

ACOR Consultants (Qld) Pty Ltd ABN 18 126 011 087 BRISBANE OFFICE Level 7, 22 Cordelia Street South Brisbane QLD 4101 Telephone: T +61 7 3844 5900 www.acor.com.au

INSPECTION REPORT

Project: Kingscliff High School		Contractor: RCC	
Date of Inspection: 18/10/2023		Start Time:	
Inspection by: Nerisa Balliu		Finish Time:	
Project No: BR210028		Weather:	
Inspection Report No: CM-1	No. Pages:	Site Engineer's Name:	
Works Inspected: Building C Middle Ground Floor Steelwork			
Drawings Reference: KHS-S-C-03.01, KHS-S-X-00.27, Site advice: 230612_BLDG C Middle_Additional STR Input			

ACOR Consultants undertook a visual inspection of photos provided to check for congruence with the latest issued For Construction documentation and any issued site advices. The works were found to be generally in accordance with the structural documentation, except for the following outstanding items and comments:

- Inspection is based on photos sent to ACOR by the site team no site inspection was undertaken for these works
- 2. Steel work as per drawings

Inspecting Engineer Signature: N. Ballíu

Site Engineer Signature:











Consulting Structural and Civil Engineers

19th October 2023 Ref. No: 23-583

RE: KINGSCLIFF HIGH SCHOOL STAGE 2 MAIN WORKS – AS-CONSTRUCTED BRACE WALL

This is to confirm that we have carried out a structural evaluation of the as-constructed ply brace wall located in the upper level of the new seniors GLA.

Our review was based on the following specifications and corresponding photos taken during construction:

- 92 x 1.15 BMT light gauge steel studs at 450mm centres with three rows of noggings
- 15mm structural brace ply installed to one side
- Screw fixings to studs at 100mm centres through ply
- M8 Hilti HUS screw anchors to existing concrete slab at 200 centres through wall bottom plate
- 2/14G self-tapping metal screws through top plate to each purlin

We also understand that the penetration as shown on the original documentation (KHS-S-C-04.00 Issue 2) was not required and that the bracing wall extends for the full length without any voids.

We certify that the lateral bracing capacity of the as-construction wall exceeds the capacity of the C-BRW1 wall (with the internal void) shown on Acor Consultants structural engineering sheet KHS-S-C-04.00 Issue 2 (refer snippet below)



Figure 1 - Original Brace Wall taken from KHS-S-C-04.00 Issue 2

Certified,

an Laurie Oar

BEng (Hons) RPEQ 2011 CPEng NER Laurie Oar & Associates Pty Ltd

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Consulting Structural and Civil Engineers 22 Martin Street, Nerang. Qld 4221 A.B.N. 19 198 205 906



Our Reference: BR210028-SC-BuildingC Middle-rev01 Your Reference:

24/10/2023

Richard Crookes Construction P/L Level 3, 4 Broadcast Way Artarmon, NSW 2064

Attention: Mr Lachlan Box

Dear Lachlan,

Re: Kingscliff High School, Kingscliff NSW OC Structural Certification – Building C Middle

STRUCTURAL

Site Details:				
Project Name. Kingscliff High School				
Street no. / Street name: 33 Oxford Street				
Suburb: Kingscliff	State:	NSW	Postcode:	2487
Description of Work:	Alterations ar	nd Additions to the E	xisting Building C Mic	ldle (Stage 2a)
Consent:				
SSD No. SSD 9744205	Consent authority: N/A			
		Dated:		
Jarrod Novosel	of AC	OR CONSULTAN	NTS	
(name)		(company)		
and they have been inspected, assessed, and tes and they have been inspected, assessed, and tes a) The following conditions of Development	n installed / imple sted (where appro	mented / construc priate) in accordar	ted in the above b nce with:	uilding/developme
a) The following conditions of Development	n installed / imple sted (where appro Consent:	mented / construc priate) in accordar	ted in the above b nce with: BCA clauses B1.2	uilding/developmer



ENGINEERS

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MANAGERS

INFRASTRUCTURE PLANNERS

DEVELOPMENT CONSULTANTS

ACOR Consultants Pty Ltd (ACN 079 306 246) (ABN 40 079 306 246)]





c) The following Australian Standards:

AS 1170.0:2002, AS1170.1-2002, AS1170.2-2011, AS1170.4-2007, AS2870:2011, AS3600-2018, AS3700-2011 & AS4100:2020

This is to certify that structural inspections were carried out during construction of this project by a practising Structural Engineer in accordance with the following schedule and accepted engineering practice and principles.

Inspection No.	Date of Inspection	Item/s Inspected	Relevant Drawings (beginning with KHS-S-C-*)	Approved/ Rejected
045	17/09/2023	Steel – Building C Middle	3.01	Approved
		Steel - Building C Middle Ground	3.01, KHS-S-X-00.27 Site advice 230612_BLDG.C	Approved
CM-1	18/10/2023	Floor	Middle_Additional STR Input	

List of inspections undertaken during construction by a suitably qualified structural engineer:

At the time of inspection, the work inspected generally conformed, in our opinion with the structural engineering drawings. Where minor corrections were required, instructions were issued to the Builder for their correction. This certificate certifies only the steel works for Stage 2a as noted in the reports.

This certificate does not relieve the Builder or any other party of their responsibilities for the project. This certificate is based upon the discrete number of inspections conducted and relies on the Builder to rectify the items noted on the inspection report.

The plans that the inspections were inspected off were the 'For Construction' set of drawings and additional site advices as markups which will be rebadged and reissued at the end of the project as 'As-Built'.

Exclusions: Yes

Details of any exclusions: As per the inspection report, CBRW1 bracing wall was not installed as per ACOR design,

therefore is excluded from this certificate. Email correspondence for this exclusion is attached below. Handrails and balustrades are excluded as well.

Where there are no exclusions, I certify that this certificate covers all structural steelwork in Building C Middle for the areas inspected as outlined in the above inspections.

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. I / my employer hold/s appropriate current professional indemnity insurance to the satisfaction of the building owner or the principal authorising the design work being certified.

Name:	Jarrod Novosel	Licence No.:	RPEQ 8193
Company Name:	ACOR CONSULTANTS	ABN No:	40079306246
Company Address:	Level 7, 22 Cordelia St, South Brisbane, QLD 4101	Tel:	07 3844 5900
Signature:	apple.	Position Title:	Structural Team Leader
	W	Date:	24/10/2023



ACOR Consultants (Qld) Pty Ltd ABN 18 126 011 087 BRISBANE OFFICE Level 4, 43 Peel Street South Brisbane QLD 4101 Telephone: T +61 7 3844 5900 www.acor.com.au

SITE INSPECTION REPORT

Project: Kingscliff High School		Contractor: RCC	
Date of Inspection: 17 09 23		Start Time: 7:30 Am	
Inspection by: Richard Smith		Finish Time: 8:15 AM.	
ACOR Project No: BR210028		Weather:	
Inspection Report No: KHS-0 75 No. Pages: 2		Site Manager Name: Natch PACKER	
Works Inspected: STEEL -	BUIDIN	3 C	
Drawing Reference: $RHS - S$	-C-03!	61	

Ingineered (engaged by ACOR Consultants) were invited to site to undertake an inspection to examine and check for congruence with the latest issued For Construction documentation and any issued site advices. Please refer to the accompanying Comment Plan for the scope of the areas inspected. The works were found to be generally in accordance with the structural documentation, with the exception of the following outstanding items and comments:

ISMM CD PLY NOT Fill 7mm RANDONLY SCREWED 1. *2. WALL-3. 4 1 5. ALAL 6. 2 7. 8. 9. 10. 11.

Inspecting Engineer Signature:

Site Manager Signature:















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INSPECTION REPORT

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Date of Inspection: 18/10/2023		Start Time:	
Inspection by: Nerisa Balliu		Finish Time:	
Project No: BR210028		Weather:	
Inspection Report No: CM-1	No. Pages:	Site Engineer's Name:	
Works Inspected: Building C Middle Ground Floor Steelwork			
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- 2. Steel work as per drawings

Inspecting Engineer Signature: N. Ballíu

Site Engineer Signature:











Nerisa Balliu

todd@tcqld.com.au
Tuesday, 10 October 2023 1:31 PM
Nerisa Balliu
RE: Inspection reports 21-166 - KHS-044/045

Hi Nerisa

Please hold off on below for now as John has sent it to someone else to see if they can certify.

Regards



From: Richard Smith <richard@ingineered.com.au>
Sent: Tuesday, October 10, 2023 10:19 AM
To: todd@tcqld.com.au; Nerisa Balliu <NBalliu@acor.com.au>
Subject: Re: Inspection reports 21-166 - KHS-044/045

Hi Tod,

I have forwarded onto Nerissa at Acor as they are the structural engineers working on this job. My roll is (as I am local) to inspect their designed work any deviation in their design needs to be sanctioned by them.

Hope this helps

Kind Regards,

Richard Smith

Structural engineer

E: richard@ingineered.com.au | P: 02 6676 2846 | W: ingineered.com.au

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From: todd@tcqld.com.au <todd@tcqld.com.au> Sent: Tuesday, 10 October 2023 10:57 AM To: richard@ingineered.com.au <richard@ingineered.com.au> Subject: FW: Inspection reports 21-166 - KHS-044/045

Hi Richard – Nick Packer at Richard Crookes suggested you might be able to help with below. We have built a ply bracing wall for them at Kingscliff High School. As per below email trail, we have built it differently to their drawings and now require sign off to state that it still

meets the required loads.

As the wall is already built, sign off will need to be provided from the description of what we built and photos provided.

Is this something you could provide?

I will send a further email with more detailed description of the construction and photos.

Regards

×

Todd Fuller - 0477 800 487



From: todd@tcqld.com.au <todd@tcqld.com.au> Sent: Tuesday, October 3, 2023 10:36 AM To: 'Julian Prendergast' <julian.prendergast@insidecollab.com>

2

Hi Julian – please see below email trail.

Richard Crookes want us to get an Engineer to sign off on the structural integrity of a ply bracing wall we constructed for them.

Below are the details from the drawings and a description from John of how we actually built it.

I will also forward an email from our site manager with photos and further description of what he built.

If you believe, as John does, that our construction meets their required loads, can you please send a return email stating in complies so we can get sign off.

Regards

Todd Fuller - 0477 800 487



From: Nick Packer packern@richardcrookes.com.au
Sent: Tuesday, October 3, 2023 9:28 AM
To: john@tcqld.com.au; todd@tcqld.com.au
Cc: Damian O'Leary <<u>OLearyD@richardcrookes.com.au</u>; Darren Lovell <<u>lovelld@richardcrookes.com.au</u>; Lachlan
Box <<u>boxl@richardcrookes.com.au</u>; 'Larry TCQLD' <<u>larry@tcqld.com.au</u>
Subject: RE: Inspection reports 21-166 - KHS-044/045

Hi Todd,

As discussed, can you please provide calculations/ confirmation the loads on the ply Bracing walls still comply with those mentioned on the Structural Drawings.

Engineer will make us pull the wall down and re-do if we can't satisfy this.

Can we have this by end of the week to avoid any future hurdles come time for certification.

Regards,

Nick Packer, Site Engineer



Direct 07 3099 0899 | Mobile 0481 298 191 Level 6, 25 King St, Bowen Hills QLD 4006 www.richardcrookes.com.au



Please consider the environment before printing this email



From: john@tcqld.com.au <john@tcqld.com.au>
Sent: Monday, September 25, 2023 4:26 PM
To: Nick Packer packern@richardcrookes.com.au>; todd@tcqld.com.au
Cc: Damian O'Leary <<u>OLearyD@richardcrookes.com.au</u>>; Darren Lovell <<u>lovelld@richardcrookes.com.au</u>>; Lachlan
Box <<u>boxl@richardcrookes.com.au</u>>; 'Larry TCQLD' <<u>larry@tcqld.com.au</u>>
Subject: RE: Inspection reports 21-166 - KHS-044/045

Hi Nick,

When we constructed the wall we hadn't received the drawing that informed us that it was a bracing wall. Once we received this information we then installed more fixings to the floor and fixed the top plate off to the ceiling purlins more often. Due to the fact you hadn't installed any structural steel posts in the wall we increased the thickness of the structural ply and fixed it off at closer spacings. We also fixed the impact board off at closer fixings. In my opinion the wall is As structural or more than it would have been.

John Alexander Email : john@tcqld.com.au Ph : 0421788987



From: Nick Packer packern@richardcrookes.com.au
Sent: Monday, September 25, 2023 3:47 PM
To: john@tcqld.com.au; todd@tcqld.com.au
Cc: Damian O'Leary <<u>OLearyD@richardcrookes.com.au</u>; Darren Lovell <<u>lovelld@richardcrookes.com.au</u>; Lachlan

Box <<u>boxl@richardcrookes.com.au</u>> **Subject:** RE: Inspection reports 21-166 - KHS-044/045

Hi John/ Todd,

Please send through. Can't keep waiting unfortunately.

Regards,

Nick Packer, Site Engineer



Direct 07 3099 0899 | Mobile 0481 298 191 Level 6, 25 King St, Bowen Hills QLD 4006

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From: Nick Packer Sent: Friday, September 22, 2023 3:26 PM To: john@tcqld.com.au; todd@tcqld.com.au Cc: Damian O'Leary <<u>olearyd@richardcrookes.com.au</u>>; Darren Lovell <<u>lovelld@richardcrookes.com.au</u>>; Lachlan Box <<u>boxl@richardcrookes.com.au</u>> Subject: RE: Inspection reports 21-166 - KHS-044/045

Hi Gents,

Can we please have confirmation on this?

Regards,

Nick Packer, Site Engineer



Direct 07 3099 0899 | Mobile 0481 298 191 Level 6, 25 King St, Bowen Hills QLD 4006

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From: Nick Packer Sent: Wednesday, September 20, 2023 9:56 AM To: john@tcqld.com.au; todd@tcqld.com.au Cc: Damian O'Leary <<u>olearyd@richardcrookes.com.au</u>>; Darren Lovell <<u>lovelld@richardcrookes.com.au</u>>; Lachlan Box <boxl@richardcrookes.com.au> Subject: FW: Inspection reports 21-166 - KHS-044/045

Hi John,

The Engineer has queried the Ply Bracing wall currently installed not being as per their detail (below). Can you confirm the loads mentioned (below) can still be achieved based on the installation method?



F8

F11 F14 F27



Regards,

Nick Packer, Site Engineer



Direct 07 3099 0899 | Mobile 0481 298 191 Level 6, 25 King St, Bowen Hills QLD 4006

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From: Nerisa Balliu <NBalliu@acor.com.au> Sent: Wednesday, September 20, 2023 9:34 AM To: Nick Packer cpackern@richardcrookes.com.au; Richard Smith <richard@ingineered.com.au</pre>; 'Elena @Ingineered' <elena@ingineered.com.au> Cc: Damian O'Leary <<u>OLearyD@richardcrookes.com.au</u>> Subject: RE: Inspection reports 21-166 - KHS-044/045

Hi Nick,

Can you please advise why ply bracing has not been installed as per our drawings?

Kind Regards,

Nerisa Balliu **Structural Engineer**

ACOR Consultants Pty Ltd

P.O. Box 3635 South Brisbane QLD 4101

Street Address Level 7, 22 Cordelia Street South Brisbane QLD 4101 T 07 3844 5900 | E NBalliu@acor.com.au



ACOR acknowledges the Turrbal and Jagera People as the Traditional Custodians of Country where we live and work, and their ongoing connection to the land, waters, and community. We pay our respects to Elders, past and present.





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From: Nick Packer <packern@richardcrookes.com.au> Sent: Wednesday, September 20, 2023 7:20 AM

To: Richard Smith <<u>richard@ingineered.com.au</u>>; Nerisa Balliu <<u>NBalliu@acor.com.au</u>>; 'Elena @Ingineered'
<<u>elena@ingineered.com.au</u>>;
Cc: Damian O'Leary <<u>OLearyD@richardcrookes.com.au</u>>
Subject: RE: Inspection reports 21-166 - KHS-044/045

Thanks Richard, much appreciated.

Nerisa, Can you please confirm acceptance with the Ply Bracing walls.

Regards,

Nick Packer, Site Engineer



Direct 07 3099 0899 | Mobile 0481 298 191 Level 6, 25 King St, Bowen Hills QLD 4006

www.richardcrookes.com.au



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From: Richard Smith <<u>richard@ingineered.com.au</u>>
Sent: Tuesday, September 19, 2023 3:24 PM
To: Nick Packer <<u>packern@richardcrookes.com.au</u>>; Nerisa Balliu <<u>NBalliu@acor.com.au</u>>; 'Elena @Ingineered'
<<u>elena@ingineered.com.au</u>>
Subject: Inspection reports 21-166 - KHS-044/045

Hi Nick,

Remember to contact Acor regarding the bracing ply requirements.

Cheers

Kind Regards,

Richard Smith

Structural engineer

INGINEERED.

E: richard@ingineered.com.au | P: 02 6676 2846 | W: ingineered.com.au

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