

## Certificate

## Construction Compliance - SSDA

**DATE** 24/11/2022  
**TO** Richard Crookes Constructions Pty Ltd  
**PROJECT** Upgrade to Chatswood Public School – Building P1/P2

I, Bryan King  
of SCP Consulting Pty Ltd  
at Level 20, 1 Market Street, Sydney NSW 2000

**Hereby certify that:**

- 1 I am a practicing structural engineer certified under NER.
- 2 I am the holder of documentary evidence from Engineers Australia to that effect.
- 3 I am currently practicing as a Structural Engineer with SCP Consulting Pty Ltd, of which I am a Director.
- 4 I have carried out, or have caused to have carried out, periodic inspections of the structural work during the construction. SCP Consulting did not act in a supervisory capacity and could only observe the status of the work at the time of the inspection.
- 5 In accordance with DA Condition D10a, I am satisfied that the structural works inspected for the above project have been constructed in accordance with the intent of the structural engineering drawings and written engineering instructions issued up to the time of the inspections.
- 6 In accordance with DA Condition D10b, the drawings listed have been checked with those listed on the final Design Certificate. The structural engineering drawings referred to in this certificate are:

DRAWING #	TITLE	REVISION
PS-STR-P-DW-0000	TITLE SHEET	2
PS-STR-P-DW-0010	BUILDING P LOADING PLANS SHEET 1	2
PS-STR-P-DW-0011	BUILDING P LOADING PLANS SHEET 2	2

DRAWING #	TITLE	REVISION
PS-STR-P-DW-0012	BUILDING P LOADING PLANS SHEET 3	2
PS-STR-P-DW-0301	BUILDING P1 FOOTING PLAN	6
PS-STR-P-DW-0302	BUILDING P2 FOOTING PLAN	6
PS-STR-P-DW-0305	FOOTING DETAILS SHEET 1	5
PS-STR-P-DW-0306	FOOTING DETAILS SHEET 2	4
PS-STR-P-DW-0307	FOOTING DETAILS SHEET 3	6
PS-STR-P-DW-0308	FOOTING DETAILS SHEET 4	4
PS-STR-P-DW-0309	FOOTING DETAILS SHEET 5	4
PS-STR-P-DW-0310	FOOTING DETAILS SHEET 6	4
PS-STR-P-DW-0311	FOOTING DETAILS SHEET 7	6
PS-STR-P-DW-0312	BUILDING P FOOTING DETAILS SHEET 8	4
PS-STR-P-DW-0313	FOOTING DETAILS SHEET 9	3
PS-STR-P-DW-0401	COLUMN SCHEDULE LOWER GROUND 2 & 1	5
PS-STR-P-DW-0402	COLUMN SCHEDULE GROUND FLOOR	5
PS-STR-P-DW-0403	COLUMN SCHEDULE LEVEL 1	3
PS-STR-P-DW-0404	COLUMN SCHEDULE LEVEL 2	3
PS-STR-P-DW-0405	COLUMN SCHEDULE LEVEL 3	3
PS-STR-P-DW-0406	COLUMN SCHEDULE LEVEL 4	3
PS-STR-P-DW-0501	P1 WALL SCHEDULE & ELEVATIONS SHEET 1	2
PS-STR-P-DW-0502	P1 WALL SCHEDULE & ELEVATIONS SHEET 2	2
PS-STR-P-DW-0510	P2 WALL SCHEDULE & ELEVATIONS SHEET 1	2
PS-STR-P-DW-0511	P2 WALL SCHEDULE & ELEVATIONS SHEET 2	2
PS-STR-P-DW-0801	BUILDING P1 - STAIR SCHEDULES & ELEVATIONS	2
PS-STR-P-DW-0802	BUILDING P2 - STAIR SCHEDULES & ELEVATIONS SHEET 1	2
PS-STR-P-DW-0803	BUILDING P2 - STAIR SCHEDULES & ELEVATIONS SHEET 2	2
PS-STR-P-DW-0850	TYPICAL R.C. STAIR DETAILS - FLIGHT TYPES	2
PS-STR-P-DW-0851	TYPICAL R.C. STAIR DETAILS - LANDING TYPES	2
PS-STR-P-DW-0901	BUILDING P1 - LOWER GROUND FLOOR 2 GENERAL ARRANGEMENT PLAN	4
PS-STR-P-DW-0902	BUILDING P1 - LOWER GROUND FLOOR 2 REINFORCEMENT PART PLAN	2
PS-STR-P-DW-0905	SLAB ON GROUND DETAILS SHEET 1	2
PS-STR-P-DW-0906	SLAB ON GROUND DETAILS SHEET 2	2

DRAWING #	TITLE	REVISION
PS-STR-P-DW-0910	BUILDING P1 - LOWER GROUND FLOOR 1 GENERAL ARRANGEMENT PLAN	5
PS-STR-P-DW-0920	GROUND FLOOR GENERAL ARRANGEMENT PLAN - BUILDING P1	3
PS-STR-P-DW-0921	GROUND FLOOR GENERAL ARRANGEMENT PLAN - BUILDING P2	6
PS-STR-P-DW-0922	BUILDING P - BUILDING P2 GROUND FLOOR REINFORCEMENT PART PLAN	2
PS-STR-P-DW-0930	SUSPENDED FLOOR DETAILS SHEET 1	2
PS-STR-P-DW-0931	SUSPENDED FLOOR DETAILS SHEET 2	3
PS-STR-P-DW-0932	SUSPENDED FLOOR DETAILS SHEET 3	4
PS-STR-P-DW-0933	SUSPENDED FLOOR DETAILS SHEET 4	5
PS-STR-P-DW-0934	SUSPENDED FLOOR DETAILS SHEET 5	5
PS-STR-P-DW-0940	LEVEL 1 GENERAL ARRANGEMENT PLAN - BUILDING P1	3
PS-STR-P-DW-0941	LEVEL 1 GENERAL ARRANGEMENT PLAN - BUILDING P2	5
PS-STR-P-DW-0950	LEVEL 2 GENERAL ARRANGEMENT PLAN - BUILDING P1	4
PS-STR-P-DW-0951	LEVEL 2 GENERAL ARRANGEMENT PLAN - BUILDING P2	5
PS-STR-P-DW-0960	LEVEL 3 GENERAL ARRANGEMENT PLAN - BUILDING P1	4
PS-STR-P-DW-0961	LEVEL 3 GENERAL ARRANGEMENT PLAN - BUILDING P2	5
PS-STR-P-DW-0970	LEVEL 4 GENERAL ARRANGEMENT PLAN - BUILDING P1	4
PS-STR-P-DW-0971	LEVEL 4 GENERAL ARRANGEMENT PLAN - BUILDING P2	5
PS-STR-P-DW-0980	ROOF LEVEL GENERAL ARRANGEMENT PLAN - BUILDING P1	4
PS-STR-P-DW-0981	ROOF LEVEL GENERAL ARRANGEMENT PLAN - BUILDING P2	2
PS-STR-P-DW-0985	ROOF LEVEL REINFORCEMENT PLANS	2
PS-STR-P-DW-1002	ROOF FRAMING PLAN - BUILDING P2	4
PS-STR-P-DW-1050	STEEL DETAILS SHEET 1	2
PS-STR-P-DW-1051	STEEL DETAILS SHEET 2	3
PS-STR-P-DW-1052	STEEL DETAILS SHEET 3	4
PS-STR-P-DW-1055	PLATE CONNECTION DETAILS	2

DRAWING #	TITLE	REVISION
PS-STR-P-DW-1060	MISCELLANEOUS STEELWORK - SHEET 1	2
PS-STR-P-DW-1061	MISCELLANEOUS STEELWORK - SHEET 2	2
X-STR-W-DW-0001	GENERAL NOTES SHEET 1	3
X-STR-W-DW-0002	GENERAL NOTES SHEET 2	2
X-STR-W-DW-0450	COLUMN DETAILS SHEET 1	2
X-STR-W-DW-0451	COLUMN DETAILS SHEET 2	2
X-STR-W-DW-0550	TYPICAL WALL DETAILS SHEET 1	2
X-STR-W-DW-0551	TYPICAL WALL DETAILS SHEET 2	2
X-STR-W-DW-0552	TYPICAL WALL DETAILS SHEET 3	2
X-STR-W-DW-0555	DINCEL WALL DETAILS	2
X-STR-W-DW-0701	MASONRY WALL DETAILS SHEET 1	3
X-STR-W-DW-0702	MASONRY WALL DETAILS SHEET 2	2

- 7 In providing this Certificate, I have relied upon the following documentation supplied to me regarding the construction:
- Copies of our Engineering Inspection Reports signed off that any rectification work noted in the reports has been completed.
  - Signed copies of certification of bearing pressures by the Geotechnical Engineer.
  - Documents indicating the 28-day compression strengths achieved by test cylinders taken from the concrete supplied.
  - Copies of certification of the fabrication and erection of the structural steel by the subcontractor.
- 8 This Certificate excludes the following elements which have been designed and, constructed and certified by others:
- Post tensioned floor slabs by Australian Post-Tensioning Pty Ltd. Refer to attached certificate.
  - Piled foundation by ACECivil Pty Ltd. Refer to attached certificate.
  - Roof Structure over P1 and Link Bridge by AUSTRUSS. Refer to attached certificate.
  - Structural Steel by GK BLUE Pty Ltd. Refer to attached certificate.
- 9 This certificate does not relieve any other party of its responsibilities, liabilities or contractual obligations.

Yours faithfully  
SCP Consulting Pty Ltd

A handwritten signature in black ink, appearing to read 'B. King'.

**Bryan King** BEng (Struct), MIEAust CPEng NER APEC Eng IntPE(Aus)  
Director



## **INSTALLATION CERTIFICATE**

Ref. : IC-FP-7471-11  
Date : 26-10-2022  
Project : Chatswood Educational Precinct - Public School - Building P1  
Type of Building Work : Foundation Piles

Pursuant to the provisions of the Environment Planning and Assessment Regulations 2000 and Clause A2.2 of the Building Code of Australia:

I, Mohammed Zeidan of ACE Civil Pty Ltd

confirm that the works have been completed in accordance with the design documentation, regulatory and other statutory requirements. This includes but not limited to:

1. ACE Civil Design Structural Drawings:
  - a) PS-STR-P1-ACE-DW-FP 0301, Revision C, 22 July 2021 by ACE Civil Pty Ltd
  - b) PS-STR-P1-ACE-DW-FP 0301, Revision C, 22 July 2021 by ACE Civil Pty Ltd
2. Architectural Drawings by Architectus Drawings:
  - a) PS-AR-P-DW-1000, Revision 7, dated 11 March 2022
  - b) PS-AR-P-DW-1001, Revision 12, dated 5 August 2022
  - c) PS-AR-P-DW-1002, Revision 5, dated 3 December 2021
  - d)
3. Geotechnical engineering including piling, pile caps and shotcrete walls has been installed in accordance with Geotechnical Report by PSM Consult Pty Ltd, Report PSM4133-003R dated 03 November 2020
4. Australian Standards AS 1170.0-2002 Structural Design Actions Part 0 General Principles
5. Australian Standards AS1170.1-2002 Structural Design Actions Part 1 Permanent, Imposed and Other Actions.
6. Australian Standards AS 1170.2-2011 Structural Design Actions Part 2 Wind Actions
7. Australian Standards AS1170.4-2007 Structural Design Actions Part 4 Earthquake Actions in Australia
8. Australian Standards AS3600-2018, Concrete structures.
9. Australian Standards AS2159-2009, Piling – Design and installation.
10. BCA 2019 Amendment 1

I also certify that I am an appropriately qualified and competent person practicing in the relevant area of work. I have recognised relevant experience in the area of work being certified. My employer holds appropriate current professional indemnity insurance to the satisfaction of the building owner or the principal authorising the design work being certified.

Mohammed Zeidan  
BEng(Civil) | MIEAust 3779021



## **INSTALLATION CERTIFICATE**

Ref. : IC-FP-7471-10  
Date : 26-10-2022  
Project : Chatswood Educational Precinct - Public School - Building P2  
Type of Building Work : Foundation Piles

Pursuant to the provisions of the Environment Planning and Assessment Regulations 2000 and Clause A2.2 of the Building Code of Australia:

I, Mohammed Zeidan of ACE Civil Pty Ltd

confirm that the works have been completed in accordance with the design documentation, regulatory and other statutory requirements. This includes but not limited to:

1. ACE Civil Design Structural Drawings:
  - a) PS-STR-P2-ACE-DW-FP 0301, Revision C, 22 July 2021 by ACE Civil Pty Ltd
  - b) PS-STR-P2-ACE-DW-FP 0302, Revision C, 22 July 2021 by ACE Civil Pty Ltd
2. Architectural Drawings by Architectus Drawings:
  - a) PS-AR-P-DW-1003, Revision 12, dated 30 September 2022
  - b) PS-AR-P-DW-4003, Revision 13, dated 30 March 2022
3. Geotechnical engineering including piling, pile caps and shotcrete walls has been installed in accordance with Geotechnical Report by PSM Consult Pty Ltd, Report PSM4133-003R dated 03 November 2020
4. Australian Standards AS 1170.0-2002 Structural Design Actions Part 0 General Principles
5. Australian Standards AS1170.1-2002 Structural Design Actions Part 1 Permanent, Imposed and Other Actions.
6. Australian Standards AS 1170.2-2011 Structural Design Actions Part 2 Wind Actions
7. Australian Standards AS1170.4-2007 Structural Design Actions Part 4 Earthquake Actions in Australia
8. Australian Standards AS3600-2018, Concrete structures.
9. Australian Standards AS2159-2009, Piling – Design and installation.
10. BCA 2019 Amendment 1

I also certify that I am an appropriately qualified and competent person practicing in the relevant area of work. I have recognised relevant experience in the area of work being certified. My employer holds appropriate current professional indemnity insurance to the satisfaction of the building owner or the principal authorising the design work being certified.

Mohammed Zeidan  
BEng(Civil) | MIEAust 3779021

Our Reference: N21005 – Cert 010

21/10/2022

Dear Sir/Madam,

**RE: Structural Certificate – Chatswood PS & HS – Pacific Highway Site**  
**Structural Certification of Engineering Design –**  
**SSDA -9483 Condition D10 Submission Prior to OC**

We hereby certify that this firm has undertaken the structural engineering design and documentation of selected items at the above project within the requirements of;

- the Building Code of Australia,
- AS3600 – 2018/Amdt 1-2019,
- AS1170.0:2002 – Structural Design Actions Part 0 General Principles
- AS1170.1:2002 - Structural Design Actions Part 1 Permanent, Imposed and Other Actions
- AS1170.2:2011 – Structural Design Actions Part 2 Wind Actions
- AS1170.4:2007 – Structural Design Actions Part 4 Earthquake Actions in Australia
- AS4100:2020 – Steel Structures
- and accepted engineering practice.

The selected structural elements covered by this certification include the following items:

- Building P1 – Lower Ground 1
- Building P1 – Ground Floor
- Building P1 – Level 1
- Building P1 – Level 2
- Building P1 – Level 3
- Building P1 – Level 4
- Building P2 – Level 1
- Building P2 – Level 2
- Building P2 – Level 3
- Building P2 – Level 4

We hereby confirm that inline with SSD 9483 Condition D10, D10a and D10b the site has been periodically inspected and the Certifier is satisfied that the structural works is deemed to comply with the final design drawings and as amended by issued Quantum Consulting Engineers Site Instructions / Reports. We hereby confirm the drawings listed on the Inspection Certificate have been checked with those listed on the final Design Certificate/s.

This certificate does not relieve the Builder of their responsibility as supervisors and to ensure the Quantum Consulting Engineers pre-pour site inspection reports are completed in full.

If you require any further information regarding this matter, do not hesitate to contact this office.

Yours sincerely



Lance Rogers  
Managing Director  
B.E.(Civil), MIEAust, NPER



**Building P**

## Quantum Drawing List

Building	#	DESCRIPTION	LEVEL	POUR #	REV #
P1	N848-S005	CONCRETE PROFILE	LG1	P1	01
P1	N848-S006	BOTTOM REINFORCEMENT	LG1	P1	01
P1	N848-S007	TOP REINFORCEMENT	LG1	P1	01
P1	N848-S008	POST TENSIONING	LG1	P1	01
P1	N848-S010	CONCRETE PROFILE	GF	P1	01
P1	N848-S011	BOTTOM REINFORCEMENT	GF	P1	01
P1	N848-S012	TOP REINFORCEMENT	GF	P1	01
P1	N848-S013	POST TENSIONING	GF	P1	01
P1	N848-S015	CONCRETE PROFILE	L1	P1	01
P1	N848-S016	BOTTOM REINFORCEMENT	L1	P1	01
P1	N848-S017	TOP REINFORCEMENT	L1	P1	01
P1	N848-S018	POST TENSIONING	L1	P1	01
P1	N848-S020	CONCRETE PROFILE	L2	P1	02
P1	N848-S021	BOTTOM REINFORCEMENT	L2	P1	02
P1	N848-S022	TOP REINFORCEMENT	L2	P1	02
P1	N848-S023	POST TENSIONING	L2	P1	02
P1	N848-S025	CONCRETE PROFILE	L3	P1	02
P1	N848-S026	BOTTOM REINFORCEMENT	L3	P1	02
P1	N848-S027	TOP REINFORCEMENT	L3	P1	02
P1	N848-S028	POST TENSIONING	L3	P1	02
P1	N848-S030	CONCRETE PROFILE	L4	P1	02
P1	N848-S031	BOTTOM REINFORCEMENT	L4	P1	02
P1	N848-S032	TOP REINFORCEMENT	L4	P1	02
P1	N848-S033	POST TENSIONING	L4	P1	02
P2	N848-S035	CONCRETE PROFILE	L1	P2	01
P2	N848-S036	BOTTOM REINFORCEMENT	L1	P2	02
P2	N848-S037	TOP REINFORCEMENT	L1	P2	01
P2	N848-S038	POST TENSIONING	L1	P2	01
P2	N848-S040	CONCRETE PROFILE	L2	P2	01
P2	N848-S041	BOTTOM REINFORCEMENT	L2	P2	01
P2	N848-S042	TOP REINFORCEMENT	L2	P2	01
P2	N848-S043	POST TENSIONING	L2	P2	01
P2	N848-S045	CONCRETE PROFILE	L3	P2	02
P2	N848-S046	BOTTOM REINFORCEMENT	L3	P2	02
P2	N848-S047	TOP REINFORCEMENT	L3	P2	02
P2	N848-S048	POST TENSIONING	L3	P2	02
P2	N848-S050	CONCRETE PROFILE	L4	P2	01
P2	N848-S051	BOTTOM REINFORCEMENT	L4	P2	01
P2	N848-S052	TOP REINFORCEMENT	L4	P2	01
P2	N848-S053	POST TENSIONING	L4	P2	01



## BUILDINGS P1 & P2 – POST TENSIONING INSTALLATION CERTIFICATE

Date: 03/11/2022

PROJECT: Chatswood Building P1 & P2

COMPANY: Richard Crookes Construction

ATT: Lily Beckhurst

AusPT Confirms that all post tensioning on Building P1 Levels LG to L4 & Building P2 Levels 1 to 4 of the Chatswood School project were installed as per “QCE’s” specification and approved post tensioning shop drawings listed below.

N848-S005-01	N848-S015-01	N848-S025-02	N848-S035-01	N848-S045-02
N848-S006-01	N848-S016-01	N848-S026-02	N848-S036-02	N848-S046-02
N848-S007-01	N848-S017-01	N848-S027-02	N848-S037-01	N848-S047-02
N848-S008-01	N848-S018-01	N848-S028-02	N848-S038-01	N848-S048-02
N848-S010-01	N848-S020-02	N848-S030-02	N848-S040-01	N848-S050-01
N848-S011-01	N848-S021-02	N848-S031-02	N848-S041-01	N848-S051-01
N848-S012-01	N848-S022-02	N848-S032-02	N848-S042-01	N848-S052-01
N848-S013-01	N848-S023-02	N848-S033-02	N848-S043-01	N848-S053-01

Should you have any further enquires please do not hesitate to call our office.

Regards

Matt Grima

Administrator/Estimator

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**Head Office:**

11 Technology Cct.  
Hallam Victoria 3803  
T (03) 9702 4557 F (03) 8786 3329

**QLD Office:**

5/14 Hopper Avenue  
Ormeau QLD 4208  
T (07) 5540 7866

**NSW Office:**

18 Artisan Road  
Seven Hills NSW 2147  
T (02) 9838 7761

21 October 2022

Harry Power  
Richard Crooke Constructions Pty Ltd  
Level 3, 4 Broadcast Way  
Artarmon NSW 2064

**Re: Completion Certificate for Public & High Schools Upgrade - Chatswood**

**Project: Light Weight Steel Framing and Roof Trusses**

**Our Job Reference: # 20397 / Subcontract Number: # 1213B\_AUSTRUS**

As we have now reached completion of the above project we confirm that all frames and trusses have been manufactured and installed in compliance with engineered documents, Australian Standards AS4100-1998 and AS4600-2005 and are deemed fit for purpose.

Please find attached documents for your Manuals:

1. Compliance Certificate
2. Structural Design Certification verifying that the steel structure and cold-formed steel structure have been installed in accordance with AS4100-1998 and AS4600-2005 respectively and conform with the requirements of all specifications listed on the drawings provided to Austruss.

We sincerely hope you are satisfied with our product and service, if we can be of assistance in the future please call.

Yours sincerely



**Andrew Fowler**  
**Managing Director**

**PHONE**  
02 4860 1400

**STREET**  
7 Braemar Ave  
Braemar NSW 2575

**POSTAL**  
PO Box 1132  
Mittagong NSW 2575

ABN 78 169 585 415

[austruss.com.au](http://austruss.com.au)

date

20.06.2022

reference

37994-SL05\_A- Building  
P1-I

receiver

Aus-Truss

Attn: Brad Tuckwell

7 Braemar Avenue

Braemar NSW 2575

Dear Sir,

**Re: #20397 Chatswood Public School at  
5 Centennial Avenue, Chatswood NSW 2067  
Building P1 - Steel Roof and Wall Frames  
Structural Certification**

Ha Nguyen, an Engineer for Barnson inspected the erected steel roof and wall frames of the above building on the 25<sup>th</sup> May 2022. The defects noted on the Austruss defect list on "Procore" have been signed off by the installers as being rectified.

We therefore advise that the above building steel framing is structurally adequate for the design parameters detailed on our design certification letter.

If you have any further enquiries regarding this matter, please contact the undersigned.

Yours faithfully

BARNSON PTY LTD



Richard Noonan

*BE(Hons) ME FIEAust CPEng NER*

Director

## 9. REPORTS & CERTIFICATIONS

Certificates from relevant authorities, copies of manufacturers' warranties and product certificate

### INSTALLATION CERTIFICATE

TRADE	STRUCTURAL STEEL
CONTRACTOR	GK BLUE PTY LTD
CLIENT	RICHARD CROOKES CONSTRUCTIONS
PROJECT NAME	1213B
REVISION	A

**Project** : Chatswood Education Precinct Stage 3 Main Works – Building P1 and P2

- Building P2 Level 4 Roof Assembly
- Building P1 & P2 Brick Pier Supports
- Building P2 Door Headers

Was installed as per the approved shop documentation and drawings.

We hereby certify that the scope of works contracted at project 1213B, have been installed in accordance with the design, specification and nominated standards.

**AS/NZS 1554.1:2000** Structural Steel Welding

**AS/NZS 5131:2016** Structural Steelwork – Fabrication and Erection

**AS/NZS 1554.1.2014** – Structural Steel welding of Steel Structures

**AS/NZS 1170.1:2002** – Structural design actions

Structural Bolts Manufactured to **AS/NZS 1252:1983** dimensions

Structural Bolts Manufactured to **AS/NZS 1252:1996** mechanical properties

Prepared By : Kieran Zube

Signed



Dated : 14/08/2022

**Director** – GK Blue Pty Ltd