

Date: 18 June 2024 Our Ref: P240004

NSW Land and Housing Corporation Locked Bag 7028 Liverpool BC NSW 1871 Att: Mr Rodney Garrett

Dear Rodney,

RE: 35 Francis and 16,18,20 Sanita Streets, Goulburn 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 Francis and 16,18,20 Sanita Streets, Goulburn

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	
P240004	1	Design Compliance Report	18 June 2024	
Author		Kieran Tobin Senior NCC Consultant Registered Building Surveyor - Fair Trading no 0409 Grad Dip Building Surveying UWS		

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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 Francis and 16,18,20 Sanita Streets, Goulburn.

The project proposal is for construction of a new residential unit building containing 28 Residential 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) Architectural documentation provided by DEM

Plan Reference	Plan Description	Dated
Ar—cv00	Cover Page	14/06/24
Ar0200	Site Plan	14/06/24
Ar1200	GF Plan	14/06/24
Ar1201	GF Plan	14/06/24
Ar1202	L1 Plan	14/06/24
Ar1203	L1 Plan	14/06/24
Ar1204	Roof Plan	14/06/24
Ar1205	Roof Plan	14/06/24
Ar2210	Sections	14/06/24
Ar2211	Sections	14/06/24
Ar2212	Sections	14/06/24
Ar2610	Elevations	14/06/24
Ar2611	Elevations	14/06/24
Ar2612	Elevations	14/06/24
Ar8100	External Finishes	14/06/24

- (c) Access Review prepared by MGAC and dated 29/02/24
- (d) Geotechnical Investigation issued by STS Geotechnics and dated May 2023

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—

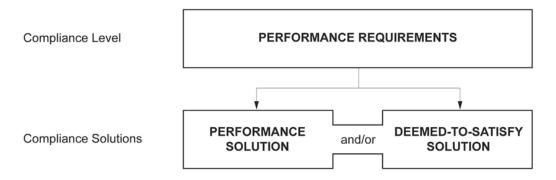
- (1) the Governing Requirements of the NCC; and
- (2) the *Performance Requirements*.

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.

Key Compliance Requirements requiring Greater detail at Crown Certificate				
	BCA Clause	Comment		
1	C2D2	All building elements to achieve the fire resistance levels of Type B 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	C2D2	Classification of Bin area The bin area appears to be less than 10% of the floor area and in this regard can be classified as part of the Class 2 area rather than class 7b storage		
3	C2D10	External wall Construction		
	C2D15	AS 1530 Fire Test Certificates will be required for Sarking Insulation and Cladding materials		
4	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
5	C4D12	Self-closing, tight fitting, solid core door, not less than 35 mm thick are required to – All (internal) Unit Entry Doors (*)The Garbage Bin room
6	D2D5	Travel Distance Further qualification is required within the plans to adequately qualify Travel Distance to Exits however the following compliance issues appear to exist within Building B Contrary to clause D2D5 (1) (a) (i) – Travel distance within the first floor of Building B appears to exceed 6m to the first stair riser Contrary to clause D2D5 (2) – Travel distance within the Ground Floor of Building B appears to exceed 20m to a choice of Exits
7	D3D25	Block B Stair Door at Ground Floor is required to swing outward in the direction of egress
8	Part D4	Building Access An Access Consultants Report is required to qualify compliance with Part D4 of the BCA, AS 1428.1 - 2009 Note: - The Access consultant will be required to qualify that the proposed accessible entry to Block B is the "Primary" building entry point
9	Part F6	A Window Schedule is required to allow for consideration of compliant Light and Ventilation
10	Part E1	A Fire Hydrant System is required for this development
11	Part E2	Smoke Hazard Management within the building is required to comply with Part E2 of the BCA
12	Part E3	Vertical Transport plans and certification will be required
13	Part E4	Emergency Lighting and Exit Signage will be required within each building compliance with AS?NZS 2293.1
14	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
15	Part F8	Identify the methods and materials for condensation management
16	Part J	BASIX, NatHers and a Section J Parts 3, 5 and 6 assessment is required

3.0 BUILDING DESCRIPTION

3.1 GENERAL

In the context of the Building Code of Australia (BCA), the subject development is described within items 3.2 - 3.7 below.

3.2 RISE IN STOREYS (CLAUSE C1.2)

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

3.3 BUILDING CLASSIFICATION (CLAUSE A3.2)

The entire building incorporates the following classifications:-

CLASS	DESCRIPTION
Class 2	A Residential Unit Building
Class 10a	Ancillary structures – Bin Areas

3.4 EFFECTIVE HEIGHT (CLAUSE A1.1)

The building has an effective height Not exceeding 12m.

3.5 Type of Construction (Table C1.1)

Specification C1.1 - Type B Construction

Building element	•
Dunuing cicilient	
EXTERNAL WALL (including any column and other b	uilding element incorporated within it) or other
external building element, where the distance from any fi	re-source feature to which it is exposed is—
	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 external	wall, where the distance from any fire-source
feature to which itis exposed is—	* *
For loadbearing columns—	
less than 18 m	90/–/–
18 m or more	_/_/_
For non-loadbearing columns—	
For non-loadbearing columns—	-/-/-
COMMON WALLS and FIRE WALLS—	90/90/90
INTERNAL WALLS—	
Fire-resisting lift and stair shafts—	
Loadbearing	90/90/90
Fire-resisting stair shafts—	
Non-loadbearing	-/ 90/ 90
Bounding public corridors, public lobbies and the like—	
Loadbearing	60/60/60
Non-loadbearing	-/ 60/ 60

Between or bounding sole-occupancy units—				
Loadbearing	60/60/60			
Non-loadbearing	-/ 60/ 60			
OTHER LOADBEARING INTERNAL WALLS and	60/_/_			
COLUMNS—				
ROOFS	_/_/_			

3.6 GENERAL FLOOR AREA LIMITATIONS (TABLE C2.2)

Note – Not applicable to residential portion

3.7 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 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					✓
C2D13 - Fire-protected timber: Concession			√		
C2D14- Ancillary elements			✓		
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					√
C3D6 - Class 9 buildings					· /
C3D7 - Vertical separation of openings in external walls					· /
C3D8 - Separation by fire walls					· /
C3D9 - Separation of classifications in the same storey					· /
C3D10 - Separation of classifications in different storeys					· /
C3D10 - Separation of classifications in different storeys C3D11 - Separation of lift shafts					· /
C3D12 - Stairways and lifts in one shaft					· /
			√		Y
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					✓
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			,		*
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	I				

4.3 SECTION D – ACCESS AND EGRESS

BCA reference	Complies	Does not comply	Detail Required	Not relevant
D2D3 - Number of exits required	✓			
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				
D2D11 - Determination and measurement of exits and paths of			✓	
travel to exits				
D2D12 - Travel via fire-isolated exits				✓
D2D13 - External stairways or ramps in lieu of fire-isolated exits				✓
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				√
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			√	•
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 staffways and famps D3D11 - Pedestrian ramps				<u>·</u> ✓
D3D12 - Fire-isolated passageways				<u>√</u>
D3D13 - 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				✓
D3D28 - Signs on doors			√	
D3D29 - Protection of openable windows			Y	√
D3D30 - Timber stairways: Concession			√	Ψ
D4D2 -General building access requirements D4D3-Access to buildings			∀	
D4D3-Access to buildings D4D4 -Parts of buildings to be accessible			▼	
D4D4 -Parts of buildings to be accessible D4D5 -Exemptions			*	√
D4D3 -Exemptions D4D6 -Accessible carparking			√	*
D4D0 -Accessiole carparking D4D7 -Signage			, /	
D4D7 - Signage D4D8 - Hearing augmentation			,	√
D4D9 -Tectile indicators			✓	•
D.D. Tuotile iliaieatois	I		<u> </u>	

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

4.4 SECTION E – SERVICES AND EQUIPMENT

E1D2 - Fire hydrants E1D3 - Fire hydrants E1D3 - Fire hose reels E1D4 - Sprinklers E1D5 - Where sprinklers are required: all classifications E1D6 - Where sprinklers are required: Class 2 and 3 buildings other than residential care buildings E1D7 - Where sprinklers are required: Class 3 building used as a residential care buildings E1D8 - Where sprinklers are required: Class 6 building ofher than an open-deck cumprak E1D8 - Where sprinklers are required: Class 6 building E1D9 - Where sprinklers are required: Class 6 building E1D9 - Where sprinklers are required: Class 9a health-care building class 9a buildings E1D19 - Where sprinklers are required: Class 9a health-care building class 9a buildings E1D11 - Where sprinklers are required: Class 9a buildings E1D12 - Where sprinklers are required: Class 9a buildings E1D12 - Where sprinklers are required: class 9b buildings E1D13 - Where sprinklers are required: class 9a buildings E1D14 - Where sprinklers are required: class 9a buildings E1D15 - Fire control centres E1D15 - Fire control centres E1D15 - Fire control centres E1D16 - Fire precautions during construction E1D17 - Provision for special hazards E1D17 - Provision for special hazards E1D18 - Fire control centres E1D19 - Fire precautions during construction E1D17 - Provision for special hazards E2D3 - Buildings more than 25 m in effective height: Class 2 and 3 buildings and Class 4 part of a building E2D3 - Buildings more than 25 m in effective height: Class 9a buildings E2D3 - Buildings nore than 25 m in effective height: Class 9a E2D18 - Buildings not more than 25 m in effective height: Class 9a Buildings and Class 4 part of a building encount was 9a buildings on the protein process of process 9a and 9b buildings not more than 25 m in effective height: Class 9a Buildings and Class 4 part of a building encount was 9a buildings on the protein process 9a buildings 9a buildings on the protein process 9a buildings 9a buildings 1 m fire compartments more than 2000 9a control process 9a buildings 9a buildings 1 m fir				-	
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EID3 - Fire hose reels EID4 - Sprinklers IID5 - Where sprinklers are required: all classifications / FID6 - Where sprinklers are required: Class 2 and 3 buildings other than residential care building EID7 - Where sprinklers are required: Class 3 building used as a residential care building. EID8 - Where sprinklers are required: Class 6 building EID9 - Where sprinklers are required: Class 6 building. EID9 - Where sprinklers are required: Class 6 building. EID9 - Where sprinklers are required: Class 9 buildings. EID10 - Where sprinklers are required: Class 90 buildings. EID110 - Where sprinklers are required: Class 90 buildings. EID112 - Where sprinklers are required: Class 90 buildings. EID12 - Where sprinklers are required: class 90 buildings. EID13 - Where sprinklers are required: cocupancies of excessive buzen. Into the sprinklers are required: cocupancies of excessive buzen. Into the sprinklers are required: cocupancies of excessive buzen. Into the sprinklers are required: cocupancies of excessive buzen. Into the sprinklers are required: cocupancies of excessive buzen. Into the sprinklers are required: cocupancies of excessive buzen. Into the sprinklers are required: cocupancies of excessive buzen. Into the sprinklers are required: cocupancies of excessive buzen. Into the sprinklers are required: cocupancies of excessive buzen. Into the sprinklers are required: cocupancies of excessive buzen. Into the sprinklers are required: cocupancies of excessive buzen. Into the sprinklers are required: cocupancies of excessive buzen. Into the sprinklers are required: cocupancies of excessive buzen. Into the sprinklers are required: cocupancies of excessive buzen. Into the sprinklers are required: class 6 buildings. Into the sprinklers are required: cocupancies of excessive buzen. Into the sprinklers are required: class 6 buildings. Into the sprinklers are required: cocupancies of excessive buzen. Into the sprinklers are required: cocupancies of excessive buzen. Into the sprinklers are re				Required	
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EID5 - Where sprinklers are required: all classifications EID6 - Where sprinklers are required: Class 2 and 3 buildings other than residential care buildings EID7 - Where sprinklers are required: Class 3 building used as a residential care building and provided and an experiment of the provided and an experiment of the provided and an open-deck carpark EID9 - Where sprinklers are required: Class 6 buildings EID8 - Where sprinklers are required: Class 5 abuilding other than an open-deck carpark IBD10 - Where sprinklers are required: Class 9 buildings EID11 - Where sprinklers are required: Class 9 buildings EID12 - Where sprinklers are required: Class 9 buildings EID13 - Where sprinklers are required: Class 9 buildings EID13 - Where sprinklers are required: cocupancies of excessive hazard EID14 - Portable fire extinguishers FID15 - Fire control centres EID15 - Fire control centres EID16 - Fire precautions during construction EID17 - Provision for special buzards FID18 - Fire included exits FID19 - Fire included exits FID20 - Buildings more than 25 m in effective height: Class 2 and 3 buildings and Class 4 part of a building abuildings more than 25 m in effective height: Class 9a buildings EID20 - Buildings more than 25 m in effective height: Class 9a buildings and Class 4 part of a building EID20 - Buildings not more than 25 m in effective height: Class 5, 6, 7b, 8 or 9b buildings and Class 4 part of a building experiment experime					
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an open-deck carpark					✓
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EID15 -Fire control centres	hazard				
E1D16-Fire precautions during construction E1D17 -Provision for special hazards ### C2D33 -General requirements E2D4 - Fire-isolated exits ### C2D5 - Buildings more than 25 m in effective height: Class 2 and 3 buildings and Class 4 part of a building E2D6 - Buildings more than 25 m in effective height: Class 5, 6, 7b, 8 or 9b buildings more than 25 m in effective height: Class 5, 6, 7b, 8 or 9b buildings more than 25 m in effective height: Class 9a buildings and Class 4 part of a building E2D7 - Buildings not more than 25 m in effective height: Class 2 and 3 buildings and Class 4 part of a building E2D9 - Buildings not more than 25 m in effective height: Class 2 and 3 buildings and Class 4 part of a building E2D9 - Buildings not more than 25 m in effective height: Class 5, 6, 7b, 8 and 9b buildings E2D10 - Buildings not more than 25 m in effective height: Class 9a and 9c buildings not more than 25 m in effective height: Class 9a and 9c buildings not more than 25 m in effective height: Class 9a and 9c buildings not more than 25 m in effective height: Class 9a and 9c buildings not more than 25 m in effective height: Class 9a and 9c buildings ### E2D11 - Buildings not more than 25 m in effective height: Class 9a and 9c buildings ### E2D14 - Class 7a buildings ### E2D15 - Class 7a buildings ### E2D14 - Class 6 buildings - in fire compartments more than 2000 ### P2C - Class 6 building - in fire compartments more than 2000 ### E2D15 - Class 6 buildings - in fire compartments more than 2000 ### E2D15 - Class 6 buildings - in fire compartments more than 2000 ### E2D15 - Class 6 buildings - in fire compartments more than 2000 ### E2D17 - assembly buildings: indentes and public halls ### E2D19 - Class 9b - assembly buildings: other assembly buildings (not listed in E2D16 to E2D19) ### E2D17 - assembly buildings: other assembly buildings (not listed in E2D16 to E2D19) ### E2D15 - Descenting - Descen					✓
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E3D6 -Landings ✓				,	√
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	E3D7 -Passenger lift types and their limitations			✓	

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		✓

3.1. SECTION F – HEALTH AND AMENITY

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. SECTION J – ENERGY EFFICIENCY

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			✓	
J6D10 Space heating			✓	
J6D11 Refrigerant chillers				✓
J6D12 Unitary air-conditioning equipment			✓	
J6D13 Heat rejection equipment			✓	
NSW J7D2 Application of Part	✓			

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 accordance with 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) open spectator stands 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 *required* 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 *shaft* connects more than 2 *storeys*.
- (3)A loadbearing internal wall and a loadbearing fire wall, including those that are part of a loadbearing shafts, 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) external wall systems, where the thermal breaks—(A) are no larger than necessary to achieve thermal objectives; and
- (B)do not extend beyond one storey; and
- (C)do not extend beyond one *fire compartment*.
- (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 required for the protection of penetrations.
- (5) The following materials, when entirely composed of itself, are *non-combustible* and may be used wherever a *non-combustible* material is *required*: (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 non-combustible material is required:(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) Sarking-type materials that do not exceed 1 mm in thickness and have a Flammability Index 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 required 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, *internal walls*, *common walls*, *fire walls* and to internal linings of *external walls*.
- (i)Other materials including insulation materials other than sarking-type materials.
- (2) Paint or fire-retardant coatings must not be used to achieve compliance with the *required fire hazard* 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 fire-protective covering; or
- (c)a timber-framed window; 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 damp-proof course, flashing, 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 *storey* building *required* 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	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 <i>group number</i> of 1 or 2; and (ii)does not extend beyond one <i>storey</i> ; and	
	(iii)does not extend beyond one fire compartment; 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 storey—(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 required 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) boilers; or (e) a battery system 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 required by Specification 5, but not less than 120/120/120; and
- (ii) any doorway protected with a *self-closing* fire door having an FRL of not less than -/120/30; or when separating a lift *shaft* 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
- (b)have any doorway in that construction protected with a *self-closing* 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 *self-closing* 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 *required* in a building, all switchboards in the electrical installation, which sustain the electricity supply to the emergency equipment, must be constructed so that emergency

Further Detail will be required within the Crown Certificate documentation

	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 shafts In a building of Type A construction, an opening in a wall providing access to a ventilating, pipe, garbage or other service shaft must be protected by— (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 less than –/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 the penetration; and (D) it is not located in a required exit. (iii) The determination of the required FRL must be confirmed in a report from an Accredited Testing Laboratory in accordance with Specifications 1 and 2. (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 entirely of metal (excluding pipe seals or the like) and is installed in accordance with Specification 13 and it— of fire; and penetrates a wall, floor or ceiling, but not a ceiling	Further Detail will be required within the Crown Certificate documentation

C3D17	Columns protected with lightweight construction to achieve an FRL A column protected by lightweight construction to achieve an FRL which passes through a	Further Detail will be required within the Crown Certificate documentation
	(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 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.	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
D2D8	Width of exits and paths of travel to exits [2019: D1.6(b), (c), (d) and (e)] (1)The unobstructed width of each required exit or path of travel to an exit, except for ladders provided in accordance with D2D21, D3D23 or I3D5, and doorways, must be not less than— (a)1 m; or area or ward area; and 1.8 m in a passageway, corridor or ramp normally used for the transportation of patients in beds within a (b)treatment (c)in a public corridor in a Class 9c aged care building, notwithstanding (2) and (3)—(i)1.5 m; and (ii)1.8 m for the full width of the doorway, providing access into a sole-occupancy unit or communal bathroom. (2)If the storey, mezzanine or open spectator stand accommodates more than 100 persons but not more than 200 persons, the aggregate unobstructed width of each required exit or path of travel to an exit, 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)treatment area or ward area. (3)If the storey, mezzanine or open spectator stand accommodates more than 200 persons, the aggregate unobstructed width of each required exit or path of travel to an exit, 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 open spectator stand which accommodates more than 2000 persons, the aggregate unobstructed width of each required exit or path of travel to an exit, except for doorways, must be not less than exit which accommodates more than 2000 persons, the aggregate unobstructed width of each required exit or path of travel to an exit, except for doorways, must be not less than exit to except for doorways, must be not less than exit to except for doorways, must be not less than ex	Further Detail will be required within the Crown Certificate documentation
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D2D9	Width of doorways in exits or paths of travel to exits In a required exit or path of travel to an exit, the unobstructed width of a doorway must be not	Further Detail will be required within the Crown Certificate documentation	
	In a <i>required exit</i> or path of travel to an <i>exit</i> , the unobstructed width of a doorway must be not less than—(a)in <i>patient care areas</i> through which patients would normally be transported in beds—(i)if the doorway provides access to, or from, a corridor of width—(A)less than 2.2 m—1200 mm; or	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 patient care areas in a horizontal exit — 1250 mm; or (c)the unobstructed width of each exit 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 resident use areas 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 exits For the purposes of D2D7 to D2D10 the following apply: (a)The <i>required</i> width of a stairway or ramp in a <i>required exit</i> or path of travel to an <i>exit</i> must— (i)be measured clear of all	For Reference	

	alastorations and as handwile maniputing manta of hamilum and the library and	
	obstructions such as handrails, projecting parts of barriers and the like; and	
	(ii)extend without interruption, except for ceiling cornices, to a height not less than 2 m vertically above a line along the nosings of the treads or the floor surface of the ramp or landing.(b)To determine the aggregate unobstructed width, the number of persons accommodated must be calculated according to D2D18.	
D3D8	Installations in exits and paths of travel (1)Access to service shafts and services other than to fire-fighting or detection equipment as permitted in the Deemed-to-Satisfy Provisions of Section E, must not be provided from a fire-isolated stairway, fire-isolated passageway or fire-isolated ramp. (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 required exit or any corridor, hallway, lobby or the like leading to a required exit. (3)Gas or other fuel services must not be installed in a required exit. (4)Except for in a fire-isolated exit specified in (1), services or equipment enclosed in accordance with (5) may be installed in a required exit, or in any corridor, hallway, lobby or the like leading to a required exit, where that service or equipment comprises— (a)electricity meters, distribution boards or ducts; or	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)non-combustible construction; or	
	 (b)a fire-protective covering. (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 exit; 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.	For Reference
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 *flights* without a change in direction of at least 30°; and

- (h)in the case of a required stairway, no winders in lieu of a landing.
- (2)In the case of a non-required stairway— (a)the stairway must have— (i)not more than 3 winders in lieu of a quarter landing; and
- (ii)not more than 6 winders in lieu of a half landing; and
- (b)the going of all straight treads must be constant throughout the same *flight* and the dimensions of goings (G) is considered constant if the variation between— (i)adjacent goings, is no greater than 5 mm; and
- (ii) the largest and smallest going within a *flight*, does not exceed 10 mm; and (c) the going of all winders in lieu of a quarter or half *landing* may vary from the going of the straight treads within the same *flight* provided that the going of all such winders is constant. (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.

D3D15 Landings

In a stairway— (a) *landings* having a maximum gradient of 1:50 may be used in any building to limit the number of risers in each *flight* and each *landing* must— (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 *landing*; 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 *flight* below; and a strip at the edge of the *landing* with a slip-resistance classification not less than that listed in (B)Table

(b)in a Class 9a building— (i)the area of any *landing* 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 *landing* while changing direction between *flights*; or

(ii)the stair must have a change of direction of 180°, and the landing a clear width of not less

Further Detail will be required within the Crown Certificate documentation

	than 1.6 m and a clear length of not less than 2.7 m. Table D3D15:Slip-resistance classification			
	Application	Dry Surface conditions	Wet surface conditions	
	Ramp steeper than 1:14	P4 or R11	P5 or R12	
	Ramp steeper than 1:20 but not steeper than 1:14	P3 or R10	P4 or R11	
	Tread or <i>landing</i> surface	P3 or R10	P4 or R11	
	Nosing or <i>landing</i> edge strip	P3	P4	
D3D16	Thresholds The threshold of a doorway my doorway than the width of the care building, the door sill is ny doorway opens; or (b) in resident use areas in a Cl of 1:8 for a maximum height of (c) in a building required to be open space; and (ii) is provided with a threshold (d) in other cases— (i) the doorwexternal balcony; and (ii) the door sill is not more than the like, to which the doorway	Further Detail will be required within the Crown Certificate documentation		
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, *mezzanine*, 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 *stage*, 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 provided to an openable window covered by D3D29.
- (3)A barrier *required* 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 *required* by D3D17 must be not less than the following: (a) For stairways or ramps with a gradient of 1:20 or steeper 865 mm.
- (b) For *landings* to a stair or ramp where the barrier is provided along the inside edge of the *landing* and does not exceed 500 mm in length 865 mm.
- (c)In front of fixed seating on a *mezzanine* 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

Further Detail will be required within the Crown Certificate documentation

D4D40	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 required barrier must not allow a 125 mm sphere to pass through. (2)In a fire-isolated stairway, fire-isolated ramp or other area used primarily for emergency purposes, openings in a required 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	Further Detail will be required within the
	[2019: Table D2.16a]	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</i> , <i>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)be located 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 <i>aged care building</i> 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.	
D3D25	Swinging doors [2019: D2.20] (1)A swinging door in a required exit or forming part of a required exit— (a)must not encroach— (i)at any part of its swing by more than 500 mm on the required width (including any landings) of a required stairway, ramp or passageway if it is likely to impede the path of	Block B Stair Door at Ground Floor is required to swing outward in the direction of egress

	travel of the people already using the exit; and (ii)when fully open, by more than 100 mm on the required width of the required exit; and must swing in the direction of egress	
D3D26	Operation of latch (1)A door in a required exit, forming part of a required exit or in the path of travel to a required exit must be readily openable without a key from the side that faces a person seeking egress, by— (a)a single hand downward action on a single device which is located between 900 mm and 1.1 m from the floor and if serving an area required to be accessible 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	Further Detail will be required within the Crown Certificate documentation
	(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, strongroom, sanitary compartment, 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 sole-occupancy unit with a floor area 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 *automatically* 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 required 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 *school*, an *early childhood centre* or a building used for religious purposes) to a door in a *required exit*, forming part of a *required exit* or in the path of travel to a *required exit* serving a *storey* 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)smoke 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 self-closing door—FIRE SAFETY DOOR DO NOT OBSTRUCT DO NOT KEEP OPEN (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 m or more above the surface beneath in— (a)a bedroom in a Class 2 or 3 building or Class 4 part of a building; or
- (b)a Class 9b early childhood centre.
- (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 *required* 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 *required* to an openable window— (a)in addition to window protection, when a child resistant release mechanism is *required* 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 required by (3) to an openable window in— (a) fire-isolated stairways, fire-isolated ramps 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,	
D4D2	General building access requirements (1)Buildings and parts of buildings must be accessible as required 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	Further Detail will be required within the Crown Certificate documentation
	(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 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 *sole-occupancy units* and to the entrance doorway of each *sole-occupancy unit* located on that level.
- (ii)a cooking facility, sauna, gymnasium, *swimming pool*, 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 *sole-occupancy unit*; 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 *accessible* carparking spaces.
- (8) For a Class 9b building, access requirements are as follows: (a) Schools and early childhood centres to and within all areas normally used by the occupants.
- (b)An assembly building, not being a school or early childhood centre—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 *accessible* to at least 1 floor containing *sole-occupancy units* and to the entrance doorway of each *sole-occupancy unit* 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, *swimming pool*, 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 *sole-occupancy unit*; 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 *accessible*, but not *swimming pools* for the exclusive use of occupants of a Class 1b building or a *sole-occupancy unit* in a Class 2 or Class 3 building.

D4D3

Access to buildings

- (1)An accessway must be provided to a building required to be accessible— (a)from the main points of a pedestrian entry at the allotment boundary; and
- (b) from another *accessible* building connected by a pedestrian link; and from any *required accessible* carparking space on the allotment.
- (2)In a building *required* to be *accessible*, an *accessway* 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 *floor area* more than 500 m2, a pedestrian entrance which is not *accessible* must not be located more than 50 m from an *accessible* pedestrian entrance,

except for pedestrian entrances serving only areas exempted by 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.	
Parts of buildings to be accessible In a building required to be accessible— (a) every ramp and stairway, except for ramps and stairways in areas exempted by D4D5, must comply with— (i) for a ramp, except a fire-isolated ramp, clause 10 of AS 1428.1; and	Further Detail will be required within the Crown Certificate documentation
(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)accessways must have— (i)passing spaces complying with AS 1428.1 at maximum 20 m intervals on those parts of an accessway where a direct line of sight is not available; and	
(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> ;	

D4D4

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 (1) Accessible carparking spaces— (a) subject to (b), must be provided in accordance with (2) in— (i) a Class 7a building required to be accessible; and (ii) a carparking area on the same allotment as a building required to be accessible; 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 carpark or carparking area is associated, the number of accessible carparking spaces required is as follows: (a) Class 1b and 3 buildings:	Further Detail will be required within the Crown Certificate documentation

(i)For a boarding house, guest house, hostel, lodging house, backpackers' accommodation, or the residential part of a hotel or motel, the number of *accessible* carparking spaces *required* is

- to be calculated by multiplying the total number of carparking spaces by the percentage of —
- (A) accessible sole-occupancy units to the total number of 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 *school*, accommodation for the aged, disabled or children, residential part of a *health-care building* which accommodates members of staff or the residential part of a *detention centre* —
- 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 *accessible* space.
- (d)Class 9a buildings: (i)For a hospital (non-outpatient area) 1 *accessible* space for every 100 carparking spaces or part thereof.
- (ii)For a hospital (outpatient area)— (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 *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 accessible space.	
D4D7	Signage (1)In a building required to be accessible— (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—occupancy unit 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)sole- (B)space with a hearing augmentation system; and (ii)identify each door required by E4D5 to be provided with an exit 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 accessible unisex sanitary	

facility, directional signage incorporating the international symbol of access in accordance with AS 1428.1 must be placed at the location of the sanitary facilities that are not *accessible*, to direct a person to the location of the nearest *accessible* unisex sanitary facility.

(2)In a building that is subject F4D12 and is *required* to be *accessible*, directional signage complying with Specification 15 to direct a person to the location of the nearest *accessible* adult change facility within that building must be provided at the location of each— (a)bank of sanitary facilities; and *accessible* unisex sanitary facility, other than one that incorporates an *accessible* adult change facility.

D4D9

Tactile indicators

(1) For a building *required* to be *accessible*, tactile ground surface indicators must be provided to warn people who are blind or have a vision impairment that they are approaching—(a) a stairway, other than a *fire-isolated stairway*; and

(b)an escalator; and a passenger conveyor or moving walk; and

- (d)a ramp other than a *fire-isolated ramp*, step ramp, kerb ramp or *swimming pool* 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 *accessway* 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 *required* 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 *residential aged care building*, Class 3 accommodation for the aged, Class 9a *health-care building* or a Class 9c *aged care building* 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.

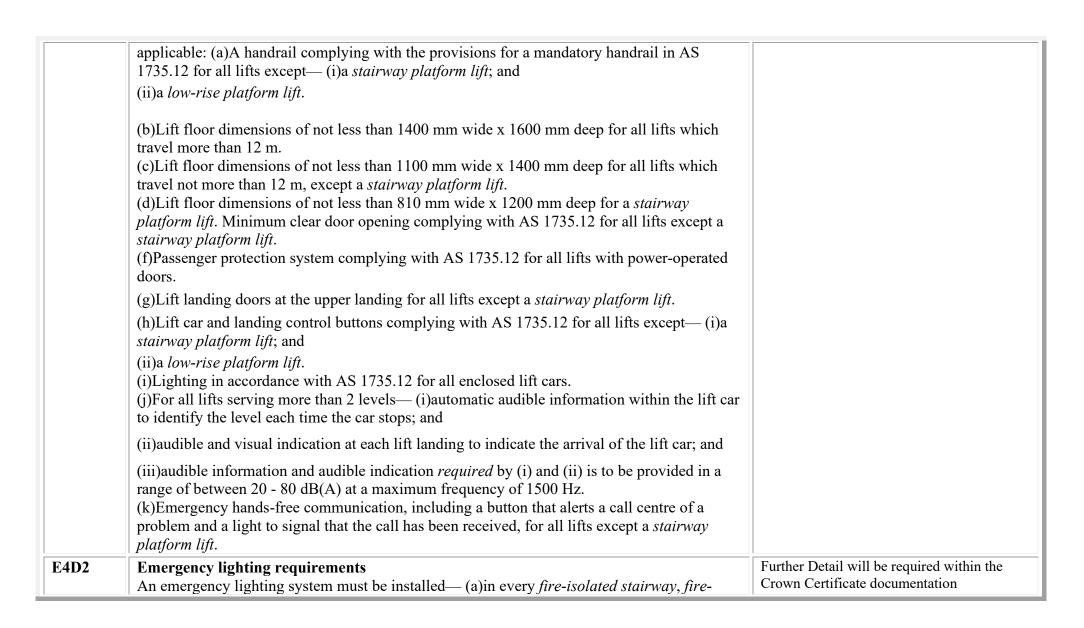
D4D13	Glazing on an accessway	Further Detail will be required within the
	On an accessway, where there is no chair rail, handrail or transom, all frameless or fully	Crown Certificate documentation
	glazed doors, sidelights and any glazing capable of being mistaken for a doorway or opening,	
	must be clearly marked in accordance with AS 1428.1.	

5.4 SECTION E – SERVICES AND EQUIPMENT

CLAUSE	CLAUSE REQUIREMENT	ACTION/RECOMENDATION
E1D1	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	
E2D8	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> . Buildings not more than 25 m in effective height: Class 2 and 3 buildings and Class 4	Further Detail will be required within the Crown Certificate documentation
	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	Crown Certificate documentation
	(b) where a required fire-isolated stairway serving the Class 2 or 3 parts also serves one or more storeys of Class 5, 6, 7 (other than an open-deck carpark), 8 or 9b parts— (i) the fire-isolated stairway, including any associated fire-isolated passageway or fire-isolated ramp, must be provided with an automatic air pressurisation system for fire-isolated exits in	

	accordance with AS 1668.1; or	
	(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-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 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 letters incised or inlaid directly into the surface of the material forming the wall.	Further Detail will be required within the Crown Certificate documentation
E3D6	Landings Access and egress to and from lift well landings must comply with the <i>Deemed-to-Satisfy</i>	Further Detail will be required within the Crown Certificate documentation

	Provisions of Parts D2, D3 and D4.	
E3D7	Passenger lift types and their limitations (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 more than 100 persons calculated according to D2D18; or	Further Detail will be required within the Crown Certificate documentation
	(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	
	(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. 	
E3D8	Accessible features required for passenger lifts In an accessible building, every passenger lift must have the following features where	Further Detail will be required within the Crown Certificate documentation



isolated passageway or fire-isolated ramp; and

(b)in every *storey* of a Class 5, 6, 7, 8 or 9 building where the *storey* has an area more than 300 m2— (i)in every passageway, corridor, hallway, or the like, that is part of the path of travel to an *exit*; and

- (ii)in any room having a *floor area* more than 100 m2 that does not open to a corridor or space that has emergency lighting or to a road or *open space*; and
- (iii)in any room having a floor area more than 300 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 *sole-occupancy unit* in a Class 2 or 3 building or Class 4 part of a building to the nearest doorway opening directly to— (i)a *fire-isolated stairway*, *fire-isolated passageway* or *fire-isolated ramp*; or
- (ii)an external stairway serving instead of a fire-isolated stairway 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 open space; and
- (d)in every required non-fire-isolated stairway; and
- (e)in a *sole-occupancy unit* in a Class 5, 6 or 9 building if— (i)the *floor area* of the unit is more than 300 m2; and
- (ii)an exit from the unit does not open to a road or open space or to an external stairway, passageway, balcony or ramp, leading directly to a road or open space; and
- (f)in every room or space to which there is public access in every *storey* in a Class 6 or 9b building if— (i)the *floor area* in that *storey* is more than 300 m2; or
- (ii)any point on the floor of that *storey* is more than 20 m from the nearest doorway leading directly to a stairway, ramp, passageway, road or *open space*; or
- (iii)egress from that *storey* involves a vertical rise within the building of more than 1.5 m, or any vertical rise if the *storey* concerned does not admit sufficient light; or
- (iv)the *storey* provides a path of travel from any other *storey required* by (i), (ii) or (iii) to have emergency lighting; and

	(g)in a Class 9a health-care building— (i)in every passageway, corridor, hallway, or the like, serving a treatment area or a ward area; and (ii)in every room having a floor area of more than 120 m2 in a patient care area; and (h)in every Class 9c building excluding within sole-occupancy units; and in every required 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, above or adjacent to each— (a)door providing direct egress from a storey to— (i)an enclosed stairway, passageway or ramp serving as a required exit; and (ii)an external stairway, passageway or ramp serving as a required exit; and (iii)an external access balcony leading to a required exit; and (b)door from an enclosed stairway, passageway or ramp at every level of discharge to a road or open space; and (c)horizontal exit; and	Further Detail will be required within the Crown Certificate documentation
	(d)door serving as, or forming part of, a <i>required exit</i> in a <i>storey required</i> to be provided with emergency lighting in accordance with E4D2.	
E4D6	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 required exit sign must— (a)comply with— (i)AS/NZS 2293.1; or	Further Detail will be required within the Crown Certificate documentation
	(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.	

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 waterproofing membrane— (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 other purposes. An <i>open spectator stand</i> or <i>open-deck carpark</i> .	
F1D7	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 required; or the floor is the base of a stair, lift or similar shaft 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 areas must— (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	Further Detail will be required within the
	(1) Where a <i>Deemed-to-Satisfy Solution</i> is proposed, <i>Performance Requirement</i> F3P1 is satisfied by complying with F3D2 to F3D5.	Crown Certificate documentation
	(2) Where a <i>Performance Solution</i> is proposed, the relevant <i>Performance Requirements</i> 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	
	(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 Sarking-type material 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, sanitary compartment, 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 open spectator stand or open-deck carpark. (3)The following glazed assemblies need not comply with (1): (a)All glazed assemblies not in an external wall.	
	(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 required to be accessible— (a)accessible unisex sanitary compartments must be	Further Detail will be required within the Crown Certificate documentation

provided in accessible 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 accessible unisex sanitary compartment at that bank of toilets, not less than one sanitary compartment suitable for a person with an ambulant disability for use by males and one *sanitary compartment* suitable for a person with an ambulant disability for use by females, must be provided; and (d)an accessible unisex sanitary compartment 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 accessible sanitary facilities provided in accordance with F4D6 and F4D7 must comply with the requirements of AS 1428.1; and (f)an accessible unisex sanitary facility must be located so that it can be entered without crossing an area reserved for one sex only; and (g)where two or more of each type of accessible unisex sanitary facility are provided, the number of left and right handed mirror image facilities must be provided as evenly as possible; and (h)where male sanitary facilities are provided at a separate location to female sanitary facilities, accessible unisex sanitary facilities are only required at one of those locations; and (i)an accessible unisex sanitary compartment or an accessible unisex shower need not be provided on a *storey* or level that is not *required* by D4D4(f) to be provided with a passenger lift or ramp complying with AS 1428.1. **F5D2** Height of rooms and other spaces Further Detail will be required within the [2019: F3.1] Crown Certificate documentation (1) The height of rooms and other spaces in a Class 2 or 3 building or Class 4 part of a building must be not less than— (a) for a kitchen, laundry, or the like — 2.1 m; and (b) for a corridor, passageway or the like — 2.1 m; and for a habitable room excluding a kitchen — 2.4 m

F6D2	Provision of natural light Natural light must be provided in: (a)A Class 2 building and a Class 4 parts of a building — to all habitable rooms. (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 early childhood centre.	Further Detail will be required within the Crown Certificate documentation
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 floor area of the room; and (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)roof lights, 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 floor area of the room; and (ii)are open to the sky; or a proportional combination of windows and roof lights required by (a) and (b). (2)Except in a Class 9c aged care building, in a Class 2, 3 or 9 building or Class 4 part of a building, a required window that faces a boundary of an adjoining allotment or a wall of the same building or another building on the allotment must not be less than a horizontal distance from that boundary or wall that is the greater of— (a)generally — 1 m; and	Further Detail will be required within the Crown Certificate documentation
	(b)in a patient care area 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 window is locat	ed,
measured in metres from its sill.	

- (3)In a Class 9c aged care building, a required window must be transparent and located—(a)in an external wall with the window sill not more than 1 m above the floor level; and
- (b) where the *window* 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 *early childhood centre*, the sills of 50% of *windows* 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
- (b)if natural light of a standard equivalent to that *required* 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 *sanitary compartments*, bathrooms, shower rooms, airlocks and laundries; and
- (ii)a Class 2 building to *sanitary compartments*, 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 *required* to be *accessible*, 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 *required* 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— (a)natural ventilation complying with F6D7; or a mechanical ventilation or air-conditioning system complying with AS 1668.2.	Further Detail will be required within the Crown Certificate documentation
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 less than 5% of the floor area of the room required 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 ratings A form of construction <i>required</i> to have an airborne sound insulation rating must— (a)have the <i>required</i> value for weighted sound reduction index (Rw) or weighted sound reduction index with spectrum adaptation term (Rw + Ctr) determined in accordance with AS/NZS ISO 717.1 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)sole-occupancy units; or	Further Detail will be required within the Crown Certificate documentation
	(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.	
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 <i>habitable room</i> (other than a kitchen) in an adjoining unit; or	Further Detail will be required within the Crown Certificate documentation
	 (ii) a sole-occupancy unit from a plant room or lift shaft. (2)A door may be incorporated in a wall in a Class 2 or 3 building that separates a sole-occupancy unit from a stairway, public corridor, public lobby or the like, provided the door 	

F7D8	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
	(b)25 if the adjacent room is a kitchen or non-habitable room.(2)If a stormwater pipe passes through a sole-occupancy unit, it must be separated in accordance with (1)(a) and (b).	
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	Further Detail will be required within the Crown Certificate documentation
	(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.	
	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)sole-occupancy units; or (b)a sole-occupancy unit from a kitchen, bathroom, sanitary compartment (not being an associated ensuite), laundry, plant room or utilities room. (4)In addition to (3), a wall separating a sole-occupancy unit in a Class 9c building from a kitchen or laundry must comply with F7D4(2). (5)Where a wall required to have sound insulation has a floor above, the wall must continue to— (a)the underside of the floor above; or	

5.5 SECTION J – ENERGY EFFICIENCY

CLAUSI	CLAUSE REQUIREMENT	ACTION/RECOMENDATION	
Consistent with the decision of Building Ministers, NCC 2022 is now available for those who wish to use the new provisions.			
NCC 202	NCC 2022 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 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 the member; and (b)forms a continuous barrier with ceilings, walls, bulkheads, floors or the like that inherently contribute 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 the reflective insulation and a building lining or cladding; and (b)the reflective insulation closely fitted against any penetration, door or window opening; and	Further Detail will be required within the Crown Certificate documentation

	(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.	
NSW J4D6	Application of Part	Further Detail will be required within the
	[2019: J3.1]	Crown Certificate documentation
	The Deemed-to-Satisfy Provisions of this Part apply to elements forming the envelope of a Class 2 to 9 building, other than— (a)a building in climate zones 1, 2, 3 and 5 where the only	
	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.	
NSW	Application of Part	Further Detail will be required within the
J5D2	[2019: J3.1]	Crown Certificate documentation
	The Deemed-to-Satisfy Provisions of this Part apply to elements forming the envelope of a Class 2 to 9 building, other than— (a)a building in climate zones 1, 2, 3 and 5 where the only	

	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 light frame 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 are close 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 smoke hazard management.	Further Detail will be required within the Crown Certificate documentation
J6D3	Air-conditioning system control [2019: J5.2] (1)An air-conditioning system— (a)must be capable of being deactivated when the building or part of a building served by that system is not occupied; and	Further Detail will be required within the Crown Certificate documentation

(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	
	(1) 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	Further Detail will be required within the
	[2019: J5.4]	Crown Certificate documentation
	(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	
	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 (d)ductwork for outdoor air and exhaust air associated with an air-conditioning system; or (e)the floor of an in-situ air-handling unit; or (f)packaged air conditioners, split systems, and variable refrigerant flow air-conditioning equipment complying with MEPS; or	Further Detail will be required within the Crown Certificate documentation

	(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 air-conditioning 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 systems, the values nominated in Table J6D8c; or	Further Detail will be required within the Crown Certificate documentation

	 (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 (1)Piping, vessels, heat exchangers and tanks containing heating or cooling fluid, where the fluid is held at a heated or cooled temperature, that are part of an air-conditioning system, other than in appliances covered by MEPS, must be provided with insulation— (a)complying with AS/NZS 4859.1; and	Further Detail will be required within the Crown Certificate documentation
	(b) for piping of heating and cooling fluids, having an insulation R-Value in accordance with Table J6D9a; and (c) for vessels, heat exchangers or tanks, having an insulation R-Value in accordance with Table J6D9b; and	
	(d) for refill or pressure relief piping, having an insulation R-Value equal to the required insulation R-Value of the connected pipe, vessel or tank within 500 mm of the connection. (2) Insulation must— (a) be protected against the effects of weather and sunlight; and (b) be able to withstand the temperatures within the piping, vessel, heat exchanger or tank. (3) Insulation provided to piping, vessels, heat exchangers or tanks containing cooling fluid must be protected by a vapour barrier on the outside of the insulation. (4) The requirements of (1) and (2) do not apply to piping, vessels or heat exchangers— (a) located within the only or last room served by the system and downstream of the control device for the regulation of heating or cooling service to that room; or	
	(b)encased within a concrete slab or panel which is part of a heating or cooling system; or (c)supplied as an integral part of a chiller, boiler or unitary air-conditioner complying with the requirements of J6D10, J6D11 and J6D12; or (d)inside an air-handling unit, fan-coil unit, or the like.	
	(5) For the purposes of (1), (2), (3) and (4)—(a) heating fluids include refrigerant, heated water, steam and condensate; and (b) cooling fluids include refrigerant, chilled water, brines and glycol mixtures, but do not include condenser cooling water.	

NSW	Space heating	Further Detail will be required within the
J6D10	(1)A heater used for air-conditioning or as part of an air-conditioning system must be— (a)a solar heater; or	Crown Certificate documentation
	(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.	
	(4)A gas water heater, that is used as part of an air-conditioning system, must— (a)if rated to 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 (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. (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.	Further Detail will be required within the Crown Certificate documentation
NSW J7D2	Application of Part (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.	For Reference

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