



## BCA COMPLETION CERTIFICATE

<b>CERTIFICATE No.:</b>	BCAC-20003
<b>SUBJECT LAND:</b> Lot & DP Address	Lot 1 DP 830420 3B Smalls Road Ryde NSW 2112
<b>APPLICANT:</b> Name Company Address  Phone	Tim Shand Schools Infrastructure NSW Level 8, 259 George Street Sydney NSW 2000  Mobile: 0448 534 873 Email: <a href="mailto:Tim.Shand1@det.nsw.edu.au">Tim.Shand1@det.nsw.edu.au</a>
<b>OWNER:</b> Name Address  Phone	NSW Department of Education Level 8, 259 George Street Sydney NSW 2000  Phone: 02 8275 2227
<b>DESCRIPTION OF DEVELOPMENT:</b>	Construction of a new three (3) storey educational building containing: staff offices, staff room and amenities, library, communal hall, canteen, OOSH, Sport & PE store, new external on-grade carpark, student Homebase (classrooms) and COLA.
<b>WHOLE / PART:</b> <i>Description of part (where applicable):</i>	Whole
<b>BCA CLASSIFICATION:</b>	Class 5 & 9b
<b>PLANNING APPROVAL:</b> REF No.: Date of Determination	SSD 8372 02 November 2018
<b>CROWN CERTIFICATION:</b> S.109R Crown Certificate & Date of Determination	CRO-18074 dated 12 December 2018 CRO-18074/A dated 10 January 2020
<b>STATEMENT:</b> <i>Blackett Maguire + Goldsmith Pty Ltd (ABC4) certify that the building works as detailed above is suitable for occupation or use in accordance with its classification under the Building Code of Australia, and:</i> <ul style="list-style-type: none"><li>+ Certification has been issued under the provisions of S109R of the EP&amp;A Act, 1979 and BCA 2016 with respect to the building works.</li><li>+ Verification for completion of the works is reliant on the documentation detailed in Schedule 1.</li></ul>	
<b>DOCUMENTATION RELIED UPON:</b>	As listed in Schedule 1
<b>EXCLUSIONS (WHERE RELEVANT):</b>	As listed in Schedule 2
<b>DETAILS OF ACCREDITED CERTIFIER:</b>  SIGNATURE  Name Accreditation No.	 Brian Maguire NSW BPB0241
	Date: 17 January 2020



## SCHEDULE 1

### SCHEDULE OF DOCUMENTATION RELIED UPON

ITEM	DOCUMENTATION	PREPARED BY	DATE
1.	Application Form	School Infrastructure NSW	14 January 2020
2.	Electrical Installation Certificate	NOS Group	12 December 2019
3.	Mechanical Services Installation Certificate	ACES	11 December 2018
4.	Fire Alarm Monitoring Compliance Certificate	GRID Romteck	11 December 2019
5.	Fire Hydrant Commissioning Report	Aline Group	12 November 2019
6.	Fire Pumps Commissioning Report	Aline Group	12 November 2019
7.	Fire Detection & Alarm System Commissioning Report	Empire Essential Services	27 November 2019
8.	Detection & Alarm Installation Certificate	Empire Essential Services	11 December 2019
9.	Energy Efficiency Compliance Certificate	Certified Energy	14 November 2019
10.	Lift Installation Certificate	Hamilton Elevators	14 October 2019
11.	Section 73 Certificate	Sydney Water	10 May 2019
12.	Building Plan Approval	Sydney Water	28 May 2019
13.	Identification Survey Report	TSS Total Surveying Solutions	10 December 2019
14.	Glass Skylights Compliance Certificate	Skyspan Australia	18 December 2019
15.	Glazing & Assemblies Compliance Certificate	Distinct Aluminium Solutions	13 November 2019
16.	Frameless Glass Balustrade Compliance Certificate	Eskander Partners Consulting Engineers	20 August 2019
17.	Glass & Toughened Installation Certificate	Linea Interiors	12 November 2019
18.	Waterproofing Installation Certificate	ABC Boral Tiling & Polishing	11 November 2019
19.	External Waterproofing Installation Certificate	AWP Waterproofing Contractor	19 December 2019
20.	Fire Compartmentation Installation Certificate	Richard Crookes Constructions	9 December 2019
21.	Certification of Pendulum Tests	Richard Crookes Constructions	18 December 2019
22.	Slip Test no. R20037 – Sealed Timber Floor Boards Hall C	Safe Environments	6 December 2019
23.	Slip Resistance Inspection no. R20037L	Safe Environments	10 December 2019
24.	Wet Slip Test – Internal Classroom K-6 [Grey Vinyl]	Slip Assessment Services	12 August 2019
25.	Wet Slip Test – Internal Classroom K-6 [Green Vinyl]	Slip Assessment Services	12 August 2019
26.	Wet Slip Test – Special Program Class [RFV2 Vinyl]	Slip Assessment Services	17 December 2019
27.	Dry Slip Test – Special Program Class [RFV2 Vinyl]	Slip Assessment Services	17 December 2019
28.	Slip Test no. R19760-1 – Concrete Walkways/Balconies	Safe Environments	6 November 2019
29.	Wet Slip Test – Int. L1 Bathroom: Toilet/Shower [Ceramic Tiles section]	Slip Assessment Services	12 August 2019
30.	Certificate of Installed Systems	Proactive Safety	November 2019
31.	Metal Roof & Wall Waterproofing Installation Certificate	Combined Roofing Solutions	18 November 2019
32.	External Wall System Disclosure Statement	Bright Ceiling	6 January 2019
33.	Stormwater Operation & Management Plan	SCP Engineers & Development Consultants	3 December 2019
34.	WAE Rainwater Re-use Plan	TSS Total Surveying Solutions	29 November 2019
35.	Operational Waste Management Plan	TTM Consulting	6 December 2019
36.	Demolition & Construction Waste Management Plan	TTM Consulting	6 December 2019
37.	WMP Evidence of Submission to Planning Secretary	NSW Department of Education	9 December 2019
38.	Landscape Management Plan	Landscape Solutions	2019
39.	RMS Submission	Various	2019
40.	Fire Engineering Inspection Letter	Wood & Grieve Engineers	7 January 2020
41.	WAE – Atrium Ramp Grade	TSS Total Surveying Solutions	15 January 2020



ITEM	DOCUMENTATION	PREPARED BY	DATE
42.	Lift 1 Registration Form	Minister of Education & Training	26 November 2019
43.	Lift 2 Registration Form	Minister of Education & Training	26 November 2019
44.	Hydraulic Installation Certificate	Commodore Plumbing NSW	15 January 2020
45.	Letter Notification to DOPE of scheduled Occupation	Schools Infrastructure NSW	10 December 2019
46.	Civil Construction Compliance	SCP Consulting	15 January 2020
47.	Fire Safety Certificate	Richard Crookes Construction	9 January 2020
48.	Head Contractor Compliance Statement	Richard Crookes Construction	18 December 2019
49.	Structural Certification	Barnson	30 August 2019
50.	Concrete Test Report	Hanson	12 February 2019
51.	Flooring Design & Installation Certificate	Ultra-Floor Aust.	15 November 2019
52.	Floor & Wall Linings Installation Certificate	Richard Crookes Construction	16 January 2020
53.	Piling Installation Certificate	ACE Demolition & Excavation	16 December 2018
54.	Hose Reel Commissioning Report	Aline	12 November 2019
55.	Fire Safety Measure Installation Certificate – Electrical Services	NOS Group	17 December 2019
56.	Fire Safety Measure Installation Certificate – Portable Fire Extinguishers	Innovative Fire Solutions	14 January 2020
57.	Fire Safety Measure Installation Certificate – Fire Hose Reel	Commodore Plumbing NSW	6 January 2020
58.	Fire Safety Measure Installation Certificate – Fire Hydrant	Commodore Plumbing NSW	6 January 2020
59.	Fire Assessment Report no.23754 R5.0	Warringtonfire	31 May 2019
60.	Test Report no. 8046.2A – Accolade Foothold Vinyl Flooring	CSIRO	21 March 2018
61.	Structural Certificate – Metal Balustrade for Stairs & Landings	Eskander & Partners	20 August 2019
62.	Structural Certificate – Metal Balustrade for Landing	Eskander & Partners	20 August 2019
63.	Steel Balustrade Installation Certificate	HDH Group (NSW)	29 December 2019
64.	Structural Certificate – Aluminium Balustrade	Eskander & Partners	26 November 2019
65.	Certificate of Test Report no. FNE8048B – Acoustic Quietspace Fabric	CSIRO	19 April 2002
66.	Fire Assessment Summary FAR 4055 Issue 3	Branz	31 July 2019
67.	Glazes Balustrades Installation Certificate	HDH Group	29 December 2019
68.	Aluminium Balustrade Installation Certificate	HDH Group	29 December 2019
69.	Balustrade Glazing Installation Certificate	HDH Group	15 December 2019
70.	Structural & Fire Seal Certification	Richard Crookes Construction	16 January 2020
71.	Slip Test Report no. 7177.2s – Mipolam Esprit	CSIRO	25 September 2014
72.	Fire Test Report no. 7-594307-CV – Mipolam Esprit	AWTA Product Testing	28 October 2013
73.	Mipoplam Cleaning & Maintenance Instructions	Gerflor	Undated
74.	Slip Test Report no. 13/7428.3 – Mipolam Esprit Vinyl	ATTAR	20 November 2019
75.	Interface Carpet Care Manual	Interface	January 2013
76.	Fire Test Report no. 14-001350 – HN810	AWTA	11 December 2014
77.	Fire Test report no. 7-598580-AN – HN810	AWTA	23 July 2014
78.	Certificate of Assessment Report no. EP153410	CSIRO	23 June 2015
79.	Fire Test report no. 7-598559-AN – HN850	AWTA	22 July 2014
80.	Fire Test report no. 14-001356 – HN850	AWTA	17 December 2014
81.	Ontera Care & Maintenance Guide	Ontera	Undated
82.	Fire Test Report no. 17-006321 – BK9 Cushion	AWTA	9 November 2017
83.	Fire Sealing/Dampers Installation Certificate & Penetration Register	ACERS Air Conditioning Engineering Services	16 December 2019



ITEM	DOCUMENTATION	PREPARED BY	DATE
84.	Electrical Fire Sealing Installation Certificate & Penetration Register	NOS Group	10 December 2019
85.	Plasterer Fire Sealing Installation Certificate	Bright Ceiling Systems	8 December 2019
86.	Fire Doors Installation Certificate	Premium Doors	11 November 2019
87.	Flashings Installation Certificate	Combined Roofing Solutions	18 November 2019
88.	Gutters & Downpipes Installation Certificate	Combined Roofing Solutions	18 November 2019
89.	Roof Insulation Certificate	Combined Roofing Solutions	18 November 2019
90.	Completion Certificate – Waterproofing Metal Roof & Walls	Combined Roofing Solutions	18 November 2019
91.	Installation Certificate- Foundation Piles	ACE Demolition and Excavation PL	17 January 2020
92.	Accessibility Occupancy Certification	Morris Goding Access Consulting	17 January 2020
93.	Compliance Certificate- Hearing Augmentation	Connect & Communicate PL	11 December 2019
94.	Structural Installation Certificate- Balustrades	Soar Engineering	17 January 2020
95.	Fire Stopping Report- Revision 2	BCA Logic	17 January 2020
96.	Certificate of Plant Item (Lift) Registration	SafeWork NSW	17 January 2020

*NOTE: While BM+G confirms that the certificates provided by others are relevant to the project, BM+G does not endorse the certificates mentioned above. The relevant installation contractor issuing the certificate is responsible for the accuracy and truth of the certificates and the respective works undertaken by the contractor.*



## **SCHEDULE 2**

### CONDITIONS & EXCLUSIONS

1. This certificate shall not be construed as relieving any other party of their responsibilities, liabilities, or contractual obligations.
2. This certificate does not attest to the completion of satisfaction of any conditions of the development consent; this is the responsibility of the proponent.
3. BM+G did not evaluate the quality of workmanship or materials used for construction of the building, as this is the responsibility of others.



### SCHEDULE 3

#### FIRE SAFETY SCHEDULE

**OWNER:** NSW Department of Education  
**ADDRESS:** 3B Smalls Road, Ryde NSW 2112  
**s.109R:** CRO-18074  
**BCAC NO:** BCAC-20003

#### SCHEDULE

STATUTORY FIRE SAFETY MEASURE	DESIGN / INSTALLATION STANDARD	PROPOSED
Alarm Signalling Equipment	AS 1670.3 – 2004	✓
Automatic Fire Detection & Alarm System	BCA Spec. E2.2a & AS 1670.1 – 2015	✓
Building Occupant Warning System	BCA Clause 3.22 of AS 1670.1 – 2015	✓
Emergency Lighting	BCA Clause E4.4 & AS 2293.1 – 2005	✓
Exit Signs	BCA Clauses E4.5, E4.6 & E4.8; and AS 2293.1 – 2005	✓
Fire Blankets	AS 2444 – 2001	✓
Fire Dampers	BCA Clause C3.15, AS 1668.1 – 2015 & AS 1682.1 & 2 – 1990 and manufacturer's specification	✓
Fire Doors	BCA Clause C2.13 D1.3; and AS 1905.1 – 2015 and manufacturer's specification	✓
Fire Hose Reels (no-classroom areas)	BCA Clause E1.4 & AS 2441 – 2005	✓
Fire Hydrant Systems	Clause E1.3 & AS 2419.1 – 2005	✓
Fire Seals	BCA Clause C3.15, AS 1530.4 – 2014 & AS 4072.1 – 2005 and manufacturer's specification	✓
Mechanical Air Handling Systems	BCA Clause E2.2, AS/NZS 1668.1 – 2015 & AS 1668.2 – 2012	✓
Paths of Travel	Clause 183 of the EP&A Regulation 2000	✓
Portable Fire Extinguishers	BCA Clause E1.6 & AS 2444 – 2001	✓
Warning & Operational Signs	Clause 183 of the EP&A Regulation 2000, AS 1905.1 – 2015, BCA Clause D2.23, D3.6, E3.3	✓
<p><u>Fire Engineered Performance Solutions:</u></p> <ul style="list-style-type: none"> <li>+ To permit the omission of fire-rating the external columns supporting the roof above the assembly area to achieve the required 120/- as per Specification C1.1;</li> <li>+ To permit the stairway which connects 3 storeys to be constructed without a fire isolating shaft;</li> <li>+ To permit travel distances to extend up to: <ul style="list-style-type: none"> <li>-Ground Floor – Distance to a point of choice between alternative exits from the KLA Resource Room (G-01) is up to 25m in lieu of the maximum 20 m permitted.</li> <li>-Level 1 – Distance to an alternative exit from Homebase (1- 55), Special Program room (1-02), and COLA (X1-01) is up to 46 m in lieu of the maximum 40m permitted.</li> <li>-Level 2 – Distance to an alternative exit from Homebase (2-03), Homebase (2-39) and COLA (X2-01) is up to 45m in lieu of the maximum 40m permitted.</li> </ul> </li> <li>+ To permit the following extended travel distances to an exit: <ul style="list-style-type: none"> <li>-Ground Floor – up to 81 m</li> <li>-Level 1 – up to 80m</li> <li>-Level 2 – up to 75m;</li> </ul> </li> </ul>	<p>BCA Performance Requirements CP1, CP2, DP4, DP5, EP1.3 &amp; EP2.2.</p> <p>Fire Safety Engineering Report prepared by Wood &amp; Grieves Engineering; Report No.30127-2 Revision 10 dated 03 December 2019.</p>	✓



STATUTORY FIRE SAFETY MEASURE	DESIGN / INSTALLATION STANDARD	PROPOSED
<ul style="list-style-type: none"><li data-bbox="162 280 690 448">+ To permit the cavity between Level 1 and 2 inside the external Compressed Fibre Cement (CFC) cladding (35mm gap), is proposed to be protected by an intumescent bar (Tenmat Fire Barrier Solution - FF102/50 suitable for up to 50mm cavity widths) which has been tested to achieve an FRL of at least -/60/- minutes.</li><li data-bbox="162 459 690 504">+ To permit the access to the fire pump room not to be fire-isolated.</li></ul>		