

BCA COMPLETION STATEMENT Building Code of Australia (BCA) 2016 Amendment One

Project Reference No. GDL190177

1. APPLICANT DETAILS

Name Hansen Yuncken Pty Ltd
Address Sydney Corporate Park Building 1, Level 3, 75-85 O'Riordan Street, Alexandria NSW 2015
Contact Tel: - Mobile: - Email: -

2. DETAILS OF THE BUILDING

Address SINSW - Catherine Field Public School, Catherine Fields NSW 2557 (Burrumurra School)
Description of the building (whole or part) Whole School (Buildings A – D & Building E)
BCA Classification 9b – Educational establishment

3. INFORMATION ATTACHED TO THIS DECISION

- Schedule "A" – Information relied upon in certificate determination
- Limitations / Exclusions

4. STATEMENT OF COMPLIANCE

I hereby confirm that:

- Based upon visual inspection, and reliance upon the submitted documentation it is our opinion the new works subject of this assessment have been satisfactorily completed in accordance with the Building Code of Australia 2016 Amendment One.

Certificate No: GDL190177 Date of this Certificate: 20/01/2021

Name: Brett Clabburn, NSW Fair Trading; BDC0064

Signature: 

Address: Suite 7.02, Level 7, 10 Bridge Street, Sydney NSW 2000

Contact Tel: 02 8355 3160

COMPLETION CERTIFICATE (continued)

Certificate No. **GDL190177**

5. DESIGN DOCUMENTATION

The Documentation and Architectural plans as listed in the BCA Design Statement issued by Group DLA for this project has been relied upon as part of the BCA assessment at the Design stage, and reliance upon this information continues for the issue of this BCA completion statement.

6. SCHEDULE A – INFORMATION RELIED UPON IN STATEMENT DETERMINATION

- Installation Certificate for Fire Services – Automatic Fail Safe Devices (Mechanical Trips), Automatic Fire Detection for Shutdown of AC, Fire Extinguishers, issued by Dieter Janssen of Force Fire, dated 01/12/2020
- Installation Certificate for Emergency Escape Lighting, Electrical Installations including Interior Lighting and Fire Penetrations to Buildings named Block B, Block C and Block D issued by Shaun Bradwell of Bradwell Electrics Pty Ltd, dated 10/12/2020
- Installation Certificate for Electrical Lighting issued by Luke Horinek of Kerfoot, dated 23/12/2020
- Installation Certificate for Fire Hydrant System issued by Mohammed El Said of Moeco Plumbing Services Pty Ltd, dated 14/12/2020
- Electrical Penetration Register, Revision 9 and associated plans issued by Australian Passive Fire, dated 16/12/2020
- Letter confirming Compliance of Item 10 (Fire Rated Elements) and associated Compliance Certificate issued by Matt McCrohon of Hansen Yuncken, dated 15/01/2021
- Installation Certificate for Partitions & Ceilings issued by Nikola Vujovic of Atlantic Interior Designs Pty Ltd, dated 14/12/2020
- Installation Certificate for Plasterboard, Gyprock EC08 Impact MR, Plasterboard, Gyprock Fyrecheck 13mm and 16mm, Plasterboard, Gyprock Standard 13mm, Villaboard, James Hardie 3000mm x 1200mm product 400355 & 400360, Fibre Cement Board, Cemintel Barestone in colour original, Cemintel Surround in Blackish and Greenback colour, Access Panels, Hume Building Products 450 x 450mm Access Panel Set Bead product MP450K, issued by Jun Shi of Jun Project Group Pty Ltd, dated 10/12/2020
- Installation Certificate for Mechanical Ventilation, Air-Conditioning, including Ductwork and Fire Penetrations to Buildings names Block B, Block C and Block D issued by Shaun Bradwell Pty Ltd, dated 10/12/2020
- Installation Certificate for Mechanical Services for Block A and E issued by Danny Canal of New Edge Group Australia Ltd, dated 05/01/2021
- Structural Engineering Statemen and associated Compliance Certificates, Custom Steel as Built Drawings and Northrop Structural Inspection Certificate Plans, issued by Matt McCrohon of Hansen Yuncken, dated 18/01/2021
- Letter confirming Compliance of Building Works to BCA 2016 Amendment 1, issued by Paul Todhunter of Hansen Yuncken, dated 18/01/2021
- Installation Certificate for Waterproof Membrane to Wet Areas in Buildings named Block A and Block E, issued by Awad Al Nsirat of Prestige Tiling Australia Pty Ltd, dated 13/01/2021
- Installation Certificate for Waterproof Membrane to relevant wares of Buildings named Block B, Block C and Block D, issued by Jun Shi of Jun Project Group Pty Ltd, dated 10/12/2020
- Compliance Certificate for Food Premises Design issued by Andrew John Frost of Cini Little Australia Pty Ltd, dated 18/12/2020
- Installation Certificate for Energy Efficiency (Artificial Lighting & Power) for Block A, Block E, External Lighting, Block B Amenities and Undercroft Area, Circulation Space, issued by Luke Horinek of Kerfoot, dated 23/12/2020
- Installation Certificate for Windows and Doors for Building A and E (Glazing) issued by Paul Borg of Supplied Holdings Pty Ltd, dated 17/12/2020
- Installation Certificate for Aluminium Windows and Doors to Buildings named Block B, Block C and Block D, issued by James Qu of Crown Windows Pty Ltd, dated 15/12/2020

COMPLETION CERTIFICATE (continued)

Certificate No. GDL190177

- Installation Certificate for NHQ Package 2 – SCR-01 and PMS (Balustrades) issued by Azhar M. Nasir of Safe Australia (SafeOz) Consulting Engineers, dated 07/01/2021
- Installation Certificate for Balustrades and Handrails issued by Rod Hogger of Coastwide Steel & Metalwork P/L, dated 09/12/2020
- Installation Certificate for Timber Screen Balustrade in Block A & Block B issued by Troy Marquart of Shoreline Carpentry & Joinery Pty Ltd, dated 08/01/2021
- Installation Certificate for Plumbing and Drainage work, including all relevant fire penetrations related to Buildings named Block B, Block C and Block D, issued by Grant Ryan of Grant Ryan Plumbing, dated 10/12/2020
- Installation Certificate for Blocks A & E including: Connections to existing services, Sanitary plumbing and drainage, Cold water services, Gas Services, Hot and warm water services, Fire hydrant systems, Fire hose reel systems, Supply and installation of fixtures and fittings, Building works including core holes and penetrations & condensate drainage. Excludes POD systems (Refer to ITPs for more information), issued by Mohamed El Said of Moeco Plumbing Services Pty Ltd, dated 14/12/2020
- Installation Certificate for Stormwater issued by James Park of Rainbow Group Pty Ltd, dated 17/12/2020
- Certificate of Conformity Reference No. CM20199 Rev 1 for CEMINTEL® Surround Walling System issued by Quintin Kleyn of CSR Building Products Limited (Trading as CSR Cemintel), dated 17/03/2020
- Installation Certificate and supporting documentation for External Walls to Blocks A & E issued by Nikola Vujovic of Atlantic Interior Designs Pty Ltd, dated 14/12/2020
- Installation Certificates and supporting documentation for External Walls Block to Blocks B, C and D issued by Jun Shi of Jun Project Group Pty Ltd, dated 17/12/2020
- Certificate of Conformity Reference No. CM20198 for CEMINTEL® Barestone Walling System and supporting documentation issued by Quintin Kleyn of CSR Building Products Limited (Trading as CSR Cemintel), dated 17/03/2020
- Installation Certificate for Top Hats, Villaborad/Aluminium Packers, FC sheet at spandrel as per FER & CSR Barestone/Surround Cladding System to relevant areas in Buildings named Block A and Block E, issued by Nikola Vujovic of Atlantic Interior Design, dated 06/01/2021
- Installation Certificate for Top Hats, Villaborad/Aluminium Packers, Tenmat fire batten at spandrel, FC sheet at spandrel as per FER, CSR Barestone/Surround Cladding System and 1 coat of anti-graffiti paint protection to relevant areas in Buildings named Block B, Block C and Block D, issued by Jun Shi of Jun Project Group Pty Ltd, dated 17/12/2020
- Installation Certificate for Metal Roofing and External Wall Cladding to Block A & E issued by David Hanson of Axis Metal Roofing Pty Ltd, dated 11/12/2020
- Statement of Compliance regarding Internal Linings and supporting documentation issued by Matt McCrohon of Hansen Yuncken, dated 18/01/2021
- Fire Assessment Report – FAR 4659 Issue 2 – Assessment Report on Fire Performance of Knauf Plasterboard Lining Products, prepared by L. F. Hersche of BRANZ, dated 21/03/2019
- Test Report Reference No. 20-001570 for “BK 16 Base (Multi-Colour/Multi-Design)” Loop Pile Carpet Plank Flooring with WellBAC Comfort Backing issued by Michael A. Jackson of AWTA Product Testing, dated 16/04/2020
- Technical Data Sheet for Supacoustic, Supaline FR MDF Panels – Fire Group 1 and Supafinish and Supacolour
- Certificate of Assessment for Supawood Architectural Lining Systems, Certificate No. FAS200004 SFC1.5, prepared by Alim Rasel of Warringtonfire Australia Pty Ltd, dated 09/09/2020
- BRANZ Type Test Reference No. FI11064-001-TT for Fire Test of Supacoustic, issued by P. C. R Collier of BRANZ, dated 21/12/2018
- Group Number Assessment Test Number. 18-001335 for “2mm Wallflex” for Vinyl Wall Cladding issued by Chris Campbell of AWTA Product Testing, dated 20/03/2018

COMPLETION CERTIFICATE (continued)

Certificate No. GDL190177

- Fire Protection Certificate for 20mm Thick Blackbutt Tongue and Groove Flooring issued by Troy Marquart of Shoreline Sports Floors, dated 18/12/2020'
- Test Report Reference No. 15-006003 for Surestep/Safestep 171952 Vinyl Flooring issued by Michael A. Jackson of AWTA Product Testing, dated 13/01/2016
- Fire Assessment Report Project Reference No. FAS190252, Report No. 45959, Revision R11.0 for CSR Gyprock Plasterboard and CSR Cemintel Fibre Cement Products assessed with Group Numbers, prepared by Hon Wong of Warrington Fire, dated 11/08/2020
- Branz Technical Opinion Reference No. FC11329-001 regarding Assessment Report on the Fire Performance of Supafinish on Supaslat with variations to the Tested Specification, prepared by P. C. R Collier of BRANZ, dated 12/12/2019
- Statement addressing Condition D2 – External Wall and Cladding, issued by Colin Chang of Atlantic Interior Designs, dated 16/12/2020.
- Installation Certificate addressing Condition D2 – External Wall and Cladding, issued by Jun Shi of Jun Project Group Pty Ltd, dated 17/12/2020.
- Statement addressing Condition D4 – Landscaping, issued by Matt McCrohon of Hensen Yuncken Pty Ltd, dated 19/01/2021.
- Compliance Certificate addressing Condition D7 – Utilities and Services, issued by Kathy Hansen and Nathaniel Ananin of Sydney Water, dated 16/12/2020.
- Statement addressing Condition D10 – Works as Executed Plans and associated plans, issued by Matt McCrohon of Hensen Yuncken Pty Ltd, dated 18/01/2021.
- Installation Certificate addressing Condition D16 – Mechanical Ventilation (Building A & E), issued by Danny Canal of New Edge Group Pty Ltd, dated 05/01/2021.
- Installation Certificate addressing Condition D16 – Mechanical Ventilation, issued by Shaun Bradwell of Bradwell Group Pty Ltd, dated 18/12/2020.
- Installation Certificate addressing Condition D17 – Design of Mechanical Plant and Equipment, issued by Isabella Adlington of Northrop Consulting Engineers Pty Ltd, dated 13/01/2021.
- Statement addressing Condition D18 – Carparking Arrangements, issued by Matt McCrohon of Hensen Yuncken Pty Ltd, dated 08/01/2021.
- Statement addressing Condition D19 – Bicycle Parking and End of Trip Facilities, issued by Sam Rigoli of Perumal Pedavoli ty Ltd, dated 24/11/2020.
- Copy of email addressing Condition D21 – Fire Safety Certification, issued by Matt McCrohon of Hensen Yuncken Pty Ltd, dated 18/01/2021.
- Statement addressing Condition D22 – Structural Inspection Certificate and associated plans, issued by Matt McCrohon of Hensen Yuncken Pty Ltd, dated 18/01/2021.
- Compliance Certificate addressing Condition D23 – Compliance with Food Code, issued by Andrew J. Frost of Cini Little Australia Pty Ltd, dated 18/12/2020.
- Copy of email addressing Condition D23 – Compliance with Food Code, issued by Matt McCrohon of Hensen Yuncken Pty Ltd, dated 13/01/2021.
- Statement addressing Condition D26 – Stormwater Quality Management Plan and associated WSUD Maintenance Schedule (Northrop), issued by Matt McCrohon of Hensen Yuncken Pty Ltd, 13/01/2021.
- Installation Certificate addressing Condition D27 – Warm Water Systems and Cooling Systems, issued by Mohamed El Said of Moeco Plumbing Pty Ltd, dated 01/12/2020.
- Installation Certificate addressing Condition D27 – Warm Water Systems and Cooling Systems (Buildings B, C & D), issued by Grant Ryan of Grant Ryan Plumbing Pty Ltd, dated 11/12/2020.
- Installation Certificate addressing Condition D28 – Outdoor Lighting, issued by Luke Horinek of Kerfoot Pty Ltd, dated 23/12/2020.

COMPLETION CERTIFICATE (continued)

Certificate No. **GDL190177**

- Copy of Operational Waste Management Plan (Barramurra Public School) addressing Condition D31 – Operation Waste Management Plan, issued by the Department of Education of Australia (NSW), dated 2021.
- Statement addressing Condition D32 – Landscaping, and associated Landscape Management Plan (Stone Will Landscaping), issued by Matt McCrohon of Hensen Yuncken Pty Ltd, dated 13/01/2021.
- Fire Safety Engineer’s Compliance Statement (Clause 153A), issued by Mark McDaid of MCD Fire Engineering Pty Ltd, dated 19.01.2021.
- Disabled Access Compliance Statement, issued by Tegan Ma of Duchateau Chun, dated 20.01.2021.
- Access Performance Solution Report, issued by Tegan Ma of Chateau Chun (Report No. 19132-201-PS01), dated 18/12/2020.
- Statement addressing Condition D25 – Drainage Infrastructure, issued by James Gilligan of Northrop, dated 19.01.2021.

7. LIMITATIONS / EXCLUSIONS

- Compliance with the Disability Discrimination Act (DDA); Disability (Access to Premises – Buildings) Standards 2010.
- Testing or Commissioning of any fire or related services. Refer to relevant certification of compliance issued for any measures altered, modified or installed as part of these works.
- This statement is issued for those elements not the subject of design or installation certification issued and listed in the statement
- Our assessment is limited to a visual inspection of accessible areas only and does not include review of any concealed spaces or the level of compliance of any elements of the base building unaffected by the subject scope of works.
- This statement excludes any Development Consent requirements or associated conditions of any planning requirements for these works, and relates to confirmation of BCA compliance only subject to the above exclusions/limitations.

8. FIRE SAFETY SCHEDULE

Building A-D

Fire Safety Measure	Standard	BCA Clause(s)	Installed Fire Safety Measures
Access panels, doors & hoppers to fire resisting shafts	AS 1530.4 – 2014	C3.13	<input checked="" type="checkbox"/>
Automatic fail-safe devices	--	C3.8, D2.21, Spec C3.4	<input checked="" type="checkbox"/>
Automatic fire detection & alarm systems (associated to automatic shut-down system)	AS 1670.1 – 2015 AS 1668.1 – 2015	Spec E2.2b	<input checked="" type="checkbox"/>
Emergency lighting	AS 2293.1 – 2005	E4.2, E4.4	<input checked="" type="checkbox"/>
Exit signs	AS 2293.1 – 2005	E4.5, NSW E4.6 & E4.8, EP4.2	<input checked="" type="checkbox"/>
Fire dampers	AS 1668.1 – 2015	Spec E2.2a	<input checked="" type="checkbox"/>
Fire doors	AS 1905.1 – 2015	Spec C3.4, C3.10	<input checked="" type="checkbox"/>
Fire hydrant systems	AS 2419.1 – 2005	E1.3, EP1.3	<input checked="" type="checkbox"/>
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	<input checked="" type="checkbox"/>
Lightweight construction	--	C1.8, Spec C1.8, CP1, CP2	<input checked="" type="checkbox"/>
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	<input checked="" type="checkbox"/>
Portable fire extinguishers & fire blankets	AS 2444 – 2001	E1.6	<input checked="" type="checkbox"/>
Paths of Travel	--	D1.6, DP4, DP5, DP6, EP2.2	<input checked="" type="checkbox"/>
<p>Fire Engineering Performance Solutions prepared by MCD Fire Engineering.</p> <p>Rev: FER2.0, date: 20/11/2020;</p> <ol style="list-style-type: none"> To review and permit a reduction in spandrel/balcony separation between vertically aligned openings for building of Type A construction (Blocks A-D). To permit the reduction in general FRLs; <ul style="list-style-type: none"> from the required FRL of 120 minutes down to 60 minutes for building of Type A construction, i.e., main School Buildings (Blocks A-D); from the required FRL of 90 minutes down to 60 minutes for building of Type C construction, i.e., Hall Building (Block E). To permit the reduction of FRLs to the floors for buildings of Type A construction (Blocks B, C & D), from 120/120/120 to a 	<p>C2.6, CP2</p> <p>Spec C1.1, Table 3, Table 5, CP1 and CP2</p> <p>Spec C1.1, Clause 3.1 Table 3, CP1 and CP2</p>		<input checked="" type="checkbox"/>

COMPLETION CERTIFICATE (continued)

Certificate No. **GDL190177**

Fire Safety Measure	Standard	BCA Clause(s)	Installed Fire Safety Measures
<p>ceiling having a Resistance to Incipient Spread of Fire (RISF) of 60 minutes.</p> <p>4. To permit the use of combustible sarking material (Bradford Enviroseal ProctorWrap RW) inside the external walls of the building of Type A construction (Blocks A-D).</p> <p>5. To permit the use of plywood timber noggings/reinforcement (for handrails/grabrails/wall mounted wet areas systems such as WHBs etc) in cavities of fire rated walls (internal or external) and non-fire-rated external walls the building of Type A construction (Blocks A-D).</p> <p>6. The residual pressure of internal fire hydrants is to be designed in accordance with AS 2419.1-2017 instead of AS 2419.1-2005, i.e., 250 kPa instead of 700 kPa by viewing them as "unassisted attack fire hydrant".</p> <p>7. To permit the location of the fire hydrant booster to not technically be within sight of each building entry on the site, and not adjacent to the vehicular entrance.</p> <p>8. To permit the omission of Fire Hose Reels serving parts of the buildings that are not forming part of the main classroom areas of the building (i.e. admin, BOH, etc).</p>	<p>C1.9, CP2, CP4</p> <p>C1.9, Spec C1.1, Clause 3.1(d), CP2, CP4</p> <p>E1.3, AS 2419.1, EP1.3</p> <p>E1.3, AS 2419.1, EP1.3</p> <p>E1.4, EP1.1</p>		

Building E

Fire Safety Measure	Standard	BCA Clause(s)	Installed Fire Safety Measures
Access panels, doors & hoppers to fire resisting shafts	AS 1530.4 – 2014	C3.13	<input type="checkbox"/>
Automatic fail-safe devices	--	C3.8, D2.21, Spec C3.4	<input checked="" type="checkbox"/>
Automatic fire detection & alarm systems (associated to automatic shut-down system)	AS 1670.1 – 2015 AS 1668.1 – 2015	Spec E2.2b	<input checked="" type="checkbox"/>
Emergency lighting	AS 2293.1 – 2005	E4.2, E4.4	<input checked="" type="checkbox"/>
Exit signs	AS 2293.1 – 2005	E4.5, NSW E4.6 & E4.8, EP4.2	<input checked="" type="checkbox"/>
Fire doors	AS 1905.1 – 2015	Spec C3.4, C3.10	<input checked="" type="checkbox"/>

COMPLETION CERTIFICATE (continued)

Certificate No. **GDL190177**

Fire Safety Measure	Standard	BCA Clause(s)	Installed Fire Safety Measures
Fire hydrant systems	AS 2419.1 – 2005	E1.3, EP1.3	<input checked="" type="checkbox"/>
Lightweight construction	--	C1.8, Spec C1.8, CP1, CP2	<input checked="" type="checkbox"/>
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	<input checked="" type="checkbox"/>
Portable fire extinguishers & fire blankets	AS 2444 – 2001	E1.6	<input checked="" type="checkbox"/>
Paths of Travel	--	D1.6, DP4, DP5, DP6, EP2.2	<input checked="" type="checkbox"/>
<p>Fire Engineering Performance Solutions prepared by MCD Fire Engineering. Rev: FER2.0, date: 20/11/2020;</p> <ol style="list-style-type: none"> To review and permit a reduction in spandrel/balcony separation between vertically aligned openings for building of Type A construction (Blocks A-D). To permit the reduction in general FRLs; <ul style="list-style-type: none"> from the required FRL of 120 minutes down to 60 minutes for building of Type A construction, i.e., main School Buildings (Blocks A-D); from the required FRL of 90 minutes down to 60 minutes for building of Type C construction, i.e., Hall Building (Block E). To permit the reduction of FRLs to the floors for buildings of Type A construction (Blocks B, C & D), from 120/120/120 to a ceiling having a Resistance to Incipient Spread of Fire (RISF) of 60 minutes. To permit the use of combustible sarking material (Bradford Enviroseal ProctorWrap RW) inside the external walls of the building of Type A construction (Blocks A-D). To permit the use of plywood timber noggings/reinforcement (for handrails/grabrails/wall mounted wet areas systems such as WHBs etc) in cavities of fire rated walls (internal or external) and non-fire-rated external walls the building of Type A construction (Blocks A-D). 	<p>C2.6, CP2</p> <p>Spec C1.1, Table 3. Table 5, CP1 and CP2</p> <p>Spec C1.1, Clause 3.1 Table 3, CP1 and CP2</p> <p>C1.9, CP2, CP4</p> <p>C1.9, Spec C1.1, Clause 3.1(d), CP2. CP4</p>	<p><input checked="" type="checkbox"/></p>	

COMPLETION CERTIFICATE (continued)

Certificate No. GDL190177

Fire Safety Measure	Standard	BCA Clause(s)	Installed Fire Safety Measures
6. The residual pressure of internal fire hydrants is to be designed in accordance with AS 2419.1-2017 instead of AS 2419.1-2005, i.e., 250 kPa instead of 700 kPa by viewing them as “unassisted attack fire hydrant”.	E1.3, AS 2419.1, EP1.3		
7. To permit the location of the fire hydrant booster to not technically be within sight of each building entry on the site, and not adjacent to the vehicular entrance.	E1.3, AS 2419.1, EP1.3		
8. To permit the omission of Fire Hose Reels serving parts of the buildings that are not forming part of the main classroom areas of the building (i.e. admin, BOH, etc).	E1.4, EP1.1		
9. To Permit the exit door handles (latches) greater than a.1m above floor level (up to 1.2m instead)	D2.21(a)(i), DP4, EP2.2		

20/01/2021

Hansen Yuncken Pty Ltd
Attention: Nader Zreik
Sydney Corporate Park Building 1, Level 3, 75-85 O'Riordan Street
Alexandria NSW 2015

**BCA Completion Statement No. GDL190177
SINSW - Catherine Field Public School, Catherine Fields NSW 2557**

I am pleased to forward your BCA Completion Statement for this project.

Should you have any queries regarding this matter please do not hesitate to contact the undersigned on 02 8355 3160.

Yours sincerely



Brett Clabburn
Director