BCA 2022 Indicative Compliance Report For DA Lodgment



Client: Bryon Burke & Tina Kamyab

Address: U4&U7, 1a Greycliffe Street, Queenscliff NSW 2096

Subject: Proposed Additions to Existing Strata Units

Date: 26 June 2024

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Report Limitations and Exclusions

The limitations and exclusions of this report are as follows:

- These plans have been assessed indicatively to the extent necessary to proceed to construction certificate stage whereby assessment will be undertaken pursuant to Part 4A of the Environmental Planning and Assessment Act 1979. This means that the design has been assessed to be able to comply with the BCA (i.e. the submitted plans are consistent with the BCA but certain design details may not be specified at this stage due to the plans and specifications being at pre-DA stage).
- This Report does not address issues in relation to the following:
 - a) The structural adequacy of the building including the Fire Resistance Levels (FRL's) of any building elements (unless specifically referred to).
 - b) The design, maintenance or operation of electrical, mechanical, hydraulic or fire protection services.
 - c) Environmental Planning and Assessment Act and Regulations (unless specifically referred to).
 - d) Local Government Act and Regulations.
 - e) Occupational Health and Safety Act and Regulations.
 - f) Workcover Authority requirements.
 - g) Requirements of other Regulatory Authorities including, but not limited to, Telstra, Sydney Water, Electricity Supply Authority, RTA, Council and the like.
 - h) Disability Discrimination Act (DOA) other than minimum requirements under the Disability (Access to Premises-Buildings) Standards 2010. ODA is a Case-by-Case Assessment, this building will comply with the set items under the Premises Standards.
 - i) Construction Safety Act.
 - j) Conditions of Development Consent issued by the relevant Local Council.
- This assessment does not incorporate the detailed requirements of the Australian Standards.

Referenced Documents

The following documentation was relied upon when preparing this report:

- Assessment of design documentation referenced in Part 4 of this report.
- The performance and deemed-to-satisfy provisions of the Building Code of Australia 2022 incorporating the NSW Appendices where applicable.
- Guide to the National Building Code of Australia.
- Disability (Access to Premises Buildings) Standards 2010.
- Environmental Planning & Assessment Act 1979 (As Amended).
- Environmental Planning & Assessment Regulation 2021.
- Environmental Planning & Assessment (Development Certification & Fire Safety) Regulation 2021.

Report Reading Guide

The scope of this Building Code of Australia Report (BCAR) is to assess the proposed building against the "Deem-to-Satisfy" the Building Code of Australia (BCA) Performance Requirements:

- EXECUTIVE SUMMARY
- INTRODUCTION
- DESIGN OBJECTIVES
- PRINCIPAL BUILDING CHARACTERISTICS
- BUILDINF CODE OF AUSTRALIA ASSESSMENT
- REFERENCE INFORMATION
- CONCLUSIONS
- VAILDITY AND LIMITATIONS

The project stakeholders will have varying degrees of involvement in the fire engineering process with an interest in different sections. It is recommended that each stakeholder read the entire document, paying particularly attention to the sections indicated in Table A.

Table A – Recommended reading guide table for project stakeholders

Stakeholder	Executive Summary	1	2	3	4	5	6	7
Client	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Architect	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Certifying Authority	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Project Manager	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Services Engineers	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Fire Brigades	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Managing Contractor	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Sub-Contractor	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark

Executive Summary

This report is prepared in preparation of a Development Application (DA) lodgement and is for assessment purposes, it comprises a Building Code of Australia (BCA) assessment of the proposed alterations to the existing strata units U4 & U7 and is subject to Clauses 64 & 69 of the Environmental Planning and Assessment Regulation 2021.

The existing building is situated on land at 1a Greycliffe Street, Queenscliff NSW 2096 and is a block of strata residential units.

In considering the requirements of the BCA for the purposes of the proposed additions, consideration is required of Clauses 64 and 69 of the Environmental Planning and Assessment Regulation 2021, wherein the following applies –

- Clause 64 Consent authority may require upgrade of buildings. This clause requires the whole of the building to comply with the BCA if over the previous 3 years building works represents 50% or more of the total volume of the building.
- Clause 69 Compliance with the Building Code of Australia. This clause requires building works must be carried out in accordance with the requirements of the Building Code of Australia.

Having regard to the proposed building works compliance issues of compliance with the BCA will only relate to the proposed new building works to U4 & U7, and not the whole building. Further, it should be noted that the proposed building works do not represent an increase in the total volume of the existing building by 50%.

The overall fire safety strategy for this building is based on the application of the Environmental Planning & Assessment Regulation 2021 and the fire safety measures arising from compliance with BCA DtS Provisions and other additional requirements resulting from assessing the BCA DtS. The following table details to proposed buildings compliance with the BCA in Section 4.2 of this report.

Based on the Building code assessment presented in this report, it is our considered opinion that, the proposed additions to the existing residential flat building are capable of satisfying the BCA Performance Requirements, subject to the provision of the request detail for varication and compliance Architectural plan.

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PART 1 INTRODUCTION

1.1 Introduction

This report is prepared in preparation of a Development Application (DA) lodgement and is for assessment purposes, it comprises a Building Code of Australia (BCA) assessment of the proposed alterations to the existing strata units U4 & U7 and is subject to Clauses 64 & 69 of the Environmental Planning and Assessment Regulation 2021.

1.2 The Project

It is proposed to construct new building works to the existing units U4 & U7 at the subject site.

1.3 Site Description

The existing building is situated on land at 1a Greycliffe Street, Queenscliff NSW 2096, as shown by the aerial view below.



Photo - Aerial view: 1a Greycliffe Street, Queenscliff NSW 2096- Courtesy Google Maps

1.4 Terms of Reference

All State Building Surveying has been appointed by Bryon Burke to identify for the proposed new building works, the relevant Deemed-to-Satisfy Provisions of the Building Code of Australia (BCA) under Sections Parts C, D (excluding Part D4 – Access) E and F and to identify any non-compliances; and to provide a list of proposed fire safety measures for the development.

1.5 Building Code of Australia Report Scope

This report is based on the Deemed-to-Satisfy (DtS) Provisions of the Building Code of Australia 2022, Volume 1 and the NSW variations where applicable.

1.6 Relevant Project Stakeholders

The relevant project stakeholders that have been nominated by the Client for purposes of participating in the fire engineering process are outlined in Table 1-1.

Representative	Entity	Role
Bryon Burke & Tina Kamyab	U4 & U7	Owners
Strata Secretary	Strata Plan	Building Owners
Adam Hobbs	Hobbs Jamieson Architecture	Architect
TBC	Northern Beaches Council	Consent Authority
TBC	TBC	Certifying Authority
Sean O'Brien	All State Building Surveying Pty Ltd	Building Code Consultant

Table 1-1 - Project Stakeholders

1.7 Definitions

The following definitions apply to terminology used in this report -

The proposed building works - refers to U4&U7, 1a Greycliffe Street, Queenscliff NSW 2096

BCA – refers to the Building Code of Australia

BCA DtS - refers to the Building Code of Australia 2022 (BCA) Deemed-to-Satisfy Provision (DtS)

Certifying Authority – refers to (Certifier) BPB: TBC

Owner - refers to Bryon Burke & Tina Kamyab, U4 & U7, 1a Greycliffe Street, Queenscliff NSW 2096

Building Code of Australia Report (BCAR) – refers to the Building Code of Australia Report (This document)

Building Code Consultant - refers to All State Building Surveying Pty Ltd

FRL - refers to Fire Resistance Level as defined in the BCA

FRNSW - refers to Fire & Rescue NSW

NCC – refers to National Construction Code

Effective height - the vertical distance between the floor of the lowest storey included in the calculation of rise in storeys and the floor of the topmost storey (excluding the topmost storey if it contains only heating, ventilating, lift or other equipment, water tanks or similar service units).

Exit –

(a) any, or any combination of the following if they provide egress to a road or open space: (i) An internal or external stairway.

(ii) A ramp.

- (iii) A fire-isolated passageway.
- (iv) A doorway opening to a road or open space.

(b)A horizontal exit or a fire-isolated passageway leading to a horizontal exit.

Rise in storeys - the greatest number of storeys calculated in accordance with C2D3 of the BCA.

Sole-occupancy unit - a room or other part of a building for occupation by one or joint owner, lessee, tenant, or other occupier to the exclusion of any other owner, lessee, tenant, or other occupier and includes-(a) a dwelling; or (b) a room or suite of rooms in a Class 3 building which includes sleeping facilities; or (c) a room or suite of associated rooms in a Class 5, 6, 7, 8 or 9 building; or (d) a room or suite of associated rooms in a Class 9 building; or (d) a room or suite of associated rooms in a Class 9 building; or (d) a room or suite of associated rooms in a Class 9 building; or (d) a room or suite of associated rooms in a Class 9 building; or (d) a room or suite of associated rooms in a Class 9 building.

Storey - a space within a building which is situated between one floor level and the floor level next above, or if there is no floor above, the ceiling or roof above, but not-(a) a space that contains only— (i) a lift shaft, stairway or meter room; or (ii) a bathroom, shower room, laundry, water closet, or other sanitary compartment; or (iii) accommodation intended for not more than 3 vehicles; or (iv) a combination of the above; or (b) a mezzanine.

PART 2 DESIGN OBJECTIVES

2.1 Building Code Objectives

The design objectives for this building code assessment are contained in the relevant BCA Performance Requirements in Sections C, D, E and F, which may be summarised as:

- Occupant Life Safety to safeguard people from illness or injury due to a fire in a building and whilst evacuating a building during a fire.
- Protection of adjacent property to avoid the spread of fire between buildings and protect other property from physical damage caused by structural failure of a building as a result of fire.
- Fire Brigade Intervention to facilitate the activities of emergency services personnel.

The building code objectives are based on acceptable levels of occupant life safety as absolute fire safety within buildings is not attainable. Accordingly, the BCA is utilised as a benchmark for establishing an acceptable level of fire safety. The process used to define the acceptance criteria for this project will include community representation via the Regulatory Authorities such as Certifying Authority and Fire & Rescue NSW along with input from other relevant project stakeholders.

This assessment will be consistent with the objectives and limitations of the BCA and therefore specifically excludes arson (other than as a source of initial ignition), multiple ignition sources, acts of terrorism, protection of property (other than adjoining property), business interruption or losses, personal or moral obligations of the owner/occupier, reputation, environmental impacts, broader community issues etc. Specific building owner objectives relating to any of the above matters have not been identified by the relevant stakeholders and were therefore not considered in this report.

As a Performance Solution is not identical to a BCA Deemed-to-Satisfy (DtS) Solution, the property losses resulting from a fire in the subject building may under some circumstances vary from a building complying fully with the BCA DtS Provisions.

2.2 BCA Compliance Objectives

In terms of BCA Compliance, the primary objective of this report is to identify the BCA DtS requirements identified in Section 4.1 of this report.

2.3 Fire Brigade Objectives

Fire brigade objectives with respect to building design and fire brigade intervention are to be addressed in accordance with the relevant BCA Performance Requirements. It should be noted that the Fire & Rescue NSW (FRNSW) have their own charter for the protection of life, property and environment are beyond the scope of this report.

PART 3 PRINCIPLE BUILDING CHARACTERISTICS

3.1 Building Description

This Building Code of Australia Report (BCAR) relates to the proposal additions to Units 4 & 7 in the existing residential building located at 1a Greycliffe Street, Queenscliff NSW 2096.



3.2 Classification

The existing building is classified as a Class 2 Building – Residential with a freestanding Class 10a - Garage and a freestanding Class 10b - storage shed. The proposed works will not alter the existing building classifications.

3.3 Rise in Storeys

The existing buildings has a Rise in storeys – four (4). The proposed building works will not add to the rise in storeys.

3.4 Number of Storeys Contained

The existing building with the proposed new works will contain five (5) storeys.

3.5 Type of Construction

The building is required to satisfy Type A construction.

3.6 Effective Hight

The proposed building is estimated to achieve an effective height of approximately 12.0m.

3.7 Climate Zone

The proposed residential building complex is in located in climate zone 5.

3.8 Floor Area and Volume Limitations

The building is subject to maximum floor area and volume limits of:-

Class 2 buildings are not subject to floor area and volume limitations of Clause C3D3 as Clause S5C11 – Type A Construction and Clause C4D12 of the BCA regulates the compartmentation and separation provisions applicable to Class 2 buildings.

3.9 Fire Compartments

The following fire compartments are assumed - Each separate Residential Storey within of Building.

3.10 Exits

Class 2

The building is provided with the following points of egress - The ground floor building entry door opens directly to open space.

PART 4 BUILDING CODE of AUSTRALIA ASSESSMENT (BCA)

The overall fire safety strategy for this building is based on the application of the Environmental Planning & Assessment Regulation 2021 and the fire safety measures arising from compliance with BCA DtS Provisions and other additional requirements resulting from assessing the BCA DtS. The following table details to proposed buildings' compliance with the BCA in Section 4.2 of this report.

4.1 Environmental Planning & Assessment Regulation 2021

In considering the requirements of the BCA for the purposes of the proposed additions, consideration is required of Clauses 64 and 69 of the Environmental Planning and Assessment Regulation 2021, wherein the following applies –

- Clause 64 Consent authority may require the upgrade of buildings. This clause requires the whole
 of the building to comply with the BCA if over the previous 3 years building works represent 50% or
 more of the total volume of the building.
- 2. Clause 69 Compliance with the Building Code of Australia. This clause requires building works must be carried out in accordance with the requirements of the Building Code of Australia.

Having regard to the proposed building works compliance issues of compliance with the BCA will only relate to the proposed new building works to U4 & U7, and not the whole building. Further, it should be noted that the proposed building works do not represent an increase in the total volume of the existing building by 50%.

4.2 BCA Assessment Table

For the purposes of this Report and the BCA, the proposed building (see copy of site plan below) has been assessed in the following manner –

Table 4 2 – BCA Assessment Table.

Item	Description	Status	Comments
SECTION B - S	tructure		
The building or str degrees of reliabilit • perform actions, actions; structura damage; resisting subjecte The structural resis determined using appropriate allowar • known characte in the m action e foundation temperal Any glass installa impact must have e	ucture, during construction and ty, must— adequately under all reason and withstand extreme or freq and be designed to sustain I al system as a whole remainin d to an extent disproportional and avoid causing damage the actions to which it may re- d. stance of materials and forms of five percentile characteristic non construction activities; and the ristics of the site; and the degreent ethods used to assess the stru- affects arising from the difformer- ture, moisture, shrinkage, creeptions to stanta are at risk of being glazing that— on impact will break in a weaption and and the degreent the structure at the structure of the site the structure of the site of the site of the site the structure of the site of the site of the site of the site of	d use, with appropriate hably expected design uently repeated design ocal damage, with the g stable and not being te to the original local to other properties, by easonably expect to be of construction must be naterial properties with type of material; and ee of accuracy inherent ructural behaviour; and erential settlement of nsional changes due to o and similar effects. g subjected to human	Structure engineering details are to be provided at Construction Stage
cause in	jury to people; and		
 resists breaking the likelil 	a reasonably foreseeable h ; and is protected or marked ir hood of human impact	a man impact without a way that will reduce	

Item	Description	Status	Comments			
SECTION	C - FIRE RESISTANCE					
Part C1 F	re Resistance					
Objectives,	Functional Statements, Performance F	Requirements & Verificati	ion methods - For Notation			
Part C2 alteration	Fire resistance and stability s and additions to U4 & U7.	- the proposed new	v building works are limited to the internal			
C2D1	Deemed-to-Satisfy Provisions	For Notation	N/A			
C2D2	Type of Construction	Type A Construction	The development is required to comply with the FRL requirements of Building Elements in Specification S5C11 and Table S5C11. <u>Comment</u> Structural Engineer to certify FRL of structural elements			
Table C	2D2: Type of construction required					
Rise in a	storeys Class of buildin	lg 2, 3, 9 Class	s of building 5, 6, 7, 8			
4 or mo	A A	B				
2	B	C				
1	С	С				
elli kapung para jaung sa Site A Lot 1	Windowski Operation Operation					
Fire Source Features	Applies	Openings and Buildir Elements are to com the provisions Clause C4D3, C4D5 and Spo Table S5C11	ng ply es ec 5			
	External Wall 1 – Side boundary – North	Applies > FSF greate than 3m setback	er Loadbearing and non-loadbearing portions of the external walls require FRL 90/90/90, windows and other openings do not need protection			
	External Wall 2 – Side Boundary - East	Applies > FSF greate than 3m setback	er Loadbearing and non-loadbearing portions of the external walls require FRL 90/90/90, windows and other openings do not need protection			
	External Wall 3 – Rear Boundary - South	Applies > FSF greate than 3m setback	er Loadbearing and non-loadbearing portions of the external walls require FRL 90/90/90, windows and other openings do not need protection			
	External Wall 4 – Side Boundary – Unnamed Laneway	Applies > FSF is the side of the laneway (road)	far Loadbearing and non-loadbearing portions of the external walls require FRL 90/90/90, windows and other openings do not need protection			
	Other buildings on site	Noted	No other buildings appear on the same allotment			

Iten	n	Description	Status	6	Co	mments		
Spe	cifica	tion 5 Fire-resisting construction						
S5C	;1	Scope	Applies	3	Not	ed		
S5C	2	Exposure to fire-source features	Applies	6	Not	ed		
S5C	:3	Fire protection for a support of	Applies	3	Not	ed		
S5C	:4	Lintels	N/A		N/A			
S5C	4	Method of attachment not to reduce	N/A		N/A			
		the fire-resistance of building elements			1.07			
S5C	6	General concessions	Applies	6	Not	ed		
S5C	7	Mezzanine floors: Concession	N/A		N/A			
S5C	:8	Enclosure of shafts	N/A		N/A			
S5C	;9	Carparks in Class 2 and 3 buildings	N/A		N/A			
S5C	:10	Residential care building: Concession	N/A		N/A			
S5C	:11	Type A Fire-Resisting Construction						
(1)		In a building required to be of Type A of	constructio	on –				
		(a) each building element listed in Tab	les S5C1	1a, S5C11b,	, S5C11c, S	5C11d, S5C11e	, S5C11f, and \$	S5C11g and
	any beam or column incorporated in it, must have an FRL not less that listed in the Table for the particular class of building concerned: and							ular class of
	(b) any internal wall required to have an FRL with respect to integrity and insulation must extend to –							
		(i) the underside of the floor next above	e: or					
		(ii) the underside of a roof complying w	vith S5C1	1g: or				
		(III) if under S5C15 the roof is not requ	uired to c	omply with I	able S5C11	g, the underside	e of the non-co	mbustible roof
		covering and, except for the roof batte	tible clom	imensions or	75mm x 50	mm or less or sa	arking-type mat	erial, must not
		(iv) a ceiling that is immediately below	the roof	and has a re	sistance to t	he incinient sore	ad of fire to the	e roof snace
		between the ceiling and the roof of not	less than	n 60 minutes	313121100 10 1	ne melplent spre		5 1001 39400
	(c) a loadbearing internal wall and a loadbearing fire wall (including those that are part of a loadbearing shaft must be							
		constructed from –		5 (5	•	5	
		(i) concrete; or						
		(ii) masonry; or						
		(iii) subject to (2), fire-protected timber	, or					
		(iv) any combination of (i) to (iii); and		<u> </u>				
		(d) the FRLs specified in Table S5C11 face and are within 1.5m of a window a	1c for an e and are ex	external colu xposed throu	mn apply al	so to those parts low to a fire sou	s of an internal rce feature.	column that
(2)		For the purposes of (1)(c)(iii), fire-prote	ected timb	ber may be u	sed, provide	ed that –		
. ,		(a) the building is –						
		(i) a separate building: or						
		(ii) a part of a building –				.		
		(A) which only occupies	part of a	storey, and i	s separated	from the remain	ing	
		(B) which is located ab	ove or he	low a part n	ot containin	a fire-protected	timber and the	floor between
		the adjoining parts is pr	ovided wi	ith an FRI n	ot less that	prescribed for a	fire wall for the	e lower storev.
		and	ondoa m					s lower elerey.
		(b) the building has an effective he	eight of no	ot more than	25m: and			
		(c) the building has a sprinkler sys	stem (othe	er than a FPA	AA10D or a	FPAA10H syste	m) throughout a	complying with
		Specification 17: and						
		(d) any insulation installed in the c	avity of th	ne timber elei	ment require	to have a FRL	is non- combus	stible: and
		(e) cavity barriers are provided in acco	ordance w	ith Specifica	tion 9.			
(3)		For the purposes of Table S5C11a elements incorporated within it or othe	and Tab	le S5C11b, building ele	external wa ment	all includes, any	/ column and	other building
Tabl	le S5C	1a: Type A construction: FRL of Loadbe	earing par	ts of externa	I walls			
	Distance from a first source for the second se							
	Instance from a me-source reature Price (in minutes). Structural adequacy magney in							
					015-7	010		
			C	lass 2, 3 or	Class 5, 7a	Class 6	Class /b or 8	
	ess that	15m	4	0/90/90	120/120/120	180/180/180	240/240/240	
4 5 to loss than 0 m 0 m 0 m 0 m 0 m 0 m 0 m 0 m 0 m 0							240/240/490	
	.5 to les	s uian 5 M	9	0/00/00	120/90/90	100/180/120	240/240/180	
3	m or m	ore	9	0/60/30	120/60/30	180/120/90	240/180/90	

Distance from a fire-source feature	FRL (in minutes): Structural adequacy / Integrity / Insulation				
	Class 2, 3 or 4 part	Class 5, 7a or 9	Class 6	Class 7b or 8	
Less than 1.5 m	-/90/90	-/120/120	-/180/180	-/240/240	
1.5 to less than 3 m	-/60/60	-/90/90	-/180/120	-/240/180	
3 m or more	-1-1-	-1-1-	-1-1-	-/-/-	

Table S5C11c: Type A construction: FRL of external columns not incorporated in an external walls

Column type	FRL (in minutes): Structural adequacy / Integrity / Insulation				
	Class 2, 3 or 4 part	Class 5, 7a or 9	Class 6	Class 7b or 8	
Loadbearing	90/_/_	120/_/_	180/_/_	240/_/_	
Non-loadbearing	-1-1-	- - -	- - -	_/_/_	

Table S5C11d: Type A construction: FRL of common walls and fire walls

Wall type	FRL (in minutes): Structural adequacy / Integrity / Insulation					
	Class 2, 3 or 4 part	Class 5, 7a or 9	Class 6	Class 7b or 8		
Loadbearing or non-loadbearing	90/90/90	120/120/120	180/180/180	240/240/240		

Table S5C11e: Type A construction: FRL of loadbearing internal walls

Location	FRL (in minutes): Structural adequacy / Integrity / Insulation					
	Class 2, 3 or 4 part	Class 5, 7a or 9	Class 6	Class 7b or 8		
Fire-resisting lift and stair shafts	90/90/90	120/120/120	180/120/120	240/120/120		
Bounding public corridors, public lobbies and the like	90/90/90	120/_/_	180/_/_	240/_/_		
Between or bounding sole-occupancy units	90/90/90	120/_/_	180/_/_	240/_/_		
Ventilating, pipe, garbage, and like <i>shafts</i> not used for the discharge of hot products of combustion	90/90/90	120/90/90	180/120/120	240/120/120		

Table S5C11f: Type A construction: FRL of non-loadbearing internal walls

Location	FRL (in minutes): Structural adequacy / Integrity / Insulation				
	Class 2, 3 or 4 part	Class 5, 7a or 9	Class 6	Class 7b or 8	
Fire-resisting lift and stair shafts	-/90/90	-/120/120	-120/120	-/120/120	
Bounding public corridors, public lobbies and the like	-/60/60	-/-/-	-1-1-	-/-/-	
Between or bounding sole-occupancy units	-/60/60	-/-/-	-1-1-	-/-/-	
Ventilating, pipe, garbage, and like <i>shafts</i> not used for the discharge of hot products of combustion	-/90/90	-/90/90	-/120/120	-/120/120	

Table S5C11g: Type A construction: FRL of other building elements not covered by Tables S5C11a to S5C11f

Building element	FRL (in minutes): Structural adequacy / Integrity / Insulation			
	Class 2, 3 or 4 part	Class 5, 7a or 9	Class 6	Class 7b or 8
Other <i>loadbearing</i> internal walls, internal beams, trusses and columns	90/_/_	120/_/_	180/_/_	240/_/_
Floors	90/90/90	120/120/120	180/180/180	240/240/240
Roofs	90/60/30	120/60/30	180/60/30	240/90/60

S5C12 Type A fire-resisting construction - concessions for floors
A floor need not comply with Table S5C11g if –
(a) it is laid directly on the ground: or
(b) in a Class 2, 3 5 or 9 building, the space below is not a storey, does not accommodate motor vehicles, is not a storage
or work area, and is not used for any other ancillary purpose; or
(c) It is a limber stage noor in a class 90 building laid over a noor naving the required FRL and the space below the stage is not used as a dressing from store norm of the like; or
(d) it is within a sole-occurance unit in a Class 2 or 3 building or Class 4 part of a building; or
(e) it is an open-access floor (for the accomposition of electrical and electronic services and the like) above a floor with the
required FRL.
S5C13 Type A fire-resisting construction - floor loading of Class 5 and 9b buildings: Concession
If a floor in a Class 5 or 9b building is designed for a live load not exceeding 3kPa-
(a) the floor next above (including floor beams) may have a FRL of 90/90/90: or
(b) the roof, if that is next above (including roof beams), may have an FRL of 90/60/30.
S5C14 Type A fire-resisting construction - roof superimposed on concrete slab: Concession
A root superimposed on a concrete slab root need not comply with SSC11 as to fire resisting construction if –
(a) the superimposed roor and any construction between it and the concrete siab root are non-combustible throughout: and (b) the concrete siab root are non-combustible throughout: and
(b) The content stab foot complete with 35C Fig.
A roof reed not comply with SSC11a if its covering is non-combustible and the building -
(a) has a sprinkler system (other than a FPAA101D or FPAA101H system) complying with Specification 17 installed
throughout: or
(b) has a rise in storeys of 3 or less; or
(c) is of Class 2 or 3; or
(d) has an effective height of not more than 25m and the ceiling immediately below the roof has a resistance to the incipient
spread of fire to the roof space of not less than 60 minutes.
S5C16 Type A fire-resisting construction - roof lights
If a roof is required to have a FRL or its covering is required to be non-combustible, roof lights or the like installed in that roof must
(a) have an aggregate area of not more than 20% of the roof surface; and
(i) any boundary of the allotment other than the boundary with a road or public place; and
(i) any part of the building which projects above the roof unless that part has the FRL required of a fire wall and any
openings in that part of the wall for 6m vertically above the roof light or the like are protected in accordance with
C4D5; and
(iii) any roof or the like in an adjoining sole-occupancy unit if the walls bounding the unit are required to have an FRL;
and
(iv) any roof light or the like in an adjoining fire-separated section of the building; and
(c) If a celling with a resistance to the incipient spread of fire is required, be installed in a way that will maintain the level of
Protection provided by the centry to the root space.
For a building with an effective beight of not more than 25m and having a roof without an FRI in accordance with S5C15 in the
storey immediately below that roof internal columns other than those referred to in SSC11(1)(d) and the internal walls other than
fire walls and shaft walls may have -
(a) in a Class 2 or 3 building: FRL60/60/60; or
(b) in a Class 5, 6, 7, 8 or 9 building -
(i) with rise in storeys exceeding 3: FRL 60/60/60: or
(ii) with rise in storeys exceeding 3: no FRL.
S5C18 Type A fire-resisting construction - open spectator stands and indoor sports stadiums: Concession
In an open spectator or indoor sports stadium, the following building elements need not have the FRL specified in Tables S5C11a,
(a) The reaf if it is non-combustible
 (a) The tool in it is independent of the supporting only the roof if they are non-combustible (b) Columns and loadbearing walls supporting only the roof if they are non-combustible
(c) Any non-loadbearing part of an external wall less than 3 m-
(i) From any fire-source feature to which it is exposed, if it has an FRL of not less than -/60/60 and is non-
combustible: or
(ii) From an external wall of another open spectator stand if it is non-combustible.
S5C19 Type A fire-resisting construction - Carparks
(1) Notwithstanding S5C11, a carpark may comply with this clause if it is an open-deck carpark or is protected with
a sprinkler system (other than a FPAA101D or FPAA101H system) complying with Specification 17 and is –
(a) a separate building; or
(b) a part of a building –
(i) which only occupies part of a storey, and is separated from the remaining part by a fife Wall; or (ii) which is located above or below another classification, and the floor separating the classifications
complies with C3D10 or
(iii) which is located above another Class 7 part of the building not used for carparking and the floor
separating the parts complies with Table S5C11g for a Class 7 part other than a carpark; or
(iv) which is located below another Class 7 part of the building not used for carparking, and the floor
separating the parts complies with this clause.

(2)	For the purposes of this Clause, a carpark –
	(A) an administration area associated with the functioning of the carpark and
	(B) where the carpark is sprinklered, is associated with a Class 2 or 3 building and provides carparking for
	separate sole-occupancy units, each carparking area with an area not greater than 10% of its floor
	area for purposes ancillary to the sole-occupancy units; but
	(A) except for b(i) any area of another classification or other part of a Class 7 building not used for
	carparking: and
(2)	(B) a building or part of a building specifically intended for the parking of trucks, buses, vans and the like.
(3)	For building elements in a carpark as described in (1) and (2), the following minimum FRLs are applicable:
	(i) Less than 3 m from a fire-source feature to which it is exposed.
	(A)Loadbearing: 60/60/60.
	(B)Non-loadbearing: –/60/60.
	(ii) 3 m or more from a fire-source feature to which it is exposed: -/-/
	(i) Loadbearing, other than one supporting only the roof (not used for carparking); 60/–/–.
	(ii) Supporting only the roof (not used for carparking): $-/-/-$.
	(iii) Non-loadbearing: -/-/
	(c) Fire wall: (i)Erom the direction used as a corport: 60/60/60
	(ii)From the direction not used as a carpark: as required by Table S5C11d.
	(d) Columns:
	(i) Supporting only the roof (not used for carparking) and 3 m or more from a fire-source feature to which it is
	exposed: -/-/ (ii)Steel column, other than one covered by (i) and one that does not support a part of a building that is not
	used as a carpark—
	(A)60/-/-; or
	(B)an ESA/M of not greater than 26m2/tonne.
	(iii) Any other column not covered by (i) of (ii). 80/-/
	(i)Steel floor beam in continuous contact with a concrete floor slab—
	(A)60/-/-; or
	(B)an ESA/M of hol greater than 30m2/tonne. (ii)Any other beam: 60/_/_
	(f) Fire-resisting lift and stair shaft (within the carpark only): 60/60/60.
	(g) Floor slab and vehicle ramp: 60/60/60.
(4)	(h) Root (not used for carparking): -/-/
(4)	(a) ESA/M means the ratio of exposed surface area to mass per unit length.
	(b) Refer to Specification 17 for special requirements for a sprinkler system in a carpark complying with (3) and
	located within a multi-classified building.
(1)	e-resisting construction – Class 2 & 3 buildings: Concession
(1)	(a) notwithstanding C2D10(1) and (2) and C3D7, timber framing may be used for—
	(i) external walls; and
	(II) common walls; and (iii) the floor framing of lift pits: and
	(iv) non-loadbearing internal walls which are required to be fire-resisting; and
	(v) non-loadbearing shafts, except shafts used for the discharge of hot products of combustion; and
	(vi) spandrels or horizontal construction provided for the purposes of C3D7; and
	(i) timber framing may be used: and
	(ii) non-combustible materials may be used; and
	(c) notwithstanding S5C3(1)(c), timber framing may be used for a part of a building that provides support to a
(2)	A Class 2 or 3 building baying a rise in storeys of not more than 4 may have the top three storeys constructed
(~)	in accordance with (1) provided—
	(a) the lowest storey is used solely for the purpose of parking motor vehicles or for some other ancillary
	purpose; and (b) the lowest storey is constructed of concrete or mesonry including the floor between it and the Class 2 or 3
	part of the building above: and
	(c) the lowest storey and the storey above are separated by construction having an FRL of not less than
	90/90/90 with no openings or penetrations that would reduce the fire-resisting performance of that construction
(3)	In a Class 2 or 3 building complying with (1) or (2) and fitted with a sprinkler system (other than a FPAA101D or
	FPAA101H system) complying with Specification 17, any FRL criterion prescribed in Tables S5C11a, S5C11d.
	S5C11e, S5C11f and S5C11g—
	S5C11e, S5C11f and S5C11g— (a) for any floor and any loadbearing wall, may be reduced to 60, except any FRL criterion of 90 for an external wall must be maintained when tested from the cutside; and
	 S5C11e, S5C11f and S5C11g— (a) for any floor and any loadbearing wall, may be reduced to 60, except any FRL criterion of 90 for an external wall must be maintained when tested from the outside; and (b) for any non-loadbearing internal wall, need not apply if—
	 S5C11e, S5C11f and S5C11g— (a) for any floor and any loadbearing wall, may be reduced to 60, except any FRL criterion of 90 for an external wall must be maintained when tested from the outside; and (b) for any non-loadbearing internal wall, need not apply if— (i) it is lined on each side with 13 mm standard grade plasterboard or similar non-combustible material; and

	(A) to the underside of the floor	next above;	or		
	(B) to the underside of a ceiling with a resistance to the incipient spread of fire of 60 minutes; or				
	(C) to the underside of a non-combustible roof covering; and				
	 (iii) any insulation installed in the cavity of the wall is non-combustible; and (iv) any construction joint, space or the like between the top of the wall and the floor, ceiling or roof is smoke 				
	(v) any doorway in the wall is pro	or other suita tected by a	able material self-closing,	; and tight fitting, solid core	door not less than 35 mm
	thick.				
S5C21	Type B Fire-Resisting Construction	N/A		N/A	
S5C22	Type C Fire-Resisting Construction	N/A		N/A	
C2D3	Rise in storeys	Noted		RIS = Four (4) Stor	eys
C2D4	Mixed class & topmost storey	Noted		Class 2 building	
Table C2D2:	Type of construction required				
Rise in storeys	Class of building 2, 3, 9	9	Class of buik	ding 5, 6, 7, 8	
4 or more	A		A		
3	A		в		
2	8		-		
-			C		
1	<u> </u>	1	·		
C2D5	Mixed types of construction	Noted		Type A Required	
C2D6	Two storey Class 2, 3 or 9	N/A		N/A	
	buildings concession				
C2D7	Class 4 parts of buildings	N/A		N/A	
C2D8	Open spectator stands and indoor	N/A		N/A	
COD0 and Shaa	Sports stadiums			NI/A	
	Lightweight construction	IN/A		IN/A	
C2D10	Non-combustible building elements	Applies		Details to be provid	led at Construction Stage
C2D11 NSW	Fire hazard properties	Applies		The fire hazard n	properties of the following
Spec 7, 14 & 32		, the second		internal linings, m	naterials, and assemblies
				within a Class 2 t	o 9 building must comply
				with Specification 7	7 for Floor linings and floor
				coverings, Wall lini	ngs and ceiling linings.
				See Specification 7	7 – Clause S7C3 and Table
				S7C3 for floor lining	gs and Coverings.
				See Specification 7	7 – Clause S7C4 and Table
				S7C4 for Walls and	l Ceiling linings
C2D12 and	Performance of external walls in	N/A		N/A	
Spec 8	Tire	NI/A		N1/A	
C2D13		IN/A		N/A	had at Ormation Otana
C2D14	Ancillary Elements	Applies		Details to be provid	led at Construction Stage
C2D15	Fixing of bonded laminated	N/A		N/A	
02013	cladding panels				
PART C3 COMP	ARTMENTATION AND SEPARATION	1			
C3D1	Deemed-to-Satisfy Provisions				
C3D2	Application of Part				
C3D3	General floor area and limitations	Complies		The max floor area	a and volume limitations do 2 buildings.
C3D4	Large-isolated buildings	N/A		N/A	~
C3D5	Requirements for open spaces and	N/A		N/A	
C3D6	Class 9a buildings	N/A		N/A	
C3D7	Vertical separation of openings in	Applies		The proposed new	windows to U4 & U7 on
0021	external walls	, the second		the eastern elevation	on need to be addressed.
				Details of the distar	nce between the window
				openings are need	ed to determine
				compliance.	
C3D8	Separation by firewalls	N/A		Not required by pro	posed works
C3D9	Separation of classifications in the	N/A		Not required by pro	posed works
1	same storev	1		1	

Item	Description	Status	Comments
C3D10	Separation of classifications in	N/A	Not required by proposed works
02044	different storeys	N1/A	
C3D11 C3D12	Steparation of lift shafts	N/A	Not required by proposed works
C3D12	Separation of equipment	N/A	Not required by proposed works
C3D14	Electricity supply system	N/A	Not required by proposed works
C3D15	Public corridors in Class 2 and 3	N/A	Existing circumstances remain unchanged by
	buildings		the proposed new works
PART C4 PRO			
C4D1	Deemed-to-Satisfy Provisions		
C4D2	Application of Part	Noted	
C4D3	Protection of openings in external	N/A	Not required by proposed works
	walls that are required to have an		
0454	FRL	N1/A	
C4D4	Separation of openings in different	N/A	Not required by proposed works
C4D5	Acceptable methods of protection	N/A	Not required by proposed works
C4D6	Doorways in fire walls	N/A	Not required by proposed works
C4D7	Sliding fire doors	N/A	Not required by proposed works
C4D8	Protection of doorways in	N/A	Not required by proposed works
	horizontal exits		
C4D9	Openings in fire isolated exits	N/A	Not required by proposed works
C4D10	Service penetrations in fire	N/A	Not required by proposed works
C4D11	Openings in fire isolated lift shafts	N/A	Not required by proposed works
C4D12 NSW	Bounding construction: Class 2, 3	Applies	Details to be provided at Construction Stage –
	& 4 buildings		a Fire resistance wall achieving a FRL of not
	, , , , , , , , , , , , , , , , , , ,		less than 60/60/60 is required with door
			openings protected by a self-closing fire door
			achieving an FRL of -/60/30.
C4D13	Openings in floors for services	N/A	Not required by proposed works
C4D14	Openings in shafts	N/A	Not required by proposed works
C4D15	Openings for service installations	N/A	Not required by proposed works
C4D16	Construction joints	N/A	Not required by proposed works
C4D17	Columns protected with lightweight	N/A	Not required by proposed works
	construction to achieve an FRL		
SECTION D - A	CCESS & EGRESS		
PART D2 PRO	OVISION FOR ESCAPE - the	proposed new build	ling works are limited to the internal
alterations and	I additions to U4 & U7.		-
The Deemed-to-S	Satisfy provisions of this Part do not ap	oply to the internal parts of	f a sole-occupancy unit in a Class 2 or 3 building
or a Class 4 part of	of a building.		
Where a Deemer	to-Satisfy Solution is proposed. Per	formance Requirements F	1P1 to D1P6 D1P8 and D1P0 are satisfied by
complying with D2	2D2 to D2D23 D3D2 to D3D30 and D4	4D2 to D4D13	orr to Diro, Diro and Diro are satisfied by
The proposed priv	vate internal non-fire-isolated stairway	is to comply with the cons	truction requirements of clauses D3D14,
D3D15(a), D3D17	7, D3D18, D3D19, D3D20, D3D21, D3l	D22(5), D3D22(6), D3D23	and D3D29 in accordance Clause D3D2 of the
BCA.			
D2D1	Deemed-to-Satisfy Provisions		
D2D2	Application of part	Noted	I ne Deemed-to-Satisfy provisions of this Part
			do not apply to the internal parts of a sole-
			Class 4 part of a building.
PART D3	CONSTRUCTION OF EXITS		
D3D1	Deemed-to-Satisfy Provisions		
D3D2	Application of part	Applies	The proposed private internal non-fire-isolated
			stairway is to comply with the construction
			requirements of clauses D3D14, D3D15(a),
			U3U17, U3U18, U3U19, U3U20, U3U21,
			accordance Clause D3D2 of the BCA
L	I	1	

ltem	Description		Status	Comments
D3D14	Goings and risers		Applies	Details to be provided at Construction Stage
D3D15 NSW & Table D3D15	Landings		Applies	Details to be provided at Construction Stage
	0			
Table D3D15:	Slip-resistance	classification		
Application		Dry surface co	onditions	Wet surface conditions
Ramp steeper	than 1:14	P4 or R11		P5 or R12
steeper than 1	than 1:20 but not :14	P3 or R10		P4 or R11
Tread or landi	ng surface	P3 or R10		P4 or R11
Nosing or land	ling edge strip	P3		P4
D3D17	Barriers to falls		Applies	Balustrades are to be a minimum of 1m in
				height and have no openings greater than 125mm. <u>Comment</u> Details to be provided at Construction Stage
D3D18	Height of barriers		Applies	Details to be provided at Construction Stage
D3D19 D3D20	Openings in barriers		Applies	Details to be provided at Construction Stage
D3D20	Wire barriers		Applies	Details to be provided at Construction Stage
D3D22	Handrails		Applies	Handrails in a stairway are to be continuous
				between stair flight landings and have no obstruction on or above them that will tend to break a handhold. In a required exit serving an area required to be accessible, designed and constructed to comply with clause 12 of AS 1428.1, except that clause 12(d) does not apply to a handrail required by (a)(iii)(B). <u>Comment</u> Details to be provided at Construction Stage
D3D23	Fixed platforms, walky stairways and ladders	vays,	N/A	Not required by proposed works
D3D29	Protection of openable	e windows	N/A	Not required by proposed works
PART D4 ACCESS FOR PEOPLE WITH A DISABILITY – Excluded from Assessment				
SECTION E-SE	RVICES & EQUIPMI			
FID1	FIGHTING EQUIPM			Noted
E1D2	Fire Hydrants		Performance Solution required	When a building has a total floor area greater than 500m ² , a fire hydrant system is required. Fire hydrant coverage is required by AS 2419.1 for the whole of the building. <u>Comment</u> Street Hydrant provided in footpath directly outside of the property, but details of fire hose coverage not provided.
AS2419.1 :2005 3.2.2.2 Location E (a) In a position tf (b) When installed brigade pumping (i) all portions of t laid on the grou (ii) a minimum of	External fire hydrants sh nat provides pedestrian a d as a feed fire hydrant appliance is connected he building shall be with nd; and 1 m of base shall extend	all be located a access to the b [See Figure 3.] to it- in reach of a 10	is follows: uilding for the fire brigade 2.2.2(a), (b), (d) and (e)], 0 m hose stream, issuing	e. within 20 m of a hardstand such that when a fire from a nozzle at the end of a 60 m length of hose
E1D3	Fire Hose reels		N/A	A fire hose reel system complying with AS
				2441 is to be provided in a building where internal fire hydrants are to be installed. Use of street hydrant is noted
E1D4 and Spec 17&18	Sprinklers		Noted	Not required by proposed works – base building issue
E1D5	Where sprinklers requ	uired	Noted	Not required by proposed works – base building issue
E1D6	Sprinklers: Class 2 &	3 Blds	Noted	Not required by proposed works – base building issue
E1D7	Sprinklers: Class 9c E	Blds	N/A	N/A
E1D8	Sprinklers; Class 6 Bl	ds	N/A	N/A

Item	Description	Status	Comments
E1D9	Sprinklers: Class 7a Blds	N/A	N/A
E1D10	Sprinklers: Class 9a Blds	N/A	N/A
E1D11	Sprinklers: Class 9b Blds	N/A	N/A
E1D12	Sprinklers: Additional	Noted	N/A
	Requirements		
E1D13	Sprinklers: Excessive Hzd	Noted	N/A
E1D14	Portable fire extinguishers	Noted	Not required by proposed works
E1D15	Fire control centres	N/A	N/A
E1D16	Fire precautions during	Noted	Noted
	construction		
E1D17	Provision for special hazards	Noted	Noted
PART E2 SMO	KE HAZARD MANAGEMENT		
E2D1	Deemed-to-Satisfy Provisions	Applies	Estimated Effective Height less than 25m
E2D2	Application of part	Noted	Noted
E2D3	General requirements	Noted	N/A
E2D4	Fire-isolated exits	N/A	N/A
E2D5	effective height: Class 2 and 3 and Class 4 part of a building	Noted	Sole Occupancy Units Install complying AS 3786 interconnected fire alarms within the SOUs, being hardwired to mains 240V power. Base Building Install a compliant AS 1670.1 fire alarm system with external strobe and occupant warning system to the existing non-fire- isolated stairway, except that no monitoring of the system by the Fire Brigade is required <u>Comment</u> Datails to be provided at Construction Stage
E2D6	Buildings more than 25 m in effective height: Class 5, 6, 7b, 8 and 9b buildings	N/A	N/A
E2D7	Buildings more than 25 m in effective height: Class 9a blds	N/A	N/A
E2D8	Buildings not more than 25 m in effective height: Class 2 and 3 and Class 4 part of a blding	N/A	N/A
E2D9	Buildings not more than 25 m in effective height: Class 5, 6, 7b, 8 and 9b buildings	N/A	N/A
E2D10	Buildings not more than 25 m in effective height: large isolated blds subject to C3D4	N/A	N/A
E2D11	Buildings not more than 25 m in effective height: Class 9a and 9c buildings	N/A	N/A
E2D12	Class 7a buildings	N/A	N/A
E2D13	Basements (other than Class 7a	N/A	N/A
	buildings)		
E2D14	Class 6 buildings – in fire compartments more than 2000 m2: not containing an enclosed common walkway or mall serving more than one Class 6 sole- occupancy unit	N/A	N/A
E2D15	Class 6 buildings – in fire compartments more than 2000 m2: containing an enclosed common walkway or mall serving more than one Class 6 sole- occupancy unit	N/A	N/A
E2D16	Class 9b – assembly buildings: nightclubs, discotheques and the like	N/A	N/A
E2D17	Class 9b – assembly buildings: exhibition halls	N/A	N/A
E2D18	Class 9b – assembly buildings: theatres and public halls	N/A	N/A
E2D19	Class 9b – assembly buildings: theatres and public halls (not listed in E2D18) including lecture theatres and cinema/auditorium complexes	N/A	N/A

ltem	Description	Status	Comments
E2D20	Class 9b assembly buildings: other	N/A	N/A
	assembly buildings (not listed in		
	E2D16 to E2D19)		
E2D21	Provision for special hazards	N/A	N/A
PART E3 LIFT IN	STALLATIONS – lift not provided in	buildings – excluded fro	om assessment
PART E4 EME	RGENCY LIGHTING, EXIT SIGNS	S & WARNING SYSTE	MS – base building issue, excluded from
assessment			
SECTION F HE	ALTH & AMENITY		
PART F4 SANI	TARY & OTHER FACILITIES		1
F4D1	Deemed-to-Satisfy Provisions	A "	
F4D2	Facilities in Residential Buildings	Complies	Each SOU in a Class 2 building is required to
			Nave, Kitchon sink and facilities for the
			Richen Sink and facilities for the preparation and cooking of food
			A bath or shower
			A closet pan
			A washbasin
			Laundry facilities
F4D3	Calculation of occupant numbers	N/A	N/A
F4D4	Facilities in Class 3 to 9 Buildings	N/A	N/A
F4D5	Accessible sanitary facilities	N/A	N/A
F4D6	Accessible unisex sanitary	N/A	N/A
F4D7	Compartments	N/A	N/A
F4D8	Construction of sanitary	N/A	N/A
1400	compartments		
F4D11	Waste management	N/A	N/A
F4D12	Accessible adult change facilities	N/A	N/A
PART F5 Roor	n Heights		
F5D1	Deemed-to-Satisfy Provisions		
F5D2	Height of rooms and other spaces	Complies	(a) in a Class 2 or 3 building or Class 4 part of
			a building—
			(i) a kitchen, laundry, or the like — 2.1 m; and
			(ii) a corridor, passageway or the like — 2.1 m;
			and
			(iii) a habitable room excluding a kitchen — 2.4
			m; and
			(iv) in a room or space with a sloping ceiling or
			projections below the ceiling line within—
			(A) a habitable room—
			(aa) in an attic — a height of not less than 2.2
			m for not less than two-thirds of the floor area
			of the room or space; and
			(bb) in other rooms — a height of not less than
			2.4 m for not less than two-thirds of the floor
			area of the room or space: and
			(B) a non-habitable room — a height of not
			less than 2.1 m for not less than two-thirds of
			the floor area of the room or space, and when
			calculating the floor area of a room or space
			any part that has a ceiling height of less than
			1.5 m is not included: and
			(b) in a Class 5, 6, 7 or 8 Building
			(i) excent as allowed in (ii) and (f) 2.4 m
			(1) check as anowed in (1) and $(1) - 2.4$ II,
			(ii) a corridor passagowov or the like 2.1
			(1) a contruor, passayeway, or the like — 2.1
Dart EG Linkt	nd ventilation		III,
Fantro Lighta	Doomod to satisfy Provisions	Notod	I
F6D2	Provision of natural light	Complies	Natural light provided
F6D3	Methods & extend of natural light	Noted	
F6D4	Natural light borrowed from	N/A	N/A
	adjoining room		

Item	Description	Status	Comments
F6D5	Artificial light	Applies	Artificial lighting must be provided in required stairways, passageways, ramps, sanitary compartments, bathrooms, laundries and other spaces used in common by occupants of the building complying with AS1680. <u>Comment</u> Details required to be submitted prior to construction approval stage.
F6D6	Ventilation of rooms	Applies	Ventilation shall be provided throughout the building by means of natural ventilation or mechanical ventilation complying with the requirements of AS1668.2 and AS3666.1. <u>Comment</u> Details required to be submitted prior to construction approval stage.
F6D7	Natural Ventilation	Applies	Openings to be 5% of floor area directly vented to the sky
F6D8	Ventilation borrowed from adjoining room	Applies	N/A
F6D9	Sanitary compartment location	Applies	Compliant
F6D10	Airlocks	Applies	Noted
F6D11	Carparks	N/A	N/A
F6D12	Kitchen local exhaust	N/A	N/A
Part F7 Sound	transmission and insulation		
F7D1	Deemed-to-satisfy Provisions	Noted	N/A
F7D2	Application of Part	Noted	N/A
F7D3	Determination of airborne sound ratings	Applies	Details Required
F7D4	Determination of impact sound ratings	Applies	Details Required
F7D5	Sound insulation rating of floors	Applies	Details Required
F7D6	Sound insulation rating of walls	Applies	Details Required
F7D7	Sound Insulation rating of internal services	Applies	Details Required
F7D8	Sound isolation of Pumps	Applies	Details Required

Legend:

N/A	= Not applicable
Applies	= Applicable for project
Complies	= Compliant
Capable	= Capable of Compliance with design
Non-compliant	= Design does not comply with Deemed-to-Satisfy provisions of BCA

4.3 Proposed Fire Safety Measures

In accordance with the provisions of Clause 78 of the Environmental Planning and Assessment (Development Certification and Fire Safety) Regulation 2021, the following fire safety measures are proposed, being -

Essential Fire and Other Safety Measures	Standard of Performance	Proposed
Automatic fire detection and alarm system	BCA E2D8.2, Spec 20, Clause S20C3, AS1670.1-2018 (fire), AS3786-2014 (stand alone for SOUs)	~
Path of travel	BCA D2D5	\checkmark
Warning and operational signage (e.g., stairway notices)	EP&A Reg 2021 Clause 107 (fire exits), D3D28 (signs on exit doors)	\checkmark

4.5 Emergency Control Procedures

Emergency Control Organisation and Procedures in accordance with Clause 43 of the Work Health & Safety Regulation (2011) and AS 3745:2010 shall be developed and implemented incorporating the following:

- Exit paths are to be kept clear of items that constitute a fire load or impede occupant egress.
- Appropriate signage and management in use measures to prohibit storage on egress path and the use of the Plant Room for storage.
- Identify the procedures to be followed in the event of a fire including emergency evacuation drills.
- The emergency evacuation drills are to be held at least every 12 months.
- Training is to include initial attack on a fire when safe to do so using portable fire extinguishers and/or fire hose reels.
- Occupants who have not been trained to use fire extinguishers and/or fire hose reels should evacuate the building immediately and notify the Fire Brigades.
- Emergency evacuation plans and fire orders are to be prepared and displayed adjacent to each exit comprising the location of fire protection equipment.
- Emergency evacuation and management procedures for persons with disabilities are to be developed, including training to assist persons with disabilities.
- Hot works permits are to be provided including Insurance notification forms.

PART 5 REFERENCE INFORMATION

5.1 Contractual Framework

The design team will be responsible for developing the designs to tender documentation so the Client can obtain market pricing and engage a builder to undertake construction.

5.2 Regulatory Framework

The Construction Team for purposes of assessing an application for a Construction Certificate (CC) for this project have commissioned All State Building Surveying Pty Ltd to identify the BCA DtS compliance issues as identified in Section 4.1 of this Report. The proposed plans should be amended, or additional information should be returned to the All State Building Surveying Pty Ltd to determine whether this Report will show how the proposed new building is to comply with the provisions of the BCA.

5.3 Reference Legislation

This assessment is based on the following reference legislation:

- a) NSW Environmental Planning and Assessment Act, 1979 As Amended.
- b) NSW Environmental Planning and Assessment Regulation, 2021.
- c) NSW Environmental Planning and Assessment(Development Certification & Fire Safety) Regulation, 2021.
- d) Building Code of Australia 2022 Amt 1, Australian Building Codes Board, 2022.

5.4 Reference Codes & Guidelines

This assessment is based on the following reference codes and guidelines:

- a) International Fire Engineering Guidelines, Australian Building Code Board, 2005.
- b) Guide to the BCA, Australian Building Codes Board, 2022.

5.5 Documents Considered

This assessment is based on the following documentation:

a) Architectural drawings by Hobbs Jamieson Architecture, Job No. 24/003, Marked Preliminary and undated as per Table 5-1.

Table 5-1 – Architectural	Drawings
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Drawing No.	Title	Date/Issue
DA00	Cover Page	Undated – Preliminary
DA01	Basix Certificate	Undated – Preliminary
DA02	Site Analysis	Undated – Preliminary
DA03	Demolition Unit 4 Floor Plan	Undated – Preliminary
DA04	Demolition Unit 7 Floor Plan	Undated – Preliminary
DA05	Demolition Attic/Roof Plan	Undated – Preliminary
DA06	Proposed Site Plan	Undated – Preliminary
DA07	Proposed Unit 4 Floor Plan	Undated – Preliminary
DA08	Proposed Unit 7 Floor Plan	Undated – Preliminary
DA09	Proposed Attic Floor Plan	Undated – Preliminary
DA10	Proposed Roof Plan	Undated – Preliminary
DA11	Proposed South Elevation	Undated – Preliminary
DA12	Proposed North Elevation	Undated – Preliminary
DA13	Proposed East Elevation	Undated – Preliminary
DA14	Proposed West Elevation	Undated – Preliminary
DA15	Proposed Section A-A	Undated – Preliminary
DA20	Proposed External Finishes - Front	Undated – Preliminary

PART 6 CONCLUSIONS

6.1 General Conclusions

This report is prepared in preparation of a Development Application (DA) lodgement and is for assessment purposes, it comprises a Building Code of Australia (BCA) assessment of the proposed alterations to the existing strata units U4 & U7 and is subject to Clauses 64 & 69 of the Environmental Planning and Assessment Regulation 2021.

The existing building is situated on land at 1a Greycliffe Street, Queenscliff NSW 2096 and is a block of strata residential units.

In considering the requirements of the BCA for the purposes of the proposed additions, consideration is required of Clauses 64 and 69 of the Environmental Planning and Assessment Regulation 2021, wherein the following applies –

- Clause 64 Consent authority may require upgrade of buildings. This clause requires the whole of the building to comply with the BCA if over the previous 3 years building works represents 50% or more of the total volume of the building.
- Clause 69 Compliance with the Building Code of Australia. This clause requires building works must be carried out in accordance with the requirements of the Building Code of Australia.

Having regard to the proposed building works compliance issues of compliance with the BCA will only relate to the proposed new building works to U4 & U7, and not the whole building. Further, it should be noted that the proposed building works do not represent an increase in the total volume of the existing building by 50%.

The overall fire safety strategy for this building is based on the application of the Environmental Planning & Assessment Regulation 2021 and the fire safety measures arising from compliance with BCA DtS Provisions and other additional requirements resulting from assessing the BCA DtS. The following table details to proposed buildings compliance with the BCA in Section 4.2 of this report.

Based on the Building code assessment presented in this report, it is our considered opinion that, the proposed additions to the existing residential flat building are capable of satisfying the BCA Performance Requirements, subject to the provision of the request detail for varication and compliance Architectural plan.

PART 7 VALIDITY & LIMITATIONS

The reader's attention is drawn to the following limitations concerning the fire engineering assessment undertaken in this report:

- a. This report is provided under the All State Building Surveying Pty Ltd (hereafter referred to as ASBS") Fee Proposal and Agreement for the provision of Building Code of Australia Assessment Services executed between ASBS and the Client on the subject project. No obligation in contract exists between ASBS and any other party.
- b. The report is limited to the assessment of BCA DtS variations identified in Section 4.1 of this report for compliance with relevant BCA Performance Requirements.
- c. This assessment is not a full compliance or conformance audit for any fire safety system. Therefore, operational checks of fire safety equipment, verification of construction techniques, fire resistance levels or the witnessing of fire drills or exercises are specifically excluded from the scope of this assessment. The operational status of systems, items of equipment and staff training should be addressed as part of the inspection, commissioning, enforcement, maintenance, testing, training and management procedures for the building.
- d. This assessment will be consistent with the objectives and limitations of the BCA and therefore specifically excludes arson (other than as a source of initial ignition), multiple ignition sources, acts of terrorism, protection of property (other than adjoining property), business interruption or losses, personal or moral obligations of the owner/occupier, reputation, environmental impacts, broader community issues etc.
- e. Arson has been shown statistically to contribute to fire. This report has addressed the incidence of minor forms of arson as a single ignition source. However major arson involving accelerants and/or multiple ignition sources are beyond the scope of this assessment and have been excluded.
- f. Egress and fire safety provisions for persons with disabilities have only been considered to the same degree as the BCA DtS Provisions.
- g. Reports marked 'Draft' are subject to change and ASBS accepts no liability pending release of the final version of the report.
- h. The design concepts outlined in this report are for a complete and operational building and do not address protection of the building during construction, renovation or demolition.
- i. Any change in building, occupant or fuel conditions from those considered in this report, or any deviation from the implementation of the fire safety strategy outlined in this brief, may result in outcomes not anticipated by the proposed strategy and should be reviewed.
- j. Evaluation of the expected level of fire induced property damage with respect to the contents and building structure is specifically excluded.
- k. The recommendations in this assessment are based on information provided by others. Lote has not verified the accuracy and/or completeness of this information and accepts no responsibility or liability for any errors or omissions which may be incorporated into this assessment as a result.
- It is considered that the scope of works arising from this report and limitations of this report are read, understood and implemented. ASBS shall be contacted in relation to any queries on the report content and takes no responsibility for misinterpretation of the report content by others.
- m. The recommendations, data and methodology documented in this assessment are based on the documentation in Section 4.0 and specifically apply to the subject

building / project and must not be utilised for any other purpose. Any modifications or changes to the building, fire safety management system, or building usage from that described may invalidate the findings of this assessment necessitating a reassessment. No warranty is intended or implied for use by any other third party and no responsibility is undertaken to any other third party for material contained herein.

Report prepared by Sean O'Brien MAIBS AIBS National Registered Building Surveyor.

Disclaimer: It is noted that this Building Code of Australia Report does not constitute a Part 4A Compliance Certificate under the NSW Environmental Planning and Assessment Act (1979).