

5/06/2020

Our Ref: GDL190044.5

School Infrastructure NSW  
Attn: Andrew Aliprandi  
Level 8, 259 George Street  
Sydney NSW 2000

**Alex Avenue Primary School  
Cnr Farmland Drive and Pelican Road, Schofields NSW 2762**

**SECTION 6.28 CROWN CERTIFICATE - BCA DESIGN COMPLIANCE STATEMENT**

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Further to our engagement for the abovementioned project, please find attached the National Construction Code, Volume 1 Building Code of Australia 2016 Amendment 1 (BCA) Design Compliance Review completed in respect to the proposed Construction of new school consisting of administrative and teaching facilities as required by Section 6.28 of the Environmental Planning and Assessment Act.

In reviewing the content herein, we draw particular attention to both the design documentation listed and conditions of approval listed in this Crown Certificate.

In terms of the conditions of approval, the content therein reflects BCA related matters that need to be complied with in the construction to achieve compliance with the referenced BCA.

The builder and the crown authority need to be aware of these conditions whilst undertaking the works, as they represent items that we shall either be focusing on in the inspection or be seeking installation certificates for on completion of the works, and it is the responsibility of the crown authority and builder engaged for the works to ensure these are complied with as part of the works.

Should you have any further enquiries please do not hesitate to contact Charles Slack-Smith.

Yours faithfully



Charles Slack-Smith  
Director

## BCA DESIGN COMPLIANCE REVIEW

### PRELIMINARIES

<b>CERTIFICATE NO.</b>	<b>GDL190044.5</b>
<b>Property Details</b>	Cnr Farmland Drive and Pelican Road, Schofields NSW 2762
<b>Client</b>	NSW Department of Education
<b>Date</b>	02/06/2020
<b>Proposal</b>	The main works to delivery Stage 1 of the Alex Avenue Public School including, 20 home bases, supporting administration, library, and hall, associated landscaping, basketball court, and ancillary facilities.

### DEVELOPMENT DESCRIPTION

<b>Proposed Works</b>	<b>Description</b>
Classification(s):	5, 9b
Use:	Scholl administration and Educational Establishment
Subject Area:	Cnr Farmland Drive and Pelican Road, Schofields NSW 2762

### BASIS OF CERTIFICATION

This certificate is based upon: -

- The National Construction Code, Volume 1, Building Code of Australia BCA Class 2-9 Buildings 2016 Amendment 1 (BCA)
- The Design Documentation listed in this certificate below

### EXCLUSIONS

This certificate relates only to the assessment and application of the Building Code of Australia to the proposed building works contained within the Design Documentation listed below and excludes: -

- General (non-BCA) electrical, mechanical, hydraulic building services
- Service providers requirements relating to electricity, gas, water and telecommunications
- The regulatory compliance of existing components/areas of the premises/site unaffected by the works.
- Disability (Access to Premises – Buildings) Standards 2010 compliance
- Any Development Consent requirements or conditions and any assessment as to the requirement for obtaining planning consent and any conditions to any consents obtained, as this only relates to an assessment of elements listed in Section 6.28 of the Environmental Planning and Assessment Act.
- Any existing elements of the building, and relates to BCA confirmation of new works only, and not an assessment of any existing elements or portions of the building
- Any elements the subject of the documentation relied upon, or the conditions are not the liability of Group DLA as reliance upon this documentation, certification and information in issuance of this statement.

## STATEMENT OF COMPLIANCE

We hereby confirm that the proposed design shall accord with the relevant principles and provisions of the Building Code of Australia 2016 Amendment 1 subject to: -

- Compliance with the conditions of approval nominated below; and
- Reliance upon the listed documentation relied upon, listed drawings/plans
- Certification of the installation of the relevant portions on completion of the works

## FIRE SAFETY SCHEDULE

Fire Safety Measure	Standard of Performance (BCA 2016 Amendment 1)	Existing Fire Safety Measures	Proposed Fire Safety Measures
Emergency lighting	AS 2293.1 – 2005 BCA E4.2, E4.4	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Exit signs	AS 2293.1 – 2005 BCA E4.5, NSW E4.6 & E4.8	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Fire hose reel systems (Hall and Admin Building / Library only)	AS 2441 – 2005, BCA E1.4	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Fire hydrant systems	AS 2419.1 – 2005, BCA E1.3	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Fire seals to Penetrations	AS 1530.4 – 2005 BCA C3.12, C3.13, C3.15 and Fire Safety Engineering Report	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Lightweight construction (Fire protective Ceiling, Promat Wrapped Columns, Beams)	Clause 4.1 of BCA Spec C1.1 (Ceiling fire rating) C1.8, Spec C1.8 and Fire Safety Engineering Report	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Mechanical Ventilation (Shutdown)	Clause 5 of BCA Spec E2.2a, and sensitivity to AS 1670.1-2015 NSW Table E2.2b	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Portable fire extinguishers	AS 2444 – 2001, BCA E1.6	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Warning and Operation Signs	BCA D3.6(Disabled Exit Sign), BCA E3.3(Lift)	<input type="checkbox"/>	
Fire Safety Engineering Report Reference No. 110468-FER-r5, issued by BCA Logic, dated 04/09/2019 - Fire rating of structure/materials - Compartment Size - Allotment boundary through site	BCA CP1 & CP2	<input type="checkbox"/>	<input checked="" type="checkbox"/>

## DESIGN DOCUMENTATION

The following architectural documentation was reviewed as part of this assessment;

Drawing No.	Titled	Prepared by	Revision	Dated
AA-AR-0000	Cover Sheet / Drawing Index	Group GSA	G	24/06/2019
AA-AR-1100	Proposed Site and Roof Plan	Group GSA	G	21/06/2019
AA-AR-1110	Building Complex Ground Floor Plan	Group GSA	D	21/06/2019
AA-AR-1111	Building Complex First Floor Plan	Group GSA	D	21/06/2019
AA-AR-1112	Building Complex Roof Plan	Group GSA	D	21/06/2019
AA-AR-1930	Signage Plan – Ground Level	Group GSA	A	21/06/2019
AA-AR-1931	Signage Plan – Level 1	Group GSA	A	21/06/2019
AA-AR-2000	Floor Plan – GF – Block C – Part 1	Group GSA	K	21/06/2019
AA-AR-2001	Floor Plan – GF – Block A – Part 2	Group GSA	I	21/06/2019
AA-AR-2002	Floor Plan – GF – Block B1 – Part 3	Group GSA	I	21/06/2019
AA-AR-2003	Floor Plan – GF – Block B2 – Part 4	Group GSA	H	21/06/2019
AA-AR-2004	Floor Plan – GF – Block B3 – Part 5	Group GSA	G	21/06/2019
AA-AR-2005	Floor Plan – GF – Block B4 – Part 6	Group GSA	F	21/06/2019
AA-AR-2011	Floor Plan – L1 – Block A – Part 2	Group GSA	J	21/06/2019
AA-AR-2012	Floor Plan – L1 – Block B1 – Part 3	Group GSA	H	21/06/2019
AA-AR-2013	Floor Plan – L1 – Block B2 – Part 4	Group GSA	H	21/06/2019
AA-AR-2014	Floor Plan – L1 – Block B3 – Part 5	Group GSA	F	21/06/2019
AA-AR-2015	Floor Plan – L1 – Block B4 – Part 6	Group GSA	F	21/06/2019
AA-AR-2400	Furniture Layout Plan – Ground Level – Block C	Group GSA	D	21/06/2019
AA-AR-2401	Furniture Layout Plan – Ground Level – Block A	Group GSA	E	21/06/2019
AA-AR-2402	Furniture Layout Plan – Ground Level – Block B1	Group GSA	E	21/06/2019
AA-AR-2403	Furniture Layout Plan – Ground Level – Block B2	Group GSA	E	21/06/2019
AA-AR-2404	Furniture Layout Plan – Ground Level – Block B3	Group GSA	E	21/06/2019
AA-AR-2405	Furniture Layout Plan – Ground Level – Block B4	Group GSA	E	21/06/2019
AA-AR-2411	Furniture Layout Plan - Level 1 – Block A	Group GSA	E	21/06/2019
AA-AR-2412	Furniture Layout Plan - Level 1 – Block B1	Group GSA	E	21/06/2019
AA-AR-2413	Furniture Layout Plan - Level 1 -Block B2	Group GSA	E	21/06/2019

Drawing No.	Titled	Prepared by	Revision	Dated
AA-AR-2414	Furniture Layout Plan - Level 1 -Block B3	Group GSA	E	21/06/2019
AA-AR-2415	Furniture Layout Plan - Level 1 -Block B4	Group GSA	E	21/06/2019
AA-AR-3000	Elevations -Block C	Group GSA	G	21/06/2019
AA-AR-3001	Elevations -Block A	Group GSA	G	21/06/2019
AA-AR-3002	Elevations -Block B1	Group GSA	G	21/06/2019
AA-AR-3003	Elevations -Block B2	Group GSA	F	21/06/2019
AA-AR-3004	Elevations -Block B3	Group GSA	F	21/06/2019
AA-AR-3005	Elevations – Block B4	Group GSA	F	21/06/2019
AA-AR-8100	Window Schedule -Building A	Group GSA	E	21/06/2019
AA-AR-8101	Window Schedule -Buildings B1, B2, B3 & B4	Group GSA	D	21/06/2019
AA-AR-8102	Window Schedule -Building C	Group GSA	E	21/06/2019
COM-AR-9410	Typical Balustrade Details	Group GSA	A	21/06/2019
COM-AR-9600	Signage Key and Guidelines	Group GSA	B	21/06/2019
COM-AR-9602	Signage Type - Sheet 1	Group GSA	A	21/06/2019
COM-AR-9603	Signage Type - Sheet 2	Group GSA	A	21/06/2019
COM-AR-9604	Signage Type - Sheet 3	Group GSA	A	21/06/2019
COM-AR-9605	Signage Type - Sheet 4	Group GSA	A	21/06/2019

## SUPPLEMENTARY DOCUMENTATION

The following additional documentation was reviewed as part of this assessment, and has been relied upon in confirming compliance for those elements listed / certified or confirmed as compliant;

- Application for Crown Certificate Form issued by Jim Lewis of School Infrastructure NSW, dated 14/05/2020
- Test Report No. P172435 for Whale Song (Beluga/Humpback/Narwhal/Orca) Carpet issued by M. B. Webb of APL Australia Pty Ltd, dated 03/10/2017
- Design Certificate for Lifts issued by Gavin Kent of Hamilton Elevators NSW, dated 19/05/2020
- Letter referencing Population Numbers for school issued by School Infrastructure NSW, dated 09/09/2019
- Design Certificate for Hydraulic Services issued by Assad Shuhaiber of Meinhardt Australia Pty Ltd, dated 14/05/2020
- NCC 2016 Section J JV3 Report No. ESD-01 issued by Meinhardt Australia Pty Ltd, dated 05/04/2019
- Design Compliance Certificate for Block B1 – Proposed Classroom Building issued by Dragan Kocev of D&A Consulting Group, dated 29/03/2019
- Design Compliance Certificate for Block B2 – Proposed Classroom Building issued by Dragan Kocev of D&A Consulting Group, dated 28/03/2019

- Design Compliance Certificate for Block C – Proposed Communal Hall Building issued by Dragan Kocev of D&A Consulting Group, dated 28/03/2019
- Structural Steel Stamped Drawings issued by Modscape
- Design Compliance Certificate for Block A – Proposed Admin / Library Building issued by Dragan Kocev of D&A Consulting Group, dated 28/03/2019
- Design Statement for External Wall System issued by Kumar Singh of Modscape Commercial Pty Ltd, dated 16/07/2019
- Design Statement for External Wall System issued by Group GSA, dated 2/06/2020
- CSIRO Certificate of Test, Report FNC12071 for TBA Fire fly, dated 12/12/2017
- TBA Fire fly Technical Data Sheet 33, issued and dated 1/5/2019
- CSIRO Certificate of Test, Report FNC11629 for Rockwool, dated 18/3/2016
- TBA Fire fly Technical Data Sheet 36, issued and dated 2/5/2019
- Ignis Solutions Engineering Certification, Evaluation No IGNIS 5194 Issue 03 Revision 01, dated 4/2/2019
- CSIRO Certificate of Test, Report FNE11605 for Colorbond Steel, dated 3/3/2016
- Coated Steel – Pre-painted Data Sheet, issued by BlueScope Steel dated December 2017
- CSIRO Certificate of Test, Report FNC11220 for E-glass fibre, dated 21/8/2014
- AWTA Product Testing report, issued for TBA Fire Fly sarking, Test number 18-005157, dated 7/09/2018
- CSIRO Certificate of Test, Report FNC11437A for Stryum Aluminium, dated 22/07/2015
- TBA Fire Fly Foil Tape, Data Sheet 80
- Dilapidation Report No. 116037 issued by Tyrrells Property Inspections Pty Ltd, dated 30/01/2019
- Construction Worker Transportation Strategy Report issued by Richard Crookes Constructions
- Sweep Path Diagram No. SK200515, Rev 1 issued by PTC, dated 15/05/2020
- Construction Environmental Management Plan No. 1157, Rev 0 issued by Richard Crookes Constructions, dated 14/05/2020
- Construction Environmental Management Plan No. 1157, Rev 1 issued by Richard Crookes Constructions, dated 22/05/2020
- Design Statement for Disabled Access & Egress issued by Richard Seidman of iAccess Consultants, dated 27/05/2020
- Disabled Access Report, Revision A issued by iAccess Consultants, dated 30/08/2019
- Design Statement for Electrical Services issued by David Rabbani of Meinhardt Australia Pty Ltd, dated 17/07/2019
- Certificate of Test No. FNE11605 for BlueScope Colorbond Steel issued by Heherson Alarde of CSIRO, dated 03/03/2016
- Fire Engineering Report No. 110469-FER-r5 issued by Leonard Tunhavasana of BCA Logic, dated 04/09/2019
- Assessment Report No. FCO-3362 for performance of Fletcher insulation products issued by Keith Nicholls of CSIRO, dated 10/09/2019
- Architectural Design Statement issued by Joelle Sarkis of Group GSA Pty Ltd, dated 28/05/2020
- Heritage Management Plan – Final Report issued by Biosis, dated 19/05/2020
- Letter referencing Timber Structural Elements issued by Robert Barker of Modscape Holdings Pty Ltd, dated 18/07/2019
- Design Statement for Lift Shaft Ventilation issued by Tai Ng of Meinhardt Australia Pty Ltd, dated 12/09/2019
- Design Statement for Mechanical Services issued by Bradley Pape of Meinhardt Australia Pty Ltd, dated 14/05/2020

- Structural Design Statement for SSDA issued by Rory Dale of Northrop Consulting Engineers Pty Ltd, dated 10/09/2019 and associated plans
- Civil Design Certificate for SSDA issued by James Gilligan of Northrop Consulting Engineers Pty Ltd, dated 11/07/2019
- Design Memo for Automatic Shutdown of Mechanical Plant issued by Adrian Moskaljuk of WRAP Engineering Pty Ltd, dated 21/05/2020
- Design Certificate for Mechanical Services issued by Robert Holovka of WRAP Engineering Pty Ltd, dated 21/05/2020
- Letter referencing SSD Condition B11 relating to not being Green Star registered process issued by Jim Lewis of School Infrastructure NSW, dated 01/06/2020
- Design Statement for Electrical Services issued by David Rabbani of Meinhardt Australia Pty Ltd, dated 27/05/2020
- Design Statement for Bin Enclosure issued by Felicity Ratcliffe of Group GSA Pty Ltd, dated 27/05/2020
- Letter referencing SSD Condition B25 – Construction Car parking and Access Arrangement issued by Shana Cai and David Salangsang of PTC, dated 2/06/2020
- Civil Design Certificate issued by James Gilligan of Northrop Consulting Engineers Pty Ltd, dated 11/07/2019
- Design Compliance Certificate for Block A – Proposed Admin / Library Building issued by Dragan Kocev of D&A Consulting Group, dated 25/05/2020
- Design Compliance Certificate for Block B1 – Proposed Classroom Building issued by Dragan Kocev of D&A Consulting Group, dated 25/05/2020
- Design Compliance Certificate for Block B2 – Proposed Classroom Building issued by Dragan Kocev of D&A Consulting Group, dated 25/05/2020
- Design Compliance Certificate for Block C – Proposed Communal Hall Building issued by Dragan Kocev of D&A Consulting Group, dated 25/05/2020
- Codemark Certificate of conformity for roof sarking ,issued by Codemark Certificate number CM20029, dated 16/12/2018
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## CONDITIONS OF APPROVAL

### PART A – CONDITIONS OF CONSTRUCTION

BCA CLAUSE	Comments
<b>BCA 2019</b>	The construction works must be undertaken and installed in accordance with the requirements of BCA 2019 and any referenced Australian Standards in BCA 2019.
<b>C1.10</b>	Materials installed / used must have fire hazard properties in accordance with BCA Specification C1.10.
<b>C3.15</b>	Any new service penetrations between fire rated floors or fire walls must be fire sealed in accordance with Clause C3.15 of BCA 2015 and the requirements of the Fire Safety Engineer report issued by BCA Logic as referenced in the fire safety schedule.
<b>Table D2.14</b>	Slip Resistance of new stairs / ramps, including relining of such must be provided in accordance with the required slip resistance listed in Table D2.14 of the BCA.
<b>Fire Services</b>	Any Fire Services being installation, modification or alteration must be undertaken in accordance with the listed standards of performance and BCA clause requirements of the Fire Safety Schedule.
<b>Roof lights</b>	The Roof light's to the COLA's between buildings are to achieve a Group Number of 3 as tested to AS 5367.1 or AS 9705 as listed in BCA Specification C1.10
<b>Section J</b>	The Energy Efficiency requirements of Section J are to be installed in accordance with the requirements of the Section JV3 report and Section J and to be confirmed on completion as achieving compliance with these requirements.
<b>Bushfire</b>	The Building and associated works are to be installed and certification on completion from the bushfire consultant is required to confirm compliance with BCA Part G5.2 and AS 3959 for the relevant BAL rating for the site as determined by the Bushfire consultant.

This certificate confirms compliance to Section 6.28 of the Environmental Planning and Assessment Act for the proposed works, and is reliant upon the listed documentation, design certification and plans referenced, as well as compliance with the conditions of this document as listed being achieved



Charles Slack-Smith  
 Director  
 Building Professionals Board / BPB0378