

Date: 24 July 2024 Our Ref:P240009 (4)

NSW Land and Housing Corporation Locked Bag 7028 Liverpool BC NSW 1871 Att: Ms Neelam Kaushal

Dear Neelam,

RE: Units 1 to 5 and 7 to 10, 7 – 9 Wattle Ave, Orange 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 Construction 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 Units 1 to 5 and 7 to 10, 7- 9 Wattle Ave, Orange

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
P240009	1	Design Compliance Report	12 February 2024
P240009	2	Revision	10 May 2024
P240009	3	Revision	8 July 2024
P240009	4	Design Compliance Report 24 July 202	
Author		Kieran Tobin Senior NCC Consultant Registered Building Surveyor - Fair Trading no 0409 Grad Dip Building Surveying UWS	

The format, technical content and intellectual property associated with this report remain the property of BCA Vision Pty Limited, and has been prepared and may only be used, for the development / buildings the subject of this report.

CONTENTS PAGE

1.0	INTRODUCTION1
1.1	General1
1.2	Report Basis1
1.3	Exclusions1
1.4	Report Purpose2
2.0	MATTERS IDENTIFIED / RECOMMENDATIONS3
2.1	Compliance Pathways within the BCA3
2.2	KEY COMPLIANCE ISSUES IDENTIFIED3
2.3	ADDITIONAL PRE CC DOCUMENTATION4
3.0	BUILDING DESCRIPTION6
3.1	General6
3.1	Rise in Storeys (Clause C1.2)6
3.2	Building Classification (Clause A3.2)6
3.4	Type of Construction (Table C1.1)6
3.5	General Floor Area Limitations (Table C2.2)
3.6	Part B1 - Structural provisions
4.0	BCA ASSESSMENT – SUMMARY8
4.1	General8
4.2	Section C – Fire resistance8
4.3	Section D – Access and Egress9
4.4	Section E – Services and Equipment11
3.1.	SECTION F – HEALTH AND AMENITY
3.1.	SECTION J – ENERGY EFFICIENCY14
5.0	BCA ASSESSMENT – DETAILED ANALYSIS1

5.1	GENERAL	1
5.2	SECTION C – FIRE RESISTANCE	1
5.3	SECTION D – ACCESS AND EGRESS	13
5.4	SECTION E – SERVICES AND EQUIPMENT	31
5.5	SECTION F – HEALTH AND AMENITY	38
5.5	Section J – Energy Efficiency	50

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 Units 1 to 5 and 7 to 10, 7-9 Wattle Ave, Orange.

The project proposal is for construction of new two storey residential unit buildings containing 9 class 2 residential units.

A separate report has been prepared in relation to Dwellings 6 which is a class 1a single residential dwelling.

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 SARM Architects

Plan Reference	Plan Description	Dated
A0000	Cover page	23/07/24
A201	Site Plan	23/07/24
A202	Ground Floor Plan	23/07/24
A203	First Floor Plan	23/07/24
A204	Roof Plan	23/07/24
A301	Elevation	23/07/24
A302	Elevation	23/07/24
A303	Elevation	23/07/24
A304	Section	23/07/24
A305	Section	23/07/24

1.3 EXCLUSIONS

It is conveyed that this report should not construed to infer that an assessment for compliance with the following has been undertaken –

- (a) Structural and services design documentation;
- (b) General building services;
- (c) The individual requirements of service providers (i.e. Telstra, Water Supply, Energy Australia);
- (d) The individual requirements of the Workcover Authority;
- (e) Disability Discrimination Act (DDA);
- (f) Assessment of any structural elements or geotechnical matters relating to the building, including any;
- (g) Consideration of any fire services <u>operations</u> (including hydraulic, electrical or other systems);
- (h) Assessment of plumbing and drainage installations, including stormwater;
- (i) Assessment of mechanical plant operations, electrical systems or security systems;

- (j) Heritage significance;
- (k) Consideration of energy or water authority requirements;
- (l) Consideration of Council's local planning policies;
- (m) Environmental or planning issues;
- (n) Requirements of statutory authorities;
- (o) Sections G, H or I of the BCA are not considered;
- (p) This report has been prepared for the exclusive use of the client referred to on the cover sheet of this report. We do not warrant or accept liability for the reliance upon or use of this report by anyother party.
- (q) The report <u>considers matters of a significant nature only</u> and should not be considered exhaustive.
- (r) The report does not consider structural adequacy of the building.

1.4 REPORT PURPOSE

The purpose of this report is to identify the extent to which the proposed plans may 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. Construction 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—

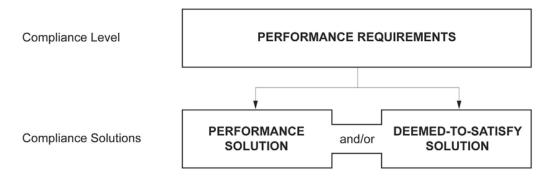
- (1) the Governing Requirements of the NCC; and
- (2) the *Performance Requirements*.

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.

Deemed-To-Satisfy Compliance – Key Considerations			
Item No.	BCA Clause	Comment	
1.	C2D2, Spec 5	All building elements to achieve the fire resistance levels of TypeB Construction as outlined in Specification 5 (Refer Clause 3.4 of this report).	
		Sectional Wall details will be required to clarify the FRLs required have been achieved	
		Further detail is required for the nominated wall schedule to include the actual wall system reference numbers and the FRL achieved by each system	
2.	C2D10	The following elements and their components are required to be non-combustible: • External walls and common walls, including all components incorporated in them including the façade covering, framing and insulation. • Non-loadbearing internal walls where they are	

		required to be fire-resisting.
		Buildings of type B construction to have external walls including all components incorporated in them including the facade covering, framing and insulation to be noncombustible. Details to be provided with the application for CC. Evidence of suitability under BCA A5.2 via the following; a) a current CodeMark certificate, b) a current certificate of Accreditation, c) a report issued by an Accredited Testing Laboratory, or a certificate or report from a professional engineer for each non-combustible building element.
3.	C2D14	An ancillary elements must not be fixed, installed or attached to the internal parts or external face of an external wall that is required to be non-combustible unless it complies with the allowable points in C1.14. The architect/structural engineer is to provide evidence of suitability under BCA A5.2 via the following; a) a current CodeMark certificate, b) a current certificate of Accreditation,
		c) a report issued by an Accredited Testing Laboratory or a certificate
4.	Part D4D	Building Access An Access Assessment Report will be required Note it must be at "Construction Stage" issue prior to release of a Crown Certificate
5.	Part E1	The building floor area exceeds 500m2 and in this regard a Fire Hydrant System will be required

2.3 ADDITIONAL PRE CC DOCUMENTATION

The following table provides a list of additional items which may be required by the PCA:-

Seq	Requirement		
1.	A Door Schedule is required to determine compliance with the requirements		
	of BCA Exit Doors – Clause D3D25, D326 and Part D4		
	Common Area Doors – Clause C4D12 and Clause 13 of AS 1428.1 - 2009		
2.	A Window Schedule is required to determine compliance with the Light and		
	Ventilation requirements of BCA Part F6		
3.	Additional Part D4 Access requirements		
	Colour contrast at Doors		
	Slip resistance of floors		
	Walkway sections		
	Stair section		
4.	Fire Hazard Certificates for floor linings		
5.	Copy of BASIX, NatHERS and Section J reports		
6.	Copy of Architectural Regulated Design Certificate		

7. Provide a copy of Weatherproofing report confirming that the extended and roof system complies with Part F3 of the BCA	ternal wall
and roof system compiles with rait 13 of the BCA	
8. Copy of Structural Regulated Design Certificate	
1,	omicos Dlons
Copy of Structural Engineers Design Compliance Certificate and So	ervices Plans
Structural Engineers Design Compliance Certificate	
Confirm compliance with:-	
AS 3600 Concrete Structures	
AS 3700 Masonry Structures	
AS 1684 Timber Framed Construction	
9. Cladding	
Provide an AS 1530.1 Fire test Certificate for the system	
10. Provide AS 1530.1 Fire Test Certificate for insulation	
11. Provide AS 1530.3 Fire Test Certificate for sarking	
12. Provide AS 1530.1 Fire Test Certificate for building attachments -	- privacy
screens etc	
13. Copy of Mechanical Regulated Design Certificate	
Copy of Final Mechanical Services Engineers Design Compliance C	Certificate and
Services Plans	
14. Copy of Hydraulic Regulated Design Certificate	
Copy of Final Hydraulic Services Engineers Design Compliance Cer	tificate and
Services Plans	
Note the Certificate must reference compliance with	
Clause E12D2, AS 2419.1 – 2021	
15. Copy of Civil/Stormwater Regulated Design Certificate	
Copy of Final Civil Stormwater Services Engineers Design Complia	nce
Certificate and Services Plans	
16. Copy of Electrical Regulated Design Certificate	
Copy of Electrical Services Engineers Design Compliance Certificat	te
Confirm compliance with	
Automatic Smoke Detection and Alarm System	
Part E2 of the BCA and Specification 20 AS 3786-2014; AS 1670 -	2018
Emergency Lighting and Exit Signs	
BCA Part E4 of the BCA, and the relevant provisions of AS/NZS 22	93 1-2018
	20.1 2010.
Artificial Lighting	
AS/NZS 1680.0.	
17. Part F5 Requirements	
Details of the Acoustic requirements for Floor/ceiling systems bet	tween
residential units	

3.0 BUILDING DESCRIPTION

3.1 GENERAL

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

3.1 RISE IN STOREYS (CLAUSE C1.2)

The building has a rise in storeys of two (2).

3.2 BUILDING CLASSIFICATION (CLAUSE A3.2)

The Building will contain the following classifications

Class	Description
2	Class 2 building is a building containing two or more sole- occupancy units

3.3 Effective Height (Clause A1.1)

The buildings have an effective height of 12m.

3.4 Type of Construction (Table C1.1)

Specification 5 - Type B Construction

TYPE B CONSTRUCTION: FRL OF BUILDING ELEMENTS

Building element	BUILDING ELEMENTS
Dunuing element	
EXTERNAL WALL (including any column and other	er building element incorporated within it) or other
external building element, where the distance from any	
external buriants element, where the distance from an	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	-/- 00/ 30 -/-/-
EXTERNAL COLUMN not incorporated in an <i>exter</i>	1 ' '
feature to which itis exposed is—	nai waii, where the distance from any jire-source
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 <i>public corridors</i> , 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	_/_/_	

3.5 GENERAL FLOOR AREA LIMITATIONS (TABLE C2.2)

Note – Not applicable to residential portion

3.6 PART B1 - STRUCTURAL PROVISIONS

Structural Engineers Details prepared by an Appropriately qualified Structural Engineer will be required within the Construction 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
- A building in a *flood hazard area* must comply with the ABCB Standard for Construction of Buildings in Flood Hazard Areas.

4.0 BCA ASSESSMENT – SUMMARY

4.1 GENERAL

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

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

4.2 SECTION C – FIRE RESISTANCE

4.2 SECTION C – FIRE RESISTANCE				
BCA reference	Complies	Does not comply	Detail Required	Not relevant
C2D1 - Deemed-to-Satisfy Provisions			✓	
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 - 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				→
C3D11 - Separation of lift shafts C3D12 - Stairways and lifts in one shaft				•
				•
C3D13 - Separation of equipment			V	
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				V
C4D7-Sliding fire doors				√
C4D8- Protection of doorways in horizontal exits				Y
C4D9- Openings in fire-isolated exits				*
C4D10- Service penetrations in fire-isolated exits				✓
C4D11- Openings in fire-isolated lift shafts			V	
C4D12- Bounding construction: Class 2 and 3 buildings and			'	
Class 4 parts				
C4D13- Openings in floors and ceilings for services			V	
C4D14- Openings in shafts			✓	
C4D15- Openings for service installations			·	
C4D16- Construction joints			√	
C4D17- Columns protected with lightweight construction to			~	
achieve an FRL				

4.3 SECTION D – ACCESS AND EGRESS

D2D13 - Number of exits required D2D14 - When fire-isolated stairways and ramps are required D2D15 - Exit travel distances D2D16 - Distance between alternative exits D2D16 - Distance between alternative exits D2D17 - Height of exits, paths of travel to exits and doorways D2D8 - Width of exits and paths of travel to exits and doorways D2D8 - Width of exits and paths of travel to exits D2D19 - Width of exits and paths of travel to exits D2D19 - Width of exits and paths of travel to exits D2D19 - Width of exits and paths of travel to exits D2D10 - Exit width not to diminish in direction of travel D2D11 - I ravel via fire-isolated exits D2D11 - I ravel real stairways or ramps in the original stairway of tramps or excellators D2D11 - I ravel properties the stairways or ramps D2D15 - Discharge from exits D2D16 - Horizontal exits D2D17 - Non-required stairways, ramps or escalators D2D18 - Number of persons accommodated D2D19 - Mesuarement of distances D2D19 - Mesuarement of distances D2D19 - Mesuarement of stainces D2D101 - Non-required stairways and ramps D2D12 - Access to lift pits D2D22 - Access to lift pits D2D22 - Access to lift pits D2D23 - Egress from primary schools D3D3 - Fire-isolated stairways and ramps D3D3 - Separation of rising and descending stair flights D3D3 - Separation of rising and descending stair flights D3D3 - Separation of rising and descending stair flights D3D3 - Smoke lobbies D3D3 - Isonalizations in exits and paths of travel D3D3 - Isonalizations in exits and paths of travel D3D3 - Isonalizations in exits and paths of travel D3D3 - Isonalizations in exits and paths of travel D3D3 - Isonalizations in exits and paths of travel D3D3 - Isonalizations in exits and paths of travel D3D3 - Isonalizations in exits and paths of travel D3D3 - Isonalizations in exits and paths of travel D3D3 - Isonalizations in exits and paths of travel D3D3 - Isonalizations in exits and paths of travel D3D3 - Isonalizations in exits and paths of travel D3D3 - Isonalizations in exits and paths of travel D3D3 - Isonaliz	BCA reference	Complies	Does not comply	Detail Required	Not relevant
D2D3 - 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 corways in exits or paths of travel to exits D2D9 - Width of doorways in exits or paths of travel to exits D2D9 - Width of doorways in exits or 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 D2D112 - 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 D2D19 - Measurement of distances D2D19 - Measurement of distances D2D19 - Plant rooms, lift machine rooms and electricity network substations: Concession D2D23 - Acgress from primary schools D2D3 - Fire-isolated stairways and ramps D3D4 - Non-fire-isolated stairways and ramps 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 halconies D3D7 - Smock tobbics D3D7 - Smock tobbics D3D8 - Installations in exits and paths of travel D3D9 - Instolated paths of travel D3D9 - Instolated paths of travel D3D9 - Instolated paths of travel D3D10 - Width of required stairways and ramps					
D2D26 - Distance between alternative exits		V			./
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 D2D9 - Width of doorways in exits or paths of travel to exits D2D9 - Width of doorways in exits or 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 D2D12 - Travel via fire-isolated exits D2D13 - External stairways or ramps in leu of fire-isolated exits V D2D14 - Travel by non-fire-isolated stairways or ramps D2D15 - Discharge from exits D2D16 - Horizontal exits D2D16 - Horizontal exits D2D17 - Non-required stairways, ramps or escalators V D2D18 - Number of persons accommodated D2D19 - Measurement of distances D2D19 - Measurement of distances D2D19 - Measurement of distances D2D10 - Hont rooms, lift machine rooms and electricity network substations: Concession D2D22 - Access to lift pits D2D23 - Egress from primary schools D3D35 - Egress from primary schools D3D36 - 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 balconics D3D7 - Smoke lobies D3D8 - Installations in exits and paths of travel D3D9 - Enclosure of space under stairs and rumps D3D10 - Width of required stairways and ramps V D3D10 - Width of required stairways and ramps V D3D10 - Width of required stairways and ramps V D3D10 - Width of required stairways and ramps V D3D10 - Width of required stairways and ramps V D3D10 - Width of required stairways and ramps V D3D10 - Width of required stairways and ramps V D3D10 - Width of required stairways and ramps V D3D10 - Width of required stairways and ramps V D3D10 - Width of required stairways and ramps V D3D10 - Width of required stairways and ramps V D3D10 - Width of required stairways and ramps V D3D10 - Width of required stairways and ramps V D3D10 - Width of required stairways and	, i i				· ·
D2D21- 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 D2D9 - Width of doorways in exits or paths of travel to exits D2D10 - Exit width not to diminish in direction of travel D2D112 - Travel via fire-sloated exits V D2D13 - External stairways or ramps in lieu of fire-isolated exits V D2D13 - External stairways or ramps in lieu of fire-isolated exits V D2D14 - Travel by non-fire-isolated stairways or ramps V D2D15 - Discharge from exits D2D17 - Non-required stairways, ramps or escalators D2D18 - Momber of persons accommodated D2D19 - Mon-required stairways, ramps or escalators D2D19 - Non-required stairways, ramps or escalators D2D19 - Mon-required stairways, ramps or escalators D2D20 - Method of measurement D2D20 - Method of measurement D2D21 - Plant norns, lift machine rooms and electricity network substations: Concession D2D22 - Access to lift pits D2D22 - Access to lift pits D2D23 - Egress from primary schools D3D3 - Fire-isolated stairways and ramps D3D4 - Non-fire-isolated stairways and ramps D3D4 - Non-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 balconics D3D9 - Enclosure of space under stairs and ramps D3D10 - Vidth of required stairways and ramps D3D10 - Vidth of required stairways and ramps D3D10 - Vidth of required stairways and ramps D3D10 - Fire-isolated stairways and		, ,			
D2D29 - Width of exis 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 D2D12 - Travel via fire-isolated exits V D2D13 - External Stairways or ramps in lieu of fire-isolated exits V D2D14 - Travel by non-fire-isolated stairways or ramps V D2D15 - Discharge from exits V D2D16 - Horizontal exits V D2D17 - Non-required stairways, ramps or escalators V D2D17 - Non-required stairways, ramps or escalators V D2D17 - Non-required stairways, ramps or escalators V D2D18 - Number of persons accommodated V D2D19 - Measurement of distances V D2D20 - Method of measurement V D2D20 - Method of measurement V D2D21 - Plant rooms, lift machine rooms and electricity network V D2D22 - Access to lift pits V D2D23 - Egress from primary schools D3D3 - Fire-isolated stairways and ramps V D3D8 - Installations in exits and paths of travel V D3D9 - Enclosure of space under stairs and ramps V D3D9 - Enclosure of space under stairs and ramps V D3D9 - Enclosure of space under stairs and ramps V D3D9 - Enclosure of space under stairs and ramps V D3D9 - Enclosure of space under stairs and ramps V D3D9 - Enclosure of space under stairs and ramps V D3D9 - Enclosure of space under stairs and ramps V D3D9 - Enclosure of space under stairs and ramps V D3D9 - Enclosure of space under stairs and ramps V D3D9 - Enclosure of space under stairs and ramps V D3D9 - Enclosure of space under stairs and ramps V D3D9 - Enclosure of space under stairs and ramps V D3D9 - Enclosure of space under stairs and ramps V D3D9 - Enclosure of space under stairs and ramps V D3D9 - Enclosure of space under stairs and ramps V D3D9 - Enclosure of space under stairs and ramps V D3D9 - Enclosure of space under stairs and ramps V D3D9 - Enclosure of space under stairs an					
D2D12 - Travel via fire-isolated exits					
D2D14 - Travel by non-fire-isolated stairways or ramps D2D16 - Horizontal exits D2D16 - Horizontal exits D2D17 - Non-required stairways, ramps or escalators D2D18 - Number of persons accommodated D2D19 - Measurement of distances D2D20 - Method of measurement D2D20 - Method of measurement D2D20 - Hant 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 D3D9 - Installations in exits and paths of travel D3D9 - Installations in exits and paths of travel D3D9 - Installations in exits and ramps D3D10 - Width of required stairways and ramps D3D10 - Width of required stairways and ramps D3D11 - Pedestrian ramps D3D12 - Fire-isolated passageways 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 - Fire-borrows, walkways, stairways and ladders D3D20 - Frection of openable windows D3D27 - Re-entry from fire-isolated exits D3D30 - Timber stairways: Concession D4D3 - Access to buildings D4D4 - Portection of openable windows D4D5 - Accessible caparking D4D6 - Hearing augmentation D4D6 - Hearing augmentation D4D7 - Tactile indicators D4D10 - Whetchair scatting spaces in Class 9b assembly		√			
D2D14 - Travel by non-fire-isolated stairways or ramps D2D16 - Horizontal exits D2D16 - Horizontal exits D2D17 - Non-required stairways, ramps or escalators D2D18 - Number of persons accommodated D2D19 - Measurement of distances D2D20 - Method of measurement D2D20 - Method of measurement D2D20 - Hant 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 D3D9 - Installations in exits and paths of travel D3D9 - Installations in exits and paths of travel D3D9 - Installations in exits and ramps D3D10 - Width of required stairways and ramps D3D10 - Width of required stairways and ramps D3D11 - Pedestrian ramps D3D12 - Fire-isolated passageways 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 - Fire-borrows, walkways, stairways and ladders D3D20 - Frection of openable windows D3D27 - Re-entry from fire-isolated exits D3D30 - Timber stairways: Concession D4D3 - Access to buildings D4D4 - Portection of openable windows D4D5 - Accessible caparking D4D6 - Hearing augmentation D4D6 - Hearing augmentation D4D7 - Tactile indicators D4D10 - Whetchair scatting spaces in Class 9b assembly	D2D13 - External stairways or ramps in lieu of fire-isolated exits	✓			✓
D2D15 - Discharge from exits D2D17 - Non-required stairways, ramps or escalators D2D18 - Number of persons accommodated 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 D3D4 - Non-fire-isolated stairways and ramps D3D5 - Separation of rising and descending stair flights D3D6 - Open access ramps and balconies D3D8 - Installations in exits and paths of travel D3D9 - Enclosure of space under stairs and ramps D3D10 - Width of required stairways and ramps D3D10 - Vidth of required stairways and ramps D3D11 - Pedestrian ramps D3D12 - Fire-isolated passageways D3D13 - Roof as open space D3D14 - Goings and risers D3D15 - Landings D3D16 - Thresholds D3D17 - Barriers to prevent falls D3D18 - Installations in exits and paths of travel D3D19 - Openings in barriers D3D10 - Vidth of required stairways and ramps D3D11 - Pedestrian ramps D3D12 - Fire-isolated passageways D3D13 - Roof as open space D3D14 - Goings and risers D3D15 - Span gale D3D16 - Thresholds D3D17 - Barriers to prevent falls D3D18 - Height of barriers D3D19 - Openings in barriers D3D10 - Vidth partiers D3D10 - Vidth partiers D3D10 - Vidth partiers D3D10 - Protection of openable windows D3D13 - Roof as open space D3D14 - Doorways and doors D3D15 - Swinging doors D3D24 - Doorways and doors D3D25 - Swinging doors D3D26 - Operation of fatch D3D27 - Re-entry from fire-isolated exits D3D28 - Signs on doors D3D3 - Timber stairways: Concession D4D3 - Access to buildings D4D4 - Parts of buildings to be accessible D4D5 - Exceptions D4D6 - Factile indicators D4D6 - Factile indicators D4D7 - Signage D4D8 - Hearing augmentation D4D9 - Factile indicators D4D10 - Wheelchair scatting spaces in Class 9b assembly		✓			
D2D17 - Non-required stairways, ramps or escalators		✓			
D2D18 - Number of persons accommodated	D2D16 - Horizontal exits				✓
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 D3D4 - Non-fire-isolated stairways and ramps D3D5 - Separation of rising and descending stair flights D3D6 - Open access ramps and balconies D3D7 - Smoke lobbies D3D8 - Installations in exits and paths of travel D3D9 - Enclosure of space under stairs and ramps D3D10 - Width of required stairways and ramps D3D10 - Width of required stairways and ramps D3D11 - Pedestrian ramps D3D12 - Fire-isolated passageways D3D13 - Roof as open space D3D14 - Goings and risers D3D15 - Landings 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 D3D29 - Protection of openable windows D3D30 - General building access requirements D4D3 - Access to buildings D4D4 - Parts of buildings to be accessible D4D5 - Exemptions D4D6 - Accessible carparking D4D7 - Signage D4D8 - Haring augmentation D4D9 - Tactile indicators D4D10 - Wheelchair seating spaces in Class 9b assembly					✓
Substations: Concession					✓
D2D22 - Access to lift pits D2D23 - Egress from primary schools D3D3 - Fires isolated stairways and ramps D3D4 - Non-fire-isolated stairways and ramps D3D5 - Separation of rising and descending stair flights D3D6 - Open access ramps and balconies D3D7 - Smoke lobbies D3D8 - Installations in exits and paths of travel D3D9 - Enclosure of space under stairs and ramps D3D10 - With of required stairways and ramps D3D10 - With of required stairways and ramps D3D11 - Pedestrian ramps D3D11 - Pedestrian ramps D3D12 - Fire-isolated passageways 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 D3D19 - Openings in barriers D3D20 - Barrier climbability D3D21 - Wire barriers D3D22 - Handrails D3D23 - Fixed platforms, walkways, stairways and ladders D3D24 - Space of the doors D3D25 - Swinging doors D3D26 - Operation of latch D3D27 - Re-entry from fire-isolated exits D3D28 - Signs on doors D3D29 - Protection of openable windows D3D30 - Exemptions D4D3 - Access to buildings to be accessible D4D3 - Access to buildings to be accessible D4D5 - Exemptions D4D6 - Accessible carparking D4D6 - Accessible carparking D4D7 - Signage D4D8 - Hollow Meelchair seating spaces in Class 9b assembly					
D3D3 - Fire-isolated stairways and ramps D3D4 - Non-fire-isolated stairways and ramps D3D5 - Separation of rising and descending stair flights D3D6 - Open access ramps and balconies D3D7 - Smoke lobbies D3D8 - Installations in exits and paths of travel D3D9 - Enclosure of space under stairs and ramps D3D10 - Width of required stairways and ramps D3D11 - Pedestrian ramps D3D11 - Pedestrian ramps D3D12 - Fire-isolated passageways 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 - Wire barriers D3D22 - Fixed platforms, walkways, stairways and ladders D3D25 - Swinging doors D3D25 - Swinging doors D3D26 - Operation of latch D3D27 - Re-entry from fire-isolated exits D3D30 - Timber stairways: Concession D4D2 - General building access requirements D4D3 - Exemptions D4D4 - Parts of buildings D4D7 - Signage D4D8 - Hearing augmentation D4D9 - Tactile indicators D4D10 - Wheelchair seating spaces in Class 9b assembly					✓
D3D4 - Non-fire-isolated stairways and ramps D3D5 - Separation of rising and descending stair flights D3D6 - Opera access ramps and balconies P3D7 - Smoke lobbies P3D8 - Installations in exits and paths of travel D3D9 - Enclosure of space under stairs and ramps D3D10 - Width of required stairways and ramps D3D11 - Pedestrian ramps D3D11 - Pedestrian ramps D3D12 - Fire-isolated passageways 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 D3D19 - Openings in barriers D3D20 - Barrier climbability D3D21 - Wire barriers D3D22 - 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 D3D30 - Timber stairways: Concession D4D2 - General building access requirements D4D3 - Sexemptions D4D4 - Parts of buildings to be accessible D4D5 - Steeppilons D4D6 - Accessible carparking D4D7 - Signage D4D8 - Hearing augmentation D4D9 - Tactile indicators D4D10 - Wheelchair seating spaces in Class 9b assembly	D2D23 - Egress from primary schools				✓
D3D5 - Separation of rising and descending stair flights D3D6 - Open access ramps and balconies D3D7 - Smoke lobbies D3D8 - Installations in exits and paths of travel D3D9 - Enclosure of space under stairs and ramps D3D10 - Width of required stairways and ramps D3D11 - Pedestrian ramps D3D12 - Fire-isolated passageways 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 D3D19 - Openings in barriers D3D19 - Openings in barriers D3D20 - Barrier climbability D3D21 - Hixed patterns 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 D3D29 - Protection of openable windows D3D30 - Timber stairways: Concession D4D4 - Parts of buildings to be accessible D4D5 - Exemptions D4D6 - Access to buildings D4D7 - Signage D4D8 - Hearing augmentation D4D9 - Tactlie indicators D4D10 - Wheelchair seating spaces in Class 9b assembly	D3D3 - Fire-isolated stairways and ramps				✓
D3D6 - Open access ramps and balconies D3D7 - Smoke lobbies D3D8 - Installations in exits and paths of travel D3D9 - Enclosure of space under stairs and ramps D3D10 - Width of required stairways and ramps D3D11 - Pedestrian ramps D3D11 - Pedestrian ramps D3D13 - Roof as open space D3D14 - Goings and risers D3D15 - Landings D3D16 - Thresholds D3D17 - Barriers to prevent falls D3D18 - Instancians D3D19 - Openings in 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 D3D30 - Timber stairways: Concession D4D2 - General building access requirements D4D3 - Exemptions D4D4 - Parts of buildings to be accessible D4D6 - Accessible carparking D4D7 - Signage D4D9 - Tactlie indicators D4D0 - Weelchair seating spaces in Class 9b assembly	D3D4 - Non-fire-isolated stairways and ramps			✓	
D3D7 - Smoke lobbies D3D8 - Installations in exits and paths of travel D3D9 - Enclosure of space under stairs and ramps D3D10 - Width of required stairways and ramps D3D11 - Pedestrian ramps D3D12 - Fire-isolated passageways 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 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 D3D29 - Protection of openable windows D3D30 - Timber stairways: Concession D4D4 - General buildings D4D4 - Parts of buildings D4D7 - Signage D4D7 - Signage D4D8 - Hearing augmentation D4D9 - Tactile indicators D4D10 - Wheelchair seating spaces in Class 9b assembly	D3D5 - Separation of rising and descending stair flights				✓
D3D8 - Installations in exits and paths of travel D3D9 - Enclosure of space under stairs and ramps D3D10 - Width of required stairways and ramps D3D11 - Pedestrian ramps D3D12 - Fire-isolated passageways 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 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 D3D29 - Protection of openable windows D3D30 - Timber stairways: Concession D4D2 - General buildings access requirements D4D3 - Access to buildings D4D7 - Signage D4D7 - Signage D4D7 - Signage D4D10 - Wheelchair seating spaces in Class 9b assembly	D3D6 - Open access ramps and balconies				✓
D3D9 - Enclosure of space under stairs and ramps D3D10 - Width of required stairways and ramps D3D11 - Pedestrian ramps D3D12 - Fire-isolated passageways D3D13 - Roof as open space D3D14 - Goings and risers D3D15 - Landings D3D15 - Landings 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 D3D22 - Handrails D3D23 - Fixed platforms, walkways, stairways and ladders D3D26 - Operation of latch D3D27 - Re-entry from fire-isolated exits D3D29 - Protection of openable windows D3D30 - Timber stairways: Concession D4D3 - Access to buildings D4D4 - Parts of buildings to be accessible D4D7 - Signage D4D9 - Tactile indicators D4D90 - Wheelchair seating spaces in Class 9b assembly					✓
D3D10 - Width of required stairways and ramps D3D11 - Pedestrian ramps D3D12 - Fire-isolated passageways D3D13 - Roof as open space D3D14 - Goings and risers D3D15 - Landings D3D16 - Thresholds D3D16 - Thresholds D3D17 - Barriers to prevent falls D3D18 - Height of barriers D3D19 - Openings in barriers D3D19 - Openings in barriers D3D20 - Barrier climbability D3D21 - Handrails 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 D3D30 - Timber stairways: Concession D4D2 - General building access requirements D4D3 - Access to buildings D4D4 - Parts of buildings to be accessible D4D7 - Signage D4D7 - Signage D4D8 - Hearing augmentation D4D9 - Tactile indicators D4D9 - Tactile indicators D4D10 - Wheelchair seating spaces in Class 9b assembly				✓	
D3D11 - Pedestrian ramps D3D12 - Fire-isolated passageways 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 D3D19 - Openings in barriers D3D20 - Barrier climbability D3D21 - Wire barriers D3D22 - Handrails 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 D3D29 - Protection of openable windows D3D30 - Timber stairways: Concession D4D2 - General buildings to be accessible D4D3 - Exemptions D4D6 - Accessible carparking D4D7 - Signage D4D8 - Hearing augmentation D4D9 - Tactile indicators D4D10 - Wheelchair seating spaces in Class 9b assembly				✓	
D3D12 - Fire-isolated passageways 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 D3D19 - Openings in barriers D3D20 - Barrier climbability D3D21 - Wire barriers D3D22 - Handrails 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 D3D30 - Timber stairways: Concession D4D2 - General building access requirements D4D3 - Access to buildings D4D4 - Parts of buildings to be accessible D4D5 - Exemptions D4D6 - Accessible carparking D4D7 - Signage D4D8 - Hearing augmentation D4D9 - Tactile indicators D4D10 - Wheelchair seating spaces in Class 9b assembly					
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 ✓ D3D30 - Timber stairways: Concession ✓ D4D3 - Access to buildings access requirements ✓ D4D3 - Parts of buildings to be accessible ✓ D4D4 - Parts of buildings to be accessible ✓ D4D5 - Exemptions ✓ D4D6 - Accessible carparking ✓ D4D7 - Signage ✓ <					√
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 ✓ D3D29 - Protection of openable windows ✓ D3D30 - Timber stairways: Concession ✓ D4D3 - Access to buildings ✓ D4D4 - Parts of buildings to be accessible ✓ D4D5 - Exemptions ✓ D4D6 - Accessible carparking ✓ D4D8 - Hearing augmentation ✓ D4D10 - Wheelchair seating spaces in Class 9b assembly ✓					√
D3D15 - Landings D3D16 - Thresholds D3D17 - Barriers to prevent falls D3D18 - Height of barriers D3D19 - Openings in 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 D3D25 - Swinging doors D3D26 - Operation of latch D3D27 - Re-entry from fire-isolated exits D3D28 - Signs on doors D3D29 - Protection of openable windows D3D30 - Timber stairways: Concession D4D2 - General building access requirements D4D3 - Access to buildings D4D4 - Parts of buildings to be accessible D4D5 - Exemptions D4D6 - Accessible carparking D4D7 - Signage D4D7 - Signage D4D7 - Tactile indicators D4D10 - Wheelchair seating spaces in Class 9b assembly					✓
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 D3D29 - Protection of openable windows D3D29 - Protection of openable windows D3D30 - Timber stairways: Concession D4D2 - General building access requirements D4D3 - Access to buildings D4D4 - Parts of buildings to be accessible D4D5 - Exemptions D4D6 - Accessible carparking D4D7 - Signage D4D9 - Tactile indicators D4D0 - Wheelchair seating spaces in Class 9b assembly				V	
D3D17 - Barriers to prevent falls D3D18 - Height of barriers D3D19 - Openings in barriers D3D20 - Barrier climbability D3D21 - Wire barriers D3D22 - Handrails 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 D3D30 - Timber stairways: Concession D4D2 - General building access requirements D4D3 - Access to buildings D4D4 - Parts of buildings to be accessible D4D5 - Exemptions D4D6 - Accessible carparking D4D7 - Signage D4D9 - Tactile indicators D4D0 - Wheelchair seating spaces in Class 9b assembly				V	
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 D3D25 - Swinging doors D3D26 - Operation of latch D3D27 - Re-entry from fire-isolated exits D3D28 - Signs on doors D3D29 - Protection of openable windows D3D30 - Timber stairways: Concession D4D2 - General building access requirements D4D3 - Access to buildings D4D4 - Parts of buildings to be accessible D4D5 - Exemptions D4D6 - Accessible carparking D4D7 - Signage D4D8 - Hearing augmentation D4D9 - Tactile indicators D4D10 - Wheelchair seating spaces in Class 9b assembly				V	
D3D19 - Openings in barriers D3D20 - Barrier climbability D3D21 - Wire barriers D3D22 - Handrails D3D22 - Handrails D3D23 - Fixed platforms, walkways, stairways and ladders D3D24 - Doorways and doors D3D25 - Swinging doors D3D25 - Swinging doors D3D26 - Operation of latch D3D27 - Re-entry from fire-isolated exits D3D28 - Signs on doors D3D29 - Protection of openable windows D3D30 - Timber stairways: Concession D4D2 - General building access requirements D4D3-Access to buildings D4D4 - Parts of buildings D4D4 - Parts of buildings D4D6 - Accessible carparking D4D7 - Signage D4D7 - Signage D4D9 - Tactile indicators D4D0 - Wheelchair seating spaces in Class 9b assembly				V	
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 D3D30 - Timber stairways: Concession D4D2 - General building access requirements D4D3-Access to buildings D4D4 - Parts of buildings to be accessible D4D5 - Exemptions D4D6 - Accessible carparking D4D7 - Signage D4D8 - Hearing augmentation D4D9 - Tactile indicators D4D10 - Wheelchair seating spaces in Class 9b assembly				V	
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 D3D30 - Timber stairways: Concession D4D2 - General building access requirements D4D3-Access to buildings D4D4 - Parts of buildings to be accessible D4D5 - Exemptions D4D6 - Accessible carparking D4D7 - Signage D4D8 - Hearing augmentation D4D9 - Tactile indicators D4D10 - Wheelchair seating spaces in Class 9b assembly				V	
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 D3D30 - Timber stairways: Concession D4D2 - General building access requirements D4D3-Access to buildings D4D4 - Parts of buildings to be accessible D4D5 - Exemptions D4D6 - Accessible carparking D4D7 - Signage D4D8 - Hearing augmentation D4D9 - Tactile indicators D4D10 - Wheelchair seating spaces in Class 9b assembly				▼	
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 D3D30 - Timber stairways: Concession D4D2 - General building access requirements D4D3-Access to buildings D4D4 - Parts of buildings to be accessible D4D5 - Exemptions D4D6 - Accessible carparking D4D7 - Signage D4D8 - Hearing augmentation D4D9 - Tactile indicators D4D10- Wheelchair seating spaces in Class 9b assembly					▼
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 D3D30 - Timber stairways: Concession D4D2 - General building access requirements D4D3-Access to buildings D4D4 - Parts of buildings to be accessible D4D5 - Exemptions D4D6 - Accessible carparking D4D7 - Signage D4D8 - Hearing augmentation D4D9 - Tactile indicators D4D10- Wheelchair seating spaces in Class 9b assembly				•	
D3D25 - Swinging doors D3D26 - Operation of latch D3D27 - Re-entry from fire-isolated exits D3D28 - Signs on doors D3D29 - Protection of openable windows D3D30 - Timber stairways: Concession D4D2 - General building access requirements D4D3-Access to buildings D4D4 - Parts of buildings to be accessible D4D5 - Exemptions D4D6 - Accessible carparking D4D7 - Signage D4D8 - Hearing augmentation D4D9 - Tactile indicators D4D10- Wheelchair seating spaces in Class 9b assembly					→
D3D26 - Operation of latch D3D27 - Re-entry from fire-isolated exits D3D28 - Signs on doors D3D29 - Protection of openable windows D3D30 - Timber stairways: Concession D4D2 - General building access requirements D4D3 - Access to buildings D4D4 - Parts of buildings to be accessible D4D5 - Exemptions D4D6 - Accessible carparking D4D7 - Signage D4D8 - Hearing augmentation D4D9 - Tactile indicators D4D10- Wheelchair seating spaces in Class 9b assembly		✓			7
D3D27 - Re-entry from fire-isolated exits D3D28 - Signs on doors D3D29 - Protection of openable windows D3D30 - Timber stairways: Concession D4D2 - General building access requirements D4D3-Access to buildings D4D4 - Parts of buildings to be accessible D4D5 - Exemptions D4D6 - Accessible carparking D4D7 - Signage D4D8 - Hearing augmentation D4D9 - Tactile indicators D4D10- Wheelchair seating spaces in Class 9b assembly				✓	
D3D28 - Signs on doors D3D29 - Protection of openable windows D3D30 - Timber stairways: Concession D4D2 - General building access requirements D4D3-Access to buildings D4D4 - Parts of buildings to be accessible D4D5 - Exemptions D4D6 - Accessible carparking D4D7 - Signage D4D8 - Hearing augmentation D4D9 - Tactile indicators D4D10- Wheelchair seating spaces in Class 9b assembly	D3D20 - Operation of laten			,	─ ✓
D3D29 - Protection of openable windows D3D30 - Timber stairways: Concession D4D2 - General building access requirements D4D3-Access to buildings D4D4 - Parts of buildings to be accessible D4D5 - Exemptions D4D6 - Accessible carparking D4D7 - Signage D4D8 - Hearing augmentation D4D9 - Tactile indicators D4D10- Wheelchair seating spaces in Class 9b assembly					
D3D30 - Timber stairways: Concession D4D2 - General building access requirements D4D3-Access to buildings D4D4 - Parts of buildings to be accessible D4D5 - Exemptions D4D6 - Accessible carparking D4D7 - Signage D4D8 - Hearing augmentation D4D9 - Tactile indicators D4D10- Wheelchair seating spaces in Class 9b assembly				✓	•
D4D2 -General building access requirements D4D3-Access to buildings D4D4 -Parts of buildings to be accessible D4D5 -Exemptions D4D6 -Accessible carparking D4D7 -Signage D4D8 -Hearing augmentation D4D9 -Tactile indicators D4D10- Wheelchair seating spaces in Class 9b assembly					✓
D4D3-Access to buildings D4D4 -Parts of buildings to be accessible D4D5 -Exemptions D4D6 -Accessible carparking D4D7 -Signage D4D8 -Hearing augmentation D4D9 -Tactile indicators D4D10- Wheelchair seating spaces in Class 9b assembly				✓	
D4D4 -Parts of buildings to be accessible D4D5 -Exemptions D4D6 -Accessible carparking D4D7 -Signage D4D8 -Hearing augmentation D4D9 -Tactile indicators D4D10- Wheelchair seating spaces in Class 9b assembly				✓	
D4D5 -Exemptions D4D6 -Accessible carparking D4D7 -Signage D4D8 -Hearing augmentation D4D9 -Tactile indicators D4D10- Wheelchair seating spaces in Class 9b assembly				✓	
D4D6 -Accessible carparking D4D7 -Signage D4D8 -Hearing augmentation D4D9 -Tactile indicators D4D10- Wheelchair seating spaces in Class 9b assembly				✓	
D4D7 -Signage D4D8 -Hearing augmentation D4D9 -Tactile indicators D4D10- Wheelchair seating spaces in Class 9b assembly		✓			
D4D8 -Hearing augmentation D4D9 -Tactile indicators D4D10- Wheelchair seating spaces in Class 9b assembly ✓				✓	
D4D9 -Tactile indicators D4D10- Wheelchair seating spaces in Class 9b assembly ✓					✓
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

	a ::	5 .	D ()	N
BCA reference	Complies	Does not comply	Detail Required	Not relevant
TIPO PLATA			•	
E1D2 - Fire hydrants E1D3 -Fire hose reels			✓	√
E1D3 -Fire nose reels E1D4 - Sprinklers				→
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 building				
E1D8 - Where sprinklers are required: Class 6 building				✓
E1D9 - Where sprinklers are required: Class 7a building, other than				✓
an open-deck carpark				-/
E1D10 -Where sprinklers are required: Class 9a health-care building used as a residential care building, Class 9c buildings				•
E1D11 - Where sprinklers are required: Class 9b buildings				✓
E1D12 - Where sprinklers are required: additional requirements				<u>,</u>
E1D13 - Where sprinklers are required: occupancies of excessive				✓
hazard				*
E1D14 -Portable fire extinguishers				✓
E1D15 -Fire control centres				✓
E1D16 -Fire precautions during construction				✓
E1D17 -Provision for special hazards				✓
E2D3 -General requirements			✓	
E2D4 -Fire-isolated exits				✓
E2D5 -Buildings more than 25 m in effective height: Class 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				
E2D7 -Buildings more than 25 m in effective height: Class 9a				✓
buildings			./	
E2D8 -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: large				✓
isolated buildings subject to C3D4				
E2D11 -Buildings not more than 25 m in effective height: Class 9a				✓
and 9c buildings				
E2D12 -Class 7a buildings				✓
E2D13 -Basements (other than Class 7a buildings)				✓
E2D14 -Class 6 buildings – in fire compartments more than 2000				✓
m2: Class 6 building (not containing an enclosed common walkway				
or mall serving more than one Class 6 sole-occupancy unit) E2D15 -Class 6 buildings – in fire compartments more than 2000				
m2: Class 6 buildings – in the compartments more than 2000 m2: Class 6 building (containing an enclosed common walkway or				7
mall)				
E2D16 -assembly buildings: nightclubs, discotheques and the like				✓
E2D17 - assembly buildings: exhibition halls				✓
E2D18 - assembly buildings: theatres and public halls				✓
E2D19 -Class 9b – assembly buildings: theatres and public halls (not				✓
listed in E2D18) including lecture theatres and cinema/auditorium				
complexes				
E2D20 -Class 9b assembly buildings: other assembly buildings (not				✓
listed in E2D16 to E2D19)				
E2D21 -Provision for special hazards				✓
E3D2 - Lift installations			✓	
E3D3 - Stretcher facility in lifts E3D4 - Warning against use of lifts in fire				▼
E3D4 - Warning against use of fitts in fire E3D5 - Emergency lifts			✓	▼
E3D6 - Landings	√		•	
E3D7 -Passenger lift types and their limitations			✓	
100/ 1 assenger intropes and men inintations	<u> </u>		•	

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			✓	
F4D1 - Calculation of number of occupants and facilities				✓
F4D2 - Facilities in Class 2 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, Parts C, D, E and F 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 is required within the Construction 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 is required within the Construction 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 <i>non-combustible</i> material is <i>required</i> : (a)Plasterboard.	
	(b)Perforated gypsum lath with a normal paper finish.	
	(c)Fibrous-plaster sheet.	
	(d)Fibre-reinforced cement sheeting.	
	(e)Pre-finished metal sheeting having a <i>combustible</i> surface finish not exceeding 1 mm thickness and where the <i>Spread-of-Flame Index</i> of the product is not greater than 0.	
	(f) 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 is required within the Construction 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.	
C2D13	Fire-protected timber: Concession Fire-protected timber may be used wherever an element is required to be non-combustible, provided— (a)the building is— (i)a separate building; or (ii)a part of a building— (A)which only occupies part of a storey, and is separated from the remaining part by a fire wall; or (B)which is located above or below a part not containing fire-protected timber and the floor between the adjoining parts is provided with an FRL not less than that prescribed for a fire wall for the lower storey; and (b)the building has an effective height of not more than 25 m; and (c)the building has a sprinkler system (other than a FPAA101D or FPAA101H system) throughout complying with Specification 17; and (d)any insulation installed in the cavity of the timber building element to have an FRL is non-combustible; and cavity barriers are provided in accordance with Specification 9.	Further Detail is required within the Construction Documentation
C2D14	Ancillary elements 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 unless it is one of the following: (a)An ancillary element that is non-combustible. (b)A gutter, downpipe or other plumbing fixture or fitting. (c)A flashing. (d)A grate, grille or similar cover not more than 2 m2 in area associated with a building service.	Further Detail is required within the Construction Documentation

	(e)An electrical switch, socket-outlet, cover plate or the like.	
	(f)A light fitting.	
	(g)A required sign.	
	(h)A sign other than one provided under (a) or (g) that— (i)achieves a group number of 1 or 2; and	
	(ii)does not extend beyond one storey; and	
	(iii)does not extend beyond one fire compartment; and	
	(iv)is separated vertically from other signs permitted under (h) by at least 2 <i>storeys</i> . (i)An awning, sunshade, canopy, blind or shading hood other than one provided under (a) that— (i)meets the relevant requirements of Table S7C7 as for an internal element; and	
	(ii)serves a <i>storey</i> — (A)at ground level; or	
	(B)immediately above a <i>storey</i> at ground level; and (iii)does not serve an <i>exit</i> , where it would render the <i>exit</i> unusable in a fire. (j)A part of a security, intercom or announcement system. (k)Wiring. (l)Waterproofing material installed in accordance with AS 4654.2 and applied to an adjacent floor surface, including vertical upturn, or a roof surface. (m)Collars, sleeves and insulation associated with service installations. (n)Screens applied to vents, weepholes and gaps complying with AS 3959. (o)Wiper and brush seals associated with doors, windows or other openings. A gasket, caulking, sealant or adhesive directly associated with (a) to (o).	
C2D15	Fixing of bonded laminated cladding panels (1)In a building 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.	Further Detail is required within the Construction Documentation
	(b)Layered plasterboard product.	
	(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 is required within the Construction 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 <i>required</i> by Specification 5, but not less than 120/120/120; and	
	(ii) any doorway protected with a <i>self-closing</i> fire door having an FRL of not less than -/120/30; or when separating a lift <i>shaft</i> and lift motor room, an FRL not less than 120/-/	
C3D14	Electricity supply system (1)An electricity substation located within a building must— (a)be separated from any other part of the building by construction having an FRL of not less than 120/120/120; and	Further Detail is required within the Construction Documentation
	 (b)have any doorway in that construction protected with a <i>self-closing</i> fire door having an FRL of not less than -/120/30. (2)A main switchboard located within the building which sustains emergency equipment operating in 	

	the emergency mode must— (a)be separated from any other part of the building by construction having an FRL of not less than 120/120/120; and	
	(b)have any doorway in that construction protected with a <i>self-closing</i> fire door having an FRL of not less than –/120/30.	
	(3)Subject to (4), electrical conductors must— (a)have a classification in accordance with AS/NZS 3013 of not less than— (i)if located in a position that could be subject to damage by motor vehicles — WS53W; or	
	(ii)otherwise — WS52W; or (b)be enclosed or otherwise protected by construction having an FRL of not less than 120/120/120.	
	(4) The requirements of (3) only apply to electrical conductors located within a building that supply— (a) a substation located within the building which supplies a main switchboard covered by (2); or (b) a main switchboard covered by (2).	
	(5)Where emergency equipment is <i>required</i> in a building, all switchboards in the electrical installation, which sustain the electricity supply to the emergency equipment, must be constructed so that emergency equipment switchgear is separated from non-emergency equipment switchgear by metal partitions designed to minimise the spread of a fault from the non-emergency equipment switchgear. (6)For the purposes of (5), emergency equipment includes but is not limited to the following: (a)Fire hydrant booster pumps.	
	(b)Pumps for <i>automatic</i> sprinkler systems, water spray, chemical fluid suppression systems or the like. (c)Pumps for fire hose reels where such pumps and fire hose reels form the sole means of fire protection in the building.	
	(d)Air handling systems designed to exhaust and control the spread of fire and smoke.	
	(e)Emergency lifts.	
	(f)Control and indicating equipment. Emergency warning and intercom systems.	
C4D11	Openings in fire-isolated lift shafts (1)Doorways — If a lift <i>shaft</i> is <i>required</i> to be fire-isolated, an entrance doorway to that <i>shaft</i> must be protected by –/60/– fire doors that— (a)comply with AS 1735.11; and	Further Detail is required within the Construction Documentation
	(b)are set to remain closed except when discharging or receiving passengers, goods or vehicles. (2)Lift indicator panels — A lift call panel, indicator panel or other panel in the wall of a fire-	

	isolated lift <i>shaft</i> must be backed by construction having an FRL of not less than –/60/60 if it exceeds 35 000 mm2 in area.	
C4D12	Bounding construction: Class 2 and 3 buildings and Class 4 parts (1)A doorway in a Class 2 or 3 building must be protected if it provides access from a sole- occupancy unit to— (a)a public corridor, public lobby, or the like; or	Further Detail is required within the Construction Documentation
	(b)a room not within a <i>sole-occupancy unit</i> ; or	
	(c) the landing of an internal non fire-isolated stairway that serves as a required exit; or	
	(d)another <i>sole-occupancy unit</i> . (2)A doorway in a Class 2 or 3 building must be protected if it provides access from a room not within a <i>sole-occupancy unit</i> to— (a)a <i>public corridor</i> , public lobby, or the like; or	
	 (b)the landing of an internal non <i>fire-isolated stairway</i> that serves as a <i>required exit</i>. (3)A doorway in a Class 4 part of a building must be protected if it provides access to any other internal part of the building. <i>NSW C4D12(4)</i> 	
	(4)Except as provided in (5), protection for a doorway must be at least— (a)in a building of Type A construction — a <i>self-closing</i> –/60/30 fire door; and	
	(b)in a building of Type B or C construction — a <i>self-closing</i> , tight fitting, solid core door, not less than 35 mm thick.	
	(5)In a Class 3 building used as a <i>residential care building</i> protected with a sprinkler system complying with Specification 17, protection for a doorway must be at least— (a)a tight fitting, solid core door not less than 35 mm thick if the building is divided into <i>floor areas</i> not exceeding 500 m2 with smoke proof walls complying with S11C2; or	
	(b)a tight fitting, solid core door not less than 35 mm thick fitted with a <i>self-closing</i> device, a delayed closing device or an <i>automatic</i> closing device.	
	(6)Other openings in <i>internal walls</i> which are <i>required</i> to have an FRL with respect to <i>integrity</i> and <i>insulation</i> must not reduce the <i>fire-resisting</i> performance of the wall.	
	(7)A door <i>required</i> by (4) or (5) may be <i>automatic</i> -closing in accordance with the following: (a)The <i>automatic</i> -closing operation must be initiated by the activation of a smoke detector, or	

	any other detector deemed suitable in accordance with AS 1670.1 if smoke detectors are unsuitable in the atmosphere, installed in accordance with the relevant provisions of AS 1670.1 and located not more than 1.5 m horizontal distance from the approach side of the doorway. (b)Where any other <i>required</i> suitable fire alarm system, including a sprinkler system (other than a FPAA101D system) complying with Specification 17, is installed in the building, activation of the system must also initiate the <i>automatic</i> -closing operation. (8)The requirements of (9) apply in a Class 2 or 3 building where a path of travel to an <i>exit</i> — (a)does not provide a person seeking egress with a choice of travel in different directions to alternative <i>exits</i> ; and	
	(b)is along an open balcony, landing or the like; and	
	(c)passes an <i>external wall</i> of— (i)another <i>sole-occupancy unit</i> ; or (ii)a room not within a <i>sole-occupancy unit</i> . (9)The <i>external wall</i> mentioned in (8)(c) must— (a)be constructed of concrete or masonry, or be lined internally with a <i>fire-protective covering</i> ; and	
	(b)have any doorway fitted with a <i>self-closing</i> , tight-fitting solid core door not less than 35 mm thick; and	
	(c)have any windows or other openings—protected internally in accordance with C4D5	
C4D13	Openings in floors and ceilings for services (1) Where a service passes through— (a) a floor that is <i>required</i> to have an FRL with respect to <i>integrity</i> and <i>insulation</i> ; or	Further Detail is required within the Construction Documentation
	 (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 <i>shaft</i> 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.

5.3 SECTION D – ACCESS AND EGRESS

CLAUSE	CLAUSE REQUIREMENT	ACTION/RECOMENDATION
D3D4	Non-fire-isolated stairways and ramps [2019: D2.3] In a building having a <i>rise in storeys</i> of more than 2, <i>required</i> stairs and ramps (including landings and any supporting building elements) which are not <i>required</i> to be within a <i>fire-resisting shaft</i> , must be constructed according to D3D3, or only of— (a)reinforced or prestressed concrete; or	Further Detail is required within the Construction Documentation
	(b)steel in no part less than 6 mm thick; or	
	(c)timber that— (i)has a finished thickness of not less than 44 mm; and	
	(ii)has an average density of not less than 800 kg/m3 at a moisture content of 12%; and	
	(iii)has not been joined by means of glue unless it has been laminated and glued with resorcinol formaldehyde or resorcinol phenol formaldehyde glue.	
D3D8	Installations in exits and paths of travel (1) Access to service <i>shafts</i> and services other than to fire-fighting or detection equipment as permitted in the <i>Deemed-to-Satisfy Provisions</i> of Section E, must not be provided from a <i>fire-isolated stairway</i> , <i>fire-isolated passageway</i> or <i>fire-isolated ramp</i> . (2) An opening to any chute or duct intended to convey hot products of combustion from a boiler, incinerator, fireplace or the like, must not be located in any part of a <i>required exit</i> or any corridor, hallway, lobby or the like leading to a <i>required exit</i> . (3) Gas or other fuel services must not be installed in a <i>required exit</i> . (4) Except for in a fire-isolated <i>exit</i> specified in (1), services or equipment enclosed in accordance with (5) may be installed in a <i>required exit</i> , or in any corridor, hallway, lobby or the like leading to a <i>required exit</i> , where that service or equipment comprises— (a) electricity meters, distribution boards or ducts; or	Further Detail is required within the Construction 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 exit if the wiring is associated with— (a)a lighting, detection, or pressurisation system serving the exit; 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	Further Detail is required within the Construction Documentation
D3D14	Goings and risers (1)A stairway must have— (a)not more than 18 and not less than 2 risers in each <i>flight</i> ; and	Further Detail is required within the Construction Documentation
	(b)going (G), riser (R) and quantity (2R + G) in accordance with Table D3D14, except as permitted by (2) and (3); and	
	(c)constant goings and risers throughout each <i>flight</i> , except as permitted by (2) and (3), and the dimensions of goings (G) and risers (R) in accordance with (1)(b) are considered constant if the variation between— (i)adjacent risers, or between adjacent goings, is no greater than 5 mm; and	

	(ii)the largest and smallest riser within a <i>flight</i> , or the largest and smallest going within a <i>flight</i> , does not exceed 10 mm; and (d)risers which do not have any openings that would allow a 125 mm sphere to pass through between the treads; and (e)treads which have— (i)a surface with a slip-resistance classification not less than that listed in Table D3D15 when tested in accordance with AS 4586; or (ii)a nosing strip with a slip-resistance classification not less than that listed in Table D3D15 when tested in accordance with AS 4586; and (f)treads of solid construction (not mesh or other perforated material) if the stairway is more than 10 m high or connects more than 3 <i>storeys</i> ; and (g)in a Class 9b building, not more than 36 risers in consecutive <i>flights</i> without a change in direction of at least 30°; and (h)in the case of a <i>required</i> stairway, no winders in lieu of a landing. (2)In the case of a non-required stairway— (a)the stairway must have— (i)not more than 3 winders in lieu of a quarter <i>landing</i> ; and (ii)not more than 6 winders in lieu of a half <i>landing</i> ; and (b)the going of all straight treads must be constant throughout the same <i>flight</i> and the dimensions of goings (G) is considered constant if the variation between— (i)adjacent goings, is no greater than 5 mm; and (ii)the largest and smallest going within a <i>flight</i> , does not exceed 10 mm; and (c)the going of all winders in lieu of a quarter or half <i>landing</i> may vary from the going of the straight treads within the same <i>flight</i> provided that the going of all such winders is constant. (3)Where a stairway discharges to a sloping public walkway or public road— (a)the riser (R) may be reduced to account for the slope of the walkway or road; and the quantity (2R+G) may vary at that location.	
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	Further Detail is required within the Construction Documentation

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 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 landing surface	P3 or R10	P4 or R11
Nosing or <i>landing</i> edge strip	P3	P4

D3D16

Thresholds

The threshold of a doorway must not incorporate a step or ramp at any point closer to the doorway than the width of the door leaf unless— (a)in *patient care areas* in a Class 9a *health-care building*, the door sill is not more than 25 mm above the finished floor level to which the doorway opens; or

(b)in *resident use areas* in a Class 9c building, a ramp is provided with a maximum gradient of 1:8 for a maximum height of 25 mm over the threshold; or

(c)in a building required to be accessible by Part D4, the doorway— (i)opens to a road or

Further Detail is required within the Construction Documentation

	open space; and (ii)is provided with a threshold ramp or step ramp in accordance with AS 1428.1; or (d)in other cases— (i)the doorway opens to a road or open space, external stair landing or external balcony; and	
	(ii)the door sill is not more than 190 mm above the finished surface of the ground, balcony, or the like, to which the doorway opens.	
D3D17	Barriers to prevent falls (1)A continuous barrier must be provided along the side of— (a)a roof to which general access is provided; and (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.	Further Detail is required within the Construction Documentation
D3D18	Height of barriers (1) The height of a barrier <i>required</i> by D3D17 must be not less than the following: (a) For stairways or ramps with a gradient of 1:20 or steeper — 865 mm.	Further Detail is required within the Construction Documentation
	(b) For <i>landings</i> to a stair or ramp where the barrier is provided along the inside edge of the <i>landing</i> and does not exceed 500 mm in length — 865 mm.	

	(c)In front of fixed seating on a <i>mezzanine</i> or balcony within an auditorium in a Class 9b building, where the horizontal projection extends not less than 1 m outwards from the top of the barrier — 700 mm.	
	(d)For all other locations — 1 m. (2)For a barrier provided under (1) — (a)barrier heights are measured vertically from the surface beneath, except that for stairways the height must be measured above the nosing line of the stair treads; and	
	(b)a transition zone may be incorporated where the barrier height changes from 865 mm on a 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 is required within the Construction 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</i>	

	stairways or fire-isolated ramps serving Class 9b early childhood centres. (5)For a barrier provided under (1), the maximum 125 mm barrier opening for a stairway, such as a non fire-isolated stairway, is measured above the nosing line of the stair treads. (6)Where a required barrier is fixed to the vertical face forming an edge of a landing, balcony, deck, stairway or the like, the opening formed between the barrier and the face must not exceed 40 mm. (7)For the purposes of (6), the opening is measured horizontally from the edge of the trafficable surface to the nearest internal face of the barrier.	
D3D20	Barrier climbability [2019: Table D2.16a] (1)A barrier required 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)fire-isolated stairways, fire-isolated ramps and other areas used primarily for emergency purposes, other than— (i)external stairways; and (ii)external ramps; and	Further Detail is required within the Construction Documentation
D3D22	Class 7 (other than <i>carparks</i>) and Class 8 buildings. 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 (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	Further Detail is required within the Construction Documentation
	(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 early childhood centre; and

- (d)in any other case, be fixed at a height of not less than 865 mm; and
- (e)be continuous between stair *flight* landings and have no obstruction on or above them that will tend to break a hand-hold; and
- (f)in a *required exit* serving an area *required* to be *accessible*, be designed and constructed to comply with clause 12 of AS 1428.1, except that clause 12(d) does not apply to a handrail *required* by (1)(c)(ii).
- (2) The height *required* 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 *health-care building* must be provided along at least one side of every passageway or corridor used by patients, and must be— (i)fixed not less than 50 mm clear of the wall; and
- (ii)where practicable, continuous for their full length; and
- (b)in a Class 9c aged care building must be provided along both sides of every passageway or corridor used by residents, and must be— (i)fixed not less than 50 mm clear of the wall; and
- (ii) where practicable, continuous for their full length.
- (4) Handrails *required* to assist people with a disability must be provided in accordance with D4D4.
- (5) Handrails to a stairway or ramp within a *sole-occupancy unit* in a Class 2 or 3 building or Class 4 part of a building must— (a) be located along at least one side of the *flight* or ramp; and
- (b)be located along the full length of the *flight* or ramp, except in the case where a handrail is associated with a barrier, the handrail may terminate where the barrier terminates; and
- (c)have the top surface of the handrail not less than 865 mm vertically above the nosings of the stair treads or the floor surface of the ramp; and
- (d)have no obstruction on or above them that will tend to break a handhold, except for newel

	posts, ball type stanchions, or the like. (6)The requirements of (5) do not apply to— (a)handrails referred to in D3D23; or (b)a stairway or ramp providing a change in elevation of less than 1 m; or	
	(c)a landing; or a winder where a newel post is installed to provide a handhold.	
D3D26	Operation of latch (1)A door in a 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 is required within the Construction 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 sole-occupancy unit in a Class 3 building (other than an entry door to a sole-occupancy unit 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.	
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	Further Detail is required within the Construction Documentation
	(b)a Class 9b <i>early childhood centre</i> . (2)Where the lowest level of the window opening is less than 1.7 m above the floor, a window opening covered by (1) must comply with the following: (a)The openable portion of the window must be protected with— (i)a device capable of restricting the window opening; or	
	(ii)a screen with secure fittings. (b)A device or screen <i>required</i> by (a) must— (i)not permit a 125 mm sphere to pass through the window opening or screen; and	
	(ii)resist an outward horizontal action of 250 N against the— (A)window restrained by a device; or	
	(B)screen protecting the opening; and (iii)have a child resistant release mechanism if the screen or device is able to be removed, unlocked or overridden.	
	(3)A barrier with a height not less than 865 mm above the floor is <i>required</i> to an openable window— (a)in addition to window protection, when a child resistant release mechanism is <i>required</i> by (2)(b)(iii); and	
	(b)where the floor below the window is 4 m or more above the surface beneath if the window is not covered by (1).	

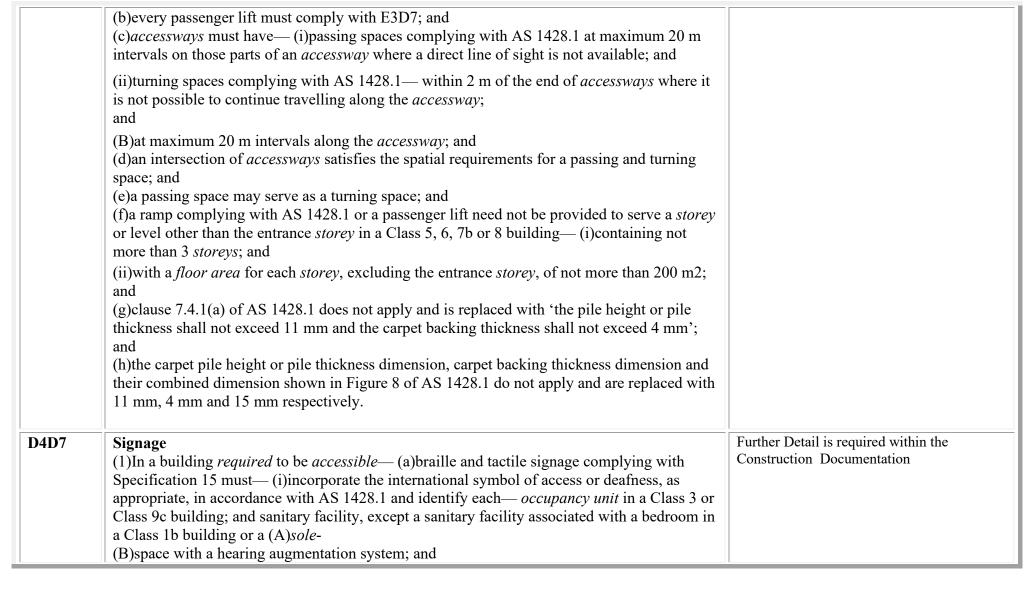
	(4)A barrier covered by (3) except for (5) must not— (a)permit a 125 mm sphere to pass through it; and	
	(b)have any horizontal or near horizontal elements between 150 mm and 760 mm above the floor that facilitate climbing. (5)A barrier <i>required</i> by (3) to an openable window in— (a) <i>fire-isolated stairways</i> , <i>fire-isolated ramps</i> and other areas used primarily for emergency purposes, excluding external stairways and external ramps; and	
	(b)Class 7 (other than <i>carparks</i>) and Class 8 buildings and parts of buildings containing those classes,	
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 is required within the Construction 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, *swimming pool*, 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 *sole-occupancy unit*; 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 <i>accessible</i> to at least 1 floor containing <i>sole-occupancy units</i> and to the entrance doorway of each <i>sole-occupancy unit</i> located on that level.	
	(ii)To and within not less than 1 of each type of room or space for use in common by the residents, including a cooking facility, sauna, gymnasium, <i>swimming pool</i> , common laundry, games room, TV room, individual shop, dining room, public viewing area, ticket purchasing service, lunch room, lounge room, or the like.	
	(iii) Where a ramp complying with AS 1428.1 or a passenger lift is installed—(A)to the entrance doorway of each <i>sole-occupancy unit</i> ; and	
	(B)to and within rooms or spaces for use in common by the residents. (iv)The requirements of (iii) only apply where the space referred to in (A) and (B) are located on the levels served by the lift or ramp. (b)Sole-occupancy units — in accordance with Table D4D2b. (10)For a Class 10 building, access requirements are as follows: (a)For a Class 10a non-habitable building located in an accessible area intended for use by the public and containing a sanitary facility, change room facility or shelter, to and within— an accessible sanitary facility; and (ii)a change room facility; and (iii)a public shelter or the like. (b)For Class 10b swimming pools, to and into swimming pools with a total perimeter greater than 40 m, associated with a Class 1b, 2, 3, 5, 6, 7, 8 or 9 building that is required to be 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	Further Detail is required within the Construction Documentation
	(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 required to be accessible has multiple doorways— (a)if the pedestrian entrance consists of not more than 3 doorways— not less than 1 of those doorways must be accessible; and	
	(b)if a pedestrian entrance consists of more than 3 doorways — not less than 50% of those doorways must be <i>accessible</i> . (4)For the purposes of (3)— (a)an <i>accessible</i> pedestrian entrance with multiple doorways is considered to be one pedestrian entrance where— (i)all doorways serve the same part or parts of the building; and (ii)the distance between each doorway is not more than the width of the widest doorway at that pedestrian entrance (see Figure D4D3); and (b)a doorway is considered to be the clear, unobstructed opening created by the opening of one or more door leaves (see Figure D4D3). (5)Where a doorway on an <i>accessway</i> has multiple leaves, (except an automatic opening door) one of those leaves must have a clear opening width of not less than 850 mm in accordance with AS 1428.1.	
D4D4	Parts of buildings to be accessible 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 (ii) for a stairway, except a fire-isolated stairway, clause 11 of AS 1428.1; and (iii) for a fire-isolated stairway, clause 11.1(f) and (g) of AS 1428.1; and	For reference



(ii) identify each door required by E4D5 to be provided with an exit sign and state— (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 accessible unisex sanitary facilities to identify if the facility is suitable for left or right handed use; and (d) signage to identify an ambulant accessible sanitary facility in accordance with AS 1428.1 must be located on the door of the facility; and (e) where a pedestrian entrance is not accessible, directional signage incorporating the international symbol of access, in accordance with AS 1428.1, must be provided to direct a person to the location of the nearest accessible pedestrian entrance; 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. **Tactile indicators** Further Detail is required within the **D4D9**

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

5.4 SECTION E – SERVICES AND EQUIPMENT

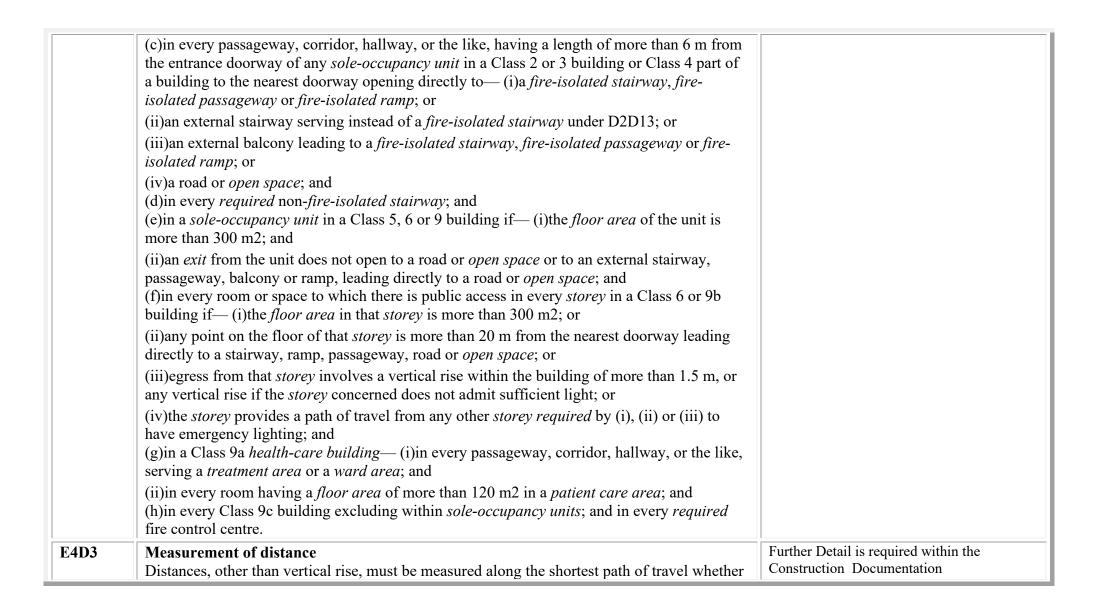
CLAUSE	CLAUSE REQUIREMENT	ACTION/RECOMENDATION
E1D2	Fire hydrants (1)A fire hydrant system must be provided to serve a building— (a)having a total floor area greater than 500 m2; and (b)where a fire brigade station is— (i)no more than 50 km from the building as measured along roads; and (ii)equipped 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 electricity network substation 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 storey on which they are located except that a sole-occupancy unit— (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 sole-occupancy unit; or (b)of not more than 2 storeys in a Class 5, 6, 7, 8 or 9 building may be served by a single fire hydrant located at the level of egress from that sole-occupancy unit provided the fire hydrant can provide coverage to the whole of the sole-occupancy unit.	Further Detail is required within the Construction Documentation
E2D3	General requirements (1)An air-handling system which does not form part of a smoke hazard management system in accordance with E2D4 to E2D20 and which recycles air from one <i>fire compartment</i> to another <i>fire compartment</i> or operates in a manner that may unduly contribute to the spread of smoke from one <i>fire compartment</i> to another <i>fire compartment</i> must, subject to (2), be designed and installed— (a)to operate as a smoke control system in accordance with AS 1668.1; or	Further Detail is required within the Construction Documentation
	(b) such that it— <i>compartments</i> served; and incorporates smoke dampers where the airhandling ducts penetrate any elements separating the (i) <i>fire</i>	

	 (ii)is arranged such that the air-handling system is shut down and the smoke dampers are activated to close <i>automatically</i> by smoke detectors complying with clause 7.5 of AS 1670.1. (2)For the purposes of (1), each <i>sole-occupancy unit</i> in a Class 2 or 3 building is treated as a separate <i>fire compartment</i>. (3)Miscellaneous air-handling systems covered by Sections 5 and 6 of AS 1668.1 serving more than one <i>fire compartment</i> (other than a <i>carpark</i> ventilation system) and not forming part of a smoke hazard management system must comply with these Sections of the Standard. (4)A smoke detection system must be installed in accordance with S20C6 to operate AS 1668.1 systems that are provided for zone pressurisation and <i>automatic</i> air pressurisation for fire-isolated <i>exits</i>. 	
E2D8	Buildings not more than 25 m in effective height: Class 2 and 3 buildings and Class 4 part of a building In a Class 2 and 3 building or part of a building, or Class 4 part of a building, if the building is not more than 25 m in effective height— (a)it must be provided with an automatic smoke detection and alarm system complying with Specification 20; and (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	Further Detail is required within the Construction Documentation
	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 m) to initiate a building occupant warning system for the Class 4 part.	
E3D2	Lift installations An electric passenger lift installation and an electrohydraulic passenger lift installation must comply with Specification 24.	Further Detail is required within the Construction 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 is required within the Construction Documentation
E3D6	Landings Access and egress to and from lift well landings must comply with the <i>Deemed-to-Satisfy Provisions</i> of Parts D2, D3 and D4.	Further Detail is required within the Construction Documentation
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 is required within the Construction 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 <i>small-sized</i> , <i>low-speed automatic lift</i> 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 applicable: (a)A handrail complying with the provisions for a mandatory handrail in AS 1735.12 for all lifts except— (i)a stairway platform lift; and (ii)a low-rise platform lift.	Further Detail is required within the Construction Documentation
	(b)Lift floor dimensions of not less than 1400 mm wide x 1600 mm deep for all lifts which travel more than 12 m. (c)Lift floor dimensions of not less than 1100 mm wide x 1400 mm deep for all lifts which travel not more than 12 m, except a <i>stairway platform lift</i> . (d)Lift floor dimensions of not less than 810 mm wide x 1200 mm deep for a <i>stairway</i>	

	 platform lift. Minimum clear door opening complying with AS 1735.12 for all lifts except a stairway platform lift. (f)Passenger protection system complying with AS 1735.12 for all lifts with power-operated doors. 	
	(g)Lift landing doors at the upper landing for all lifts except a stairway platform lift.	
	(h)Lift car and landing control buttons complying with AS 1735.12 for all lifts except— (i)a stairway platform lift; and	
	 (ii)a low-rise platform lift. (i)Lighting in accordance with AS 1735.12 for all enclosed lift cars. (j)For all lifts serving more than 2 levels— (i)automatic audible information within the lift car to identify the level each time the car stops; and 	
	(ii)audible and visual indication at each lift landing to indicate the arrival of the lift car; and	
	 (iii) audible information and audible indication required by (i) and (ii) is to be provided in a range of between 20 - 80 dB(A) at a maximum frequency of 1500 Hz. (k) Emergency hands-free communication, including a button that alerts a call centre of a problem and a light to signal that the call has been received, for all lifts except a stairway platform lift. 	
E4D2	Emergency lighting requirements An emergency lighting system must be installed— (a)in every fire-isolated stairway, fire-isolated passageway or fire-isolated ramp; and	Further Detail is required within the Construction Documentation
	(b)in every <i>storey</i> of a Class 5, 6, 7, 8 or 9 building where the <i>storey</i> has an area more than 300 m2— (i)in every passageway, corridor, hallway, or the like, that is part of the path of travel to an <i>exit</i> ; and	
	(ii)in any room having a <i>floor area</i> more than 100 m2 that does not open to a corridor or space that has emergency lighting or to a road or <i>open space</i> ; and	
	(iii)in any room having a <i>floor area</i> more than 300 m2; and	



	by straight lines, curves or a combination of both.	
E4D4	Design and operation of emergency lighting Every <i>required</i> emergency lighting system must comply with AS/NZS 2293.1.	Further Detail is required within the Construction 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	Further Detail is required within the Construction Documentation
	(iii)an external access balcony leading to a <i>required exit</i> ; and (b)door from an enclosed stairway, passageway or ramp at every level of discharge to a road or <i>open space</i> ; and (c) <i>horizontal exit</i> ; and (d)door serving as, or forming part of, a <i>required exit</i> in a <i>storey required</i> to be provided with 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 is required within the Construction Documentation
E4D8	Design and operation of exit signs Every required exit sign must— (a)comply with— (i)AS/NZS 2293.1; or	Further Detail is required within the Construction 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 is required within the Construction 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 is required within the Construction 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 is required within the Construction 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 is required within the Construction 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, sanitary compartment, or the like, forming part of a building used for other purposes. An open spectator stand or open-deck carpark. 	
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 is required within the Construction 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 is required within the Construction 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 is required within the Construction Documentation

F3D1	Deemed-to-Satisfy Provisions (1)Where a Deemed-to-Satisfy Solution is proposed, Performance Requirement F3P1 is satisfied by complying with F3D2 to F3D5. (2)Where a Performance Solution is proposed, the relevant Performance Requirements must be determined in accordance with A2G2(3) and A2G4(3) as applicable. A roof must be covered with— (a)roof tiles complying with AS 2049, fixed in accordance with AS 2050; or (b)metal sheet roofing complying with AS 1562.1; or (c)plastic sheet roofing designed and installed in accordance with AS 1562.3; or	Further Detail is required within the Construction Documentation
	(d)terracotta, fibre-cement and timber slates and shingles designed and installed in accordance with AS 4597, except in cyclonic areas; or an external waterproofing <i>membrane</i> complying with F1D5.	
F3D3	Sarking Sarking-type material used for weatherproofing of roofs and walls must comply with AS 4200.1 and AS 4200.2.	Further Detail is required within the Construction 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 is required within the Construction 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 <i>open spectator stand</i> or <i>open-deck carpark</i> . (3)The following glazed assemblies need not comply with (1): (a)All glazed assemblies not in an <i>external wall</i> .	
	(b)Revolving doors.	
	(c)Fixed louvres.	
	(d)Skylights, roof lights and windows in other than the vertical plane.	
	(e)Sliding and swinging glazed doors without a frame.	
	(f)Windows constructed on site and architectural one-off windows, which are not design tested in accordance with AS 2047.	
	(g)Second-hand windows, re-used windows and recycled windows. Heritage windows.	
F3D5	Wall cladding (1)External wall cladding must comply with one or a combination of the following: (a)Masonry, including masonry veneer, unreinforced and reinforced masonry: AS 3700.	Further Detail is required within the Construction 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> .	
F4D8	Construction of sanitary compartments [2019: F2.5] (1)Other than in an early childhood centre, sanitary compartments must have doors and	For Reference

	partitions that separate adjacent compartments and extend— (a) from floor level to the ceiling in the case of a unisex facility; or	
	(b)to a height of not less than 1.5 m above the floor if primary <i>school</i> children are the principal users; or	
	(c)1.8 m above the floor in all other cases. (2)The door to a fully enclosed <i>sanitary compartment</i> must— (a)open outwards; or	
	(b)slide; or	
	(c)be readily removable from the outside of the <i>sanitary compartment</i> , unless there is a clear space of at least 1.2 m, measured in accordance with Figure F4D8, between the closet pan within the <i>sanitary compartment</i> and the doorway. (3)In an <i>early childhood centre</i> , facilities for use by children must have each <i>sanitary compartment</i> screened by a partition which, except for the doorway, is opaque for a height of at least 900 mm but not more than 1200 mm above the floor level.	
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.	Further Detail is required within the Construction Documentation
	(b)A Class 3 building — to all bedrooms and dormitories.	
	(c)Class 9a and 9c buildings — to all rooms used for sleeping purposes.	
	(d)A Class 9b building — to all general purpose classrooms in primary or secondary <i>schools</i> and all playrooms or the like for the use of children in an <i>early childhood centre</i> .	
F6D3	Methods and extent of natural light (1)Required natural light must be provided by— (a)windows, excluding roof lights, that— (i)have an aggregate light transmitting area measured exclusive of framing members, glazing bars or other obstructions of not less than 10% of the floor area of the room; and	Further Detail is required within the Construction Documentation

	(ii)are open to the sky or face a court or other space open to the sky or an open verandah, carport or the like; or (b)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 <i>floor area</i> 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	
	(b)in a <i>patient care area</i> or other room used for sleeping purposes in a Class 9a building — 3 m; and	
	(c)50% of the square root of the exterior height of the wall in which the <i>window</i> is located, measured in metres from its sill. (3)In a Class 9c <i>aged care building</i> , a <i>required window</i> must be transparent and located— (a)in an <i>external wall</i> with the <i>window</i> sill not more than 1 m above the floor level; and (b)where the <i>window</i> faces an adjoining allotment, another building or another wall of the	
	same building, it must not be less than a horizontal distance of 3 m from the adjoining allotment, other building or wall. (4)In a Class 9b <i>early childhood centre</i> , the sills of 50% of <i>windows</i> in children's rooms must be located not more than 500 mm above the floor level.	
F6D4	Natural light borrowed from adjoining room (1) Natural light to a room in a Class 2 building or Class 4 part of a building or in a <i>sole-occupancy unit</i> of a Class 3 building, may come through one or more glazed panels or openings from an adjoining room (including an enclosed verandah) if— (a) both rooms are within the same <i>sole-occupancy unit</i> or the enclosed verandah is on	For Reference

	common property; and	
	(b)the glazed panels or openings have an aggregate light transmitting area of not less than 10% of the <i>floor area</i> of the room to which it provides light; and	
	(c)the adjoining room has—(i)windows, excluding roof lights, that—(A)have an aggregate light transmitting area of not less than 10% of the combined floor areas of both rooms; and	
	(B)are open to the sky or face a court or other space open to the sky or an open verandah, carport or the like; or (ii)roof lights, that—(A)have an aggregate light transmitting area of not less than 3% of the combined floor areas of both rooms; and	
	(B) are open to the sky; or (iii) a proportional combination of <i>windows</i> and <i>roof lights required</i> by (i) and (ii). (2) The areas specified in (1)(b) and (c) may be reduced as appropriate if direct natural light is provided from another source.	
F6D5	Artificial lighting (1)Artificial lighting must be provided— (a)in <i>required</i> stairways, passageways, and ramps; and	Further Detail is required within the Construction Documentation
	(b)if natural light of a standard equivalent to that <i>required</i> by F6D3 is not available, and the periods of occupation or use of the room or space will create undue hazard to occupants seeking egress in an emergency, in— (i)a Class 4 part of a building — to <i>sanitary compartments</i> , bathrooms, shower rooms, airlocks and laundries; and	
	(ii)a Class 2 building — to <i>sanitary compartments</i> , bathrooms, shower rooms, airlocks, laundries, common stairways and other spaces used in common by the occupants of the building; and	
	(iii)Class 3, 5, 6, 7, 8 and 9 buildings — to all rooms that are frequently occupied, all spaces <i>required</i> to be <i>accessible</i> , all corridors, lobbies, internal stairways, other circulation spaces and paths of egress.	

	(2)The artificial lighting system must comply with AS/NZS 1680.0. (3)The system may provide a lesser level of illumination to the following spaces during times when the level of lighting would be inappropriate for the use: (a)A theatre, cinema or the like, when performances are in progress, with the exception of aisle lighting <i>required</i> by Part I1. (b)A museum, gallery or the like, where sensitive displays require low lighting levels. (c)A discotheque, nightclub or the like, where to create an ambience and character for the space, low lighting levels are used.	
NSW F6D6	Ventilation of rooms A habitable room, office, shop, factory, workroom, sanitary compartment, bathroom, shower room, laundry and any other room occupied by a person for any purpose must have— (a)natural ventilation complying with F6D7; or a mechanical ventilation or air-conditioning system complying with AS 1668.2.	Further Detail is required within the Construction 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 is required within the Construction 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>. 	
F6D8	Ventilation borrowed from adjoining room Natural ventilation to a room may come through a <i>window</i> , opening, door or other device from an adjoining room (including an enclosed verandah) if both rooms are within the same <i>sole-occupancy unit</i> or the enclosed verandah is common property, and— (a)in a Class 2 building, a <i>sole-occupancy unit</i> of a Class 3 building or Class 4 part of a building— (i)the room to be ventilated is not a <i>sanitary compartment</i> ; and	For Reference

	(ii)the <i>window</i> , opening, door or other device has a ventilating area of not less than 5% of the <i>floor area</i> of the room to be ventilated; and (iii)the adjoining room has a <i>window</i> , opening, door or other device with a ventilating area of not less than 5% of the combined <i>floor areas</i> of both rooms; and (b)in a Class 5, 6, 7, 8 (except a Class 8 <i>electricity network substation</i>) or 9 building— (i)the <i>window</i> , opening, door or other device has a ventilating area of not less than 10% of the <i>floor</i>	
	area of the room to be ventilated, measured not more than 3.6 m above the floor; and (ii)the adjoining room has a window, opening, door or other device with a ventilating area of not less than 10% of the combined floor areas of both rooms; and (c)the ventilating areas specified in (a) and (b) may be reduced as appropriate if direct natural ventilation is provided from another source.	
F6D9	Restriction on location of sanitary compartments A sanitary compartment must not open directly into— (a)a kitchen or pantry; or	For Reference
	(b)a public dining room or restaurant; or(c)a dormitory in a Class 3 building; or(d)a room used for public assembly (which is not an <i>early childhood centre</i>, primary <i>school</i> or <i>open spectator stand</i>); or	
F6D10	(e)a workplace normally occupied by more than one person. Airlocks If a sanitary compartment is prohibited under F6D9 from opening directly to another room— (a)in a sole-occupancy unit in a Class 2 or 3 building or Class 4 part of a building— (i)access must be by an airlock, hallway or other room; or	For Reference
	(ii)the <i>sanitary compartment</i> must be provided with mechanical exhaust ventilation; and <i>stand</i>)— in a Class 5, 6, 7, 8 or 9 building (which is not an <i>early childhood centre</i> , primary <i>school</i> or (b) <i>open spectator</i> (i)access must be by an airlock, hallway or other room with a <i>floor area</i> of not less than 1.1 m2 and fitted with <i>self-closing</i> doors at all access doorways; or	

	(ii)the <i>sanitary compartment</i> must be provided with mechanical exhaust ventilation and the doorway to the room adequately screened from view.	
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 is required within the Construction Documentation
F7D4	Determination of impact sound insulation ratings (1)A floor in a building required to have an impact sound insulation rating must— (a)have the required value for weighted normalised impact sound pressure level (Ln,w) determined in accordance with AS ISO 717.2 using results from laboratory measurements; or (b)comply with Specification 28. (2)A wall in a building required 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.	Further Detail is required within the Construction Documentation
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 (b)a sole-occupancy unit from a plant room, lift shaft, stairway, public corridor, public lobby or the like, or parts of a different classification. (2)A floor in a Class 9c building separating sole-occupancy units must have an Rw not less than 45.	Further Detail is required within the Construction Documentation

F7D6	Sound insulation rating of walls	Further Detail is required within the
	(1)A wall in a Class 2 or 3 building must— (a)have an Rw + Ctr (airborne) not less than 50, if	Construction Documentation
	it separates sole-occupancy units; 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, sanitary compartment, 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	
	(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 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)soleoccupancy units; or	
	(b) a <i>sole-occupancy unit</i> from a kitchen, bathroom, <i>sanitary compartment</i> (not being an associated ensuite), laundry, plant room or utilities room.	
	(4)In addition to (3), a wall separating a <i>sole-occupancy unit</i> in a Class 9c building from a kitchen or laundry must comply with F7D4(2).	
	(5) Where a wall <i>required</i> to have sound insulation has a floor above, the wall must continue to— (a) the underside of the floor above; or	
	(b)a ceiling that provides the sound insulation <i>required</i> for the wall. (6)Where a wall <i>required</i> to have sound insulation has a roof above, the wall must continue to— (a)the underside of the roof above; or a ceiling that provides the sound insulation <i>required</i> for the wall.	
F7D7	Sound insulation rating of internal services	Further Detail is required within the
	(1) If a duct, soil, waste or water supply pipe, including a duct or pipe that is located in a wall	Construction Documentation
	or floor cavity, serves or passes through more than one <i>sole-occupancy unit</i> , the duct or pipe must be separated from the rooms of any <i>sole-occupancy unit</i> by construction with an Rw +	

	Ctr (airborne) not less than— (a)40 if the adjacent room is a <i>habitable room</i> (other than a kitchen); or	
	(b)25 if the adjacent room is a kitchen or non-habitable room.(2)If a stormwater pipe passes through a sole-occupancy unit, it must be separated in accordance with (1)(a) and (b).	
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 is required within the Construction Documentation

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 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 [2019: J3.1] 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.	Further Detail will be required within the Crown Certificate documentation
NSW J5D2	Application of Part [2019: J3.1] 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	Further Detail will be required within the Crown Certificate documentation

	means of air-conditioning is by using an evaporative cooler; or (b)a permanent building opening, in a space where a gas appliance is located, that is necessary for the safe operation of a gas appliance; or (c)in a Class 3 or Class 5 to 9 building, a building or space where the mechanical ventilation required by Part F6 provides sufficient pressurisation to prevent infiltration; or parts of buildings that cannot be fully enclosed.	
J5D6	Exhaust fans [2019: J3.5] An exhaust fan must be fitted with a sealing device such as a self-closing damper or the like when serving— (a)a conditioned space; or a habitable room in climate zones 4, 5, 6, 7 or 8.	Further Detail will be required within the Crown Certificate documentation
J5D7	Construction of ceilings, walls and floors [2019: J3.6] (1)Ceilings, walls, floors and any opening such as a window frame, door frame, roof 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.	Further Detail will be required within the Crown Certificate documentation

Author

Kieran Tobin,

Registered Building Surveyor - Fair Trading no 0409

Grad Dip Building Surveying UWS



Date: 24 July 2024 Our Ref: P240009 (4)

NSW Land and Housing Corporation Locked Bag 7028 Liverpool BC NSW 1871 Att: Ms Neelam Kaushal

Dear Neelam,

RE: Dwelling 6, 7 to 9 Wattle Ave, Orange BCA COMPLIANCE ASSESSMENT

Please find enclosed our BCA Compliance Report prepared in respect of the proposed attached dwellings within the above listed property.

In reviewing the content of this Report, particular attention is drawn to the content of Part 3 as Part 3 details 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.

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

Dwelling 6, 7 to 9 Wattle Ave, Orange 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
P24009	1	BCA COMPLIANCE ASSESSMENT	12 February 2024
P24009	2	Revision	10 May 2024
P24009	3	Revision	8 July 2024
P24009	4	BCA COMPLIANCE ASSESSMENT	24 July 2024

The format, technical content and intellectual property associated with this report remain the property of BCA Vision Pty Limited, and has been prepared and may only be used, for the development / buildings the subject of this report.

CONTENTS PAGE

1.0	INTRODUCTION	. 5
1.1	GENERAL	5
1.2	REPORT BASIS	5
1.2	EXCLUSIONS	5
1.3	REPORT PURPOSE	5
2.0	BUILDING DESCRIPTION	.6
2.1	GENERAL	6
2.2	RISE IN STOREYS (CLAUSE C1.2)	6
2.3	BUILDING CLASSIFICATION (CLAUSE A3.2)	6
2.4	BUSHFIRE PRONE LAND	6
3.0	COMPLIANCE PATHWAY	.7
3.3. C	COMPLIANCE PATHWAYS WITHIN THE BCA	7
2.3	Additional Pre Construction Documentation	7
3.1 P	ART H1 - STRUCTURE	9
3.2 P	ART H2 – DAMP AND WEATHERPROOFING	9
3.3 P	ART H3 – Fire Safety	9
3.4 P	ART H4 – HEALTH AND AMENITY	10
3.5 P	ART H5 – SAFE MOVEMENT AND ACCESS	10
3.6 P	ART H6 – ENERGY EFFICIENCY	10
3.7 P	ART H7 – Ancillary Provisions	10
4.0	BCA ASSESSMENT – STATEMENT	11
4.1	SUMMARY	11
3.1	PART H1 - STRUCTURE	11
3.1	PART H2 – DAMP AND WEATHERPROOFING	20

3.1	PART H3 – FIRE SAFETY	3
3.1	PART H4 – HEALTH AND AMENITY25	5

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 Dwelling 6, 7 to 9 Wattle Ave, Orange.

The project proposal is for 9 class 2 residential units and Dwelling 6 is proposed as a single storey class 1a dwelling.

This report is required in regard to Dwelling 6 to determine the compliance requirements in regard to volume 2 of the BCA (2022)

1.2 REPORT BASIS

The content of this report reflects –

- (a) The principles and provisions of BCA 2022, Volume 2;
- (b) Architectural documentation provided by SARM Architects

Plan Reference	Plan Description	Dated
A0000	Cover page	23/07/24
A201	Site Plan	23/07/24
A202	Ground Floor Plan	23/07/24
A203	First Floor Plan	23/07/24
A204	Roof Plan	23/07/24
A301	Elevation	23/07/24
A302	Elevation	23/07/24
A303	Elevation	23/07/24
A304	Section	23/07/24
A305	Section	23/07/24

1.2 EXCLUSIONS

It is conveyed that this report should not construed to infer that an assessment for compliance with the following has been undertaken –

- (a) Structural and services design documentation;
- (b) General building services (i.e. passenger lifts);
- (c) The individual requirements of service providers (i.e. Telstra, Water Supply, Energy Australia);
- (d) The individual requirements of the Workcover Authority;

1.3 REPORT PURPOSE

The purpose of this report is to identify the extent to which the architectural design documentation complies with the relevant prescriptive provisions of the BCA 2022. The status of the design is summarised within Part 3 of this report.

2.0 BUILDING DESCRIPTION

2.1 GENERAL

In the context of the Building Code of Australia (BCA) 2022, the subject development is described within items 2.2 - 2.6 below.

2.2 RISE IN STOREYS (CLAUSE C1.2)

The Dwellings are proposed to have a rise in storeys of one (1)

2.3 BUILDING CLASSIFICATION (CLAUSE A3.2)

The buildings incorporate the following classifications: -

Class 1A	1 residential Dwellings

2.4 BUSHFIRE PRONE LAND

An RFS Search indicates that the property is NOT considered to be Bushfire Prone Land.

3.0 COMPLIANCE PATHWAY

3.3. COMPLIANCE PATHWAYS WITHIN THE BCA

Compliance with the NCC is achieved by complying with—

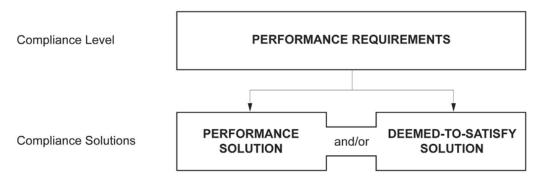
- (1) the Governing Requirements of the NCC; and
- (2) the *Performance Requirements*.

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



2.3 ADDITIONAL PRE CONSTRUCTION DOCUMENTATION

The following table provides a list of additional items which may be required by the PCA:-

C	I Para Sarana d
Seq	Requirement
1.	Architectural Requirements
	Provide
	 A Window Schedule is required to determine compliance with the Light and Ventilation requirements of BCA Part F6 not correspond
	 Provide wall sections and methods for the fire separating walls
	Generally the wall is capable of complying however greater detail is required to show-
	 The wall extending to the underside of the roof covering without penetrations
	 A Non combustible material to the roof ridge
	 The Treatment at each end of the separating wall here there is a
	junction and cavity with the external wall – a non combustible material is required
	- Identify the method of Acoustic Separation
	- Condensation and water vapour management methods
	- Provide balustrade sections
	- Identify the Slip resistance achieved by the flooring systems (other than
	carpets), R10 required inside R11 required outside (provide test

	certificates)
2.	Copy of Final Structural Engineers Design Compliance Certificate and Services
	Plans
	Structural Engineers Design Compliance Certificate
	Confirm compliance with:-
	AS 3600 Concrete Structures
	AS 3700 Masonry Structures
	AS 1684 Timber Framed Construction
3.	Copy of Final Mechanical Services Engineers Design Compliance Certificate
	confirming compliance with AS 1668 and Services Plans
4.	Copy of Final Civil Stormwater Services Engineers Design Compliance
	Certificate and Services Plans
	Confirm compliance with Councils DCP and AS 3500
5.	Copy of Final Electrical Services Engineers Design Compliance Certificate
	Confirm compliance with
	AS 3786-2014
	AS/NZS 1680
6.	Identify the proposed AS 3660 Termite Protection Method

ASSESSMENT – SUMMARY

3.1 PART H1 - STRUCTURE

Clause	Requirement	Complies	Detail Req'd	Not Applicable
H1D1	Deemed to Satisfy Provisions		✓	
H1D2	Structural Provisions		✓	
H1D3	Site Preparation		✓	
H1D4	Footings and Slabs		✓	
H1D5	Masonry		✓	
H1D6	Framing		✓	
H1D7	Roof and Wall Cladding		✓	
H1D8	Glazing		✓	
H1D9	Earthquake Areas			✓
H1D10	Flood Areas		✓	
H1D11	Attachment of framed decks and balconies to external walls of buildings using a waling plate			√
H1D12	Piled Footings			✓

3.2 PART H2 – DAMP AND WEATHERPROOFING

Clause	Requirement	Complies	Detail Req'd	Not Applicable
H2D1	Deemed to Satisfy Provisions		✓	
H2D2	Drainage		✓	
H2D3	Footings and slabs		✓	
H2D4	Masonry		✓	
H2D5	Subfloor Ventilation			✓
H2D6	Roof and Wall Cladding		✓	
H2D7	Glazing		✓	
H2D8	External Waterproofing		✓	

3.3 PART H3 – FIRE SAFETY

Clause	Requirement	Complies	Detail Req'd	Not Applicable
H3D1	Deemed to Satisfy Provisions		✓	
H3D2	Fire Hazard Properties and Non Combustible Building elements		✓	
H3D3	Fire Separation of External Walls		✓	
H3D4	Fire Protection of Separating Walls and Floors		✓	
H3D5	Fire Separation of garage top dwellings			✓
H3D6	Smoke Alarms and Evacuation Lighting		✓	

3.4 PART H4 – HEALTH AND AMENITY

Clause	Requirement	Complies	Detail Req'd	Not Applicable
H4D1	Deemed to Satisfy Provisions		✓	
H4D2	Wet Areas		✓	
H4D3	Materials and Installation of Wet Area Components and Systems		✓	
H4D4	Room Heights		✓	
H4D5	Facilities	✓		
H4D6	Light		✓	
H4D7	Ventilation		✓	
H4D8	Sound Insulations		✓	
H4D9	Condensation Management		✓	

3.5 PART H5 – SAFE MOVEMENT AND ACCESS

Clause	Requirement	Complies	Detail Req'd	Not Applicable
H5D1	Deemed to Satisfy Provisions			✓
H5D2	Stairway and Ramp Construction			✓
H5D3	Barriers and Handrails			✓

3.6 PART H6 – ENERGY EFFICIENCY

Clause	Requirement	Complies	Capable of Complying	Not Applicable
H6D1	Deemed to Satisfy Provisions		✓	
H6D2	Application of Part D6		✓	

3.7 PART H7 – ANCILLARY PROVISIONS

Clause	Requirement	Complies	Detail Req'd	Not Applicable
H7D1	Deemed to Satisfy Provisions			✓
H7D2	Swimming Pools			✓
H7D3	Construction In Alpine Areas			✓
H7D4	Construction in Bushfire Prone Areas			✓
H7D5	Heating Appliances			✓

4.0 BCA ASSESSMENT – STATEMENT

4.1 SUMMARY

We have reviewed the referenced plans and Certificates and in our opinion the subject unauthorised works comply with the Building Code of Australia 2022 Volume 2.

3.1 PART H1 - STRUCTURE

CLAUSE	CLAUSE REQUIREMENT	ACTION/RECOMENDATION
H1D1	Deemed-to-Satisfy Provisions (1)Where a Deemed-to-Satisfy Solution is proposed, Performance Requirements H1P1 and H1P2 are satisfied by complying with H1D2 to H1D11. (2)Where a Performance Solution is proposed, the relevant Performance Requirements must be determined in accordance with A2G2(3) and A2G4(3) as applicable.	For Reference
H1D2	Structural provisions A Class 1 or Class 10 building must be constructed in accordance with— (a)Section 2 of the ABCB Housing Provisions; or (b)the relevant provisions of H1D3 to H1D12; or any combination thereof.	Structural Engineers Advice is required. Provide Structural Engineers Details & Structural Design Certificate prior to Crown compliance Certificate A Compliance Certificate will be required on completion of works on site
H1D3	Site preparation (1)Performance Requirement H1P1 is satisfied for earthworks associated with the construction of a building or structure if they are in accordance with Part 3.2 of the ABCB Housing Provisions, provided that the site is classified as A, S, M, H or E in accordance with 4.2.2 of the ABCB Housing Provisions and the work is undertaken in normal site conditions. (2)Performance Requirement H1P1 is satisfied for an earth retaining structure associated with the construction of a building or structure if it is designed and	Provide construction method in Project plans prior to Crown compliance Certificate

	constructed in accordance with AS 4678. QLD H1D3(3) (3)Compliance with Part 3.4 of the ABCB Housing Provisions satisfies Performance Requirement H1P1 for termite risk management.	
H1D4	Footings and slabs (1)Performance Requirement H1P1 is satisfied for footings and slabs if they are installed in accordance with either (a) or (b): (a)One of the following: (i)AS 2870 except that for the purposes of Clause 5.3.3.1 of AS 2870 a damp-proofing membrane is required to be provided. (ii)AS 3600 except that barriers installed beneath slab on ground construction must have a high resistance to damage during construction. Subject to (2), Section 4 of the ABCB Housing Provisions. (2)Section 4 of the ABCB Housing Provisions may only be used where—(a)the footing is on a Class A, S or M site (classified in accordance with AS 2870) with a uniform bearing capacity; and (b)any slab—(i)is not more than 18 m long or wide; and (ii)does not contain permanent joints excluding construction joints; and (iii)is of a geometric shape containing only external right angles, other than a slab in (c); and (c)any footing and slab in (b) has not more than one re-entrant corner; and (d)the footing and slab are not constructed on soil classified as an aggressive soil type; and (e)the structure supported by the footing does not contain—(i)more than two trafficable floors; or (ii) a wall height exceeding 8 m, excluding any gable; and (f)the footing does not support more than one concrete slab; and (g)the building does not include wing walls or masonry arches unless they are detailed for movement in accordance with Cement Concrete and Aggregates Australia TN 61; and (h)single leaf earth or stone masonry walls do not exceed 3 m in height; and (i)the site is considered to be normal as defined in Part 3.2 of the ABCB Housing Provisions; and (j)the site is not located in an alpine area; and the building is one for which Appendix A of AS 1170.4 contains no specific earthquake design requirements.	Structural Engineers Advice is required. Provide Structural Engineers Details & Structural Design Certificate prior to Crown compliance Certificate A Compliance Certificate will be required on completion of works on site

H1D5

Masonry

- (1)Performance Requirement H1P1 is satisfied for masonry veneer if it is designed and constructed in accordance with—(a)AS 3700; or AS 4773.1 and AS 4773.2; or (c)Part 5.2 of the ABCB Housing Provisions provided—
- (i) the building is located in an area with a wind class of not more than N3; and (ii)masonry veneer walls—(A)are constructed on footings and/or slabs that comply with H1D4; and
- (B)comply with Part 5.6 using components that comply with Part 5.7 of the ABCB Housing Provisions; and
- (iii)the building site soil classification is A, S or M in accordance with AS 2870; and
- (iv)the framing that the masonry wall is tied to complies with H1D6; and (v)the building is not constructed in an alpine area; and
- (vi)the building is one for which Appendix A of AS 1170.4 contains no specific earthquake design requirements.
- (2)Performance Requirement H1P1 is satisfied for cavity brick unreinforced masonry if it is designed and constructed in accordance with: (a)AS 3700; or (b)AS 4773.1 and AS 4773.2; or
- (c)Part 5.3 of the ABCB Housing Provisions provided— (i)the building is located in an area with a design wind speed of not more than N3; and
- (ii)cavity masonry walls— (A)are constructed on footings and/or slabs that comply with H1D4; and
- (B)comply with Part 5.6 using components that comply with Part 5.7 of the ABCB Housing Provisions; and
- (iii)the building site soil classification is A, S or M in accordance with AS 2870; and
- (iv)the building is not constructed in an alpine area; and
- (v)the building is one for which Appendix A of AS 1170.4 contains no specific earthquake design requirements.
- (3)Performance Requirement H1P1 is satisfied for single leaf unreinforced masonry if it is designed and constructed in accordance with: (a)AS 3700; or (b)AS 4773.1 and AS 4773.2; or
- (c)Part 5.4 of the ABCB Housing Provisions provided— (i)the building is located in an area with a design wind speed of not more than N3; and

Structural Engineers Advice is required.

Provide Structural Engineers Details & Structural Design Certificate prior to Crown compliance Certificate A Compliance Certificate will be required on completion of works on site

- (ii)single leaf unreinforced masonry walls—(A)are constructed on footings and/or slabs that comply with H1D4; and
- (B)comply with Part 5.6 using components that comply with Part 5.7 of the ABCB Housing Provisions; and
- (iii)the building site soil classification is A, S or M in accordance with AS 2870; and
- (iv)the building is not constructed in an alpine area; and
- (v)the building is one for which Appendix A of AS 1170.4 contains no specific earthquake design requirements.
- (4)Performance Requirement H1P1 is satisfied for reinforced masonry if it is designed and constructed in accordance with: (a)AS 3700, except—(i)'(for piers—isolated or engaged)' is removed from clause 8.5.1(d); and
- (ii)where clause 8.5.1 requires design as for unreinforced masonry in accordance with Section 7, the member must also be designed as unreinforced masonry in accordance with Table 10.3 and 4.1(a)(i)(C) of AS 3700; or (b)AS 4773.1 and AS 4773.2.
- (5)Performance Requirement H1P1 is satisfied for an isolated masonry pier system if it is designed and constructed in accordance with one of the following, as appropriate:
- (a)AS 3700, except—(i)'(for piers—isolated or engaged)' is removed from clause 8.5.1(d); and
- (ii)where clause 8.5.1 requires design as for unreinforced masonry in accordance with Section 7, the member must also be designed as unreinforced masonry in accordance with Table 10.3 and 4.1(a)(i)(C) of AS 3700.
- (b)AS 4773.1 and AS 4773.2.
- (c)Part 5.5 of the ABCB Housing Provisions provided— (i)the building is located in an area with a wind class of not more than N3; and
- (ii)isolated piers are constructed on footings and/or slabs that comply with H1D4; and
- (iii)masonry units comply with 5.6.2(4) of the ABCB Housing Provisions and have a minimum compressive strength of— (A)6.2 MPa for solid or cored units; or (B)15 MPa for hollow units; and
- (iv)the roof structure and any walls provide the required lateral bracing for the top of the isolated pier when determined in accordance with AS 3700, except—

	(A)'(for piers—isolated or engaged)' is removed from clause 8.5.1(d); and (B)where clause 8.5.1 requires design as for unreinforced masonry in accordance with Section 7, the member must also be designed as unreinforced masonry in accordance with Table 10.3 and 4.1(a)(i)(C) of AS 3700; and (v)the building site soil classification is A, S or M in accordance with AS 2870; and (vi)the building is not constructed in an alpine area; and (vii)the building is one for which Appendix A of AS 1170.4 contains no specific earthquake design requirements. (6)Performance Requirement H1P1 is satisfied for masonry accessories if they are constructed and installed in accordance with: (a)AS 3700; or (b)AS 4773.1 and AS 4773.2. (c)Part 5.6 of the ABCB Housing Provisions provided— (i)the building is located in an area with a wind class of not more than N3; and (ii)the building is not constructed in an alpine area; and the building is one for which Appendix A of AS 1170.4 contains no specific earthquake design requirements	
H1D6	Framing (1)Diagrams depicting framing members and associated terminology used to describe them are set out in Figures H1D6c, H1D6d and H1D6e, and in most cases are applicable for both steel and timber frame members. (2)Terminology and spacing for structural steel members are set out in Tables H1D6a and H1D6b, and Figures H1D6a, H1D6b and H1D6f. (3)Performance Requirement H1P1 is satisfied for steel framing if it is designed and constructed in accordance with one of the following: (a)Residential and low-rise steel framing: (i)Design: NASH Standard 'Residential and Low-Rise Steel Framing' Part 1. (ii)Design solutions: NASH Standard 'Residential and Low-Rise Steel Framing' Part 2. (b)Steel structures: AS 4100. (c)Cold-formed steel structures: AS/NZS 4600. (4)Performance Requirement H1P1 is satisfied for timber framing if it is designed and constructed in accordance with the following, as appropriate: (a)Design of timber structures: AS 1720.1.	Structural Engineers Advice is required. Provide Structural Engineers Details & Structural Design Certificate prior to Crown compliance Certificate A Compliance Certificate will be required on completion of works on site

- (b)Design of nailplated timber roof trusses: AS 1720.5.
- (c)Residential timber-framed construction non-cyclonic areas: AS 1684.2 or AS 1684.4.
- (d)Residential timber-framed construction cyclonic areas: AS 1684.3.
- (e)Installation of particleboard flooring: AS 1860.2.
- (5)Performance Requirement H1P1 is satisfied for structural steel sections if they are designed and constructed in accordance with one of the following: (a)Steel structures: AS 4100.
- (b)Cold-formed steel structures: AS/NZS 4600.
- (c)For structural stability, strength and deflection, and subject to (6), Part 6.3 of the ABCB Housing Provisions.
- (d)For corrosion protection, clause 6.3.4 of Part 6.3 of the ABCB Housing Provisions.
- (6)For the purposes of (5)(c), Part 6.3 of the ABCB Housing Provisions may only be used where— (a)the building is located in an area with a wind class of not more than N3; and
- (b)the first dimension of steel sections is installed vertically; and
- (c) all loads are evenly distributed (unless otherwise noted or allowed for); and
- (d)the building is one for which Appendix A of AS 1170.4 contains no specific earthquake design requirements; and
- (e)the structural steel members are not subject to snow loads; and
- (f)the structural steel members are in buildings within geometric limits set out in clause 1.2 of AS 4055.
- (7)The use of structural software is subject to the following: (a)Structural software used in computer aided design of a building or structure, that uses design criteria based on the Deemed-to-Satisfy Provisions of Section H, including its referenced documents, for the design of steel or timber trussed roof and floor systems and framed building systems, must comply with the ABCB Protocol for Structural Software.
- (b)Structural software referred to in (a) can only be used for buildings within the following geometric limits: (i)The distance from ground level to the underside of eaves must not exceed 6 m.
- (ii)The distance from ground level to the highest point of the roof, neglecting

chimneys, must not exceed 8.5 m. (iii) The building width including roofed verandahs, excluding eaves, must not exceed 16 m. (iv)The building length must not exceed five times the building width. (v)The roof pitch must not exceed 35 degrees. (c) The requirements of (a) do not apply to design software for individual frame members such as electronic tables similar to those provided in—(i)AS 1684; or NASH Standard – Residential and Low-Rise Steel Framing, Part 2. Roof and wall cladding H1D7 Provide construction method in Project plans prior to (1)Diagrams depicting relevant roofing and supporting members and associated Crown compliance Certificate. terminology used to describe them are set out in Figure H1D7a and Figure H1D7b. (2)Performance Requirement H1P1 is satisfied for sheet roofing if it complies with one or a combination of the following: (a)Metal roofing: (i)AS 1562.1; and (ii)in wind regions C and D in accordance with Figure 2.2.3 in Section 2 of the ABCB Housing Provisions (cyclonic areas), metal roof assemblies, their connections and immediate supporting members must be capable of remaining in position notwithstanding any permanent distortion, fracture or damage that might occur in the sheet or fastenings under the pressure sequences A to G defined in Table H1D7. (b)Plastic sheet roofing: AS 1562.3. (c)Metal sheet roofing: Part 7.2 of the ABCB Housing Provisions, provided the building is located in an area with a wind class of not more than N3. (3)Performance Requirement H1P1 is satisfied for roof cladding if it complies with one or a combination of the following: (a)Terracotta, fibre-cement and timber slates and shingles: AS 4597. (b)For roof tiles—(i)AS 2050; or (ii)Part 7.3 of the ABCB Housing Provisions, provided—(A)the building is located in an area with a wind class of not more than N3; and (B) the roof tiles comply with AS 2049; and (C)the roof has a pitch of not less than 15 degrees and not more than 35 degrees. (4)Performance Requirement H1P1 is satisfied for timber and composite wall cladding if it is designed and constructed in accordance with— (a) for autoclaved aerated concrete wall cladding, AS 5146.1; or

	(b) for wall cladding, Part 7.5 of the ABCB Housing Provisions. (5) Performance Requirement H1P1 is satisfied for a metal wall cladding if it is designed and constructed in accordance with AS 1562.1.	
H1D8	Glazing (1)Performance Requirement H1P1 is satisfied for glazing and windows if they are— (a)designed and constructed in accordance with AS 2047 for glazed assemblies in an external wall including— (i)windows, other than those listed in (2); and (ii)sliding and swinging glazed doors with a frame, including French and bi-fold doors with a frame; and (iii)adjustable louvres; and (iv)window walls with one-piece framing; and (b)installed such that they comply with— (i)AS 2047; and Part 8.2 of the ABCB Housing Provisions, provided that they are— (A) in buildings that are within the geometric limits set out in clause 1.2 of AS 4055; and (B)located in an area with a wind class of not more than N3. (2)Performance Requirement H1P1 is satisfied for glazing in glazed assemblies if it— (a)complies with Part 8.3 of the ABCB Housing Provisions; or (b)is designed and constructed in accordance with AS 1288 for all glazed assemblies not covered by (1) and the following glazed assemblies: (i)All glazed assemblies not in an external wall. (ii)Revolving doors. (iii)Fixed louvres. (iv)Skylights, roof lights and windows other than in the vertical plane. (v)Sliding and swinging doors without a frame. (vi)Windows constructed on-site and architectural one-off windows, which are not design tested in accordance with AS 2047. (vii)Second-hand windows, re-used windows and recycled windows. (viii)Heritage windows. (ix)Glazing used in balustrades and overhead glazing. (3)Performance Requirement H1P1(4) is satisfied for glazed assemblies at risk of	Provide construction method in Project plans prior to Crown compliance Certificate.

	human impact if they— (a)are designed, constructed and installed in accordance with— (i)for glass, AS 1288; and (ii)for windows, AS 2047; or (b)comply with Part 8.4 of the ABCB Housing Provisions.	
H1D10	Flood hazard areas Performance Requirement H1P2 for a Class 1 building constructed in a flood hazard area is satisfied if the building is constructed in accordance with the ABCB Standard for Construction of Buildings in Flood Hazard Areas.	For reference

3.1 PART H2 – DAMP AND WEATHERPROOFING

CLAUSE	CLAUSE REQUIREMENT	ACTION/RECOMENDATION
H2D1	Rainwater management (1)Surface water, resulting from a storm having an annual exceedance probability of 5% and which is collected or concentrated by a building or sitework, must be disposed of in a way that avoids the likelihood of damage or nuisance to any other property. (2)Surface water, resulting from a storm having an annual exceedance probability of 1% must not enter the building. (3)A drainage system for the disposal of surface water resulting from a storm having an annual exceedance probability of— (a)5% must— (i)convey surface water to an appropriate outfall; and (ii)avoid surface water damaging the building; and 1% must avoid the entry of surface water into a building. Weatherproofing A roof and external wall (including openings around windows and doors) must prevent the penetration of water that could cause— (a) unhealthy or dangerous conditions, or loss of amenity for occupants; and undue dampness or deterioration of building elements. Rising damp Moisture from the ground must be prevented from causing— (a)unhealthy or dangerous conditions, or loss of amenity for occupants; and undue dampness or deterioration of building elements. Drainage from swimming pools A swimming pool must have adequate means of draining the pool in a manner which will not— (a)cause illness to people; or affect other property.	Hydraulic Engineers Details will be required prior to the Crown Certificate
H2D2	Drainage Performance Requirement H2P1 is satisfied for drainage if it is designed and constructed in accordance with — (a)AS/NZS 3500.3; or (b)provided the stormwater drainage system otherwise complies with (a), Part 3.3	Hydraulic Engineers Details will be required prior to the Crown Certificate

	of the ABCB Housing Provisions for drainage of— (i)roofs in areas subject to 5 minute duration rainfall intensities of not more than 255 mm per hour over an annual exceedance probability of 5% (as per Table 7.4.3d to Table 7.4.3k of the ABCB Housing Provisions) where a drainage system is required; and (ii) sub-soil areas where excessive soil moisture problems may occur; and A(iii)land adjoining and under buildings.	
H2D3	Footings and slabs	Provide construction method in Project plans prior to
	Performance Requirement H2P3 is satisfied for footings and slabs if they are installed in accordance with H1D4(1)(a) or (b).	Crown compliance Certificate.
H2D4	Masonry (1)H2D4(2)— (a)applies to every external wall (including the junction between the wall and any window or door) of a Class 1 building; and (b)does not apply to any Class 10 building except where its construction contributes to the weatherproofing of the Class 1 building. (2)Performance Requirements H2P2 and H2P3 are satisfied for weatherproofing of masonry if it is carried out in accordance with the appropriate provisions of one of the following: (a)AS 3700. (b)AS 4773.1 and AS 4773.2. (c)Part 5.7 of the ABCB Housing Provisions provided masonry walls are constructed in accordance with H1D5 and the requirements of Part 5.7.	Provide construction method in Project plans prior to Crown compliance Certificate.
H2D6	Roof and wall cladding (1)Performance Requirement H2P1 is satisfied for gutters and downpipes if they are designed and constructed in accordance with one of the following: (a)Subject to (2), AS/NZS 3500.3. (b)Subject to (2) and (3), Part 7.4 of the ABCB Housing Provisions. (2)The requirements of (1) do not apply to the removal of surface water from a storm having an annual exceedance probability of 1% for a Class 10 building where in the particular case there is no necessity for compliance. VIC H2D6(3) (3)Part 7.4 of the ABCB Housing Provisions— (a)may only be used provided the roof drainage system is connected to a stormwater drainage system that complies with H2D2; and (b)excludes box gutters.	Provide construction method in Project plans prior to Crown compliance Certificate.

	(4)Performance Requirement H2P2 is satisfied for roof and wall cladding if it is in accordance with H1D7(2), (3), (4) or (5) as appropriate.	
H2D7	Glazing [2019: 3.6] Performance Requirement H2P2 is satisfied for weatherproofing for glazing if it is in accordance with H1D8(1).	Provide construction method in Project plans prior to Crown compliance Certificate.
H2D8	External waterproofing (1)Performance Requirement H2P2 is satisfied for the design and construction of external waterproofing for roofing systems on flat roofs, roof terraces, balconies and terraces and other similar horizontal surfaces located above internal spaces of a building provided— (a)membranes used in the external waterproofing system comply with AS 4654.1; and (b)the design and installation of the external waterproofing system is in accordance with AS 4654.2. (2)The requirements of (1) apply to— (a)roofing systems other than those complying with H1D7(2) and (3); and (b)terraces, balconies and the like other than— (i)a concrete slab that has a minimum step-down of 50 mm below the internal floor level; or (ii)a suspended concrete slab— (A)where the subfloor space is not used for habitable or non-habitable purposes; and (B)that has a minimum step-down of 50 mm below the internal floor level; or (iii)spaced decking in conjunction with framing members that are suitable for external use.	Provide construction method in Project plans prior to Crown compliance Certificate.

3.1 PART H3 – FIRE SAFETY

CLAUSE	CLAUSE REQUIREMENT	ACTION/RECOMENDATION
H3D1	Deemed-to-Satisfy Provisions (1)Where a Deemed-to-Satisfy Solution is proposed, Performance Requirements H3P1 and H3P2 are satisfied by complying with H3D2 to H3D6. (2)Where a Performance Solution is proposed, the relevant Performance Requirements must be determined in accordance with A2G2(3) and A2G4(3) as applicable.	Provide construction method in Project plans prior to Crown compliance Certificate.
H3D2	Fire hazard properties and non-combustible building elements (1) The following materials, though combustible or containing combustible fibres, 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. of-Flame Index of the product is not more than 0. Pre-finished metal sheeting having a combustible surface finish not exceeding 1 mm thick and where the (e) Spread- (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 Spread-of-Flame Index and the Smoke-Developed Index of the bonded laminated material as a whole do not exceed 0 and 3 respectively. (2) The fire hazard properties of materials used in a Class 1 building, including floor or ceiling spaces common with a Class 10 building, must comply with the following: (a) Sarking-type materials used in the roof must have a Flammability Index not greater than 5. (b) Flexible ductwork used for the transfer of products initiating from a heat source	Provide construction method in Project plans prior to Crown compliance Certificate.

	that contains a flame must comply with the fire hazard properties set out in AS 4254.1.	
H3D4	Fire protection of separating walls and floors [2019: 3.7.3] Compliance with Part 9.3 of the ABCB Housing Provisions satisfies Performance Requirement H3P1 for fire protection of separating walls and floors.	Provide construction method in Project plans prior to Crown compliance Certificate
H3D6	Smoke alarms and evacuation lighting [2019: 3.7.5] (1)Compliance with Part 9.5 of the ABCB Housing Provisions satisfies Performance Requirement H3P2 for smoke alarms and evacuation lighting. (2)For the purposes of (1), a Class 1 building includes a Class 10a private garage located above or below the Class 1 building.	Smoke alarm installation must comply with AS 3786. Provide construction method in Project Specification prior to Crown compliance Certificate

3.1 PART H4 – HEALTH AND AMENITY

CLAUSE	CLAUSE REQUIREMENT	ACTION/RECOMENDATION
H4D1	Deemed-to-Satisfy Provisions (1)Where a Deemed-to-Satisfy Solution is proposed, Performance Requirements H4P1 to H4P7 are satisfied by complying with H4D2 to H4D9. (2)Where a Performance Solution is proposed, the relevant Performance Requirements must be determined in accordance with A2G2(3) and A2G4(3) as applicable.	For Reference
H4D2	Wet areas Compliance with AS 3740 or Part 10.2 of the ABCB Housing Provisions satisfies Performance Requirement H4P1 for wet areas provided the wet areas are protected in accordance with the appropriate requirements of 10.2.1 to 10.2.6 and 10.2.12 of the ABCB Housing Provisions.	Provide construction method in Project Specification prior to Crown compliance Certificate.
H4D3	Materials and installation of wet area components and systems Performance Requirement H4P1 is satisfied for materials and the installation of wet area components and systems if— (a)building elements in wet areas are water resistant or waterproof in accordance with clauses 10.2.1 to 10.2.6 of the ABCB Housing Provisions; and (b)they comply with either— (i)AS 3740 and clause 10.2.12 of the ABCB Housing Provisions; or 10.2.7 to 10.2.32 of the ABCB Housing Provisions.	Provide construction method in Project Specification prior to Crown compliance Certificate.
H4D4	Room heights Compliance with Part 10.3 of the ABCB Housing Provisions satisfies Performance Requirement H4P2 for room heights.	Provide construction method in Project Specification prior to Crown compliance Certificate.
H4D6	Light Compliance with Part 10.5 of the ABCB Housing Provisions satisfies Performance Requirement H4P4 for lighting.	Provide construction method in Project Specification prior to Crown compliance Certificate.
H4D7	Ventilation (1)Except for an exhaust fan from a sanitary compartment, laundry, kitchen or bathroom, Performance Requirement H4P5 is satisfied for a mechanical ventilation system if it is installed in accordance with AS 1668.2.	Provide construction method in Project Specification prior to Crown compliance Certificate.

	(2)Compliance with Part 10.6 of the ABCB Housing Provisions satisfies Performance Requirement H4P5 for ventilation.	
H4D8	Sound insulation Compliance with Part 10.7 of the ABCB Housing Provisions satisfies Performance Requirement H4P6 for sound insulation	Provide construction method in Project Specification prior to Crown compliance Certificate.
H4D9	Condensation management Compliance with Part 10.8 of the ABCB Housing Provisions satisfies Performance Requirement H4P7 for condensation management.	Provide construction method in Project Specification prior to Crown compliance Certificate.

Author KIERAN TOBIN

REGISTERED CERTIFIER NO 0409 24 July 2024