

7/06/2022

Our Ref: GDL220052.1

NSW Department of Education C/- SINSW
Attn: Anthony Manning
Level 8, 259 George Street
Sydney NSW 2000

**Galungara Public School
Farmland Drive, Schofields NSW 2762**

BCA DESIGN COMPLIANCE STATEMENT (CROWN CERTIFICATE)

Further to our engagement for the abovementioned project, please find attached the Building Code of Australia (BCA) Design Compliance Review completed in respect to the proposed Stage 2 Works for new school including learning hubs containing home bases, associated works including covered outdoor learning areas.

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

In terms of the conditions of approval, the content therein reflects BCA related matters that where not fully documented or need to be complied with during the construction to achieve compliance with the referenced BCA.

The builder and the applicant 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 applicant 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 the undersigned.

Yours faithfully



Charles Slack-Smith
Director

BCA DESIGN COMPLIANCE STATEMENT

PRELIMINARIES

STATEMENT NO.	GDL220052.1
Property Address	Farmland Drive, Schofields NSW 2762
Client	Galungara Public School
Date	7/06/2022
Proposal	Stage 2 Works for new school including learning hubs containing home bases, associated works including covered outdoor learning areas.

DEVELOPMENT DESCRIPTION

Proposed Works	Description
Classification(s):	9b
Use of Building/Part:	Educational Establishment
Subject Area (Area of Works):	This Certificate relates to remaining Stage 2 works

BASIS OF STATEMENT:

This statement 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 statement below

EXCLUSIONS

This statement 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
- This statement relates to BCA compliance only and excludes any requirements for development consent or conditions of any approval documents, or any other form of planning or certification obligations required by the Environmental Planning and Assessment Act 1979 or any other legislation.
- Any existing elements of the building, as this statement 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 checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Exit signs	AS 2293.1 – 2005 BCA E4.5, NSW E4.6 & E4.8	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Fire hose reel systems (Hall and Admin Building / Library only)	AS 2441 – 2005, BCA E1.4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Fire hydrant systems	AS 2419.1 – 2021, BCA E1.3	<input checked="" 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 checked="" 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 checked="" type="checkbox"/>	<input type="checkbox"/>
Mechanical Ventilation (Shutdown)	Clause 5 of BCA Spec E2.2a, and sensitivity to AS 1670.1-2015 NSW Table E2.2b	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Portable fire extinguishers	AS 2444 – 2001, BCA E1.6	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Warning and Operation Signs	BCA D3.6(Disabled Exit Sign), BCA E3.3(Lift)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Fire Safety Engineering Report Reference No. 110468-FER-r8, issued by SGA Fire, dated 06/06/2022 <ul style="list-style-type: none"> - Fire rating of structure/materials - Compartment Size - Allotment boundary through site - Hydrant system to AS 2419.1-2021 	BCA CP1, CP2 & EP1.3	<input checked="" 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
GS-AR-DW-0000	Cover Sheet / Drawing Index	Group GSA	B	18/05/2022
GS-AR-DW-2004	Floor Plan - GF - Block B3 & Cola C	Group GSA	F	18/05/2022
GS-AR-DW-2014	Floor Plan - L1 - Block B3 & Cola C	Group GSA	F	18/05/2022
GS-AR-DW-2104	Wall Setout Plan - Ground Level - Block B3	Group GSA	B	18/05/2022
GS-AR-DW-2114	Wall Setout Plan - Level 1 - Block B3	Group GSA	B	18/05/2022
GS-AR-DW-2115	Wall Setout Plan - Level 1 - Block B4	Group GSA	B	18/05/2022
GS-AR-DW-2615	Finishes Plan - Level 1 - Block B4	Group GSA	B	18/05/2022
GS-AR-DW-5031	Wet Areas Layout - Cola C - Sheet 1	Group GSA	B	18/05/2022
GS-AR-DW-8005	Door Schedule - Block B3 & B4	Group GSA	B	18/05/2022

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;

- Crown Certificate Application Form issued by Anthony Manning of NSW Department of Education C/- SINSW, dated 09/03/2022
- Fire Engineering Report Reference No. 110469-FER-r8 issued by Michael Mason and James Murch of SGA Fire, dated 6/06/2022
- Architectural Specification COM-AR-SPEC-1000, Issue 2, issued by Group GSA, dated 05/05/2022
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- Technical Data Sheet No 36 - TBA Firefly Non-Combustible Sarking-Breathable issued by TBA Firefly, dated 01/05/2019
- Certificate of Test No. FNC12071 for - Solid Aluminium Cylinder (TBA Fire Fly Products) issued by Faustin Molina and Brett Roddy of CSIRO, dated 12/12/2017
- Product Guide for 737 Veropaque G3 Blockout issued by Versol, dated January 2017
- Certificate of Test No. FNC11417A for - Stryum Intelligent Aluminium Façade issued by Heherson Alarde and Brett Roddy of CSIRO, dated 12/12/2017
- Engineering Certification No. IGNS-5195 Issue 03 Rev 01 for Fletcher Glasswool Plain/Faced Insulation Batts and Blanket issued by Benjamin Hughes-Brown of Ignis Solutions, dated 17/06/2019
- Design Statement for Construction Certificate 2 (CC2) issued by Lisa-Maree Carrigan of Group GSA, dated 11/04/2022
- Datasheet for Facade Boards issued by Cembrit, dated December 2018
- Datasheet for Colorbond Steel - Coated Steel – pre-painted issued by BlueScope, dated December 2017
- Verified Environmental Product Declaration No. MD-18011-EN issued by EPD Danmark, dated 21/03/2018
- External Wall System Disclosure Design Statement issued by Joelle Sarkis of Group GSA, dated 04/03/2022

- Design Certificate for Fire Services issued by Chris Hadjiyiannis of JHA Consulting Engineers, dated 10/05/2022
- Structural Compliance Statement for CC2 for First Floor Suspended Slab, Walls and Roof and associated Structural Drawings issued by Rory Dale of Northrop Consulting Engineers Pty Ltd 13/05/2022
- Design Certificate for Fire Services issued by Rose Sadabadi of NVO Consulting Engineers, dated 16/05/2022
- Design Certificate for Fire Services issued by Chris Hadjiyiannis of JHA Consulting Engineers, dated 18/05/2022
- Design Certificate for Mechanical Services issued by Nour Kandil of Air Conditioning Engineering Services Pty Ltd, dated 18/05/2022
- Design Certificate for Steel Roof and Wall Frames Structural Design Parameters issued by Richard Noonan of Barnson Pty Ltd, dated 17/05/2022
- Design Certificate for Electrical Services issued by Neil Muthukuda of NVO Consulting Engineers, dated 10/05/2022
- Design Certificate for Hydraulic Services issued by Fadi Taouk of Goldfish & Bay, dated 19/05/2022
- Design Statement for Disabled Access & Egress issued by Richard Seidman of iAccess Consultants, dated 16/05/2022
- Civil Engineering Design Certificate issued by Jack Grinsell of Northrop Consulting Engineers, dated 17/05/2022
- Design Performance Solution for Weatherproofing of External Walls Reference No. AR-REP- FP1.4-001 [A] issued by Joelle Sarkis of Group GSA, dated 09/05/2022
- Statement of Compliance for National Construction Code (NCC) 2016 Volume One Amendment 1 Section J Part J1 Rev C issued by Ivan Miao of JHA Consulting Engineers, dated 02/05/2022
- Design Statement for Landscape Works issued by Felicity Ratcliffe of Group GSA, dated 30/09/2020
- Engineering Certification No. IGNS-5194 Issue 03 Rev 01 for Fletcher Glasswool Plain/Faced Insulation Batts and Blanket issued by Benjamin Hughes-Brown of Ignis Solutions, dated 04/02/2019
- Technical Data Sheet for Pink batts Thermal Insulation for Residential Ceiling and Wall application issued by Fletcher Insulation Pty Limited, dated 18/07/2016
- General Correspondence No. RCC-GCOR-007589 regarding Tender date confirmation issued by George Denny-Smith of Richard Crookes Constructions, dated 04/03/2022

Information previously relied upon in Crown Certificate GDL220052, dated 14/03/2022;

- Crown certificate application form issued by SINSW
- Certificate of Compliance for Disability Access issued by Joelle Sarkis of Group GSA, dated 18/02/2022
- Architectural Design Statement issued by Joelle Sarkis of Group GSA, dated 18/02/2022
- Dilapidation report No. 134550 issued by Mark Irvine of Tyrrells Building Advisory, dated 25/01/2022
- Design Certificate for Electrical Services issued by Neil Muthukuda of NVO Consulting engineers, dated 04/03/2022
- Design Certificate for Hydraulic Services issued by Fadi Taouk of Goldfish & Bay, dated 04/03/2022
- SSD Condition B1 – Schedule of Finishes and materials for Stage 2 issued by Joelle Sarkis of Group GSA, dated 02/03/2022
- Confirmation of no adjoining or affected properties issued by George Denny of Richard Crookes Constructions, dated 01/03/2022
- Structural Compliance for Foundations, Ground Floor Slab and Ground Floor Columns and Walls, Level 1 Slab and associated plans issued by Rory Dale of Northrop, dated 17/02/2022
- Confirmation of tender date for Stage 2 issued by George Denny of Richard Crookes Constructions, dated 04/03/2022

CONDITIONS OF APPROVAL

PART A – CONDITIONS OF CONSTRUCTION

BCA CLAUSE	Comments
BCA 2016 Amend 1	The construction works must be undertaken and installed in accordance with the requirements of BCA 2016 Amend 1 and any referenced Australian Standards in BCA 2019.
C1.10	<p>Materials must have fire hazard properties in accordance with BCA Specification C1.10 as follows: -</p> <ul style="list-style-type: none"> • <u>Floor Coverings</u> <ul style="list-style-type: none"> (i) a critical radian flux no less than 2.2kW/m² for non-sprinkler protected buildings (ii) a maximum smoke development rate of 750 percent minutes • <u>Wall and Ceiling linings</u> <ul style="list-style-type: none"> (i) a group number of 1 or 2; and (ii) a smoke growth rate index of not more than 100; or (iii) an average specific extinction area less than 250m²/kg • <u>Air handling ductwork</u> <ul style="list-style-type: none"> (i) Rigid and flexible ductwork must comply with the fire hazard properties set out in AS 4254 – 1995
C3.15	Any new service penetrations in fire rated elements must be fire sealed in accordance with Clause C3.15 of BCA.
D1.6	Paths of travel to exits must have a clear width of no less than 1000mm. Note: Measured between fixed items, such as workstations, openings without doors, etc
D2.21	All door latching mechanisms to be located between 900-1100mm from the finished floor level.
Table D2.14	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.
Fire Services	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.

This statement confirms compliance of the Design to BCA 2016 Amendment 1 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.



Charles Slack-Smith
Director
Building Professionals Board / BDC0378