

16/01/2024

Our Ref: GDL210329.3

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

**School Infrastructure NSW, Department of Education
105-107 Mitchell Street, Wee Waa NSW 2388**

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 Crown Certificate for new High School.

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 Charles Slack-Smith.

Yours faithfully



Charles Slack-Smith
Director

BCA DESIGN COMPLIANCE STATEMENT

PRELIMINARIES

| | |
|-------------------------|--|
| STATEMENT NO. | GDL210329.3 |
| Property Address | 105-107 Mitchell Street, Wee Waa NSW 2388 |
| Client | School Infrastructure NSW, Department of Education |
| Date | 16/01/2024 |
| Proposal | Construction of new High School and external works |

DEVELOPMENT DESCRIPTION

| Proposed Works | Description |
|-------------------------------|--|
| Classification(s): | 5 - Office Administration; 9b - School |
| Use of Building/Part: | Office and Educational Establishment |
| Subject Area (Area of Works): | Main Works excluding Landscaping and External works/façade the subject of Mod SSD application. |

BASIS OF STATEMENT:

This statement is based upon: -

- The National Construction Code, Volume 1, Building Code of Australia BCA Class 2-9 Buildings 2019 (BCA) Amendment 1
- 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 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 | Proposed Fire Safety Measures |
|---|--|-------------------------------------|
| Automatic fire detection & alarm systems | Clause 5 of AS 1670.1-2018, AS 1670.1 – 2018 & FSE Report | <input checked="" type="checkbox"/> |
| Automatic fire suppression systems | AS 2118.1 – 2017 BCA Spec E1.5 & FSE Report | <input checked="" type="checkbox"/> |
| Building occupant warning system | BCA Clause E2.2a, BCA Spec E2.2a, AS 1670.1-2018 & FSE Report | <input checked="" type="checkbox"/> |
| Emergency lighting | AS 2293.1 – 2018 E4.2, E4.4 | <input checked="" type="checkbox"/> |
| Exit signs | AS 2293.1 – 2018 E4.5, NSW E4.6 & E4.8 | <input checked="" type="checkbox"/> |
| Fire hydrant systems | AS 2419.1 – 2005 E1.3 | <input checked="" type="checkbox"/> |
| Fire seals (protecting openings in fire resisting components of the building) | AS 1530.4 – 2014, AS 1668.1-2015 C3.15 | <input checked="" type="checkbox"/> |
| Lightweight construction | C1.8, C1.13, C1.13a & FSE Report | <input checked="" type="checkbox"/> |
| Mechanical air handling systems (Auto shutdown) | AS/NZS 1670.1-2018 & NSW Spec E2.2b | <input checked="" type="checkbox"/> |
| Portable fire extinguishers & fire blankets | AS 2444 – 2001 E1.6 | <input checked="" type="checkbox"/> |
| Fire Safety Engineering Report (FSE Report) , Reference No. 013541, Revision C, issued by James O'Neill, BDC No. BDC3273 dated 23/01/2022 – Mass Timber Construction – Fire Rating External Walls – Travel Distances – Fire Extinguishers in Lieu of Fire Hose Reels – Deletion of Sprinklers to External Walkways | C1.1, C1.9, C1.13, C3.15, CP1, CP2 C1.1, Spec C1.1, CP2 D1.4(c) (i) DPA, EP2.2 E1.4 EP1.1 E1.5 EP1.4 | <input checked="" type="checkbox"/> |

DESIGN DOCUMENTATION

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

| Drawing No. | Titled | Prepared by | Revision | Dated |
|-------------|---|-------------|----------|------------|
| WD1101 | Overall Site Plan | Shac | 12 | 29/06/2023 |
| WD1102 | Overall Site Setout Plan | Shac | 16 | 29/06/2023 |
| WD1103 | Building Site Plan | Shac | 10 | 29/06/2023 |
| SK601 | Site Furniture Plan Ground | Shac | 00 | 17/02/2023 |
| SK602 | Site Furniture Plan First | Shac | 00 | 17/02/2023 |
| SK614 | Block A to E Connection | Shac | 01 | 14/03/2023 |
| WD2201 | Block A – Ground & First Floor Plan | Shac | 07 | 29/06/2023 |
| WD2211 | Block B – Ground Floor Plan | Shac | 10 | 29/06/2023 |
| WD2212 | Block B – First Floor Plan | Shac | 13 | 29/06/2023 |
| WD2221 | Block C – Ground Floor Plan | Shac | 07 | 29/06/2023 |
| WD2222 | Block C – First Floor Plan | Shac | 06 | 29/06/2023 |
| WD2231 | Block D – Ground & First Floor Plan | Shac | 09 | 29/06/2023 |
| WD2241 | Block E / F – Ground Floor Plan | Shac | 06 | 29/06/2023 |
| WD2311 | Block B - Ground Floor Reflected Ceiling Plan | Shac | 07 | 02/03/2023 |
| WD2312 | Block B - First Floor Reflected Ceiling Plan | Shac | 07 | 23/06/2023 |
| WD2313 | Block B Entry - First Floor Reflected Ceiling Plan | Shac | 06 | 02/03/2023 |
| WD2321 | Block C - Ground Floor Reflected Ceiling Plan | Shac | 06 | 02/03/2023 |
| WD2322 | Block C - First Floor Reflected Ceiling Plan | Shac | 06 | 02/03/2023 |
| WD2331 | Block D - Ground & First Floor Reflected Ceiling Plan | Shac | 07 | 02/03/2023 |
| WD2341 | Block E / F - Ground Floor Reflected Ceiling Plan | Shac | 06 | 02/03/2023 |
| WD2601 | Block A – Ground & First Floor Furniture Plan | Shac | 03 | 16/05/2023 |
| WD2611 | Block B – Ground Floor Furniture Plan | Shac | 04 | 16/05/2023 |
| WD2612 | Block B – First Floor Furniture Plan | Shac | 01 | 16/05/2023 |
| WD2621 | Block C – Ground Floor Furniture Plan | Shac | 03 | 16/05/2023 |
| WD2631 | Block D – Ground & First Floor Furniture Plan | Shac | 04 | 16/05/2023 |
| WD2641 | Block E / F – Ground Floor Furniture Plan | Shac | 03 | 16/05/2023 |
| WD3001 | Block A – Elevations 01 | Shac | 02 | 02/03/2023 |

| | | | | |
|--------|-----------------------------------|------|----|------------|
| WD3011 | Block B – Elevations 01 | Shac | 02 | 02/03/2023 |
| WD3012 | Block B – Elevations 02 | Shac | 02 | 02/03/2023 |
| WD3021 | Block C – Elevations 01 | Shac | 02 | 02/03/2023 |
| WD3022 | Block C – Elevations 02 | Shac | 02 | 02/03/2023 |
| WD3031 | Block D – Elevations 01 | Shac | 02 | 02/03/2023 |
| WD3032 | Block D – Elevations 02 | Shac | 02 | 02/03/2023 |
| WD3041 | Block E – Elevations 01 | Shac | 03 | 07/03/2023 |
| WD3051 | Block F – Elevations 01 | Shac | 02 | 02/03/2023 |
| WD4002 | External Stair Setout's | Shac | 10 | 09/06/2023 |
| WD4003 | External Stair Setout's | Shac | 09 | 09/06/2023 |
| WD4101 | Footbridge Setout | Shac | D | 13/06/2023 |
| WD4201 | External Ramps | Shac | 08 | 07/06/2023 |
| WD4202 | External Ramps | Shac | 09 | 07/06/2023 |
| WD4203 | External Ramps | Shac | 07 | 07/06/2023 |
| WD4301 | External Lift Setout | Shac | 02 | 28/03/2023 |
| WD5402 | Block E - Ground Floor Layouts 02 | Shac | 03 | 29/06/2023 |
| WD5501 | Block F - Ground Floor Layouts 01 | Shac | 03 | 29/06/2023 |
| WD5502 | Block F - Ground Floor Layouts 02 | Shac | 03 | 29/06/2023 |

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 Anthony Manning of School Infrastructure New South Wales, dated 15/02/2023
- Design Statement for SSD Condition issued by Elizabeth Brown of SHAC, dated 30/09/2022
- Message through Aconex for floor and fencing issued by Scott Button of Lyall & Associates Consulting Water Engineers, dated 24/01/2023
- Drawing for flood fence installation issued by Summit Flooring
- Design Certificate for Structural Works issued by Rodney Pratt on behalf of NorthRop Consulting Engineers Pty Ltd, dated 05/12/2022
- Message through Aconex for palisade fence issued by Scott Button of Lyall & Associates Consulting Water Engineers, dated 11/11/2022
- Email confirmation of Council Approval issued by Rebecca Deegan of Built Pty Ltd, dated 05/07/2023
- Approval Letter for Section 138 of Roads Act issued by Michael Cain of Narrabri Shire Council, dated 25/05/2023
- Design Statement Cover Letter for Electrical Services issued by Scott Day of Carter & Osborne Electrical, dated 13/10/2022
- Design Statement for Electrical Services issued by Electrical Projects Australia Pty Ltd, dated 13/10/2022
- Design statement for Traffic Review (Carparking) issued by issued by Paul Yannoulatos of TTW (NSW) Pty Ltd, dated 18/10/2023
- Design statement for Compliance with Conditions Of Consent – Item B39 (Waste Management) issued by Elizabeth Brown of SHAC, dated 10/07/2023

Information previously relied upon;

- Application form for Crown Certificate issued by Anthony Manning of School Infrastructure New South Wales, dated 15/02/2023
- Fire Engineering Report Reference No.143541 Version C issued by James O'Neil of Holmes Pty Ltd, dated 23/01/2022
- Weatherproofing Performance Solution Report Reference No. 211542 FAAB for Wee Waa High School DfMA Modular Façade System issued by Rami Khalil of TTW Pty Ltd, dated 28/09/2022
- External Wall System Disclosure Statement and associated Attachments issued by Rami Khalil of TTW Pty Ltd, dated 25/08/2022
- Fire Assessment Report No. FAS210158 Revision R2.1 for XLam CLT Wall Panels with Linings 0 Interface Temperature issued by Imran Ahamed of Warrington Fire, dated 11/08/2021
- Certificate of Conformity No. 20199 for CEMINTEL Surround Walling System issued by Calin Moldovean of Codemark Australia Pty Ltd, dated 27/01/2022
- External Wall System Disclosure Statement and associated Attachments issued by Rami Khalil of TTW Pty Ltd, dated 28/09/2022
- Design Statement for Electrical Services issued by Scott Day of Carter & Osborne Electrical Projects Australia, dated 13/10/2022
- Structural Design Certificate for Pile Foundations and associated Plans issued by Richard Addison of Tall Engineers Pty Ltd, dated 04/11/2022
- Property Condition Survey issued by Jen McCann of Ausdilaps, dated 28/07/2022
- Flood Levels Design Statement for issued by Elizabeth Brown of Shac, dated 30/09/2022
- Accessibility Design Statement issued by Eden Fong of Group DLA (NSW) Pty Ltd, dated 21/02/2023

- Design Statement for Non-Structural Earthquake issued by Elizabeth Brown of Shac, dated 27/01/2023
- Design Certificate for Electrical Works issued by Matthew Sutic of Electrical Projects Australia, dated 08/12/2022
- Design Statement for External Waterproofing issued by Elizabeth Brown of Shac, dated 27/01/2023
- Structural Design Statement and associated Plans issued by Rodney Pratt of Northrop Consulting Engineers Pty Ltd, dated 15/02/2022
- Design Certificate for Fire Services and associated Plans issued by Chris Hadjiyiannis of JHA Engineers, dated 31/01/2023
- Design Certificate for Inground Hydraulic & Fire Hydrant Services and associated Plans issued by Mohammad Osama Quddus of Epicentre Consulting Engineers (on behalf of Quick Plumbing), dated 12/12/2022
- Design Certificate for Lift issued by Geoffrey Devitt of Schindlers Lifts Australia Pty Ltd, dated 31/01/2023
- Design Statement for Natural Light issued by Elizabeth Brown of Shac, dated 27/01/2023
- Letter Confirming no UPS being Installed issued by Olivia O'Rourke of Built Pty Ltd, dated 14/02/2023
- Letter Confirming Address is not on Bushfire Prone Land issued by Paul Nelson of Built Pty Ltd, dated 08/02/2023
- Design Statement for Panic Bars to Hall issued by Elizabeth Brown of Shac, dated 27/01/2023
- Letter Confirmation of Population Numbers issued by Nicola Carcary of TSA Management, dated 08/02/2023
- Design Statement for Glazed Windows and Doors issued by Elizabeth Brown of Shac, dated 27/01/2023
- Design Statement for Heights of Buildings issued by Elizabeth Brown of Shac, dated 27/01/2023
- Letter in regard to Condition B33 of Development Consent issued by Brandon Notaras of E-LAB Consulting
- Structural Design Certificate and associated Report issued by Rodney Pratt of Northrop Pty Ltd, dated 15/02/2022
- Letter confirming Compliance of SSDA Condition B29 issued by Scott Button of Lyall & Associates Consulting Water Engineers, dated 11/11/2022
- Design Statement Endorsement issued by Carter and Osborne Electrical, issued by 13/10/2022
- Design Statement for Electrical Services issued by Matthew Campbell of Electrical Projects Australia, dated 13/10/2022
- Architects Specification Revision C issued by Shac, dated 27/01/2023
- Section J Part J1 JV3 Report Revision 04 issued by Guljit Bates of Built Pty Ltd, dated 28/06/2022
- Design Certificate for Mechanical Services issued by Dan Cornish of Austral Air Conditioning Services P/L, dated 24/01/2023
- Test Report No. P172324 for Accessories Vinyl tape 1.5mm Thickness 100mm Width issued by M.B Webb of APL Australia Pty Ltd, dated 09/09/2017
- Test Report No. 17-004590 for "Accessories" Wall Protector Adhered to Cement Sheet issued by Chris Campbell of Australian Wool Testing Authority Ltd, dated 19/0/2017
- Group Number Assessment No. 18-001335 for 2mm Wallflex Vinyl Wall Cladding issued by Chris Campbell of AWTA, dated 20/03/2018
- Fire Assessment Report No. FAS190252, Revision R12.0 for CSR Gyprock plasterboard and CSR Cemintel fibre cement product issued by Warringtonfire, dated 26/10/2022
- Group Number Assessment No. 20-005827 for Forbo Bulletin Board on 10mm Gyprock/plaster assembly Composite Panel issued by Fional McDonald of AWTA, dated 27/11/2020
- Fire Design Guide issued by XLam
- Test Report No. 7-582241-CV for "Taralay Premium Comfort" Vinyl Flooring Sheet issued by Michael A Jackson of Australian Wool Testing Authority Ltd, dated 30/11/2011

- Test Report No. 7-594308-CV for “Mipolam Elegance” Sheet Flooring issued by Michael A Jackson of Australian Wool Testing Authority Ltd, dated 28/10/2013
- Test Report No.20-001402 for “Mipolan Affinity EL7” Homogenous PVC Sheet issued by Michael A Jackson of Australian Wool Testing Authority Ltd, dated 09/06/2020
- Test report No. 7-579-534-CV for “Tarrasafe Super” Vinyl Flooring issued by Michael A Jackson of Australian Wool Testing Authority, dated 05/07/2011
- Test Report No. 7-579418-CV for “Tarrasafe Ultra Comfort” Vinyl Flooring issued by Michael A Jackson of Australian Wool Testing Authority Ltd, dated 30/06/2011
- Group Assessment Test Report No. 19-001059 for “Tarasafe Ultra” Vinyl Flooring issued by Michael A Jackson of Australian Wool Testing Authority Ltd, dated 06/03/2019
- Test Report No. 16001909 for “Taralay Premium Compact” Vinyl Flooring issued by Australian Wool Testing Authority Ltd, dated 19/05/2016
- Product Guide for Ecooustic Felt Panel (Elegant Acoustic Panels with High Performing White or Black Acoustic Core) issued by Instyle
- Test Report No. 17-001223 for “BK9 Cushion – Patina Vibes, Naturally Drawn, Momentum, Custom Prints” Loop Pile Carpet Tile with Cushion Backing issued by Michael A Jackson of Australian Wool Testing Authority, dated 05/04/2017
- Fire Assessment Report No. FAS220123 for Penetrations Protected by Promaseal CFC 32 Conduit Collar Revision No. R1.0 issued by Omar Saad of Warrington Fire, dated 26/07/2022
- Product Statement for fire ratings of ceramic tiles issued by Skheme
- Fire Rating Helpful Facts issued by Skheme
- Test Report No. 153707B for Tredsafe Diamondtred issued by M.B. Webb of APL Australia Pty Ltd, dated 26/11/2009
- Product Data Sheet for Galvabond Steel G2/G2S issued by Bluescope Steel Ltd
- Weatherproofing Performance Solution Report Reference No. 211542 FAAB issued by Rami Khalil of TWW (NSW) Pty Ltd, dated 30/08/2022
- Design Statement for Panic Bars to Main Exit Doors from Block C – Gymnasium/Hall Space issued by Elizabeth Brown of Shac, dated 27/02/2023
- Condition B45 - Meeting Minutes issued by School Infrastructure NSW & Narrabri Shire Council
- Consultants Advice for Water Service Storage Revision A issued by Mitchell McLennan of JHA, dated 22/09/2006
- Thermal Performance design statement issued by TTW, dated 28/02/2023

CONDITIONS OF APPROVAL

PART A – CONDITIONS OF CONSTRUCTION

| BCA CLAUSE | Comments |
|------------------------|--|
| BCA 2019 | 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 not less than 1.2kW/m² sprinkler protected. (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 for classrooms and public corridors, and Group 1, 2 or 3 for other areas • <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 Amend 1 referenced has specific Australian Standards that must be complied with.</p> |
| C3.15 | Fire Seals to Services and other Penetrations (Penetrations to fire rated walls, floors, ceilings, shafts or the like) – Any new fire seals, fire dampers, fire collars or the like are to be provided and installed to achieve compliance with BCA Clause C3.15, and the referenced Australian Standards AS 4072.1-2005 and AS 1530.4-2014 as referenced in the BCA 2019 Amendment 1. |
| 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, or clearance between other obstructions as a min for egress compliance. |
| D2.21 | All door latching mechanisms to be located between 900-1100mm from the finished floor level. |
| Disabled Access | Disabled access requirements including any requirements of Performance Solutions proposed or in place are to be designed, and constructed to comply with BCA Part D3, F2, AS 1428.1-2009, AS 2890.6 and the requirements of the Access to Premises standard. |
| 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 must be undertaken in accordance with the listed standards of performance and BCA clause requirements of the Fire Safety Schedule and Fire Engineering report. |

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