

17/12/2021

Our Ref: GDL210095.1

NSW Department of Education, School Infrastructure NSW
Attn: Anthony Manning
School Infrastructure NSW - Level 8, 259 George Street
Sydney NSW 2000

Epping South Public School, Epping NSW 2121
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 BCA and Crown Certification Services.

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 Mauricio Vera or the undersigned.

Yours faithfully



Brett Clabburn
Director

BCA DESIGN COMPLIANCE STATEMENT

PRELIMINARIES

STATEMENT NO.	GDL210095.1
Property Address	Epping South Public School, Epping NSW 2121
Client	NSW Department of Education, School Infrastructure NSW
Date	17/12/2021
Proposal	2 New School Buildings

DEVELOPMENT DESCRIPTION

Proposed Works	Description
Classification(s):	9b and 5
Use of Building/Part:	School and associated offices
Subject Area (Area of Works):	Bulk earthworks, in-ground services and structure (CC2)

BASIS OF STATEMENT:

This statement is based upon: -

- The National Construction Code, Volume 1, Building Code of Australia BCA Class 2-9 Buildings 2019 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.
- Review of existing population densities throughout the building with respect to the new works
- 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 2019 Amendment One 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

Building A

Fire Safety Measure	Standard	BCA Clause(s)
Access panels, doors & hoppers to fire resisting shafts	AS 1530.4 – 2014	C3.13
Automatic fail-safe devices	--	C3.8, D2.21, Spec C3.4
Automatic fire detection & alarm systems (associated to automatic shut-down system)	AS 1670.1 – 2018 AS 1668.1 – 2015	Spec E2.2b
Emergency lighting	AS 2293.1 – 2018	E4.2, E4.4
Exit signs	AS 2293.1 – 2018	E4.5, NSW E4.6 & E4.8, EP4.2
Fire dampers	AS 1668.1 – 2015	Spec E2.2a
Fire doors	AS 1905.1 – 2015	Spec C3.4, C3.10
Fire hose reel systems (except classroom areas)	AS 2441 – 2005	E1.4, EP1.1
Fire hydrant systems	AS 2419.1 – 2005	E1.3, EP1.3
Fire seals (protecting openings in fire resisting components of the building)	AS 4072.1 – 2005 AS 1530.4 – 2014	C3.12, C3.13, C3.15
Lightweight construction	--	C1.8, Spec C1.8, CP1, CP2
Mechanical air handling systems <ul style="list-style-type: none"> • Auto shutdown 	AS 1668.1 – 2015 AS 1668.2 – 2012	E2.2, Spec E2.2a, Spec E2.2b
Portable fire extinguishers & fire blankets	AS 2444 – 2001	E1.6
Paths of Travel	--	D1.6, DP4, DP5, DP6, EP2.2

Building B

Fire Safety Measure	Standard	BCA Clause(s)
Access panels, doors & hoppers to fire resisting shafts	AS 1530.4 – 2014	C3.13
Automatic fail-safe devices	--	C3.8, D2.21, Spec C3.4
Automatic fire detection & alarm systems (associated to automatic shut-down system)	AS 1670.1 – 2018 AS 1668.1 – 2015	Spec E2.2b
Emergency lighting	AS 2293.1 – 2018	E4.2, E4.4
Exit signs	AS 2293.1 – 2018	E4.5, NSW E4.6 & E4.8, EP4.2
Fire doors	AS 1905.1 – 2015	Spec C3.4, C3.10
Fire hose reel systems (except classroom areas)	AS 2441 – 2005	E1.4, EP1.1
Fire hydrant systems	AS 2419.1 – 2005	E1.3, EP1.3

Fire Safety Measure	Standard	BCA Clause(s)
Lightweight construction	--	C1.8, Spec C1.8, CP1, CP2
Mechanical air handling systems <ul style="list-style-type: none"> Auto shutdown 	AS 1668.1 – 2015 AS 1668.2 –2012	NSW E2.2, Spec E2.2a, Spec E2.2b
Portable fire extinguishers & fire blankets	AS 2444 – 2001	E1.6
Paths of Travel	--	D1.6, DP4, DP5, DP6, EP2.2

DESIGN DOCUMENTATION

The following architectural documentation prepared by Pedavoli Architects Pty Ltd was reviewed as part of this assessment:

Drawing No.	Titled	Revision	Dated
01_001	Block A - Ground Floor – Slab Setout Plan - Admin / Staff / Canteen	1	03/12/2021
01_002	Block A - Ground Floor – Slab Setout Plan - Library / Supported Learning	1	03/12/2021
01_003	Block A - First Floor – Slab Setout Plan - Homebase Part 1	1	03/12/2021
01_004	Block A - First Floor – Slab Setout Plan - Homebase Part 2	1	03/12/2021
01_005	Block A - Second Floor – Slab Setout Plan - Homebase Part 1	1	03/12/2021
01_006	Block A - Second Floor – Slab Setout Plan - Homebase Part 2	1	03/12/2021
02_001	Block B - Ground Floor – Slab Setout Plan	1	03/12/2021

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 Form for Crown Certificate, issued by Murat Dizdar of NSW Department of Education, School Infrastructure NSW, dated 06/12/2021
- Levy Receipt, Receipt No.L0000015755, issued by City of Parramatta Council, dated 10/12/2021
- Letter Confirming B9 Community Communication Strategy, issued by Dylan Screpis of Hansen Yuncken, dated 13/12/2021
- Letter Confirming B1 Notification of Commencement, issued by Dylan Screpis of Hansen Yuncken, dated 13/12/2021
- Letter Confirming B4 External Walls & Cladding, issued by Dylan Screpis of Hansen Yuncken, dated 03/11/2021
- Letter Confirming A27 Non-Compliance Notification, issued by Dylan Screpis of Hansen Yuncken, dated 13/12/2021
- Letter Confirming A23 Access to Information, issued by Dylan Screpis of Hansen Yuncken, dated 13/12/2021
- Letter Confirming A30 Revision of Strategies, Plans and Programs, issued by Dylan Screpis of Hansen Yuncken, dated 13/12/2021
- Letter Confirming A19 External Materials, issued by Dylan Screpis of Hansen Yuncken, dated 13/12/2021
- Letter Confirming A9 Staging, issued by Dylan Screpis of Hansen Yuncken, dated 13/12/2021

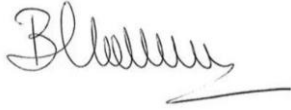
- Letter Confirming B10 Ecologically Sustainable Development, issued by Dylan Screpis of Hansen Yuncken, dated 13/12/2021
- Letter Confirming B21 Construction Parking, issued by Dylan Screpis of Hansen Yuncken, dated 13/12/2021
- Letter Confirming B24 Operational Waste Storage and Processing, issued by Dylan Screpis of Hansen Yuncken, dated 08/12/2021
- Letter Confirming A31 Revision of Strategies, Plans and Programs, issued by Hansen Yuncken, dated 13/12/2021
- Letter Confirming Site Auditor Engagement for Proposed New School in Epping, issued by Rowena Salmon of Ramboll Australia Pty Ltd, dated 28/09/2021
- Certificate of Design for Electrical Services, issued by Nicolas Sleiman of Erbas & Associates, dated 09/12/2021
- Certificate of Design for Hydraulic Services and associated plan, issued by Ian Stalker of Woolacotts Consulting Engineers Pty Ltd, dated 06/12/2021
- Construction Waste Management Plan, issued by Paul Gorman of Douglas Partners Pty Ltd, dated 02/08/2021
- Architectural Design Certificate for Bulk Earthworks, Inground Services and Structure, issued by Sam Rigoli of Hansen Yuncken, dated 07/12/2021
- Certificate of Design for Stormwater, issued by Stephen Naughton of PTC, dated 10/12/2021
- Certificate of Design for Structural, issued by Trudy Myers of Hansen Yuncken, dated 28/10/2021
- Structural Design Statement for 100% DD, issued by Trudy Myers of Northrop Consulting Engineers Pty Ltd, dated 28/10/2021

CONDITIONS OF APPROVAL

PART A – CONDITIONS OF CONSTRUCTION

BCA CLAUSE	Comments
BCA 2019 Amendment 1	The construction works must be undertaken and installed in accordance with the requirements of BCA 2019 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 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 ; 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 <p>Note: BCA 2019 has specific Australian Standards that must be complied with in determining the above requirements, consult BCA 2019 to establish the relevant testing requirements prior to specifying, ordering or installing finishes</p>
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.
E4.2/E4.5	New emergency lighting to be undertaken in accordance with BCA Clause E4.2 and AS2293.1 - 2005
E4.5/E4.6	New exit signage and alterations to suit new arrangement must be undertaken in accordance with BCA Clause E4.5, E4.6 and AS2293.1 - 2005
F4.4	New artificial lighting must accord with AS/NZS 1680.0 – 2009 to all rooms and corridors, lobbies and internal circulation spaces, and certified by a suitably qualified contractor upon completion.
F4.5	New / alterations to ventilation must be in accordance with AS1668.2-2012
Part J6	New artificial lighting must accord with Part J6 of BCA 2019 Amendment One, and certified by a suitably qualified contractor upon completion.
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 2019 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.



Brett Clabburn
Director
Building Professionals Board / BDC0064