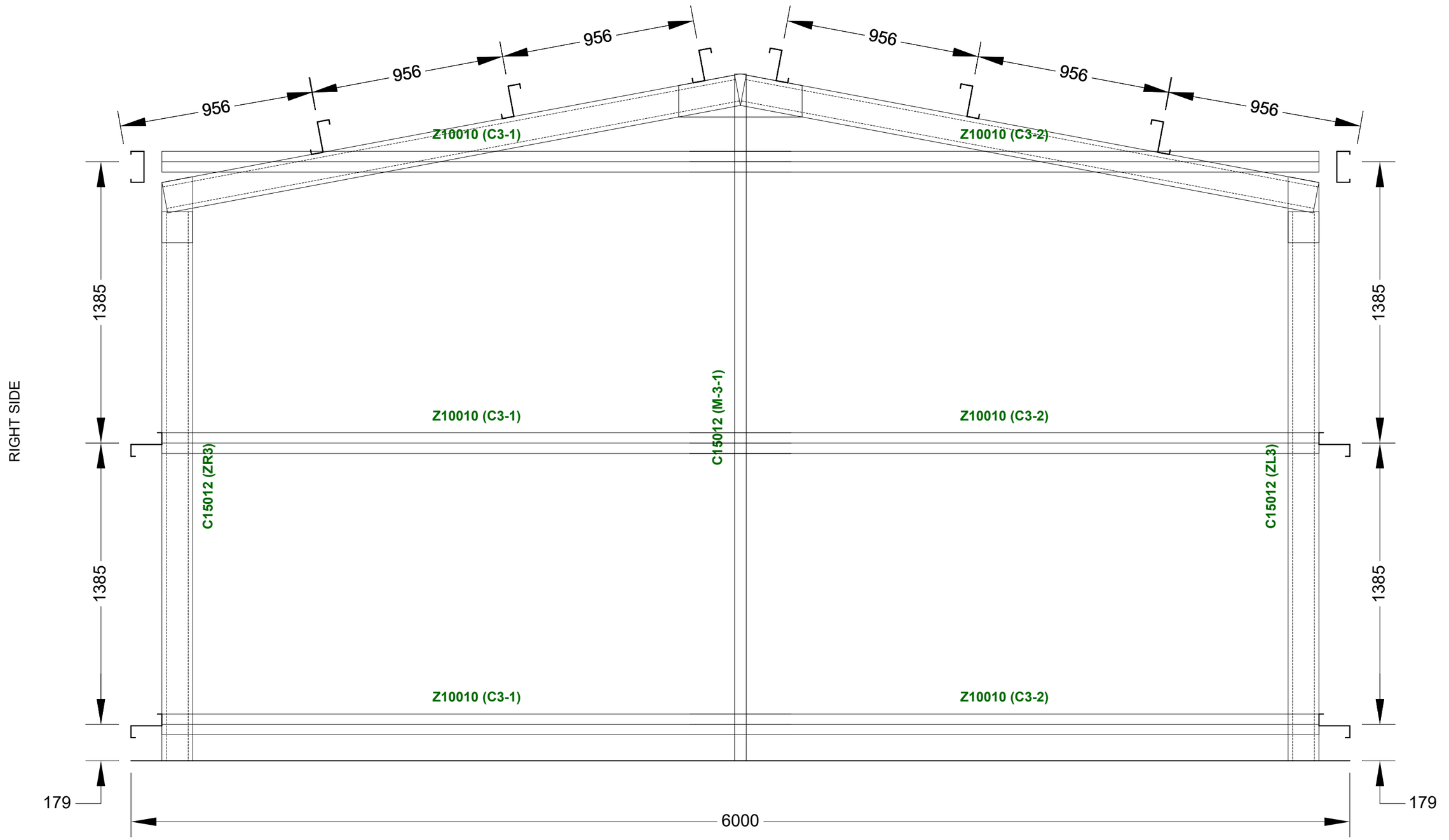
RIGHT END ELEVATION

Notes:
Brackets are not shown. Refer to Specification Details for more information. Opening members not labeled.



Revision	Date	Initial		
			Purchaser Name: Addy Jones	
			Site Address: W End Rd Leeka TAS 7255 Australia	
			Drawing # WSS214061 - 11	Print Date: 9/08/2021

Purlin and Girt Plan
NOT FOR CONSTRUCTION
NOT TO SCALE

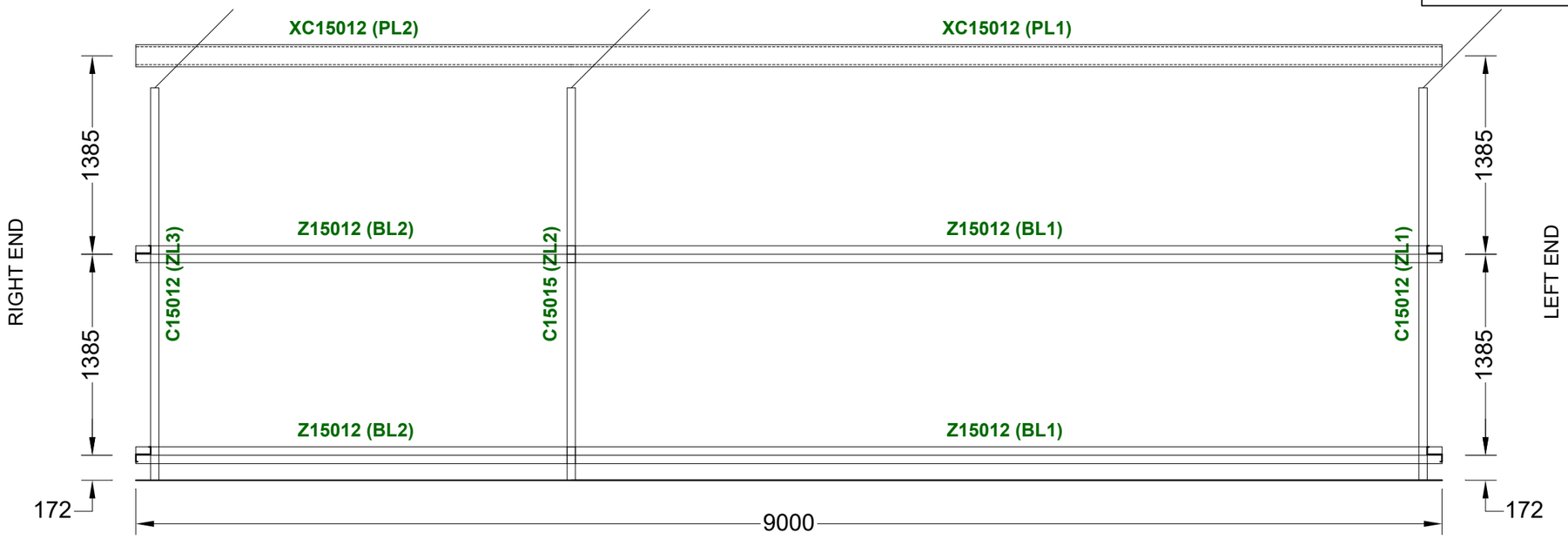
Seller: Wide Span Sheds Pty Ltd
Name: Wide Span Sheds Pty Ltd
Phone: 07 5657 8888
Fax: 07 5657 8899
Email: admin@sheds.com.au

Apex Engineering Group PTY LTD
ACN 632 588 562
MIE Aust. (Registered NER Structural) 5276680
QLD : RPEQ No. 24223; TAS : 185770492; VIC : PE0003848; N.T : 303557ES;
Practising Professional Structural & Civil Engineers

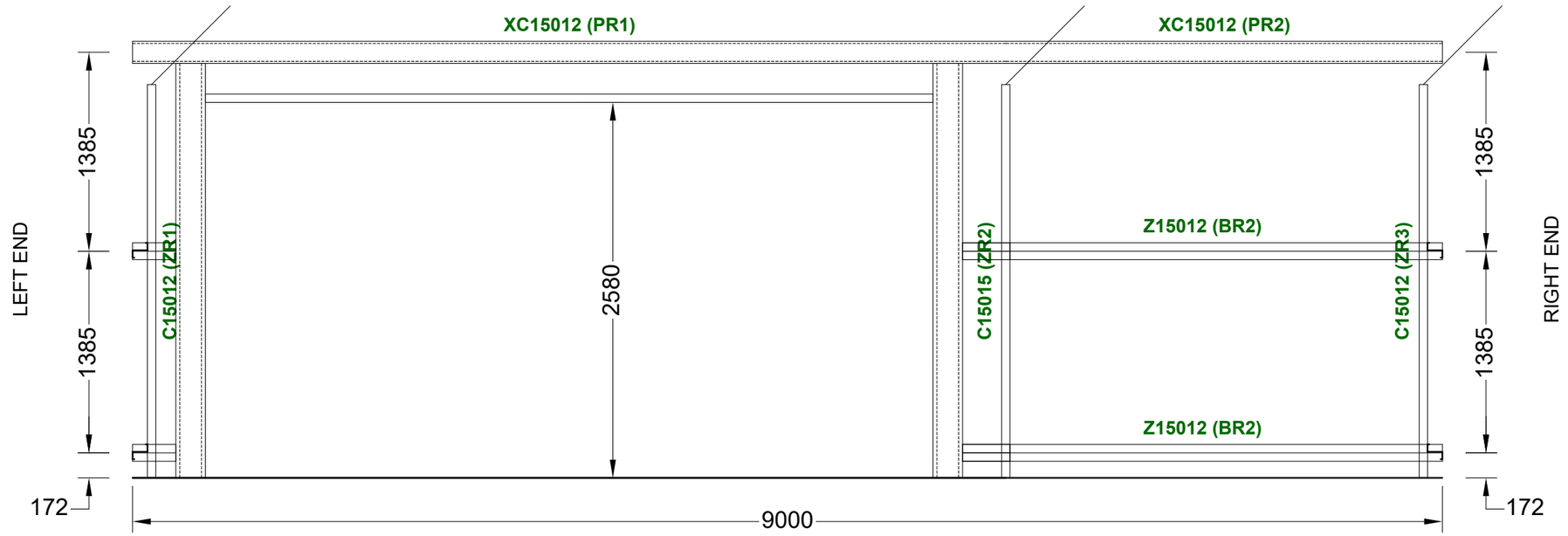
Signature:
John Ronaldson
Date: 09/08/21

LEFT ELEVATION

Notes:
Brackets are not shown. Refer to Specification Details for more information. Opening members not labeled.



RIGHT ELEVATION



Revision	Date	Initial

Purchaser Name: Addy Jones

Site Address: W End Rd Leeka TAS 7255 Australia

Drawing # WSS214061 - 11

Print Date: 9/08/2021

Purlin and Girt Plan
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Page 4 of 4

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Signature:

John Ronaldson

Date: 09/08/21

APEX ENGINEERING GROUP

Steelx Building, 3rd Floor
2 Boston Court,
Varsity Lakes, Qld. 4227
Phone: +61 7 5657 4456
Fax: +61 7 5657 8899

Monday, 9 August 2021

Sheeting Design Documentation

To whom it may concern,

The sheeting used for this structure has been designed as a category R2 sheeting with an imposed load of 0.25kPa and concentrated load of 1.4kN applied in accordance with NCC:2019 and AS1562.1.

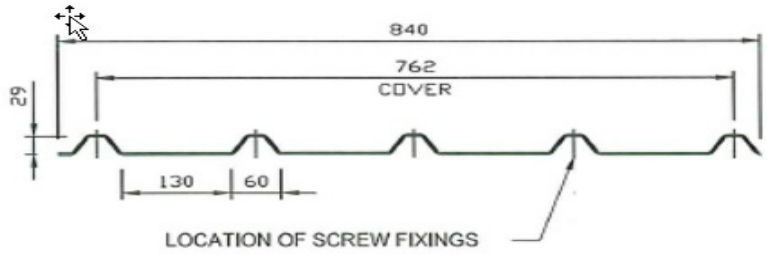
No allowance has been made for the fixing of rooftop-mounted equipment such as solar panels or air-conditioning equipment directly to the cladding.

Metroll purlins have been designed to withstand foot traffic during installation and service. The use of appropriate cradles or cherry pickers is recommended. **As a minimum, never walk on purlins without safety mesh in place.**

When walking on Trimclad roof sheeting always wear flat rubber soled shoes and only walk over areas where purlins or batten supports are installed. Walk in either pan next to the lapped edge ribs.

Profile and Dimensions of Cladding

Metroll Trimclad Steel Sheeting is Manufactured from G550 colour coated steel or zinc-aluminium alloy coated (AZ 150) steel. In some locations galvanised (Z450) may also be available.



Specification of Materials									
Location	BMT (mm)	Steel Base (MPa)	Mass CB (kg/m²)	Mass Zinc (kg/m²)	Effective Cover	Min. Pitch	Max Spans (mm)		
							End	Internal	Overhang
Roof	0.42	G550	4.35	4.28	762	2 (1 in 30)	1300	1700	150
Roof	0.48	G550	4.93	4.81	762	2 (1 in 30)	1700	2300	150
Wall	0.35	G550	3.68	3.70	762		2900	3000	150
Wall	0.42	G550	4.35	4.28	762		3000	3000	150

Design pressures to AS/NZS1170.2		
Location	Zone	Design Pressure (kPa)
Roof	Corner	-1.74
	Edge	-1.74
	General	-0.87
Wall	Corner	-1.82
	Edge	-1.21
	General	-0.61

Max Roof Run (m) for Slopes & Rainfall Intensity					
Rainfall Intensity (mm/hr)	Trimclad Roof Slope				
	1 in 30 (2°)	1 in 20 (3°)	1 in 12 (5°)	1 in 7.5 (7.5°)	1 in 6 (10°)
100	220	257	320	382	439
150	146	172	214	255	293
200	110	129	160	191	220

Max Roof Run (m) for Slopes & Rainfall Intensity					
Rainfall Intensity (mm/hr)	Trimclad Roof Slope				
	1 in 30 (2°)	1 in 20 (3°)	1 in 12 (5°)	1 in 7.5 (7.5°)	1 in 6 (10°)
250	88	103	128	153	176
300	73	86	107	127	146
400	55	64	80	96	110

Fastener Specifications	
Timber	14 - 10 x 65 T17
0.75 to 1.0mm Steel	M6.5 - 12 x 55 roof zips
1.2 to 4mm Steel	14 - 10 x 53 Hex Head

Testing Criteria

This information is based on the **Low-High-Low testing competed by the Cyclone Testing Station (CTS)**, School of Engineering, James Cook University. The results of this testing are outlined in the test report TS716 produced by the CTS. Ultimate cyclic wind load strength tests were NATA accredited tests.
Load testing carried out by James Cook University, cyclone testing station, report No.TS716. Product tested to AS4040.1, AS4040.3 and low-high-low as per BCA B1.2. Tests carried out: cyclonic airbox wind test for strength. Static testing for serviceability. Buildex report No. ELTR 1532.

Signed

John Ronaldson
for and on behalf of
Apex Engineering Group PTY LTD
ACN 632 588 562

APEX
ENGINEERING GROUP

Steelx Building, 3rd Floor
2 Boston Court
Varsity Lakes, Qld 4227
Australia
Phone: +61 7 5657 4456
Fax: +61 7 5657 8899

09 August, 2021

To whom it may concern

This certification has been completed based on the purchaser's advice of the building's intended purpose.
Any approving authority should confirm that the Importance Level nominated is appropriate for the building's usage as this is not able to be ascertained by the engineer.

I certify that I am an independent technical expert and have reviewed Steelx Shed Management System Software that has produced the design and drawings detailed below. I have reviewed the documents based in the site specific analysis produced by the Shed Safe Sitecheck Software *(Refer to the Site Specific Design Criteria Analysis)*:

Job Number: WSS214061
Customer: Addy Jones
Address: W End Rd Leeka TAS 7255
Australia (-39.91477 and 147.8047)

Design Criteria: Building Class 10,
Max Design Wind Speed of 39.4m/s

Drawing Number	Date	Number of Pages	Description
WSS214061 - 2	09/08/2021	1	General Notes
WSS214061 - 3	09/08/2021	1	Layout
WSS214061 - 4	09/08/2021	2	Specification Sheet
WSS214061 - 5	09/08/2021	1	Bracing
WSS214061 - 6	09/08/2021	1	Concrete Piers
WSS214061 - 7	09/08/2021	1	Slab Dimensions
WSS214061 - 8	09/08/2021	6	Connection Details
WSS214061 - 9	09/08/2021	2	Flashing Fixing Details
WSS214061 - 10	09/08/2021	1	Component Position
WSS214061 - 11	09/08/2021	4	Purlin And Girt

(Some drawings have multiple pages, eg: "1 of 3".)

As an independent technical expert, I verify this design complies with the following codes and standards:

NCC:2019 Volume 2 Amendment 1
AS/NZS 1170.1:2003
AS/NZS 1170.3:2002
AS 2870:2011
AS/NZS 4600:2018
AS/NZS 1170.2:2011
AS 4100:1998
AS 3600:2018

Unless nominated, the building has not been designed for any additional loads including, but not limited to, earthquake, snow, solar panels or lining with any materials.

Signed

John Ronaldson
for and on behalf of
Apex Engineering Group PTY LTD
ACN 632 588 562

Member Institution of Engineers (Aust.), CPEng (NER Structural) Regn. No. 5276680
Registered Professional Engineer (Structural) - Queensland: Regn. No. 24223
Registered Building Designer & Professional Engineer (Structural) - Tasmania: Regn. No. 185770492
Registered Professional Engineer (Structural) - Victoria: Regn. No. PE0003848

CERTIFICATE OF THE RESPONSIBLE DESIGNER

Section 94
Section 106
Section 129
Section 155

Form 35

To: Addy Jones *Owner name*

W End Rd *Address*

Leeka 7255 *Suburb/postcode*

Designer details:

Name: John Ronaldson

Category: Building Designer /Engineer

Business name: Apex Engineering Group PTY LTD

Phone No: +61 7 5657 4456

Business address: 2 Boston Court

Varsity Lakes 4227

Fax No: +61 7 5657 8899

Licence No: 185770492

Email address: engineer@steelx.com.au

Details of the proposed work:

Owner/Applicant Addy Jones

Designer's project reference No: WSS214061

Address: W End Rd

Lot No:

Leeka 7255

Type of work: Building work: ☑ Plumbing work: ☐ *(X all applicable.)*

Description of work:

New Building

(new building / alteration / addition / repair / removal / re-erection / water / sewerage / stormwater / on-site wastewater management system / backflow prevention / other)

Description of the Design Work (Scope, limitations or exclusions): *(X all applicable certificates)*

Certificate Type:	Certificate	Responsible Practitioner
	☐ Building design	Architect or Building Design
	☑ Structural design	Engineer or Civil Design
	☐ Fire Safety design	Fire Engineer
	☐ Civil design	Civil Engineer or Civil Designer
	☐ Hydraulic design	Building Service Design
	☐ Fire Service design	Building Service Design
	☐ Electrical design	Building Service Design
	☐ Mechanical design	Building Service Design
	☐ Plumbing design	Plumber-Certifier: Architect,Building Designer or Engineer
	☐ Other (specify)	

Deemed-to-Satisfy: ☐ Performance Solution: ☑ *(X the appropriate box)*

Other details:

Design documents provided:

The following documents are provided with this Certificate -
Document description:

Drawing numbers: WSS214061-2 to WSS214061-11	Prepared by: Wide Span Sheds	Date: 9/08/2021
Schedules:	Prepared by: TBA	Date: TBA
Specifications:	Prepared by: Wide Span Sheds	Date: 9/08/2021
Computations:	Prepared by: Wide Span Sheds	Date: 9/08/2021
Performance solution proposals:		
Test reports:		

Standards, codes or guidelines relied on in design process:

NCC:2019 and the following Australian standards: AS/NZS4600:2018, AS/NZS 1170.0 2002, AS/NZS 1170.1:2002, AS/NZS 1170.2:2011, AS/NZS 1170.3:2002, AS/NZS 1170.4:2007, AS4100:1998, AS2870:2011 and AS3600:2018.

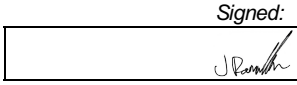
Any other relevant documentation:

Attribution as designer:

I John Ronaldson being a licensed building services provider am responsible for the design of that part of the building work as described in this certificate;

The documentation relating to the design includes sufficient information for the assessment of the work in accordance with the *Building Act 2016* and sufficient detail for the builder or plumber to carry out the work in accordance with the documents and the Act;

This certificate confirms compliance and is evidence of suitability of this design with the requirements of the National Construction Code.

	Name: (print)	*Signed:*	*Date:*
Designer:	John Ronaldson		9/08/2021

Licence No: 185770492

Assessment of Certifiable Works: (TasWork)

Note: single residential dwellings and outbuildings on a lot with an existing sewer connection are not considered to increase demand and are not certifiable.

if you cannot check ALL of these boxes, LEAVE THIS SECTION BLANK:

TasWater must then be contacted to determine if the propesed works are Certificable Works.

I confirm that the proposed works are not Certifiable Works, in accordance with the Guidelines for TasWater CCW Assessments, by virtue that all of the following are satisfied:

- ☐ The works will not increase the demand for the water supplied by TasWater
- ☐ The works will not increase or decrease the amount of sweage or toxins that is to be removed by, or discharged into, TasWater's sewerage infrastructure
- ☐ The works will not require a new connection, or a modification to an existing connection, to be made to TasWater's infrastructure
- ☐ The works will not damage or interfere with TasWater's works
- ☐ The works will not adversely affect TasWater's operations
- ☐ The works are not within 2m of TasWater's infrastructure and are outside any TasWater easement
- ☐ I have checked the LISTMap to confirm the location of TasWater infrastructure
- ☐ If the property is connected to TaswWater's water system, a water meter is in place or had been applied for to TasWater.

Certification:

I ..... being responsible for the proposed work, am satisfied that the works described above are not Certifiable Works, as defined within the Water and Sewerage Industry Act 2008, that I have answered the above questions with all due diligence and have read and understood the Guidelines for TasWater CCW Assessments. Note: the Guidelines for TasWater Certification of Certifiable Works Assessments are available at: www.taswater.com.au

	Name: (print)	*Signed:*	*Date:*
Designer:			