining wall unless the retaining wall forms part of, or is directly associated with a delineated path of access to a building from the road, or a delineated path of access between buildings; or (d)a barrier <i>required</i> by (1) must be constructed in accordance with D3D18, D3D19, D3D20 and, if a wire barrier is used, D3D21. 	
D3D18	Height of barriers (1)The height of a barrier <i>required</i> by D3D17 must be not less than the following: (a)For stairways or ramps with a gradient of 1:20 or steeper — 865 mm.	Further Detail will be required within the Crown Certificate documentation
	(b)For <i>landings</i> to a stair or ramp where the barrier is provided along the inside edge of the <i>landing</i> and does not exceed 500 mm in length — 865 mm.	
	(c)In front of fixed seating on a <i>mezzanine</i> or balcony within an auditorium in a Class 9b building, where the horizontal projection extends not less than 1 m outwards from the top of the barrier — 700 mm.	
	 (d)For all other locations — 1 m. (2)For a barrier provided under (1) — (a)barrier heights are measured vertically from the surface beneath, except that for stairways the height must be measured above the nosing line of the stair treads; and 	
	(b)a transition zone may be incorporated where the barrier height changes from 865 mm on a	

D2D10	stair <i>flight</i> or ramp to 1 m at a <i>landing</i> or floor.	
D3D19	 Openings in barriers (1)Except where allowed by (2), openings in a <i>required</i> barrier must not allow a 125 mm sphere to pass through. (2)In a <i>fire-isolated stairway</i>, <i>fire-isolated ramp</i> or other area used primarily for emergency purposes, openings in a <i>required</i> barrier— (a)must not allow a 300 mm sphere to pass through; or 	Further Detail will be required within the Crown Certificate documentation
	(b)where rails are used— (i)a 150 mm sphere must not be able to pass through the opening between the nosing line of the stair treads and the rail or between the rail and the floor of the <i>landing</i> , balcony or the like; and	
	 (ii)the opening between rails must not be more than 460 mm. (3)In Class 7 (other than <i>carparks</i>) and Class 8 buildings, openings in a <i>required</i> barrier— (a)must not allow a 300 mm sphere to pass through; or 	
	(b)where rails are used— (i)a 150 mm sphere must not be able to pass through the opening between the nosing line of the stair treads and the rail or between the rail and the floor of the <i>landing</i> , balcony or the like; and	
	 (ii)the opening between the rails must not be more than 460 mm. (4)The requirements of (2) do not apply to external stairways, external ramps, or <i>fire-isolated stairways</i> or <i>fire-isolated ramps</i> serving Class 9b <i>early childhood centres</i>. (5)For a barrier provided under (1), the maximum 125 mm barrier opening for a stairway, such as a non <i>fire-isolated stairway</i>, is measured above the nosing line of the stair treads. (6)Where a <i>required</i> barrier is fixed to the vertical face forming an edge of a <i>landing</i>, balcony, deck, stairway or the like, the opening formed between the barrier and the face must not exceed 40 mm. (7)For the purposes of (6), the opening is measured horizontally from the edge of the trafficable surface to the nearest internal face of the barrier. 	
D3D20	Barrier climbability [2019: Table D2.16a]	Further Detail will be required within the Crown Certificate documentation

	 (1)A barrier <i>required</i> by D3D17, located on a floor more than 4 m above the surface beneath, must not incorporate horizontal or near horizontal elements that could facilitate climbing between 150 mm and 760 mm above the floor. (2)The requirements of (1) do not apply to— (a)<i>fire-isolated stairways, fire-isolated ramps</i> and other areas used primarily for emergency purposes, other than— (i)external stairways; and 	
	(ii)external ramps; and Class 7 (other than <i>carparks</i>) and Class 8 buildings.	
D3D22	Handrails(1)Except for handrails referred to in D3D23, and subject to (2), handrails must— (a)belocated along at least one side of the ramp or <i>flight</i> ; and	Further Detail will be required within the Crown Certificate documentation
	(b)be located along each side if the total width of the stairway or ramp is 2 m or more; and	
	(c)in a Class 9b building used as a primary <i>school</i> or a building that contains an <i>early childhood centre</i> — (i)have one handrail fixed at a height of not less than 865 mm; and	
	(ii)in addition to (i), have a handrail— (A)fixed at a height between 665 mm and 750 mm in a primary <i>school</i> ; and	
	 (B)with a cross-sectional dimension not less than 16 mm and not greater than 45 mm as measured in any direction across its centre, fixed at a height between 450 mm and 700 mm in a Class 9b <i>early childhood centre</i>; and (d)in any other case, be fixed at a height of not less than 865 mm; and (e)be continuous between stair <i>flight</i> landings and have no obstruction on or above them that will tend to break a hand-hold; and 	
	(f)in a <i>required exit</i> serving an area <i>required</i> to be <i>accessible</i> , be designed and constructed to comply with clause 12 of AS 1428.1, except that clause 12(d) does not apply to a handrail <i>required</i> by (1)(c)(ii).	
	(2)The height <i>required</i> by (1)(c) and (d) is measured above the nosings of stair treads and the	

	floor surface of the ramp, landing or the like. (3)Handrails— (a)in a Class 9a <i>health-care building</i> must be provided along at least one side of every passageway or corridor used by patients, and must be— (i)fixed not less than 50 mm clear of the wall; and	
	 (ii)where practicable, continuous for their full length; and (b)in a Class 9c aged care building must be provided along both sides of every passageway or corridor used by residents, and must be— (i)fixed not less than 50 mm clear of the wall; and 	
	(ii)where practicable, continuous for their full length.(4)Handrails <i>required</i> to assist people with a disability must be provided in accordance with D4D4.	
	(5)Handrails to a stairway or ramp within a <i>sole-occupancy unit</i> in a Class 2 or 3 building or Class 4 part of a building must— (a)be located along at least one side of the <i>flight</i> or ramp; and	
	(b)be located along the full length of the <i>flight</i> or ramp, except in the case where a handrail is associated with a barrier, the handrail may terminate where the barrier terminates; and	
	(c)have the top surface of the handrail not less than 865 mm vertically above the nosings of the stair treads or the floor surface of the ramp; and	
	 (d)have no obstruction on or above them that will tend to break a handhold, except for newel posts, ball type stanchions, or the like. (6)The requirements of (5) do not apply to— (a)handrails referred to in D3D23; or 	
	(b)a stairway or ramp providing a change in elevation of less than 1 m; or	
	(c)a landing; or a winder where a newel post is installed to provide a handhold.	
D3D26	Operation of latch (1)A door in a <i>required exit</i> , forming part of a <i>required exit</i> or in the path of travel to a <i>required exit</i> must be readily openable without a key from the side that faces a person seeking egress, by— (a)a single hand downward action on a single device which is located between	Further Detail will be required within the Crown Certificate documentation

900 mm and 1.1 m from the floor and if serving an area <i>required</i> to be <i>accessible</i> by Part D4— (i)be such that the hand of a person who cannot grip will not slip from the handle during the operation of the latch; and
 (ii)have a clearance between the handle and the back plate or door face at the centre grip section of the handle of not less than 35 mm and not more than 45 mm; or (b) a single hand pushing action on a single device which is located between 900 mm and 1.2 m from the floor. (2)Where the latch operation device referred to in (1)(b) is not located on the door leaf itself— (a)manual controls to power-operated doors must be at least 25 mm wide, proud of the surrounding surface and located— (i)not less than 500 mm from an internal corner; and
(ii)for a hinged door, between 1 m and 2 m from the door leaf in any position; and
 (iii)for a sliding door, within 2 m of the doorway and clear of a surface mounted door in the open position; and (b)braille and tactile signage complying with S15C3 and S15C6 must identify the latch operation device. (3)The requirements of (1) and (2) do not apply to a door that— (a)serves a vault, strong-room, <i>sanitary compartment</i>, or the like; or
(b)serves only, or is within— (i)a <i>sole-occupancy unit</i> in a Class 2 building or a Class 4 part of a building; or
(ii)a <i>sole-occupancy unit</i> in a Class 3 building (other than an entry door to a <i>sole-occupancy unit</i> of a boarding house, guest house, hostel, lodging house or backpacker accommodation); or
(iii)a <i>sole-occupancy unit</i> with a <i>floor area</i> not more than 200 m2 in a Class 5, 6, 7 or 8 building; or
(iv)a space which is otherwise inaccessible to persons at all times when the door is locked; or (c)complies with (4) and serves— (i)Australian Government Security Zones 4 or 5; or
(ii)the secure parts of a bank, detention centre, mental health facility, early childhood centre

or the like; or (d)is fitted with a fail-safe device which <i>automatically</i> unlocks the door upon the activation of any sprinkler system (other than a FPAA101D system) complying with Specification 17 or smoke, or any other detector system deemed suitable in accordance with AS 1670.1 installed throughout the building, and is readily openable when unlocked; or (e)is in a Class 9a or 9c building and— (i)is one leaf of a two-leaf door complying with D2D9(1)(a) or D2D9(1)(d) provided that it is not held closed by a locking mechanism and is readily openable; and
 (ii)the door is not <i>required</i> to be a fire door or smoke door. (4)A door referred to in (3)(c) must be able to be immediately unlocked— (a)by operating a fail-safe control switch, not contained within a protective enclosure, to actuate a device to unlock the door; or
 (b)by hand by a person or persons, specifically nominated by the owner, properly instructed as to the duties and responsibilities involved and available at all times when the building is lawfully occupied so that persons in the building or part may immediately escape if there is a fire. (5)The requirements of (1) and (2) do not apply in a Class 9b building (other than a <i>school</i>, an <i>early childhood centre</i> or a building used for religious purposes) to a door in a <i>required exit</i>, forming part of a <i>required exit</i> or in the path of travel to a <i>required exit</i> serving a <i>storey</i> or room accommodating more than 100 persons, determined in accordance with D2D18, in which case it must be readily openable— (a)without a key from the side that faces a person seeking egress; and
(b)by a single hand pushing action on a single device such as a panic bar located between 900 mm and 1.2 m from the floor; and
(c)where a two-leaf door is fitted, the provisions of (a) and (b) need only apply to one door leaf if the appropriate requirements of D2D9 are satisfied by the opening of that one leaf.

D3D28	 Signs on doors [2019: D2.23] (1) A sign, to alert persons that the operation of certain doors must not be impaired, must be installed where it can readily be seen on, or adjacent to, in accordance with (2)—(a)a required—occupancy unit in a Class 2 or 3 building or Class 4 part of a building; and fire door providing direct access to a fire-isolated exit, except a door providing direct egress from a (i)sole- (ii)smoke door; and (b)any door which is a—(i)fire door forming part of a horizontal exit; and (ii)moke door that swings in both directions; and (iii)door leading from a fire isolated exit to a road or open space. (2) A sign required by (1)(a) must be fixed on the side of the door that faces a person seeking egress and, if the door is fitted with a device for holding it in the open position, either a sign must be fixed on the wall adjacent to the doorway, or signs must be fixed to both sides of the door. (3) A sign required by (1)(b) must be fixed on each side of the door. (4) A sign referred to in (1) must be in capital letters not less than 20 mm high in a colour contrasting with the background and state the following: (a)For an automatic door held open by an automatic hold-open device—FIRE SAFETY DOOR — DO NOT OBSTRUCT (a)For a door discharging from a fire-isolated exit.—FIRE SAFETY DOOR — DO NOT OBSTRUCT 	Further Detail will be required within the Crown Certificate documentation
D3D29	Protection of openable windows(1)A window opening must be provided with protection, if the floor below the window is 2 mor more above the surface beneath in— (a)a bedroom in a Class 2 or 3 building or Class 4 part	Further Detail will be required within the Crown Certificate documentation

of a building; or
 (b)a Class 9b <i>early childhood centre</i>. (2)Where the lowest level of the window opening is less than 1.7 m above the floor, a window opening covered by (1) must comply with the following: (a)The openable portion of the window must be protected with— (i)a device capable of restricting the window opening; or
 (ii)a screen with secure fittings. (b)A device or screen <i>required</i> by (a) must— (i)not permit a 125 mm sphere to pass through the window opening or screen; and
(ii)resist an outward horizontal action of 250 N against the— (A)window restrained by a device; or
 (B)screen protecting the opening; and (iii)have a child resistant release mechanism if the screen or device is able to be removed, unlocked or overridden. (3)A barrier with a height not less than 865 mm above the floor is <i>required</i> to an openable window— (a)in addition to window protection, when a child resistant release mechanism is <i>required</i> by (2)(b)(iii); and
 (b)where the floor below the window is 4 m or more above the surface beneath if the window is not covered by (1). (4)A barrier covered by (3) except for (5) must not— (a)permit a 125 mm sphere to pass through it; and
 (b)have any horizontal or near horizontal elements between 150 mm and 760 mm above the floor that facilitate climbing. (5)A barrier <i>required</i> by (3) to an openable window in— (a)<i>fire-isolated stairways, fire-isolated ramps</i> and other areas used primarily for emergency purposes, excluding external stairways and external ramps; and
(b)Class 7 (other than <i>carparks</i>) and Class 8 buildings and parts of buildings containing those classes,

D3D30	 Timber stairways: Concession (1)Notwithstanding D3D3(a), timber treads, risers, landings and associated supporting framework within a <i>required fire-isolated stairway</i> or <i>fire-isolated passageway</i> may be constructed from <i>fire-protected timber</i> in accordance with C2D13— (a)if the timber— (i)has a finished thickness of not less than 44 mm; and (ii)has an average density of not less than 800 kg/m3 at a moisture content of 12%; and (b)subject to— (i)the building being protected throughout by a sprinkler system (other than a FPAA101D system) complying with Specification 17 which extends to within the fire-isolated enclosure; and (ii)fire protection being provided to the underside of stair <i>flights</i> and landings located immediately above a landing level which— (A)is at or near the level of egress; or (B)provides direct access to a carpark. (2)Fire protection required by (1) must be not less than one layer of 13 mm fire-protective grade plasterboard fixed in accordance with the system requirements for a <i>fire-protective covering</i>. 	Further Detail will be required within the Crown Certificate documentation
D4D2	 General building access requirements (1)Buildings and parts of buildings must be <i>accessible</i> as <i>required</i> by this clause, unless exempted by D4D5. (2)Access requirements for a Class 1b building are as follows: Dwellings located on one allotment and used for short-term holiday accommodation — in accordance with (a)Table (b)A boarding house, bed and breakfast, guest house, hostel or the like, other than those described in (a) — to and within— (i)1 bedroom and associated sanitary facilities; and (ii)not less than 1 of each type of room or space for use in common by the residents or guests, including a cooking facility, sauna, gymnasium, <i>swimming pool</i>, laundry, games room, eating area, or the like; and (iii)rooms or spaces for use in common by all residents on a floor to which access by way of a 	Further Detail will be required within the Crown Certificate documentation

 ramp complying with AS 1428.1 or a passenger lift is provided. (3)For the purposes of (2)(a), a community or strata-type subdivision or development is considered to be on a single allotment. (4)For a Class 2 building, common areas are to be <i>accessible</i> as follows: From a pedestrian entrance <i>required</i> to be <i>accessible</i> to at least 1 floor containing <i>sole-occupancy units</i> and to the entrance doorway of each <i>sole-occupancy unit</i> located on that level. (b)To and within not less than 1 of each type of room or space for use in common by the residents, including a cooking facility, sauna, gymnasium, <i>swimming pool</i>, common laundry, games room, individual shop, eating area, or the like. 	
(c)Where a ramp complying with AS 1428.1 or a passenger lift is installed— (i)to the entrance doorway of each <i>sole-occupancy unit</i> ; and	
 (ii)to and within rooms or spaces for use in common by the residents. (d)The requirements of (c) only apply where the space referred to in (c)(i) or (ii) is located on the levels served by the lift or ramp. (5)For a Class 3 building, access requirements are as follows: (a)Common areas: (i)From a pedestrian entrance required to be accessible to at least 1 floor containing <i>sole-occupancy units</i> and to the entrance doorway of each <i>sole-occupancy unit</i> located on that level. (ii)a cooking facility, sauna, gymnasium, <i>swimming pool</i>, common laundry, games room, TV room, individual shop, dining room, public viewing area, ticket purchasing service, lunch room, lounge room, or the like. (iii)Where a ramp complying with AS 1428.1 or a passenger lift is installed— (A)to the entrance doorway of each <i>sole-occupancy unit</i>; and 	
 (B)to and within rooms or spaces for use in common by the residents. (iv)The requirements of (iii) only apply where the space referred to in (A) and (B) are located on the levels served by the lift or ramp. (b)Sole-occupancy units — in accordance with Table D4D2b. (6)For Class 5, 6, 7b, 8 and 9a buildings, access must be provided to and within all areas normally used by the occupants. (7)For a Class 7a building, access must be provided to and within any level containing 	

 <i>accessible</i> carparking spaces. (8)For a Class 9b building, access requirements are as follows: (a)<i>Schools</i> and <i>early childhood centres</i> — to and within all areas normally used by the occupants. (b)An <i>assembly building</i>, not being a <i>school</i> or <i>early childhood centre</i>—to and within—(i)wheelchair seating spaces provided in accordance with D4D10; and 	
 (ii)all other areas normally used by the occupants, except that access need not be provided to tiers or platforms of seating areas that do not contain wheelchair seating spaces. (9)For a Class 9c building, access requirements are as follows: (a)Common areas: (i)From a pedestrian entrance required to be <i>accessible</i> to at least 1 floor containing <i>sole-occupancy units</i> and to the entrance doorway of each <i>sole-occupancy unit</i> located on that level. 	
(ii)To and within not less than 1 of each type of room or space for use in common by the residents, including a cooking facility, sauna, gymnasium, <i>swimming pool</i> , common laundry, games room, TV room, individual shop, dining room, public viewing area, ticket purchasing service, lunch room, lounge room, or the like.	
(iii)Where a ramp complying with AS 1428.1 or a passenger lift is installed— (A)to the entrance doorway of each <i>sole-occupancy unit</i> ; and	
 (B)to and within rooms or spaces for use in common by the residents. (iv)The requirements of (iii) only apply where the space referred to in (A) and (B) are located on the levels served by the lift or ramp. (b)Sole-occupancy units — in accordance with Table D4D2b. (10)For a Class 10 building, access requirements are as follows: (a)For a Class 10a non-habitable building located in an accessible area intended for use by the public and containing a sanitary facility, change room facility or shelter, to and within— an accessible sanitary facility; and (ii)a change room facility; and (iii)a public shelter or the like. (b)For Class 10b swimming pools, to and into swimming pools with a total perimeter greater than 40 m, associated with a Class 1b, 2, 3, 5, 6, 7, 8 or 9 building that is required to be 	

	<i>accessible</i> , but not <i>swimming pools</i> for the exclusive use of occupants of a Class 1b building or a <i>sole-occupancy unit</i> in a Class 2 or Class 3 building.	
D4D3	Access to buildings (1)An <i>accessway</i> must be provided to a building <i>required</i> to be <i>accessible</i> — (a)from the main points of a pedestrian entry at the allotment boundary; and	Further Detail will be required within the Crown Certificate documentation
	 (b)from another <i>accessible</i> building connected by a pedestrian link; and from any <i>required accessible</i> carparking space on the allotment. (2)In a building <i>required</i> to be <i>accessible</i>, an <i>accessway</i> must be provided through the principal pedestrian entrance, and— (a)through not less than 50% of all pedestrian entrances including the principal pedestrian entrance; and 	
	 (b)in a building with a total <i>floor area</i> more than 500 m2, a pedestrian entrance which is not <i>accessible</i> must not be located more than 50 m from an <i>accessible</i> pedestrian entrance, except for pedestrian entrances serving only areas exempted by D4D5. (3)Where a pedestrian entrance <i>required</i> to be <i>accessible</i> has multiple doorways— (a)if the pedestrian entrance consists of not more than 3 doorways — not less than 1 of those doorways must be <i>accessible</i>; and 	
	 (b)if a pedestrian entrance consists of more than 3 doorways — not less than 50% of those doorways must be <i>accessible</i>. (4)For the purposes of (3)— (a)an <i>accessible</i> pedestrian entrance with multiple doorways is considered to be one pedestrian entrance where— (i)all doorways serve the same part or parts of the building; and (ii)the distance between each doorway is not more than the width of the widest doorway at that pedestrian entrance (see Figure D4D3); and (b)a doorway is considered to be the clear, unobstructed opening created by the opening of one or more door leaves (see Figure D4D3). (5)Where a doorway on an <i>accessway</i> has multiple leaves, (except an automatic opening door) one of those leaves must have a clear opening width of not less than 850 mm in accordance with AS 1428.1. 	

D4D4	Parts of buildings to be accessible	Further Detail will be required within the
	In a building <i>required</i> to be <i>accessible</i> — (a)every ramp and stairway, except for ramps and stairways in areas exempted by D4D5, must comply with— (i)for a ramp, except a <i>fire</i> -	Crown Certificate documentation
	isolated ramp, clause 10 of AS 1428.1; and	
	(ii)for a stairway, except a <i>fire-isolated stairway</i> , clause 11 of AS 1428.1; and	
	(iii)for a <i>fire-isolated stairway</i> , clause 11.1(f) and (g) of AS 1428.1; and (b)every passenger lift must comply with E3D7; and	
	(c) <i>accessways</i> must have— (i)passing spaces complying with AS 1428.1 at maximum 20 m intervals on those parts of an <i>accessway</i> where a direct line of sight is not available; and	
	(ii)turning spaces complying with AS 1428.1— within 2 m of the end of <i>accessways</i> where it is not possible to continue travelling along the <i>accessway</i> ; and	
	(B)at maximum 20 m intervals along the <i>accessway</i> ; and (d)an intersection of <i>accessways</i> satisfies the spatial requirements for a passing and turning space; and	
	(e)a passing space may serve as a turning space; and	
	(f)a ramp complying with AS 1428.1 or a passenger lift need not be provided to serve a <i>storey</i> or level other than the entrance <i>storey</i> in a Class 5, 6, 7b or 8 building— (i)containing not more than 3 <i>storeys</i> ; and	
	(ii)with a <i>floor area</i> for each <i>storey</i> , excluding the entrance <i>storey</i> , of not more than 200 m2; and	
	(g)clause 7.4.1(a) of AS 1428.1 does not apply and is replaced with 'the pile height or pile thickness shall not exceed 11 mm and the carpet backing thickness shall not exceed 4 mm';	
	and (h)the carpet pile height or pile thickness dimension, carpet backing thickness dimension and their combined dimension shown in Figure 8 of AS 1428.1 do not apply and are replaced with 11 mm, 4 mm and 15 mm respectively.	

D4D6	Accessible carparking	Further Detail will be required within the
	(1) <i>Accessible</i> carparking spaces— (a)subject to (b), must be provided in accordance with (2) in— (i)a Class 7a building <i>required</i> to be <i>accessible</i> ; and	Crown Certificate documentation
	 (ii)a carparking area on the same allotment as a building <i>required</i> to be <i>accessible</i>; and (b)need not be provided in a Class 7a building or a carparking area where a parking service is provided and direct access to any of the carparking spaces is not available to the public; and (c)subject to (d), must comply with AS/NZS 2890.6; and (d)need not be identified with signage where there is a total of not more than 5 carparking spaces, so as to restrict the use of the carparking space only for people with a disability. (2)For each Class of building to which the <i>carpark</i> or carparking area is associated, the number of <i>accessible</i> carparking spaces <i>required</i> is as follows: (a)Class 1b and 3 buildings: (i)For a boarding house, guest house, hostel, lodging house, backpackers' accommodation, or the residential part of a hotel or motel, the number of <i>accessible</i> carparking spaces <i>required</i> is to be calculated by multiplying the total number of <i>accessible</i> carparking spaces of <i>accessible</i> carparking spaces of <i>accessible</i> carparking spaces <i>required</i> is to the total number of <i>accessible</i> sole-occupancy units; or 	
	 (B) accessible bedrooms to the total number of bedrooms. (ii) For the purposes of (i), the calculated number is taken to the next whole figure. (iii) For a residential part of a <i>school</i>, accommodation for the aged, disabled or children, residential part of a <i>health-care building</i> which accommodates members of staff or the residential part of a <i>detention centre</i> — 1 accessible space for every 100 carparking spaces or part thereof. (b) Class 5, 7, 8 or 9c buildings — 1 accessible space for every 100 carparking spaces or part thereof. (c) Class 6 buildings— (i) with up to 1000 carparking spaces — 1 accessible space for every 50 carparking spaces or part thereof; and 	
	 (ii)for each additional 100 carparking spaces or part thereof in excess of 1000 carparking spaces — 1 <i>accessible</i> space. (d)Class 9a buildings: (i)For a hospital (non-outpatient area) — 1 <i>accessible</i> space for every 	

	100 carparking spaces or part thereof.	
	(ii)For a hospital (outpatient area)— (A)with up to 1000 carparking spaces — 1 <i>accessible</i> space for every 50 carparking spaces or part thereof; and	
	 (B)for each additional 100 carparking spaces or part thereof in excess of 1000 carparking spaces — 1 accessible space. (iii)For a nursing home — 1 accessible space for every 100 carparking spaces or part thereof. (iv)For a clinic or day surgery not forming part of a hospital — 1 accessible space for every 50 carparking spaces or part thereof. (e)Class 9b buildings: (i)For a school — 1 accessible space for every 100 carparking spaces or part thereof. (ii)For other assembly buildings— (A)with up to 1000 carparking spaces — 1 accessible space for every 50 carparking spaces or part thereof; and 	
	(B)for each additional 100 carparking spaces or part thereof in excess of 1000 carparking spaces — 1 <i>accessible</i> space.	
D4D7	Signage (1)In a building <i>required</i> to be <i>accessible</i> — (a)braille and tactile signage complying with Specification 15 must— (i)incorporate the international symbol of access or deafness, as appropriate, in accordance with AS 1428.1 and identify each— <i>occupancy unit</i> in a Class 3 or Class 9c building; and sanitary facility, except a sanitary facility associated with a bedroom in a Class 1b building or a (A) <i>sole</i> - (B) <i>space with a hearing augmentation system; and</i> (ii)identify each door <i>required</i> by E4D5 to be provided with an <i>exit</i> sign and state—	Further Detail will be required within the Crown Certificate documentation
	(A)"Exit"; and	
	(B)"Level"; and	
	(C)the floor level number or floor level descriptor, or a combination of the two.(b)signage including the international symbol for deafness in accordance with AS 1428.1	

	must be provided within a room containing a hearing augmentation system identifying— (i)the type of hearing augmentation; and	
	 (ii)the area covered within the room; and (iii)if receivers are being used and where the receivers can be obtained; and (c)signage in accordance with AS 1428.1 must be provided for <i>accessible</i> unisex sanitary facilities to identify if the facility is suitable for left or right handed use; and (d) signage to identify an ambulant <i>accessible</i> sanitary facility in accordance with AS 1428.1 must be located on the door of the facility; and 	
	(e)where a pedestrian entrance is not <i>accessible</i> , directional signage incorporating the international symbol of access, in accordance with AS 1428.1, must be provided to direct a person to the location of the nearest <i>accessible</i> pedestrian entrance; and	
	 (f)where a bank of sanitary facilities is not provided with an <i>accessible</i> unisex sanitary facility, directional signage incorporating the international symbol of access in accordance with AS 1428.1 must be placed at the location of the sanitary facilities that are not <i>accessible</i>, to direct a person to the location of the nearest <i>accessible</i> unisex sanitary facility. (2)In a building that is subject F4D12 and is <i>required</i> to be <i>accessible</i>, directional signage complying with Specification 15 to direct a person to the location of the nearest <i>accessible</i> adult change facility within that building must be provided at the location of each— (a)bank of sanitary facilities; and <i>accessible</i> unisex sanitary facility, other than one that incorporates an <i>accessible</i> adult change facility. 	
D4D9	Tactile indicators (1)For a building <i>required</i> to be <i>accessible</i> , tactile ground surface indicators must be provided to warn people who are blind or have a vision impairment that they are approaching— (a)a stairway, other than a <i>fire-isolated stairway</i> ; and	Further Detail will be required within the Crown Certificate documentation
	(b)an escalator; and a passenger conveyor or moving walk; and (d)a ramp other than a <i>fire-isolated ramp</i> , step ramp, kerb ramp or <i>swimming pool</i> ramp; and (e)in the absence of a suitable barrier— (i)an overhead obstruction less than 2 m above floor	

	 level, other than a doorway; and (ii)an <i>accessway</i> meeting a vehicular way adjacent to any pedestrian entrance to a building, excluding a pedestrian entrance serving an area referred to in D4D5, if there is no kerb or kerb ramp at that point, except for areas exempted by D4D5. (2)Tactile ground surface indicators <i>required</i> by (1) must comply with sections 1 and 2 of AS/NZS 1428.4.1. (3)A hostel for the aged, nursing home for the aged, a <i>residential aged care building</i>, Class 3 accommodation for the aged, Class 9a <i>health-care building</i> or a Class 9c <i>aged care building</i> need not comply with (1)(a) and (d) if handrails incorporating a raised dome button in accordance with AS/NZS 1428.4.1 are provided to warn people who are blind or have a vision impairment that they are approaching a stairway or ramp. 	
D4D13	Glazing on an accessway On an <i>accessway</i> , where there is no chair rail, handrail or transom, all frameless or fully glazed doors, sidelights and any glazing capable of being mistaken for a doorway or opening, must be clearly marked in accordance with AS 1428.1.	Further Detail will be required within the Crown Certificate documentation

5.4 SECTION E – – SERVICES AND EQUIPMENT

CLAUSE	CLAUSE REQUIREMENT	ACTION/RECOMENDATION
E1D2	 Fire hydrants (1)A fire hydrant system must be provided to serve a building— (a)having a total <i>floor area</i> greater than 500 m2; and (b)where a <i>fire brigade station</i> is— (i)no more than 50 km from the building as measured along roads; and (ii)equipped with equipment capable of utilising a fire hydrant. (2)The fire hydrant system must be installed in accordance with AS 2419.1. (3)Notwithstanding (2), a Class 8 <i>electricity network substation</i> need not comply with clause 4.2 of AS 2419.1 if— (a)it cannot be connected to a town main supply; and (b)one hour water storage is provided for fire-fighting. (4)Where internal fire hydrants are provided, they must serve only the <i>storey</i> on which they are located except that a <i>sole-occupancy unit</i>— (a)in a Class 2 or 3 building or Class 4 part of a building may be served by a single fire hydrant located at the level of egress from that <i>sole-occupancy unit</i>; or (b)of not more than 2 <i>storeys</i> in a Class 5, 6, 7, 8 or 9 building may be served by a single fire hydrant located at the level of egress from that <i>sole-occupancy unit</i> provided the fire hydrant can provide coverage to the whole of the <i>sole-occupancy unit</i>. 	Further Detail will be required within the Crown Certificate documentation
E1D16	Fire precautions during construction In a building under construction— (a)not less than one fire extinguisher to suit Class A, B and C fires and electrical fires must be provided at all times on each <i>storey</i> adjacent to each <i>required exit</i> or temporary stairway or <i>exit</i> ; and (b)after the building has reached an <i>effective height</i> of 12 m— (i)the <i>required</i> fire hydrants and fire hose reels must be operational in at least every <i>storey</i> that is covered by the roof or the floor structure above, except the 2 uppermost <i>storeys</i> ; and any <i>required</i> booster connections must be installed.	Further Detail will be required within the Crown Certificate documentation

E2D3	General requirements(1)An air-handling system which does not form part of a smoke hazard management systemin accordance with E2D4 to E2D20 and which recycles air from one <i>fire compartment</i> toanother <i>fire compartment</i> or operates in a manner that may unduly contribute to the spread ofsmoke from one <i>fire compartment</i> to another <i>fire compartment</i> must, subject to (2), bedesigned and installed— (a)to operate as a smoke control system in accordance with AS1668.1; or(b)such that it— <i>compartments</i> served; and incorporates smoke dampers where the air-handling ducts penetrate any elements separating the (i) <i>fire</i> (ii)is arranged such that the air-handling system is shut down and the smoke dampers areactivated to close <i>automatically</i> by smoke detectors complying with clause 7.5 of AS 1670.1.(2)For the purposes of (1), each <i>sole-occupancy unit</i> in a Class 2 or 3 building is treated as aseparate <i>fire compartment</i> .(3)Miscellaneous air-handling systems covered by Sections 5 and 6 of AS 1668.1 servingmore than one <i>fire compartment</i> (other than a <i>carpark</i> ventilation system) and not formingpart of a smoke hazard management system must comply with these Sections of the Standard.(4)A smoke detection system must be installed in accordance with S20C6 to operate AS1668.1 systems that are provided for zone pressurisation and <i>automatic</i> air pressurisation forfire-isolated <i>exits</i> .	Further Detail will be required within the Crown Certificate documentation
E2D8	 Buildings not more than 25 m in effective height: Class 2 and 3 buildings and Class 4 part of a building In a Class 2 and 3 building or part of a building, or Class 4 part of a building, if the building is not more than 25 m in <i>effective height</i>— (a)it must be provided with an <i>automatic</i> smoke detection and alarm system complying with Specification 20; and (b)where a <i>required fire-isolated stairway</i> serving the Class 2 or 3 parts also serves one or more <i>storeys</i> of Class 5, 6, 7 (other than an <i>open-deck carpark</i>), 8 or 9b parts— (i)the <i>fire-isolated stairway</i>, including any associated <i>fire-isolated passageway</i> or <i>fire-isolated ramp</i>, must be provided with an <i>automatic</i> air pressurisation system for fire-isolated <i>exits</i> in accordance with AS 1668.1; or 	Further Detail will be required within the Crown Certificate documentation

	 (ii)the Class 5, 6, 7 (other than an <i>open-deck carpark</i>), 8 and 9b parts must be provided with— (A)an <i>automatic</i> smoke detection and alarm system complying with Specification 20; or (B)a sprinkler system (other than a FPAA101D or FPAA101H system) complying with Specification 17; and 	
	(c)where a <i>required fire-isolated stairway</i> serving the Class 4 part also serves one or more <i>storeys</i> of Class 5, 6, 7 (other than an <i>open-deck carpark</i>), 8 or 9b parts—	
	(i)a system complying with (b)(i) or (b)(ii) must be installed; or	
	(ii)a smoke alarm or detector system complying with Specification 20 must be provided except that alarms or detectors need only be installed adjacent to each doorway into each <i>fire-</i> <i>isolated stairway</i> (set back horizontally from the doorway by a distance of not more than 1.5	
E3D2	Lift installations An electric passenger lift installation and an electrohydraulic passenger lift installation must comply with Specification 24.	Further Detail will be required within the Crown Certificate documentation
E3D4	 Warning against use of lifts in fire (1)A warning sign must be displayed where it can be readily seen near every call button for a passenger lift or group of lifts throughout a building. (2)The requirements of (1) do not apply to a small lift such as a dumb-waiter or the like that is for the transport of goods only. (3)Each warning sign required by (1) must comply with the details and dimensions of Figure 	Further Detail will be required within the Crown Certificate documentation
	 (3)Laten warning sign required by (1) must compry with the details and dimensions of Figure E3D4 and consist of— (a)incised, inlaid or embossed letters on a metal, wood, plastic or similar plate securely and permanently attached to the wall; or (b) letters incised or inlaid directly into the surface of the material forming the wall. 	

	DO NOT USE LIFTS IF THERE IS A FIRE	
	Do not use lifts	
E3D7	Passenger lift types and their limitations [2019: E3.6, Table E3.6a, Table E3.6b] (1)In an accessible building, every passenger lift must be one of the following lift types, subject to the limitations (if any) of each lift type: (a)There are no limitations on the use of electric passenger lifts, electrohydraulic passenger lifts or inclined lifts. (b)Stairway platform lifts must not— (i)be used to serve a space in a building accommodating	Further Detail will be required within the Crown Certificate documentation
	 (b)Starway platform into must not— (f)be used to serve a space in a building accommodating more than 100 persons calculated according to D2D18; or (ii)be used in a high traffic public use area such as a theatre, cinema, auditorium, transport interchange, shopping centre or the like; or (iii)be used where it is possible to install another type of passenger lift; or 	

F3D8	 (iv)connect more than 2 storeys; or (v)where more than 1 stairway lift is installed, serve more than 2 consecutive storeys; or (vi)when in the folded position, encroach on the minimum width of a stairway required by D2D8 to D2D11. (c)A low-rise platform lift must not travel more than 1000 mm. (d)A low-rise, low-speed constant pressure lift must not— (i)for an enclosed type, travel more than 4 m; or (ii)for an unenclosed type, travel more than 2 m; or (iii)be used in a high traffic public use areas in buildings such as a theatre, cinema, auditorium, transport interchange, shopping complex or the like. (e)A small-sized, low-speed automatic lift must not travel more than 12 m. (2)A passenger lift referred to in (1) must not rely on a constant pressure device for its operation if the lift car is fully enclosed. 	Further Detail will be required within the
E3D8	Accessible features required for passenger lifts[2019: Table E3.6a, Table E3.6b]In an accessible building, every passenger lift must have the following features whereapplicable: (a)A handrail complying with the provisions for a mandatory handrail in AS1735.12 for all lifts except— (i)a stairway platform lift; and(ii)a low-rise platform lift.(b)Lift floor dimensions of not less than 1400 mm wide x 1600 mm deep for all lifts whichtravel more than 12 m.(c)Lift floor dimensions of not less than 1100 mm wide x 1400 mm deep for all lifts whichtravel not more than 12 m, except a stairway platform lift.(d)Lift floor dimensions of not less than 810 mm wide x 1200 mm deep for a stairwayplatform lift.(f)Passenger protection system complying with AS 1735.12 for all lifts with power-operateddoors.(g)Lift landing doors at the upper landing for all lifts except a stairway platform lift.	Further Detail will be required within the Crown Certificate documentation

	 (h)Lift car and landing control buttons complying with AS 1735.12 for all lifts except— (i)a stairway platform lift; and (ii)a low-rise platform lift. (i)Lighting in accordance with AS 1735.12 for all enclosed lift cars. (j)For all lifts serving more than 2 levels— (i)automatic audible information within the lift car to identify the level each time the car stops; and (ii)audible and visual indication at each lift landing to indicate the arrival of the lift car; and (iii)audible information and audible indication required by (i) and (ii) is to be provided in a range of between 20 - 80 dB(A) at a maximum frequency of 1500 Hz. (k)Emergency hands-free communication, including a button that alerts a call centre of a problem and a light to signal that the call has been received, for all lifts except a stairway platform lift. 	
E4D2	Emergency lighting requirements An emergency lighting system must be installed— (a)in every <i>fire-isolated stairway</i> , <i>fire-isolated passageway</i> or <i>fire-isolated ramp</i> ; and (b)in every <i>storey</i> of a Class 5, 6, 7, 8 or 9 building where the <i>storey</i> has an area more than	Further Detail will be required within the Crown Certificate documentation
	300 m2— (i)in every passageway, corridor, hallway, or the like, that is part of the path of travel to an <i>exit</i> ; and	
	(ii)in any room having a <i>floor area</i> more than 100 m2 that does not open to a corridor or space that has emergency lighting or to a road or <i>open space</i> ; and	
	(iii)in any room having a <i>floor area</i> more than 300 m2; and (c)in every passageway, corridor, hallway, or the like, having a length of more than 6 m from	
	the entrance doorway of any <i>sole-occupancy unit</i> in a Class 2 or 3 building or Class 4 part of a building to the nearest doorway opening directly to— (i)a <i>fire-isolated stairway</i> , <i>fire-isolated passageway</i> or <i>fire-isolated ramp</i> ; or	
	(ii)an external stairway serving instead of a <i>fire-isolated stairway</i> under D2D13; or	
	(iii)an external balcony leading to a fire-isolated stairway, fire-isolated passageway or fire-	

	isolated ramp; or	
	 (iv)a road or <i>open space</i>; and (d)in every <i>required</i> non-<i>fire-isolated stairway</i>; and (e)in a <i>sole-occupancy unit</i> in a Class 5, 6 or 9 building if— (i)the <i>floor area</i> of the unit is more than 300 m2; and 	
	 (ii)an <i>exit</i> from the unit does not open to a road or <i>open space</i> or to an external stairway, passageway, balcony or ramp, leading directly to a road or <i>open space</i>; and (f)in every room or space to which there is public access in every <i>storey</i> in a Class 6 or 9b building if— (i)the <i>floor area</i> in that <i>storey</i> is more than 300 m2; or 	
	(ii)any point on the floor of that <i>storey</i> is more than 20 m from the nearest doorway leading directly to a stairway, ramp, passageway, road or <i>open space</i> ; or	
	(iii)egress from that <i>storey</i> involves a vertical rise within the building of more than 1.5 m, or any vertical rise if the <i>storey</i> concerned does not admit sufficient light; or	
	 (iv)the <i>storey</i> provides a path of travel from any other <i>storey required</i> by (i), (ii) or (iii) to have emergency lighting; and (g)in a Class 9a <i>health-care building</i>— (i)in every passageway, corridor, hallway, or the like, serving a <i>treatment area</i> or a <i>ward area</i>; and 	
	(ii)in every room having a <i>floor area</i> of more than 120 m2 in a <i>patient care area</i> ; and (h)in every Class 9c building excluding within <i>sole-occupancy units</i> ; and in every <i>required</i> fire control centre.	
E4D3	Measurement of distance Distances, other than vertical rise, must be measured along the shortest path of travel whether by straight lines, curves or a combination of both.	Further Detail will be required within the Crown Certificate documentation
E4D4	Design and operation of emergency lighting Every <i>required</i> emergency lighting system must comply with AS/NZS 2293.1.	Further Detail will be required within the Crown Certificate documentation
E4D5	Exit signs An exit sign must be clearly visible to persons approaching the exit, and must be installed on,	Further Detail will be required within the Crown Certificate documentation

	 above or adjacent to each— (a)door providing direct egress from a <i>storey</i> to— (i)an enclosed stairway, passageway or ramp serving as a <i>required exit</i>; and (ii)an external stairway, passageway or ramp serving as a <i>required exit</i>; and (iii)an external access balcony leading to a <i>required exit</i>; and (b)door from an enclosed stairway, passageway or ramp at every level of discharge to a road or <i>open space</i>; and (c)<i>horizontal exit</i>; and (d)door serving as, or forming part of, a <i>required exit</i> in a <i>storey required</i> to be provided with 	
E4D6	 emergency lighting in accordance with E4D2. Direction signs If an <i>exit</i> is not readily apparent to persons occupying or visiting the building then <i>exit</i> signs must be installed in appropriate positions in corridors, hallways, lobbies, and the like, indicating the direction to a <i>required exit</i>. 	Further Detail will be required within the Crown Certificate documentation
E4D8	 Design and operation of exit signs Every <i>required exit</i> sign must— (a)comply with— (i)AS/NZS 2293.1; or (ii)for a photoluminescent <i>exit</i> sign, Specification 25; and (b)be clearly visible at all times when the building is occupied by any person having the right of legal entry to the building. 	Further Detail will be required within the Crown Certificate documentation

5.5 SECTION F – HEALTH AND AMENITY

CLAUSE	CLAUSE REQUIREMENT	ACTION/RECOMENDATION
F1D3	Stormwater drainage Stormwater drainage must be designed and constructed in accordance with AS/NZS 3500.3.	Further Detail will be required within the Crown Certificate documentation
F1D4	Exposed joints [New for 2022] Exposed joints in the drainage surface on a roof, balcony, podium or similar horizontal surface part of a building must— (a)be protected in accordance with Section 2.9 of AS 4654.2; and (b) not be located beneath or run through a planter box, water feature or similar part of the building.	Further Detail will be required within the Crown Certificate documentation
F1D5	External waterproofing membranes A roof, balcony, podium or similar horizontal surface part of a building must be provided with a <i>waterproofing membrane</i> — (a)consisting of materials complying with AS 4654.1; and designed and installed in accordance with AS 4654.2.	Further Detail will be required within the Crown Certificate documentation
F1D6	Damp-proofing (1)Except for a building covered by (3), moisture from the ground must be prevented from reaching— (a)the lowest floor timbers and the walls above the lowest floor joists; and	Further Detail will be required within the Crown Certificate documentation
	 (b)the walls above the <i>damp-proof course</i>; and (c)the underside of a suspended floor constructed of a material other than timber, and the supporting beams or girders. (2)Where a <i>damp-proof course</i> is provided, it must consist of— (a)a material that complies with AS/NZS 2904; or 	

	 (b)impervious sheet material in accordance with AS 3660.1. (3)The following buildings need not comply with (1): (a)A Class 7 or 8 building where in the particular case there is no necessity for compliance. (b)A garage, tool shed, <i>sanitary compartment</i>, or the like, forming part of a building used for 	
F1D7	 other purposes. An <i>open spectator stand</i> or <i>open-deck carpark</i>. Damp-proofing of floors on the ground (1)If a floor of a room is laid on the ground or on fill, moisture from the ground must be prevented from reaching the upper surface of the floor and adjacent walls by the insertion of a vapour barrier in accordance with AS 2870. (2)The requirements of (1) do not apply where— (a)weatherproofing is not <i>required</i>; or the floor is the base of a stair, lift or similar <i>shaft</i> which is adequately drained by gravitation or mechanical means. 	Further Detail will be required within the Crown Certificate documentation
F2D2	Wet area construction(1)In a Class 2 and 3 building and a Class 4 part of a building, building elements in wet areasmust—(a)be water resistant or waterproof in accordance with Specification 26; and	Further Detail will be required within the Crown Certificate documentation
	 (b)comply with AS 3740. (2)In a Class 5, 6, 7, 8 or 9 building, building elements in a bathroom or shower room, a slop hopper or sink compartment, a laundry or <i>sanitary compartment</i> must— (a)be <i>water resistant</i> or <i>waterproof</i> in accordance with Specification 26; and 	
	(b)comply with AS 3740, as if they were in a Class 2 or 3 building or a Class 4 part of a building.	
F2D4	 Floor wastes (1)In a Class 2 or 3 building or Class 4 part of a building, a bathroom or laundry located at any level above a <i>sole-occupancy unit</i> or public space must have a <i>floor waste</i>. (2)Where a <i>floor waste</i> is installed— (a)the minimum continuous fall of a floor plane to the waste must be 1:80; and the maximum continuous fall of a floor plane to the waste must be 1:50. 	Further Detail will be required within the Crown Certificate documentation

F3D1	Deemed-to-Satisfy Provisions(1)Where a Deemed-to-Satisfy Solution is proposed, Performance Requirement F3P1 is satisfied by complying with F3D2 to F3D5.(2)Where a Performance Solution is proposed, the relevant Performance Requirements must be determined in accordance with A2G2(3) and A2G4(3) as applicable. A roof must be covered with— (a)roof tiles complying with AS 2049, fixed in accordance with AS 2050; or(b)metal sheet roofing complying with AS 1562.1; or (c)plastic sheet roofing designed and installed in accordance with AS 1562.3; or	Further Detail will be required within the Crown Certificate documentation
	(d)terracotta, fibre-cement and timber slates and shingles designed and installed in accordance with AS 4597, except in cyclonic areas; or an external waterproofing <i>membrane</i> complying with F1D5.	
F3D3	Sarking <i>Sarking-type material</i> used for weatherproofing of roofs and walls must comply with AS 4200.1 and AS 4200.2.	Further Detail will be required within the Crown Certificate documentation
F3D4	Glazed assemblies (1)Subject to (2) and (3), the following glazed assemblies in an <i>external wall</i> , must comply with AS 2047 requirements for resistance to water penetration: (a)Windows.	Further Detail will be required within the Crown Certificate documentation
	(b)Sliding and swinging glazed doors with a frame, including French and bi-fold doors with a frame.	
	(c)Adjustable louvres.	
	(d)Shopfronts.	
	(e)Window walls with one piece framing.(2)The following buildings need not comply with (1): (a)A Class 7 or 8 building where in the particular case there is no necessity for compliance.	
	(b)A garage, tool shed, <i>sanitary compartment</i> , or the like, forming part of a building used for	

	other purposes, except where the construction of the garage, tool shed, <i>sanitary compartment</i> or the like contributes to the weatherproofing of the other part of the building.	
	 (c)An <i>open spectator stand</i> or <i>open-deck carpark</i>. (3)The following glazed assemblies need not comply with (1): (a)All glazed assemblies not in an <i>external wall</i>. 	
	(b)Revolving doors.	
	(c)Fixed louvres.	
	(d)Skylights, roof lights and windows in other than the vertical plane.	
	(e)Sliding and swinging glazed doors without a frame.	
	(f)Windows constructed on site and architectural one-off windows, which are not design tested in accordance with AS 2047.	
	(g)Second-hand windows, re-used windows and recycled windows. Heritage windows.	
F3D5	Wall cladding(1)External wall cladding must comply with one or a combination of the following:(a)Masonry, including masonry veneer, unreinforced and reinforced masonry: AS 3700.	Further Detail will be required within the Crown Certificate documentation
	(b)Autoclaved aerated concrete: AS 5146.3.	
	(c)Metal wall cladding: AS 1562.1.(2)The following buildings need not comply with (1): (a)A Class 7 or 8 building where in the particular case there is no necessity for compliance.	
	(b)A garage, tool shed, <i>sanitary compartment</i> , or the like, forming part of a building used for other purposes, except where the construction of the garage, tool shed, <i>sanitary compartment</i> or the like contributed to the weatherproofing of another part of the building that is <i>required</i> to be weatherproofed. An <i>open spectator stand</i> or <i>open deck carpark</i> .	
F4D5	Accessible sanitary facilities In a building <i>required</i> to be <i>accessible</i> — (a) <i>accessible</i> unisex <i>sanitary compartments</i> must be	Further Detail will be required within the Crown Certificate documentation

	provided in <i>accessible</i> parts of the building in accordance with F4D6; and	
	(b) accessible unisex showers must be provided in accordance with F4D7; and	
	(c)at each bank of toilets where there is one or more toilets in addition to an <i>accessible</i> unisex <i>sanitary compartment</i> at that bank of toilets, not less than one <i>sanitary compartment</i> suitable for a person with an ambulant disability for use by males and one <i>sanitary compartment</i> suitable for a person with an ambulant disability for use by females, must be provided; and	
	(d)an <i>accessible</i> unisex <i>sanitary compartment</i> must contain a closet pan, washbasin, shelf or bench top and adequate means of disposal of sanitary products; and	
	(e)the circulation spaces, fixtures and fittings of all <i>accessible</i> sanitary facilities provided in accordance with F4D6 and F4D7 must comply with the requirements of AS 1428.1; and	
	(f)an <i>accessible</i> unisex sanitary facility must be located so that it can be entered without crossing an area reserved for one sex only; and	
	(g)where two or more of each type of <i>accessible</i> unisex sanitary facility are provided, the number of left and right handed mirror image facilities must be provided as evenly as possible; and	
	(h)where male sanitary facilities are provided at a separate location to female sanitary facilities, <i>accessible</i> unisex sanitary facilities are only <i>required</i> at one of those locations; and	
	(i)an <i>accessible</i> unisex <i>sanitary compartment</i> or an <i>accessible</i> unisex shower need not be provided on a <i>storey</i> or level that is not <i>required</i> by D4D4(f) to be provided with a passenger lift or ramp complying with AS 1428.1.	
F6D2	Provision of natural lightNatural light must be provided in:(a)A Class 2 building and a Class 4 parts of a building — to all <i>habitable rooms</i> .	Further Detail will be required within the Crown Certificate documentation
	(b)A Class 3 building — to all bedrooms and dormitories.	
	(c)Class 9a and 9c buildings — to all rooms used for sleeping purposes.	
	(d)A Class 9b building — to all general purpose classrooms in primary or secondary schools	

	and all playrooms or the like for the use of children in an <i>early childhood centre</i> .	
F6D3	Methods and extent of natural light (1)Required natural light must be provided by— (a)windows, excluding roof lights, that— (i)have an aggregate light transmitting area measured exclusive of framing members, glazing bars or other obstructions of not less than 10% of the <i>floor area</i> of the room; and	Further Detail will be required within the Crown Certificate documentation
	 (ii) are open to the sky or face a court or other space open to the sky or an open verandah, carport or the like; or (b) <i>roof lights</i>, that— (i) have an aggregate light transmitting area measured exclusive of framing members, glazing bars or other obstructions of not less than 3% of the <i>floor area</i> of the room; and 	
	 (ii)are open to the sky; or a proportional combination of <i>windows</i> and <i>roof lights required</i> by (a) and (b). (2)Except in a Class 9c <i>aged care building</i>, in a Class 2, 3 or 9 building or Class 4 part of a building, a <i>required window</i> that faces a boundary of an adjoining allotment or a wall of the same building or another building on the allotment must not be less than a horizontal distance from that boundary or wall that is the greater of— (a)generally — 1 m; and 	
	(b)in a <i>patient care area</i> or other room used for sleeping purposes in a Class 9a building — 3 m; and	
	 (c)50% of the square root of the exterior height of the wall in which the <i>window</i> is located, measured in metres from its sill. (3)In a Class 9c <i>aged care building</i>, a <i>required window</i> must be transparent and located— (a)in an <i>external wall</i> with the <i>window</i> sill not more than 1 m above the floor level; and 	
	(b)where the <i>window</i> faces an adjoining allotment, another building or another wall of the same building, it must not be less than a horizontal distance of 3 m from the adjoining allotment, other building or wall.	

	(4)In a Class 9b <i>early childhood centre</i> , the sills of 50% of <i>windows</i> in children's rooms must be located not more than 500 mm above the floor level.	
F6D5	Artificial lighting(1)Artificial lighting must be provided— (a)in required stairways, passageways, and ramps;and	Further Detail will be required within the Crown Certificate documentation
	(b)if natural light of a standard equivalent to that <i>required</i> by F6D3 is not available, and the periods of occupation or use of the room or space will create undue hazard to occupants seeking egress in an emergency, in— (i)a Class 4 part of a building — to <i>sanitary compartments</i> , bathrooms, shower rooms, airlocks and laundries; and	
	(ii)a Class 2 building — to <i>sanitary compartments</i> , bathrooms, shower rooms, airlocks, laundries, common stairways and other spaces used in common by the occupants of the building; and	
	 (iii)Class 3, 5, 6, 7, 8 and 9 buildings — to all rooms that are frequently occupied, all spaces <i>required</i> to be <i>accessible</i>, all corridors, lobbies, internal stairways, other circulation spaces and paths of egress. (2)The artificial lighting system must comply with AS/NZS 1680.0. 	
	(3)The system may provide a lesser level of illumination to the following spaces during times when the level of lighting would be inappropriate for the use: (a)A theatre, cinema or the like, when performances are in progress, with the exception of aisle lighting <i>required</i> by Part I1.	
	(b)A museum, gallery or the like, where sensitive displays require low lighting levels.	
	(c)A discotheque, nightclub or the like, where to create an ambience and character for the space, low lighting levels are used.	
NSW F6D6	Ventilation of rooms A habitable room, office, shop, factory, workroom, sanitary compartment, bathroom, shower room, laundry and any other room occupied by a person for any purpose must have—	Further Detail will be required within the Crown Certificate documentation

	system complying with AS 1668.2.	
F6D7	Natural ventilation(1)Natural ventilation provided in accordance with F6D6(a) must consist of openings,windows, doors or other devices which can be opened— (a)with a ventilating area not lessthan 5% of the <i>floor area</i> of the room <i>required</i> to be ventilated; and	Further Detail will be required within the Crown Certificate documentation
	(b)open to— (i)a suitably sized court, or space open to the sky; or	
	(ii)an open verandah, carport, or the like; or	
	(iii)an adjoining room in accordance with F6D8.(2)The requirements of (1)(a) do not apply to a Class 8 <i>electricity network substation</i>.	
F7D3	Determination of airborne sound insulation ratingsA form of construction <i>required</i> to have an airborne sound insulation rating must— (a)havethe <i>required</i> value for weighted sound reduction index (Rw) or weighted sound reductionindex with spectrum adaptation term (Rw + Ctr) determined in accordance with AS/NZS ISO717.1 using results from laboratory measurements; or comply with Specification 28.	Further Detail will be required within the Crown Certificate documentation
F7D4	Determination of impact sound insulation ratings(1)A floor in a building <i>required</i> to have an impact sound insulation rating must— (a)have the <i>required</i> value for weighted normalised impact sound pressure level (Ln,w) determined in accordance with AS ISO 717.2 using results from laboratory measurements; or	Further Detail will be required within the Crown Certificate documentation
	 (b)comply with Specification 28. (2)A wall in a building <i>required</i> to have an impact sound insulation rating must— (a)for a Class 2 or 3 building be of discontinuous construction and 	
	(b)for a Class 9c building, must— (i)for other than masonry, be two or more separate leaves without rigid mechanical connection except at the periphery; or	
	(ii)be identical with a prototype that is no less resistant to the transmission of impact sound when tested in accordance with Specification 29 than a wall listed in S28C4 to S28C7.(3)For the purposes of this Part, discontinuous construction means a wall having a minimum	

	20 mm cavity between 2 separate leaves, and— (a)for masonry, where wall ties are required to connect leaves, the ties are of the resilient type; and for other than masonry, there is no mechanical linkage between leaves except at the periphery.	
F7D5	 Sound insulation rating of floors (1)A floor in a Class 2 or 3 building must have an Rw + Ctr (airborne) not less than 50 and an Ln,w (impact) not more than 62 if it separates— (a)<i>sole-occupancy units</i>; or (b)a <i>sole-occupancy unit</i> from a plant room, lift <i>shaft</i>, stairway, <i>public corridor</i>, public lobby or the like, or parts of a different classification. (2)A floor in a Class 9c building separating <i>sole-occupancy units</i> must have an Rw not less than 45. 	Further Detail will be required within the Crown Certificate documentation
F7D6	 Sound insulation rating of walls (1)A wall in a Class 2 or 3 building must— (a)have an Rw + Ctr (airborne) not less than 50, if it separates <i>sole-occupancy units</i>; and (b)have an Rw (airborne) not less than 50, if it separates a <i>sole-occupancy unit</i> from a plant room, lift <i>shaft</i>, stairway, <i>public corridor</i>, public lobby or the like, or parts of a different classification; and (c)comply with F7D4(2) if it separates— (i)a bathroom, <i>sanitary compartment</i>, laundry or kitchen in one <i>sole-occupancy unit</i> from a plant room or lift <i>shaft</i>. (2)A door may be incorporated in a wall in a Class 2 or 3 building that separates a <i>sole-occupancy unit</i> from a stairway, <i>public corridor</i>, public lobby or the like, provided the door assembly has an Rw not less than 30. (3)A wall in a Class 9c building must have an Rw not less than 45 if it separates— (a)<i>sole-occupancy unit</i>; or (b)a <i>sole-occupancy unit</i> from a kitchen, bathroom, <i>sanitary compartment</i> (not being an associated ensuite), laundry, plant room or utilities room. 	Further Detail will be required within the Crown Certificate documentation

	 kitchen or laundry must comply with F7D4(2). (5)Where a wall <i>required</i> to have sound insulation has a floor above, the wall must continue to— (a)the underside of the floor above; or 	
	 (b)a ceiling that provides the sound insulation <i>required</i> for the wall. (6)Where a wall <i>required</i> to have sound insulation has a roof above, the wall must continue to— (a)the underside of the roof above; or a ceiling that provides the sound insulation <i>required</i> for the wall. 	
F7D7	 Sound insulation rating of internal services (1)If a duct, soil, waste or water supply pipe, including a duct or pipe that is located in a wall or floor cavity, serves or passes through more than one <i>sole-occupancy unit</i>, the duct or pipe must be separated from the rooms of any <i>sole-occupancy unit</i> by construction with an Rw + Ctr (airborne) not less than— (a)40 if the adjacent room is a <i>habitable room</i> (other than a kitchen); or (b)25 if the adjacent room is a kitchen or non-<i>habitable room</i>. (2)If a stormwater pipe passes through a <i>sole-occupancy unit</i>, it must be separated in 	Further Detail will be required within the Crown Certificate documentation
F7D8	accordance with (1)(a) and (b). 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.	Further Detail will be required within the Crown Certificate documentation

5.5 SECTION J – ENERGY EFFICIENCY

CLAUSI	E CLAUSE REQUIREMENT	ACTION/RECOMENDATION	
Consiste	Consistent with the decision of Building Ministers, NCC 2022 is now available for those who wish to use the new provisions.		
NCC 202	22 will be adopted by the states and territories on 1 May 2023.		
Building	Ministers also agreed to transitional arrangements for the following specific requirements:		
•	New energy efficiency and condensation mitigation requirements commence 1 October	2023	
NSW J1P1	 Introduction to this Part (1)For a Class 2 building or a Class 4 part of a building, where a relevant development consent or an application for a complying development certificate requires compliance with a BASIX Single Dwelling or Multi Dwelling Certificate issued under Version 3.0 or earlier, NSW Section J of NCC 2019 Amendment 1 applies. (2)For a Class 2 building or a Class 4 part of a building, where a relevant development consent or an application for a complying development certificate requires compliance with a BASIX Single Dwelling or Multi Dwelling Certificate issued under Version 4.0 or later, Section J of NCC 2022 applies. 	BASIX and NatHers Certificates are required Further Detail will be required within the Crown Certificate documentation	
NSW J1P2	Thermal performance of a sole-occupancy unit of a Class 2 building or a Class 4 part of a building [New for 2022] This clause has deliberately been left blank. J1P2 does not apply in NSW as thermal performance of a sole-occupancy unit of a Class 2 building or a Class 4 part of a building is regulated by BASIX.	BASIX and NatHers Certificates are required Further Detail will be required within the Crown Certificate documentation	

NSW J1P3	 Energy usage of a sole-occupancy unit of a Class 2 building or a Class 4 part of a building [New for 2022] This clause has deliberately been left blank. J1P3 does not apply in NSW as the thermal performance of a sole-occupancy unit of a Class 2 building or a Class 4 part of a building is regulated by BASIX. 	BASIX and NatHers Certificates are required Further Detail will be required within the Crown Certificate documentation
NSW J4D2	 Application of Part [2019: J1.1] (1)The Deemed-to-Satisfy Provisions of this Part apply to building elements forming the envelope of a Class 3 and Class 5 to 9 building. (2)NSW J4D3, applies to building elements forming the envelope of a sole-occupancy unit in a Class 2 building and a Class 4 part of a building. (3)(2) only applies to thermal insulation in a sole-occupancy unit in a Class 2 building and a Class 4 part of a building. (3)(2) only applies to thermal insulation in a sole-occupancy unit in a Class 2 building and a Class 4 part of a building where a development consent specifies that the insulation is to be provided as part of the development. 	Further Detail will be required within the Crown Certificate documentation
NSW J4D3	Thermal construction—general[2019: J1.2](1)Where required, insulation must comply with AS/NZS 4859.1 and be installed so that it—(a)abuts or overlaps adjoining insulation other than at supporting members such as studs,noggings, joists, furring channels and the like where the insulation must be against themember; and(b)forms a continuous barrier with ceilings, walls, bulkheads, floors or the like that inherentlycontribute to the thermal barrier; and(c)does not affect the safe or effective operation of a service or fitting.(2)Where required, reflective insulation must be installed with—(a)the necessary airspace to achieve the required R-Value between a reflective side of thereflective insulation and a building lining or cladding; and(b)the reflective insulation closely fitted against any penetration, door or window opening;	Further Detail will be required within the Crown Certificate documentation

NSW J4D6	 (c)the reflective insulation adequately supported by framing members; and (d)each adjoining sheet of roll membrane being— (i)overlapped not less than 50 mm; or (ii)taped together. (3)Where required, bulk insulation must be installed so that— (a)it maintains its position and thickness, other than where it is compressed between cladding and supporting members, water pipes, electrical cabling or the like; and (b)in a ceiling, where there is no bulk insulation or reflective insulation in the wall beneath, it overlaps the wall by not less than 50 mm. (4)Roof, ceiling, wall and floor materials, and associated surfaces are deemed to have the thermal properties listed in Specification 36. (5)The required Total R-Value and Total System U-Value, including allowance for thermal bridging, must be— (a)calculated in accordance with AS/NZS 4859.2 for a roof or floor; or (b)determined in accordance with Specification 37 for wall-glazing construction; or determined in accordance with Specification 39 or Section 3.5 of CIBSE Guide A for soil or sub-floor spaces. 	Further Detail will be required within the Crown Certificate documentation
	for the safe operation of a gas appliance; or (c)in a Class 3 or Class 5 to 9 building, a building or space where the mechanical ventilation required by Part F6 provides sufficient pressurisation to prevent infiltration; or parts of buildings that cannot be fully enclosed.	
NSW J5D2	Application of Part[2019: J3.1]The Deemed-to-Satisfy Provisions of this Part apply to elements forming the envelope of aClass 2 to 9 building, other than— (a)a building in climate zones 1, 2, 3 and 5 where the only	Further Detail will be required within the Crown Certificate documentation

	 means of air-conditioning is by using an evaporative cooler; or (b)a permanent building opening, in a space where a gas appliance is located, that is necessary for the safe operation of a gas appliance; or (c)in a Class 3 or Class 5 to 9 building, a building or space where the mechanical ventilation required by Part F6 provides sufficient pressurisation to prevent infiltration; or parts of 	
	buildings that cannot be fully enclosed.	
J5D6	Exhaust fans [2019: J3.5] An exhaust fan must be fitted with a sealing device such as a self-closing damper or the like when serving— (a)a conditioned space; or a habitable room in climate zones 4, 5, 6, 7 or 8.	Further Detail will be required within the Crown Certificate documentation
J5D7	Construction of ceilings, walls and floors[2019: J3.6](1)Ceilings, walls, floors and any opening such as a window frame, door frame, roof lightframe or the like must be constructed to minimise air leakage in accordance with (2)—(a)when forming part of the envelope; or(b)in climate zones 4, 5, 6, 7 or 8.(2)Construction required by (1) must be— (a)enclosed by internal lining systems that areclose fitting at ceiling, wall and floor junctions; or(b)sealed at junctions and penetrations with— (i)close fitting architrave, skirting or cornice;or(ii)expanding foam, rubber compressible strip, caulking or the like.(3)The requirements of (1) do not apply to openings, grilles or the like required for smokehazard management.	Further Detail will be required within the Crown Certificate documentation
J5D8		Further Detail will be required within the Crown Certificate documentation
J6D3	Air-conditioning system control [2019: J5.2] (1)An air-conditioning system—	Further Detail will be required within the Crown Certificate documentation

(a)must be capable of being deactivated when the building or part of a building served by that system is not occupied; and	
(b)when serving more than one air-conditioning zone or area with different heating or cooling needs, must— (i)thermostatically control the temperature of each zone or area; and	
(ii)not control the temperature by mixing actively heated air and actively cooled air; and	
(iii)limit reheating to not more than— (A)for a fixed supply air rate, a 7.5 K rise in temperature; and	
(B) for a variable supply air rate, a 7.5 K rise in temperature at the nominal supply air rate but increased or decreased at the same rate that the supply air rate is respectively decreased or increased; and	
(c)which provides the required mechanical ventilation, other than in climate zone 1 or where dehumidification control is needed, must have an outdoor air economy cycle if the total air	
flow rate of any airside component of an air-conditioning system is greater than or equal to the flow rates in Table J6D3; and	
(d)which contains more than one water heater, chiller or coil, must be capable of stopping the flow of water to those not operating; and	
(e) with an airflow of more than 1000 L/s, must have a variable speed fan when its supply air	
quantity is capable of being varied; and occupancy unit that opens to a balcony or the like, is open for more than one minute; and when serving a sole-occupancy unit in a Class 3 building,	
must not operate when any external door of the (f)sole-	
(g)must have the ability to use direct signals from the control components responsible for the	
delivery of comfort conditions in the building to regulate the operation of central plant; and	
(h)must have a control dead band of not less than 2°C, except where a smaller range is	
required for specialised applications; and	
(i)must be provided with balancing dampers and balancing valves, as required to meet the	
needs of the system at its maximum operating condition, that ensure the maximum design air	
or fluid flow is achieved but not exceeded by more than 15% above design at each—	
(i)component; or	
(ii)group of components operating under a common control in a system containing multiple	

	 components; and (j)must ensure that each independently operating space of more than 1 000 m2 and every separate floor of the building has provision to terminate airflow independently of the remainder of the system sufficient to allow for different operating times; and (k)must have automatic variable temperature operation of heated water and chilled water circuits; and (l)when deactivated, must close any motorised outdoor air or return air damper that is not otherwise being actively controlled. (2)When two or more air-conditioning systems serve the same space they must use control sequences that prevent the systems from operating in opposing heating and cooling modes. (3)Time switches — the following applies: (a)A time switch must be provided to control— (i)an air-conditioning system of more than 2 kWr; and (ii)a heater of more than 1 kWheating used for air-conditioning. (b)The time switch must be capable of switching electric power on and off at variable preprogrammed times and on variable pre-programmed days. (c)The requirements of (a) and (b) do not apply to— (i)an air-conditioning system that serves— (A)only one sole-occupancy unit in a Class 2, 3 or 9c building; or (B)a Class 4 part of a building; or a conditioned space where air-conditioning is needed for 24 hour continuous use. 	
J6D5	 Fans and duct systems [2019: J5.4] (1)Fans, ductwork and duct components that form part of an air-conditioning system or mechanical ventilation system must— (a)separately comply with (2), (3), (4) and (5); or (b)achieve a fan motor input power per unit of flowrate lower than the fan motor input power per unit of flowrate achieved when applying (2), (3), (4) and (5) together. (2)Fans: (a)Fans in systems that have a static pressure of not more than 200 Pa must have an efficiency at the full load operating point not less than the efficiency calculated with the 	Further Detail will be required within the Crown Certificate documentation

	 prescribed formula (a) In the formula at (a)— (i)= the minimum required system static efficiency for installation type A or C or the minimum required system total efficiency installation type B or D; and (ii) = the static pressure of the system (Pa); and (iii)= natural logarithm. (b)Fans in systems that have a static pressure above 200 Pa must have an efficiency at the full load operating point not less than the efficiency calculated with the prescribed formula 	
J6D6	Ductwork insulation (1)Ductwork and fittings in an air-conditioning system must be provided with insulation— (a)complying with AS/NZS 4859.1; and (b)having an insulation R-Value greater than or equal to— (i)for flexible ductwork, 1.0; or (ii)for cushion boxes, that of the connecting ductwork; or (iii)that specified in Table J6D6. (2)Insulation must— (a)be protected against the effects of weather and sunlight; and (b)be installed so that it— (i)abuts adjoining insulation to form a continuous barrier; and (ii)maintains its position and thickness, other than at flanges and supports; and (c)when conveying cooled air— (i)be protected by a vapour barrier on the outside of the insulation; and (ii)where the vapour barrier is a membrane, be installed so that adjoining sheets of the membrane— (A)overlap by at least 50 mm; and (B)are bonded or taped together. (3)The requirements of (1) do not apply to— (a)ductwork and fittings located within the only or last room served by the system; or (b)fittings that form part of the interface with the conditioned space; or (c)return air ductwork in, or passing through, a conditioned space; or (c)return of an in-situ air-handling unit; or (f)packaged air conditioners, split systems, and variable refrigerant flow air-conditioning	Further Detail will be required within the Crown Certificate documentation

	 equipment complying with MEPS; or (g)flexible fan connections. (4)For the purposes of (1), (2) and (3), fittings— include non-active components of a ductwork system such as cushion boxes; and (b) exclude active components such as air-handling unit components. 	
J6D7	Ductwork sealing Ductwork in an air-conditioning system with a capacity of 3000 L/s or greater, not located within the only or last room served by the system, must be sealed against air loss in accordance with the duct sealing requirements of AS 4254.1 and AS 4254.2 for the static pressure in the system.	Further Detail will be required within the Crown Certificate documentation
J6D8	 Pump systems (1)General — Pumps and pipework that form part of an air-conditioning system must either— (a)separately comply with (2), (3) and (4); or (b)achieve a pump motor power per unit of flowrate lower than the pump motor power per unit of flowrate achieved when applying (2), (3) and (4) together. (2)Circulator pumps — A glandless impeller pump, with a rated hydraulic power output of less than 2.5 kW and that is used in closed loop systems must have an energy efficiency index (EEI) not more than 0.27 calculated in accordance with European Union Commission Regulation No. 622/2012. (3)Other pumps — Pumps that are in accordance with Articles 1 and 2 of European Union Commission Regulation No. 547/2012 must have a minimum efficiency index (MEI) of 0.4 or more when calculated in accordance with European Union Commission Regulation No. 547/2012. (4)Pipework — Straight segments of pipework along the index run, forming part of an airconditioning system— (a)in pipework systems that do not have branches and have the same flow rate throughout the entire pipe network, must achieve an average pressure drop of not more than— (i)for constant speed systems, the values nominated in Table J6D8a; or (ii)for variable speed system, must achieve an average pressure drop of not more than— 	Further Detail will be required within the Crown Certificate documentation

	 (i)for constant speed systems, the values nominated in Table J6D8c; or (ii)for variable speed systems, the values nominated in Table J6D8d. (5)The requirements of (4) do not apply— (a)to valves and fittings; or where the smallest pipe size compliant with (4) results in a velocity of 0.7 m/s or less at design flow. 	
J6D9	 Pipework insulation Pipework insulation Pipework insulation Pipework insulation Pipework insulation	Further Detail will be required within the Crown Certificate documentation

	(b)cooling fluids include refrigerant, chilled water, brines and glycol mixtures, but do not include condenser cooling water.	
NSW J6D10	 include condenser cooling water. Space heating (1)A heater used for air-conditioning or as part of an air-conditioning system must be— (a)a solar heater; or (b)a gas heater; or (c)a heat pump heater; or (d)a heater using reclaimed heat from another process such as reject heat from a refrigeration plant; or (e)an electric heater if— (i)the heating capacity is not more than— (A)10 W/m2 of the floor area of the conditioned space in climate zone 1; or (B)40 W/m2 of the floor area of the conditioned space in climate zone 2; or (C)the value specified in Table J6D10 where reticulated gas is not available at the allotment boundary; or space in climate zones 1, 2, 3, 4 and 5; or the annual energy consumption for heating is not more than 15 kWh/m2 of the floor area of the (ii)conditioned (iii)the in-duct heater complies with J6D3(1)(b)(iii); or any combination of (a) to (e). (2)An electric heater may be used for heating a bathroom in a Class 3, 9a or 9c building if the heating capacity is not more than 1.2 kW and the heater has a timer. (3)A fixed heating or cooling appliance that moderates the temperature of an outdoor space must be configured to automatically shut down when— there are no occupants in the space served; or b) a period of one hour has elapsed since the last activation of the heater; or (c)the space served has reached the design temperature. 	Further Detail will be required within the Crown Certificate documentation
	consume 500 MJ/hour of gas or less, achieve a minimum gross thermal efficiency of 86%; or if rated to consume more than 500 MJ/hour of gas, achieve a minimum gross thermal efficiency of 90%.	

J6D12	Unitary air-conditioning equipment	Further Detail will be required within the
	Unitary air-conditioning equipment including packaged air-conditioners, split systems, and	Crown Certificate documentation
	variable refrigerant flow systems must comply with MEPS and for a capacity greater than or	
	equal to 65 kWr— (a)where water cooled, have a minimum energy efficiency ratio of 4.0	
	Wr/Winput power for cooling when tested in accordance with AS/NZS 3823.1.2 at test	
	condition T1, where input power includes both compressor and fan input power; or	
	(b)where air cooled, have a minimum energy efficiency ratio of 2.9 Wr/Winput power for cooling when tested in accordance with AS/NZS 3823.1.2 at test condition T1, where input	
	power includes both compressor and fan input power.	
J6D13	Heat rejection equipment	Further Detail will be required within the
	(1)The motor rated power of a fan in a cooling tower, closed circuit cooler or evaporative condenser must not exceed the allowances in Table J6D13.	Crown Certificate documentation
	(2)The fan in an air-cooled condenser must have a motor rated power of not more than 42 W	
	for each kW of heat rejected from the refrigerant, when determined in accordance with AHRI	
	460 except for— (a)a refrigerant chiller in an air-conditioning system that complies with the energy efficiency ratios in J6D11; or	
	(b)packaged air-conditioners, split systems, and variable refrigerant flow air-conditioning equipment that complies with the energy efficiency ratios in J6D12.	
NSW J7D2	Application of Part	Further Detail will be required within the
	(1)The Deemed-to-Satisfy Provisions of this Part do not apply to a Class 2 building or a Class 4 part of a building.	Crown Certificate documentation

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