Fire Safety Certificate

Approved under the Environmental Planning and Assessment Regulation 2000.

Version 2.0 Effective from 1 December

How to complete this form

1. Please print in CAPITAL LETTERS
2. Please complete all relevant sections in full

Section 1: Type of certificate

This is (mark applicable box)

☒ a final fire safety certificate (complete the declaration at Section 6 of this form)

☐ an interim fire safety certificate (complete the declaration at Section 7 of this form)

Section 2: Building the subject of this certificate

Street No.	Street Name	Suburb	Postcode
22	Hospital Road	Bulli	2516

Lot No (if known)	DP/SP (if known)	Building Name (if applicable)
		Bulli Hospital and Aged Care Centre.

This certificate applies to (mark applicable box)

☒ the whole building

☐ part of the building

Section 3: Description of building or part the subject of this certificate

Storeys above ground in the building (No.)	Storeys below ground in the building (No.)
4	0

If this certificate relates to a part of the building – describe that part and its location in the building

Uses of building or part the subject to this certificate (e.g. retail, offices, residential, assembly, car parking)

Bulli Hospital and Aged Care

Section 4: Name and address of the owner of the building or part

Title	Given Name/s	Family Name
	Health Administartion Corporation	

Street No.	Street Name	Suburb	Postcode
	IPO Box 1060	North Sydney NSW	2060

NSW GOVERNMENT

Section 5: Fire Safety Measures

1. All essential fire safety measures for the building must be listed for a final fire safety certificate
2. All essential fire safety measures for the relevant part of the building must be listed for an interim fire safety certificate

Fire Safety Measure	Status*	Date**	Minimum Standard of Performance
Access panels, doors and hoppers to fire restisting shafts	N	25/09/19	BCA2016 Clause C3.13 and AS 1530.4-2005
Alarm monitoring and building occupant warning system	N/A		BCA 2016 Specification E2.2a Clause 6 and Clause 7.
Automatic fail safe devices	N	21/10/19	Scheduled devices release upon trip of smoke detection, fire detection and sprinkler activation in accordance with BCA2014 clauses D2.19(b) and D2.21 (d) and/or AS 1670.1
Automatic fire detection and alarm system *(smoke detection system to automatically shutdown air-handling system)*	N	21/10/19	BCA2016 Clause 5 and 7 of Specification E2.2a and AS/NZS 1668.1 – 2015 (System monitoring in accordance with AS1670.3-2004)

Automatic fire detection and alarm system *(smoke detection system)*	N	21/10/19	BCA2016 Specification E2.2a and AS 1670.1 – 2015 (note Class 9a also requires manual call points, Class 9c requires manual call points and mimic panels) (System monitoring in accordance with AS1670.3-2004)
			Fire Engineering Report REV Report Number: 62099_Bulli HAACC_FER_11 dated 16 September 2019 prepared by Affinity Fire Engineering
			
			An automatic smoke detection and alarm system must be installed throughout the building in accordance with the prescriptive DtS provisions with the following additional fire safety measures: -
			• The AS1670.1 smoke detection system installed throughout shall have a reduced spacing of 6m x 6m in lieu of the DtS required 10m x 10m spacing.
			  ○ Where a room is too small for a grid (i.e. where only 1 detector is required), the detection is to be installed as per the requirements of AS1670.1 within the room.
			Class 9a Health Care
			• A strobe light and sounder connected to the FIP is to be installed externally on the northern, southern courtyard on Level 1 and north-east terrace on Level 2 at a height of 2m to 2.7m above FFL.
			  ○ The strobe light shall be visible from all areas within the courtyard and terrace.

Automatic fire detection and alarm system *(stair pressurisation system)*	N	21/10/19	BCA2016 Clause 5 of Specification E2.2a and AS/NZS 1668.1 – 1998 and AS 1670.1 – 2015
Automatic fire suppression systems *(Combined sprinkler and hydrant system)*	N	21/10/19	BCA2016 Specification E1.5, AS2118.1-1999 and AS 2118.6 – 2012. Fire Engineering Report REV Report Number: 62099_Bulli HAACC_FER_11 dated 16 September 2019 prepared by Affinity Fire Engineering
Emergency Lifts	N	01/11/19	BCA2016 Clause E3.4 & E3.8

Fire Safety Measure	Status*	Date**	Minimum Standard of Performance
Emergency lighting	N	21/10/19	BCA2016 Clause E4.2, E4.4 and AS 2293.1 – 2005
Exit signs	N	21/10/19	BCA2016 Clause E4.5, NSW E4.6, E4.7, E4.8 and AS 2293.1 – 2005
Fire dampers	N	18/10/19	BCA2016 Clause C3.15 and AS/NZS 1668.1 – 2015 (AS 1682.1-1990 and AS 1682.2-1990)
Fire doors	N	13//11/19	BCA2016 Specification C3.4 and AS 1905.1 – 2015
Fire hydrant system	N	18//10/19	BCA2016 Clause E1.3 and AS 2419.1 – 2005, AS2118.6-2012 Fire Engineering Report REV Report Number: 62099_Bulli HAACC_FER_11 dated 16 September 2019 prepared by Affinity Fire Engineering
Fire seals protecting openings in fire resisting components of the building- Joints, gaps and miscellaneous penetrations	N	25//09/19	BCA2016 Clause C3.15 and AS 1530.4-2005 and AS 4072.1-2005 and installed in accordance with the tested prototype.
Fire seals protecting openings in fire resisting components of the building- Electrical penetrations	N	25//09/19	BCA2016 Clause C3.15 and AS 1530.4-2005 and AS 4072.1-2005 and installed in accordance with the tested prototype.
Fire seals protecting openings in fire resisting components of the building- Plumbing and penetrations	N	21/10/19	BCA2016 Clause C3.15 and AS 1530.4-2005 and AS 4072.1 -2005 and installed in accordance with the tested prototype.
Hose reel systems	N	18/10/19	BCA2016 Clause E1.4 and AS 2441 – 2005
Fire/smoke compartmentation and separation - Lightweight construction (fire rated)	N	25/09/19	BCA2016 Specifications C1.8, C2.2, C2.5, C2.7 Specification C1.1, C1.8, C2.5 and A2.3 and AS 1530.4-2005. Fire Engineering Report REV Report Number: 62099_Bulli HAACC_FER_11 dated 16 September 2019 prepared by Affinity Fire Engineering
Mechanical air handling system *(air-handling system design to operate as a smoke control system)*	N	18/10/19	BCA2016 Clause E2.2 and AS/NZ 1668.1-2015
Mechanical air handling system *(automatic air pressurisation system)*	N	18/10/19	BCA2016 Clause E2.2 and AS/NZ 1668.1-2015
Mechanical air handling system *(automatic shut down of air-handling system)*	N	18/10/19	BCA2016 Clause E2.2 and AS/NZ 1668.1-2015
Portable fire extinguishers	N	21/10/19	BCA2016 Clause E1.6 and AS 2444 – 2001
Smoke Dampers	N	18/10/19	AS/NZS 1668.1 – 2015 (AS 1682.1-1990 and AS 1682.2-1990)
Smoke doors	N	13/11/19	BCA2016 Specifications C2.5
Smoke detectors and heat detectors *(detectors for the automatic closing operation of fire doors in fire walls)*	N	21/10/19	BCA2016 Clause C3.5 and AS 1670.1 – 2015
Smoke detectors and heat detectors *(detectors for the automatic closing operation of fire doors to fire isolated exits)*	N	21/10/19	BCA2016 Clause C3.8 and AS 1670.1 – 2015
Smoke detectors and heat detectors *(detectors for the automatic closing operation of horizontal exits)*	N	21/10/19	BCA2016 Clause C3.7 and AS 1670.1 – 2015
Smoke detectors and heat detectors *(detectors for the automatic closing operation of smoke doors)*	N	21/10/19	BCA2016 Specification C3.4 and AS 1670.1 – 2015

Fire Safety Measure	Status*	Date**	Minimum Standard of Performance
Sound Systems and Intercom Systems for Emergency Purposes	N	21/10/19	BCA2016 Clause E4.9, Specification G3.8 and AS1670.4-2015
Wall wetting sprinkler and drencher systems	N	21/10/19	BCA2016 Clause C3.4 and AS2118.1-1999. Fire Engineering Report REV Report Number: 62099_Bulli HAACC_FER_11 dated 16 September 2019 prepared by Affinity Fire Engineering **General Requirements** • Drenchers shall be installed on both sides of the opening/sliding door and glazing not forming part of the sliding door. • The drenchers must be designed to operate simultaneously (i.e. pressure and flows) with sprinkler and hydrant system in that fire compartment. • The drenchers shall have a flow switch to activate the occupant warning system. • A dedicated isolated valve is to be provided for the drenchers. • The glazing/sliding door must have a minimum thickness of 6 mm toughened glass and consist of non-combustible frames and no horizontal transoms or mullions. • The sliding door which serves the waiting area on Ground Floor shall have a water supply at the specified flow rate and pressure in accordance with either AS2118.1:1999 or AS2118.2:2010, for a period of no less than 120 minutes. • The openings separating the loading dock (Class 7b) and the office areas of the health care contains shall have a water supply at the specified flow rate and pressure in accordance with either AS2118.1:1999 or AS2118.2:2010, for a period of no less than 240 minutes.
Warning and operational signs	N	23/10/19	BCA2016 Clauses D2.23, D3.6, E3.3, E3.9 and E3.10 Fire Engineering Report REV Report Number: 62099_Bulli HAACC_FER_11 dated 16 September 2019 prepared by Affinity Fire Engineering
Fire resisting construction	N	25/09/19	Fire Engineering Report REV Report Number: 62099_Bulli HAACC_FER_11 dated 16 September 2019 prepared by Affinity Fire Engineering The building is required to be of fire-resisting construction in accordance with the DTS provisions with the following exception permitted:- • In Type A construction areas where it is considered to have a rise in storey not exceeding three (3), the internal columns and internal walls in the storey immediately below the roof [other than those referred to in BCA Specification C1.1 Clause 3.1 (f), fire walls and shaft walls] will not achieve an FRL. As part of the Performance Solution:- • The structural design of the roof structure is to be designed as separate and independent structures on each side of the firewalls that separate the buildings and Type of construction. There must

Fire Safety Measure	Status*	Date**	Minimum Standard of Performance
	N	25/09/19	not be any members passing through these firewall. • The building structure must be designed such that if the roof does collapse on the areas considered to be three storey (when viewed in isolation), it must be capable of withstanding the additional loads and does not result in catastrophic collapse of the building. • A fire rated separating wall (partially internal and external) achieving an FRL 120/120/120 (if load-bearing)or FRL --/120/120 (if non-load-bearing) is required to be constructed on the south and east external walls of the plant area on Level 3. The fire rated wall shall extend to the underside of the louvers externally and the roof covering where adjoining another part. o Refer to Figure L and M for the location of the fire-rated separating wall. • A 120/120/120 FRL fire-rated ceiling is required to be provided to the Level 3 part adjacent to the egress corridor to Stair 2. o Refer to Figure L, M and N for the location of the fire-rated separating wall.
Steel cleat penetration through Firewalls	N	25/09/19	Fire Engineering Report REV Report Number: 62099_Bulli HAACC_FER_11 dated 16 September 2019 prepared by Affinity Fire Engineering Penetrations through firewalls shall be sealed and constructed in accordance with the prescriptive requirements with exception of the following:- • Steel cleats on Level 3 passes through the lightweight fire rated construction (Refer to Figure O) that forms the firewalls between o Fire Compartment K4 and Fire Compartment H. o Fire Compartment H and Comm-FD room. o Fire Compartment K4 and Fire Compartment J. As part of the Performance Solution; • The steel roof structure must be designed per the structural advice in Appendix F. This includes; o No roof member is to continue through the firewall. Each member is to stop and connect to the structural column that is located within the firewall via a welded cleat connection that penetrates the wall. o The cleat connections and penetrating members are to be fire rated through the application of a Promat branded spray cementitious product for a distance of 300mm to achieve a 120/120/120 FRL from the face of the firewall. o The fire rated works must be completed in accordance with the Promat's installation recommendations and the certification requirements as documented in 'FAR 3284 Coatback of Unprotected Steel Beams Connected to Protected Steel Columns' dated 27th January 2009.

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			○ The firewalls must have a minimum cavity thickness of 92mm.
Smoke Compartmentation	N	25/09/19	Fire Engineering Report REV Report Number: 62099_Bulli HAACC_FER_11 dated 16 September 2019 prepared by Affinity Fire Engineering Smoke compartmentation within the building are to be in accordance with the DTS provisions with the following exceptions:- **Class 9a Health Care** • The northern smoke compartment on Level 1 has a maximum smoke compartment size of 552m^2 (in lieu of 500m^2). • The northern smoke compartment on Level 2 has a maximum smoke compartment size of 511m^2 (in lieu of 500m^2).
Separation of firewalls	N	25/09/19	Fire Engineering Report REV Report Number: 62099_Bulli HAACC_FER_11 dated 16 September 2019 prepared by Affinity Fire Engineering Openings in a firewall must not reduce the FRL required by Specification C1.1 for the firewall with the following exception:- **Class 9a Health Care** • The common firewall separating the loading dock (Class 7b) and the office areas of the health care contains windows which are protected with drenchers on both sides however does not prescriptively achieve an FRL of --/240/240. Thelocation of the drenchers is illustrated in Figure D. As part of the Performance Solution:- • The glazing between loading dock and aged care area must be fixed in place and shall have no openable areas. • Drenchers shall be installed on both sides of the glazing. Refer to specification detailed under “Drenchers”.
Separation of Openings in Different Fire Compartments	N	25/09/19	Fire Engineering Report REV Report Number: 62099_Bulli HAACC_FER_11 dated 16 September 2019 prepared by Affinity Fire Engineering Openings in external walls of different fire compartments/buildings are to be protected in accordance with the DTS provisions with the following exceptions (as illustrated in Figure F to Figure J):- **Level 1** • Fire Compartment D/K2 ○ Any door within the FRL construction must achieve an FRL of --/120/30 and be provided with a self-closing mechanism. • Fire Compartment E/K2 **Level 2** • Fire Compartment G/K3 • Fire Compartment F/K3 • Fire Compartment G/M ○ Fire rating requirements have since been changed to reflect location of new fire

Fire Safety Measure	Status*	Date**	Minimum Standard of Performance
			compartment line. Refer to Figure H for additional information. **Level 3** • Fire Compartment J/K4 • Fire Compartment H/K4 • Fire Compartment H/Q ○ Fire rating requirements have since been changed to reflect location of new fire compartment line. Refer to Figure J for additional information. As part of the Performance Solution an FRL of 120/120/120 shall be achieved on one of the external walls while the adjacent external wall is not required any protection or fire rating. Refer to Figure F to Figure J for details in regards to fire rating.
Doorways in firewalls	N	21/10/19	Fire Engineering Report REV Report Number: 62099_Bulli HAACC_FER_11 dated 16 September 2019 prepared by Affinity Fire Engineering Doorways in a firewall must comply with BCA Clause C3.5 with the following exception:- **Class 9a Health Care** • The sliding door which serves the waiting area on Ground Floor is drencher protected on both sides and does not prescriptively achieve an FRL of -- /120/30. As part of the Performance Solution:- • The glazing not forming part of the sliding door must be fixed in place. • The sliding door must be self-closing or automatic closing upon general fire alarm on this level. • The adjacent sliding door not located within the fire wall (which serves the consultation areas) shall default to the open position upon general fire alarm on this level and is considered to be DtS compliant. Refer to Figure B. • Drenchers shall be installed on both sides of the sliding door and glazing not forming part of the sliding door that is located in the firewall. Refer to specification detailed under “Drenchers”.
Travel via fire isolated exits	N	13/11/19	Fire Engineering Report REV Report Number: 62099_Bulli HAACC_FER_11 dated 16 September 2019 prepared by Affinity Fire Engineering Required fire-isolated exits must discharge directly, or by way of a fire isolated passageway, to a road or open space with the following exception permitted:- **Class 9a Health Care** • Fire stair 9.006 (Stair 2) discharges into an under croft which is not open at least 1/3 of its perimeter (~13% open). As part of the Performance Solution:- • A management in use plan shall be implemented to ensure that no fuel loads are located within the under croft. • Restrictions on combustible items in under croft shall be listed as an Essential Fire Safety Measure on the Fire Safety Schedule. • Signage will be included in the under croft to this effect, with text in capital lettering, no less than

Fire Safety Measure	Status*	Date**	Minimum Standard of Performance
			40mm in height and with a contrasting background. <u>FIRE SAFETY REQUIREMENT</u> NO COMBUSTIBLE ITEMS BE STORED IN THIS AREA

Non-required non-fire isolated stair	N	13/11/19	Fire Engineering Report REV Report Number: 62099_Bulli HAACC_FER_11 dated 16 September 2019 prepared by Affinity Fire Engineering
			
			All non-required non-fire-isolated stair must comply with BCA Clause D1.12 with the following exception:-
			Class 9a Health Care
			• The building design incorporates a central non-required non-fire isolated stair that connects four storeys.
			As part of the Performance Solution:-
			• Emergency management procedures and way-finding signage shall be implemented to direct occupants away from the non-required non-fire isolated stair during an evacuation.
			• The area surrounding the non-required non-fire isolated stair to be fire/smoke separated from the remainder of the building with an FRL of 120/120/120.
			• Fire compartment K shall be a sterile space and have limited furnishing. Furnishing will be limited to several tables and chairs and no ignition sources are to be present. This restriction shall be implemented by a management in use plan.
			• The stair is to be fire separated on Ground Floor.
			  ○ This includes a fire-rated smoke curtain FRL --/120/-- FRL that fail-safe closes on fire trip.
			  ○ An egress door is to be provided at Ground Floor allowing occupants to egress out of the stair. The door is to be fire-rated with FRL --/120/30 and shall incorporate a vision panel. This is illustrated in Figure A.
			• To ensure the fire-rated smoke curtain fully descends to the floor, directly under the curtains' footprint must remain free of all objects that may hinder or obstruct the curtain. This can be achieved either with:-
			  ○ A management in use plan.
			  ○ A piezoelectric alarm and sensor shall be installed at the bottom run of the fire curtain, which shall activate a local alarm when any obstruction is detected for more than 30 seconds.
			  ○ Permanent delineation on the flooring and warning signs to notify occupants.
			• Warning signs shall be provided to alert occupants of the curtain's function and use. Signage will be included to this effect of Figure C.

Horizontal Exits	N	13/11/19	Fire Engineering Report REV Report Number: 62099_Bulli HAACC_FER_11 dated 16 September 2019 prepared by Affinity Fire Engineering All horizontal exit must comply with BCA Clause D1.11 with the following exception:- • All exits doors serving the following fire compartments are considered horizontal exits

Fire Safety Measure	Status*	Date**	Minimum Standard of Performance
			from the adjacent compartments. Hence, do not comply with the DtS requirements as occupants discharging from these compartments are not provided with at least one exit which is not classified as a horizontal exit. **Level 1** • Fire Compartment K2 **Level 2** • Fire Compartment G & K3 **Level 3** • Fire Compartment H & K4 As part of the Performance Solution, fire compartment K1/K2/K3/K4 shall be a sterile space and have limited furnishing. Furnishing will be limited to tables and chairs and no ignition sources are to be present. This restriction shall be mplemented and detailed within a management in use plan.

Door Swings	N	13/11/19	Fire Engineering Report REV Report Number: 62099_Bulli HAACC_FER_11 dated 16 September 2019 prepared by Affinity Fire Engineering
			
			All doors must swing in the direction of egress where required by the BCA Provisions, with the exception of the non-compliant mechanical door on Ground Floor leading into the consultation area. Refer to Figure P.
			As part of the Performance Solution, the following fire safety measures are required:
			Push Button
			A push button must be installed on both sides of the swinging doors for operation.
			• The button shall be 25mm, green in colour and proud of the surrounding surface.
			  ○ At a height between 900mm and 1.2m from the floor.
			  ○ Between 1 and 2m from the door leaf and allowing operation while a bed is being transported.
			  ○ Have compliant exit signage above the exit button.
			  ○ Have braille and tactile signage in accordance with BCA 2019 Clause 3 and 6 of Specification D3.6.
			Battery Backup
			A battery backup is required to be installed to the swing doors to allow operation during a power outage. The battery must have the following specifications:
			• Be able to operate the door (open and close) no less than 100 times on a single charge;
			• A standby time of 48 hours;
			• Be attached to a localised piezo alarm that will activate a local sounder when battery falls under operable charge.
			Door Signage
			Signage is to be installed on both sides of the non-compliant door at a height of 900-1200mm with lettering height no less than 20mm on a contrasting background, stating:

Fire Safety Measure	Status*	Date**	Minimum Standard of Performance
			AUTOMATIC DOOR **PUSH BUTTON TO OPERATE**
Automatic Fire Curtain	N	10/10/19	Fire Engineering Report REV Report Number: 62099_Bulli HAACC_FER_11 dated 16 September 2019 prepared by Affinity Fire Engineering
Building Management Plan	N	13/11/19	Fire Engineering Report REV Report Number: 62099_Bulli HAACC_FER_11 dated 16 September 2019 prepared by Affinity Fire Engineering Building management must develop a plan that ensures the following measures and strategies are upheld. These requirements shall also be listed on the Annual Fire Safety Schedule to ensure ongoing compliance • Ensure that no fuel loads are located within the under croft for Fire stair 9.006 (Stair 2). • Fire compartment K shall be a sterile space and have limited furnishing. Furnishing will be limited to tables and chairs and no ignition sources are to be present. This restriction shall be implemented and detailed within a management in use plan. • A management in use plan, permanent delineation on the flooring and warning signs to notify occupants of the clear zone to be provided around the fire curtain.
Performance Solution: • Exit Travel distance • Alternative travel distance	N	13/11/19	Fire Engineering Report REV Report Number: 62099_Bulli HAACC_FER_11 dated 16 September 2019 prepared by Affinity Fire Engineering

Notes

* Indicate whether the measure is new (N), existing (E) or modified (M)

** Date (DD-MM-YYYY) measure was assessed by a properly qualified person

A fire safety certificate must generally deal with all essential fire safety measures in the current fire safety schedule for the building. However, the certificate need not deal with any measure the subject of other fire safety certificates or fire safety statements issued within the previous 6 months. The assessment of a measure must have been carried out within 3 months prior to the date on which this fire safety certificate is issued.

Section 6: Final fire safety certificate declaration

I, Click here (Insert full name)

Being the (mark applicable box) ☐ Owner

☒ Owner's agent

Certify that each essential fire safety measure specified in this certificate:

a) Has been assessed by a properly qualified person, and

b) Was found, when it was assessed, to be capable of performing to at least the standard required by the current fire safety schedule for the building for which this certificate is issued.

Owner / Agent Name	Owner / Agent Signature	Date
Ben Lynam		12/11/19

Section 7: Interim fire safety certificate declaration

I, Click here (insert full name)

being the (mark applicable box) ☐ Owner

☐ Owner's agent

certify that each essential fire safety measure specified in this certificate:

a) Has been assessed by a properly qualified person, and

b) Was found, when it was assessed, to be capable of performing to at least the standard required by the current fire safety schedule for the building for which this certificate is issued.

Owner / Agent Name	Owner / Agent Signature	Date

Section 8: Owner's authorisation

(To be completed where an agent makes the declaration in Section 6 or Section 7 of this form)
I, being the owner, authorise the agent named in Section 6 or Section 7 to act on my behalf to make the declaration.

Signed for and behalf of Health Administration Corporation ABN 45 100 538 161:

Owner / Agent Name	Owner / Agent Signature	Date
Greg Barlow		12/11/19

Section 9: Contact details of person issuing this certificate

Title	Given Name/s	Family Name
Mr	Ben	Lynam

Phone	Email
0412 830 988	lynamb@richardcrookes.com.au

Section 10: Fire safety schedule

A current fire safety schedule for the building must be attached to this certificate.