



**7217 HYDE - MIDDLEMARCH ROAD,
MIDDLEMARCH**

DESIGN FEATURES REPORT

JOB NUMBER WFM31209

Report Prepared by:

Rodney Stokes
Principal Structural Engineer

Date:29/07/2019



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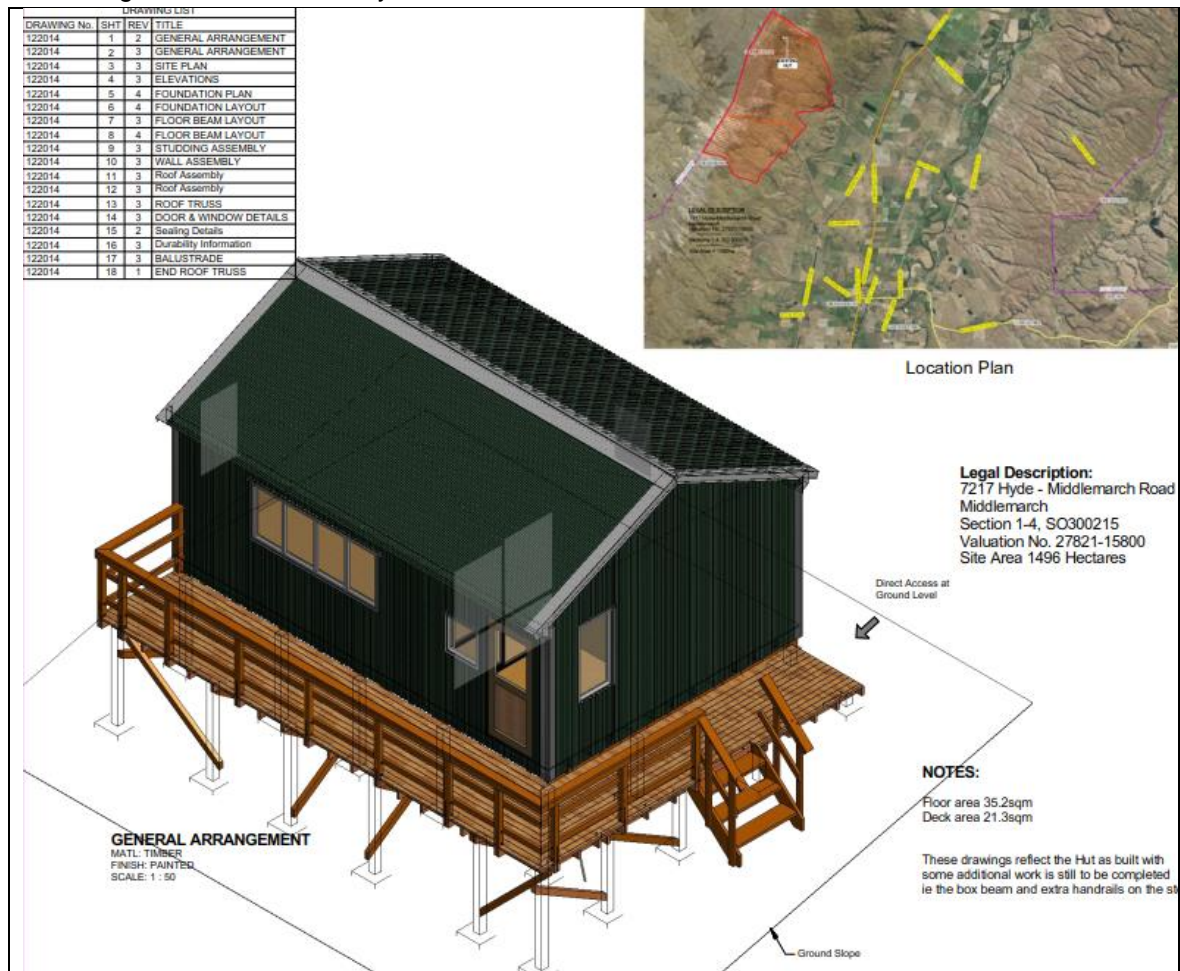
1 GENERAL

1.1 Objective

The Design Features Report (DFR) is a detailed document defining the structure's design criteria and recording key decisions or outcomes. It outlines design loading, material properties, design standards used, design assumptions and other relevant considerations. The DFR also defines the calculation procedure and checking principles to be followed, providing a clear explanation of the full design.

1.2 Scope

The scope of the project is to design the steel and light gauge steel (LGS) components for the structure. The building is located at 7217 Hyde - Middlemarch Road, Middlemarch



(a) Subject building

1.3 Means of Compliance

The design of the structure is in compliance with the New Zealand Building Code

The following standards have been used:

- AS/NZS1170
- NZS3101:2006
- AS/NZS4600
- AS4100
- NASH

2 DESIGN LOADS

2.1 General

For the purposes of consideration of loading, this structure Importance Level 2 in accordance with AS/NZS 1170.0:2002.

2.2 Imposed Loads

2.2.1 Vertical loads

The table below summarizes all vertical loads including both superimposed dead and live loads. In all cases, a minimum superimposed dead load of 0.5 kPa is applied to floors.

Table 1: Imposed Gravity loads

Level/Area	Use	Live Load	Superimposed Dead Load
Ground floor	Residential	1.5kPa	0.5 kPa
First Floor	Residential	1.5kPa	0.5 kPa
Roof, Light Weight	No access	0.25 kPa	0.26 kPa

2.3 Wind Loads

Very High wind demand = 65m/s

2.4 Snow and Ice Loads

Snow load = 2.9 kPa

2.5 Seismic Loads

2.5.1 Site Parameters

Earthquake Zone: 1
Proximity to fault: >20km.

3 DURABILITY

Alternative Solutions

- Structural Steel: There is no acceptable solution available for structural steel and protection is provided through surface treatment in accordance with NZS/AS 2312:2002.

4 CONSTRUCTION MONITORING

The design is based on the verification of specific design aspects of the construction as agreed by owner/developer

4.1 Soil Testing and verification

All geotechnical values are based on the assumption of good ground.

4.2 Materials Testing

Refer to the structural specification by FRAMECAD.

5 SOFTWARE

The following computer applications have been used:

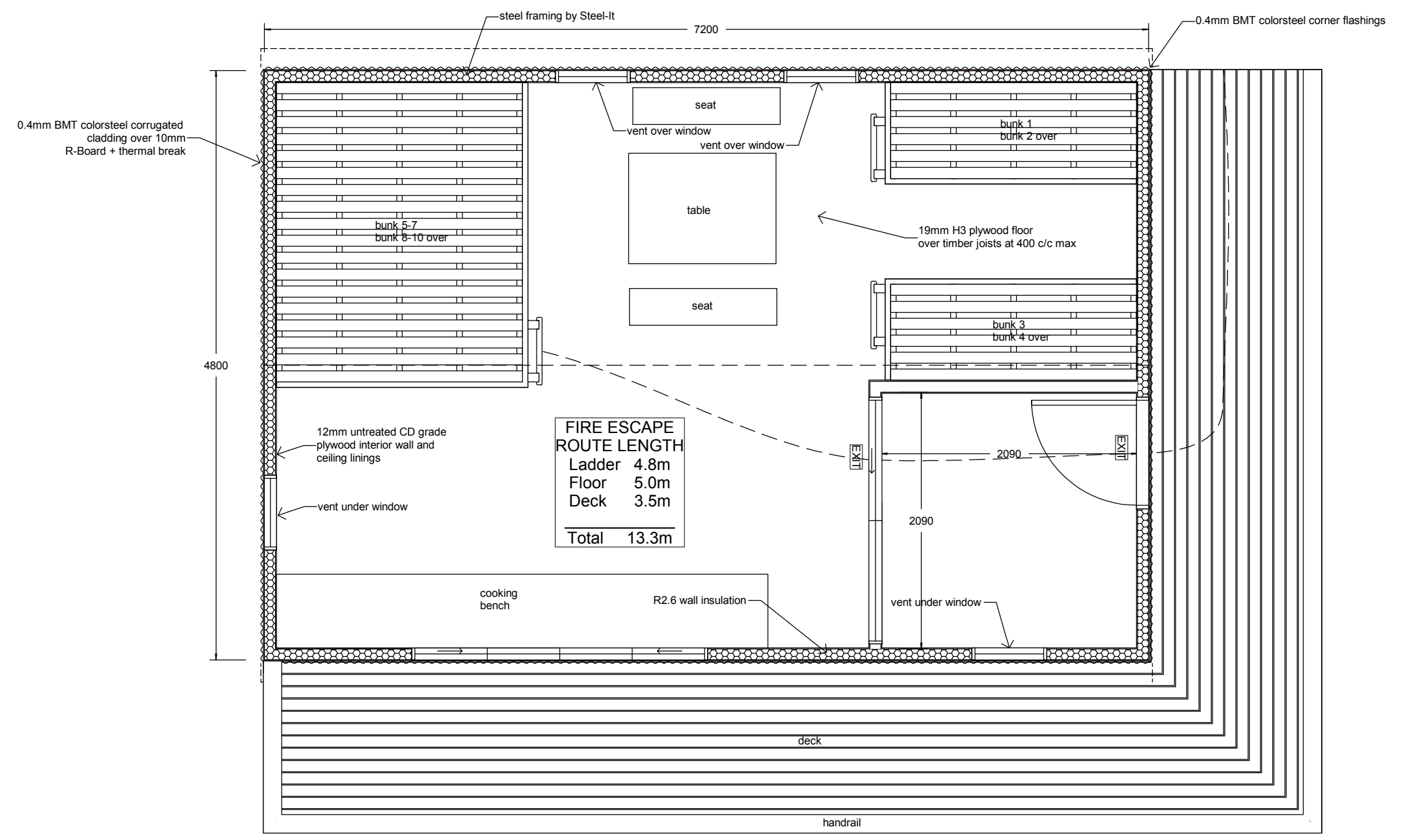
- Framacad Structure
- Memdes
- RISA

6 CALCULATIONS

Table 2: Calculations

Section	Name		Revision	Reviewed by
1.0	Stamped Drawings		A	RTS
2.0	Calculations		A	RTS
3.0	PS1		A	RTS

DESIGN LOADS
 Wind Load 65m/s
 Snow Load 2.9kpa



STRUCTURAL DESIGN ELEMENTS
 REVIEWED AS IN ACCORDANCE WITH
 DESIGN CALCULATIONS

BOULDER
 027 442 3730

SIGNED: DON HAWKINS
 DATE: 04/11/2019
 DAY WMP# 31230

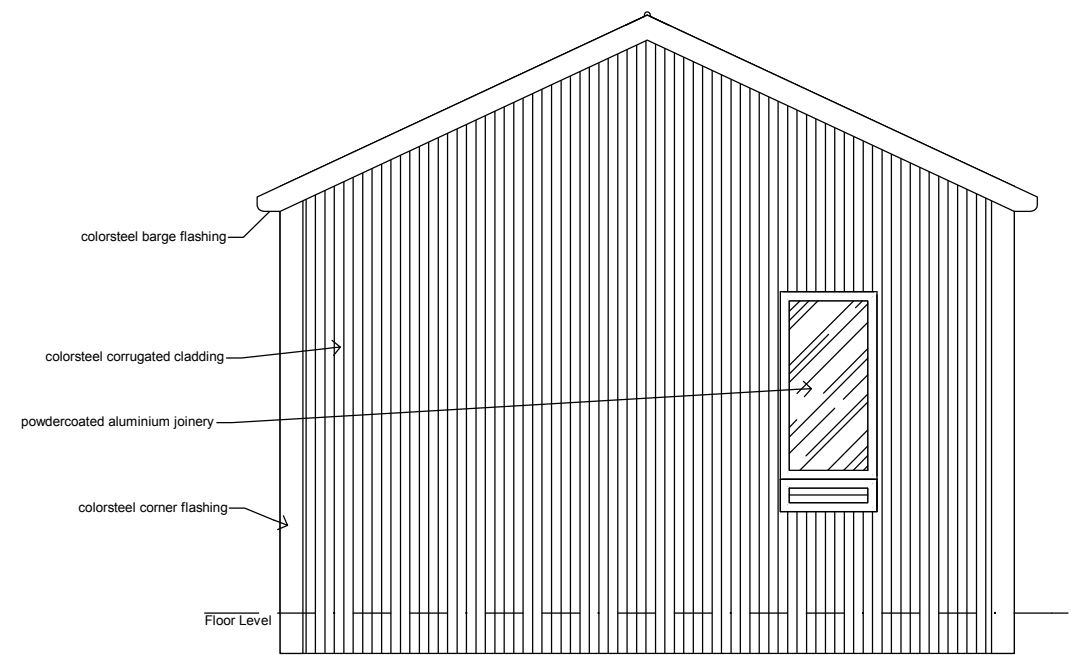
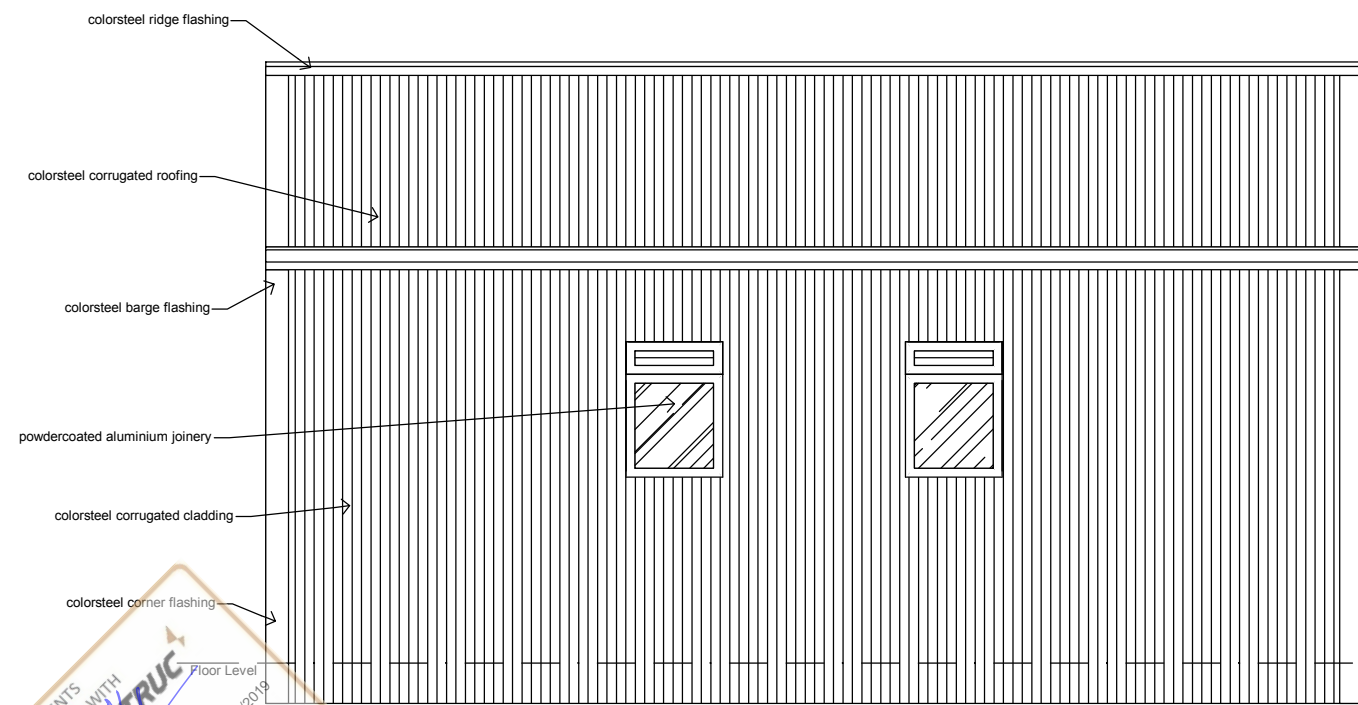
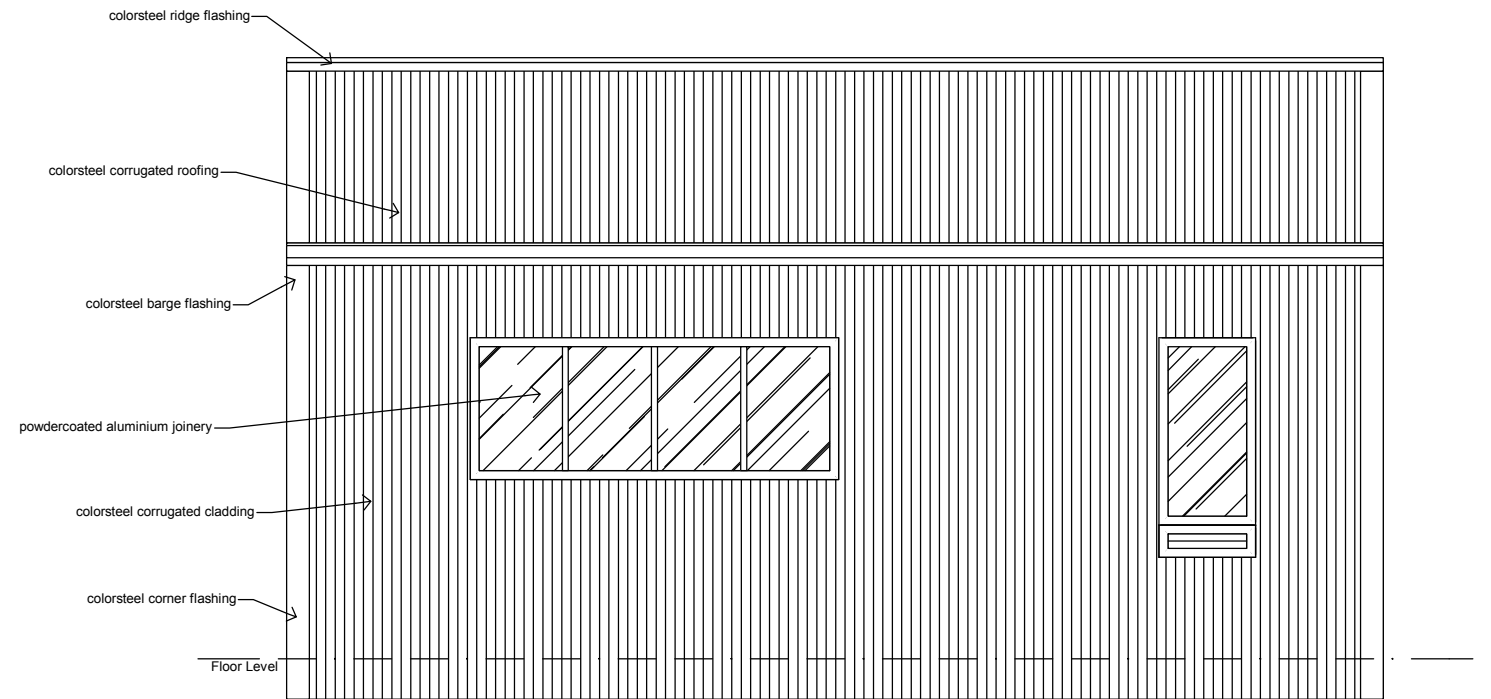
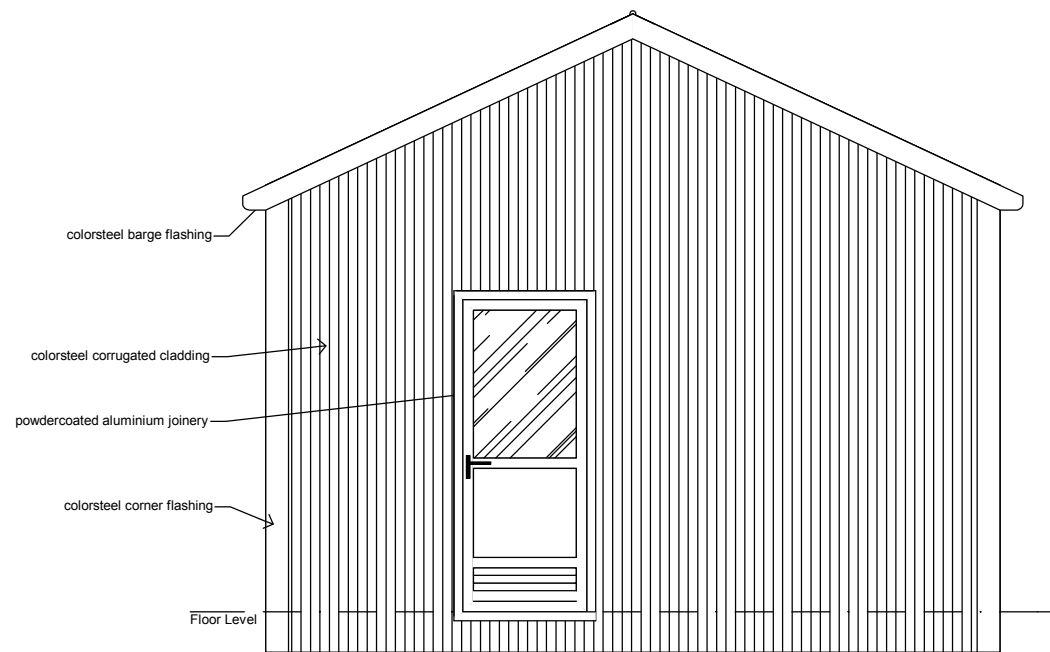
62a Awamoia Road,
 Holmes Hill Camaru 9401
 Ph 434 9067 or 027 442 3730
 don-builder@xtra.co.nz

**PROPOSED
 LEANING LODGE HUT
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REV. No.	REV. DATE	DRAWING AMENDMENTS

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CHECKED	DJH	FINISH DATE 25/3/19

SCALE	1:40	SHEET No.	1
		SERIES OF 8	REF. 2019/46



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 62a Awamoa Road,
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 don-builder@xtra.co.nz
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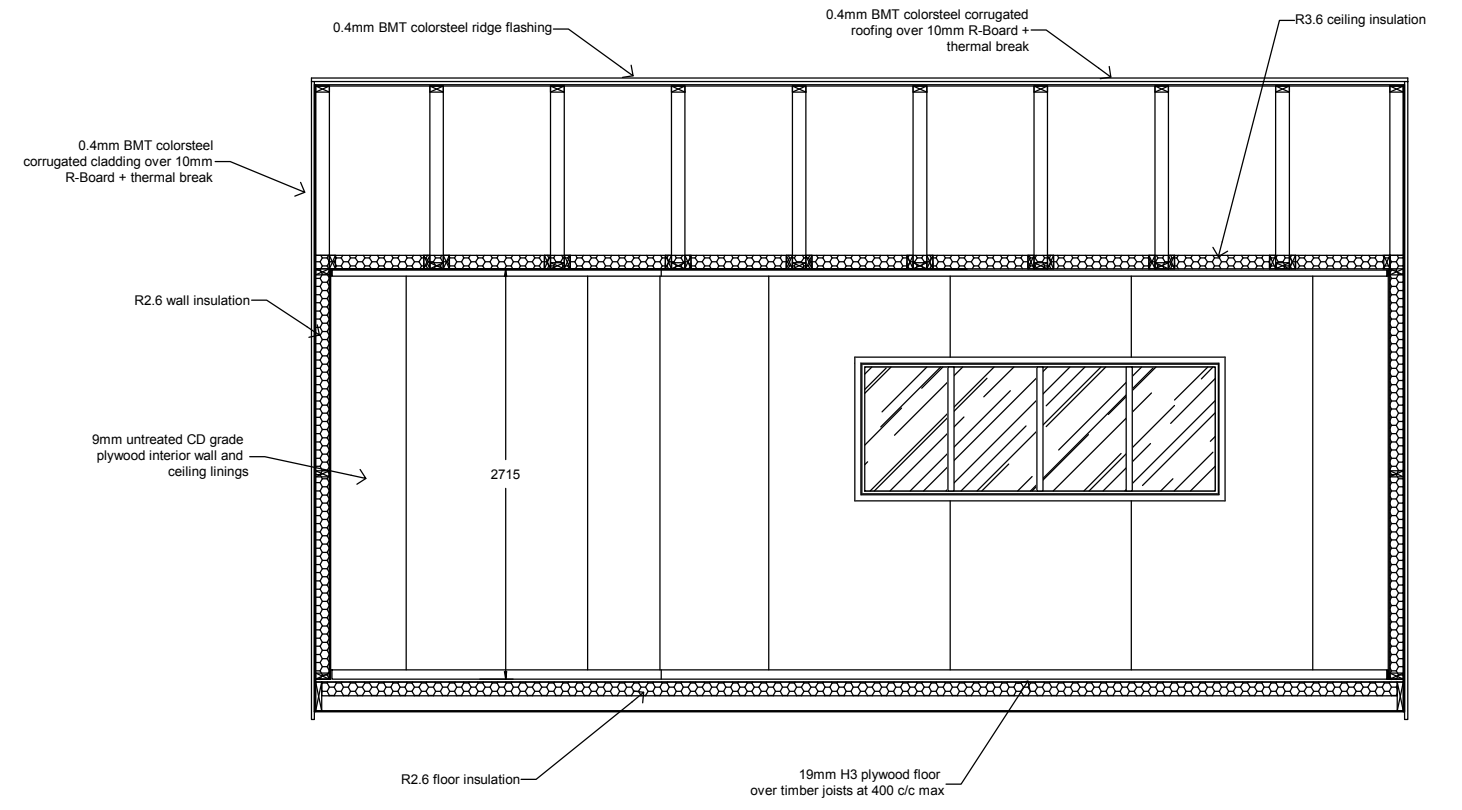
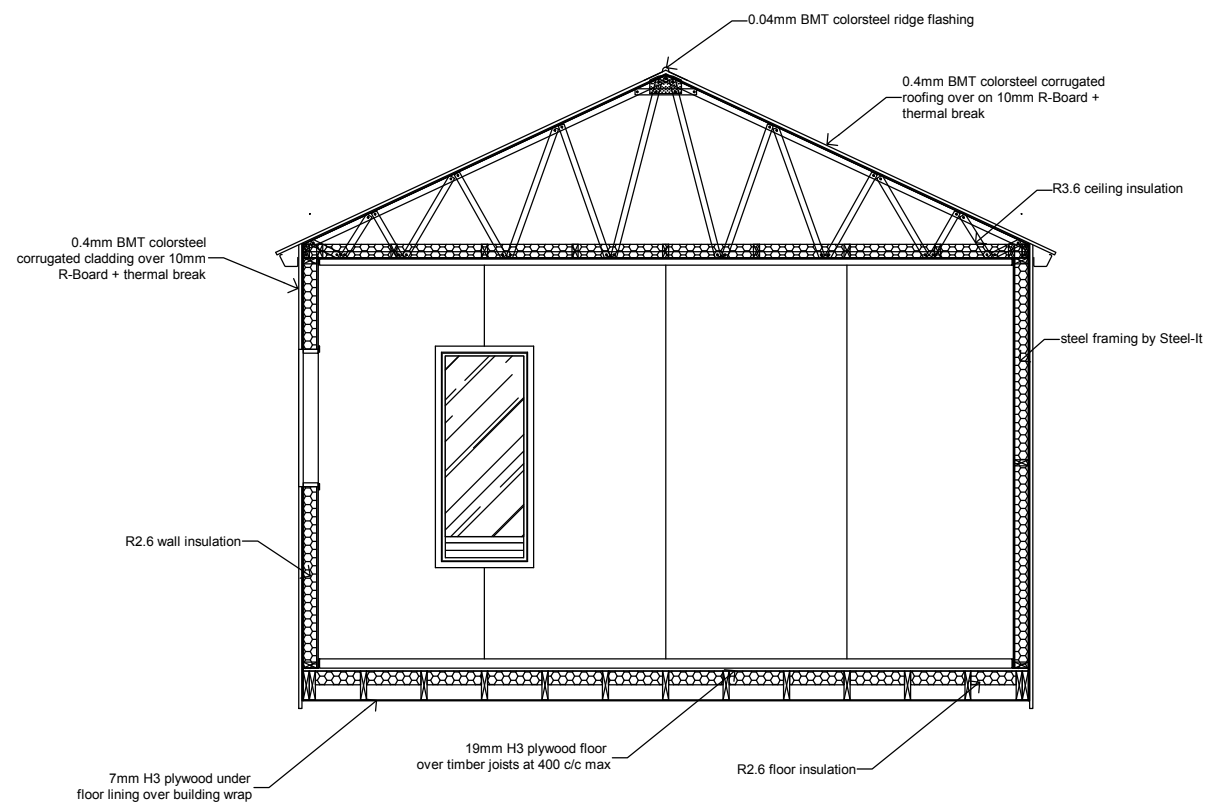
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CHECKED	DJH	FINISH DATE 25/3/19

ELEVATIONS	
SCALE 1:50	

SHEET No.	2
SERIES OF 8	
REF.	2019/46



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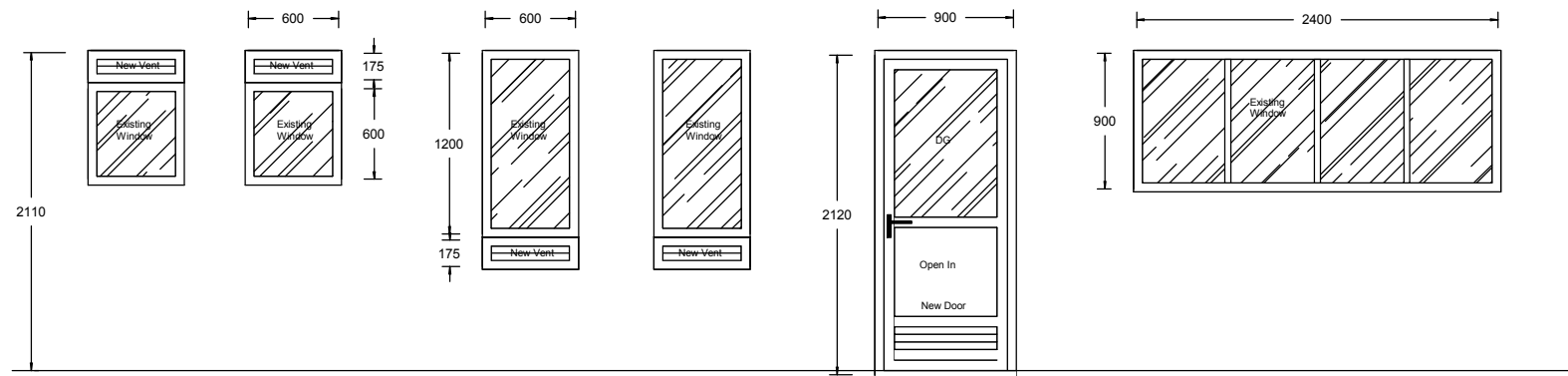
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SCALE	1:50
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SHEET No.	3
SERIES OF 8	
REF.	2019/46

Existing Windows Reused

Refer OTMC Drawings For More Details



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EOSTRUC

SIGNED: *[Signature]*
 DATE: 04/11/2019
 DAY: WEDNESDAY 31230

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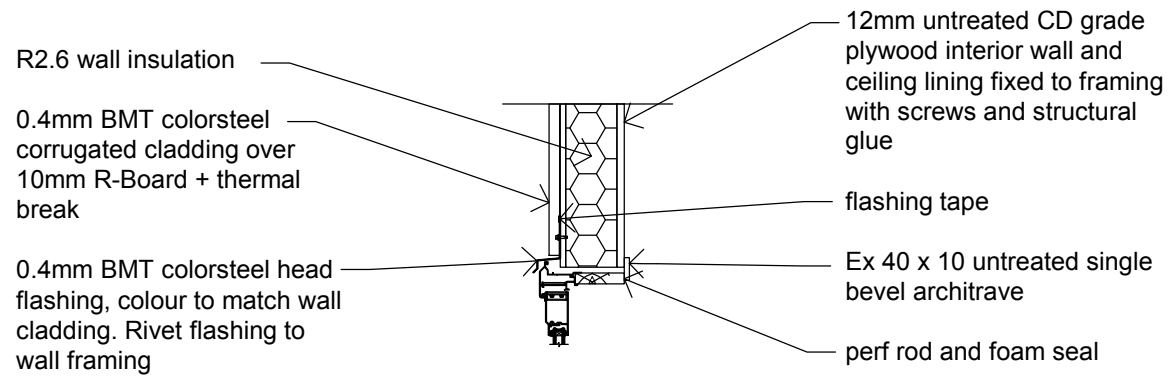
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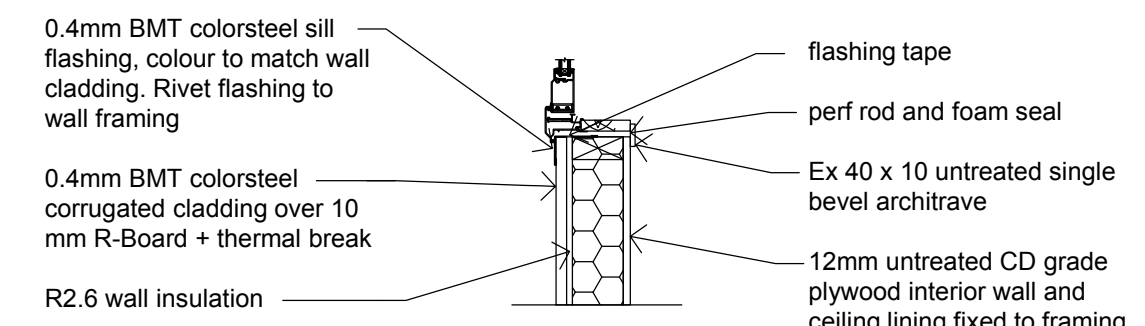
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DESIGNED	DJH	START DATE 25/3/19
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WINDOW & DOOR SCHEDULE	
SCALE	1:50, 1:10

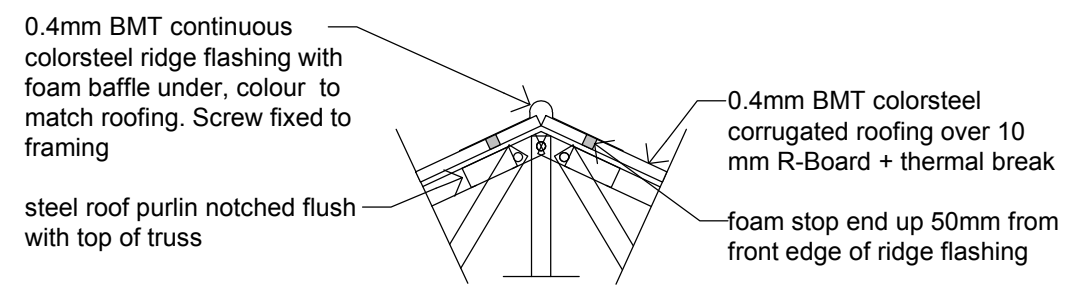
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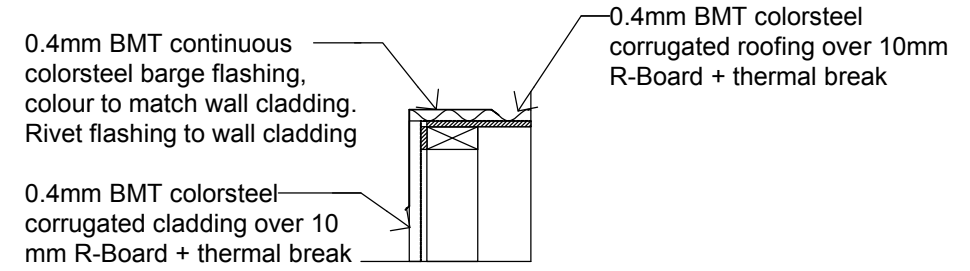
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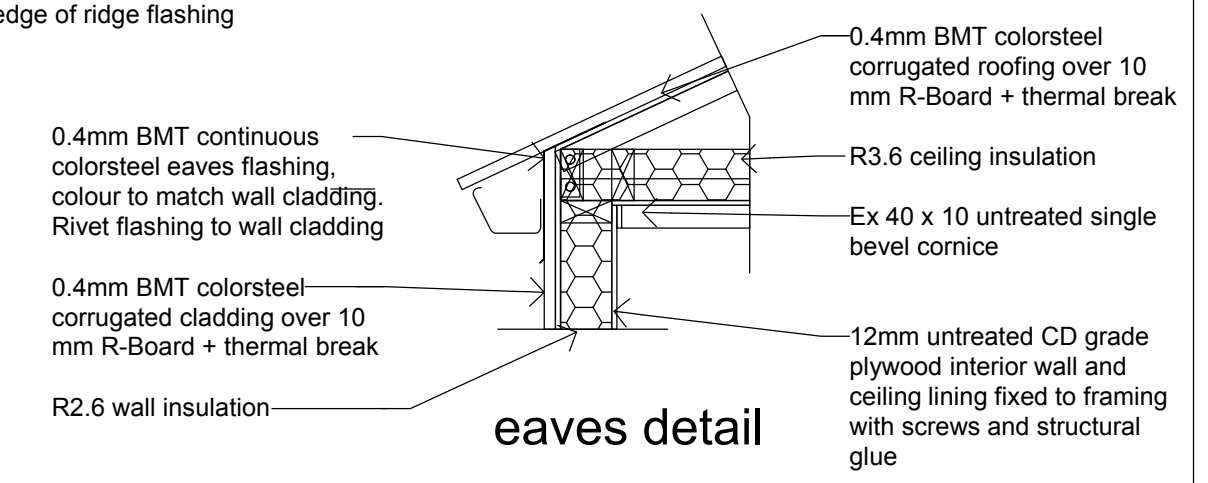
sill detail



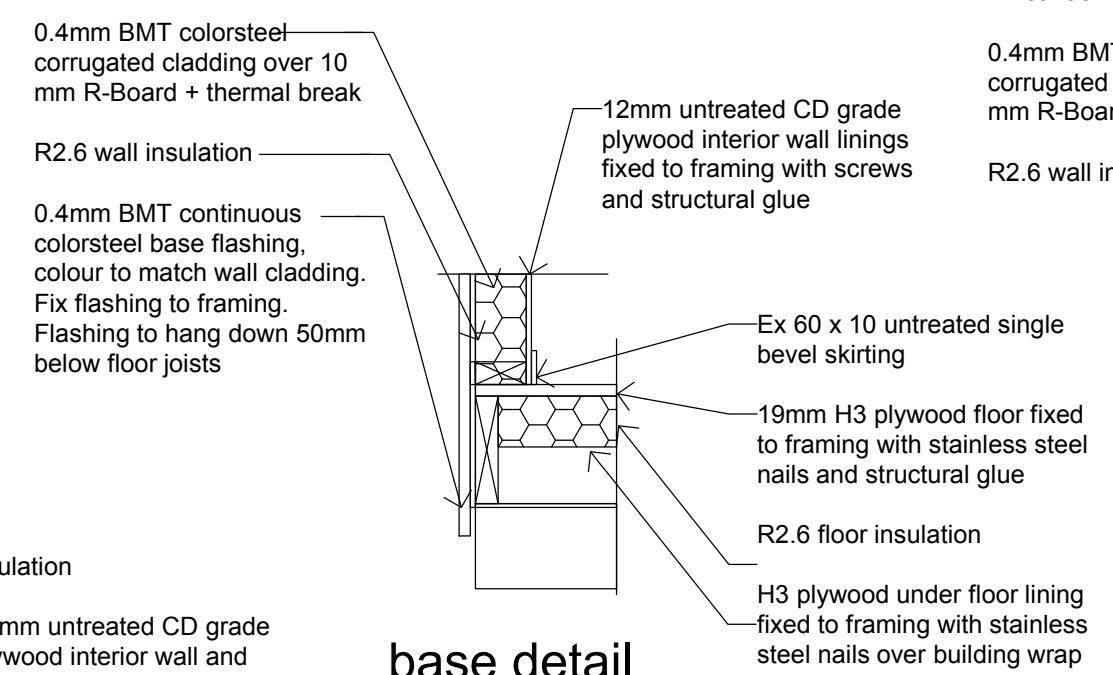
ridge detail



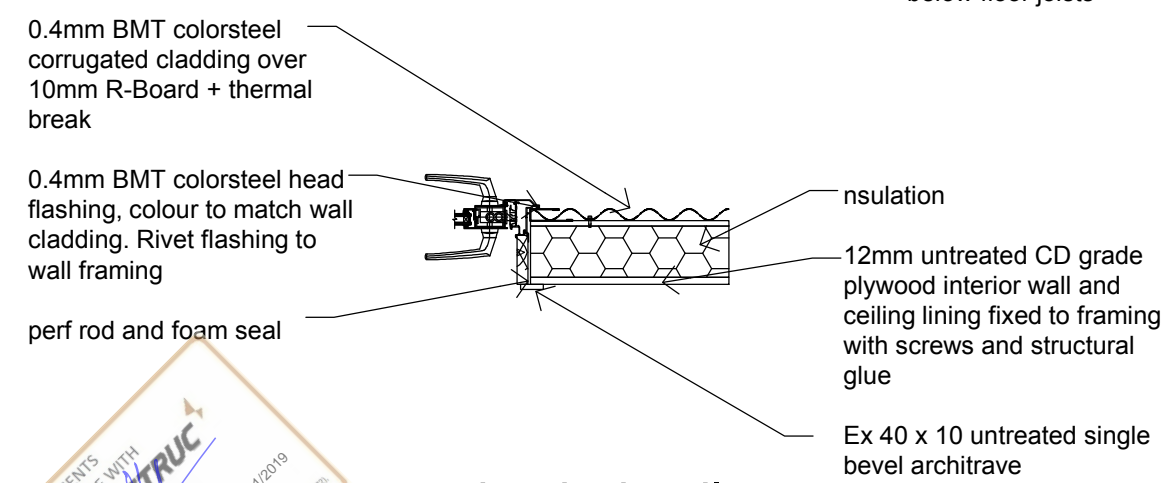
barge detail



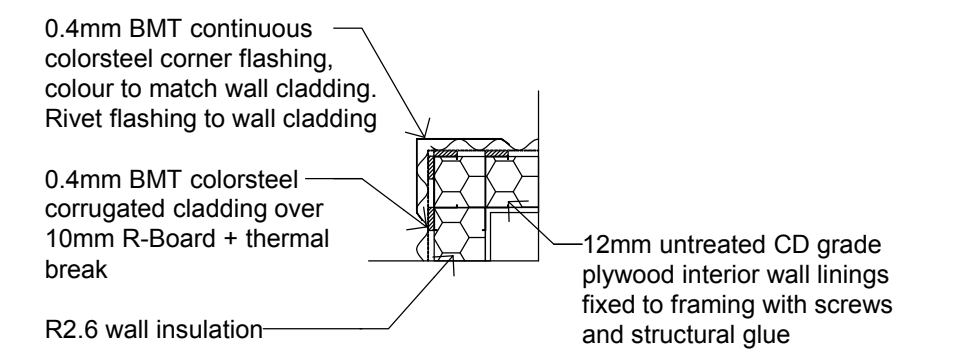
eaves detail



base detail



jamb detail



corner detail

STRUCTURAL DESIGN ELEMENTS
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 SIGNED: DON HAWKINS
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DESIGNED	DJH	START DATE	25/3/19	SCALE	STANDARD DETAILS 1	SHEET No. 5
DRAWN	DJH	REV. DATE				
CHECKED	DJH	FINISH DATE	25/3/19			
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Existing Bench, Bunks, Etc. Reused
 Refer OTMC Drawings For More Details

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SIGNED: *[Signature]*
 DON HAWKINS
 DATE: 04/11/2019
 DAY: WEDNESDAY 312209
 CPD: 10/10/19 (10/10/19) (10/10/19)

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CHECKED	DJH	FINISH DATE	25/3/19

STANDARD
 DETAILS 2

SCALE
 1:20 or 1:10

SHEET No.	6
SERIES OF 8	
REF.	2019/46

Existing Foundations, Floor Structure and Deck Reused
 Refer OTMC Drawings For More Details



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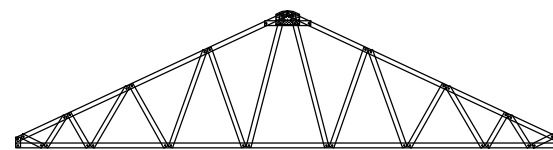
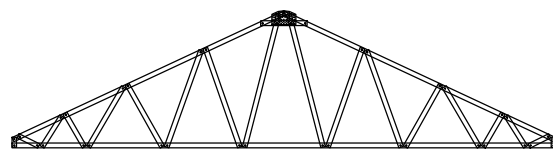
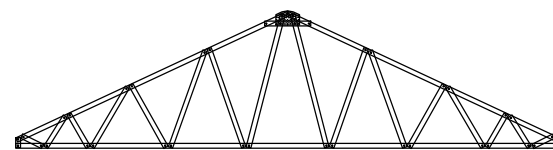
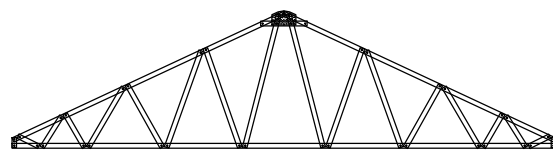
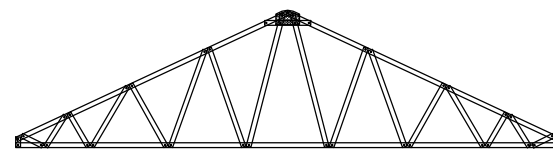
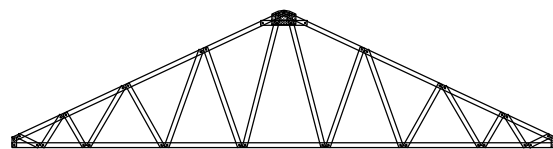
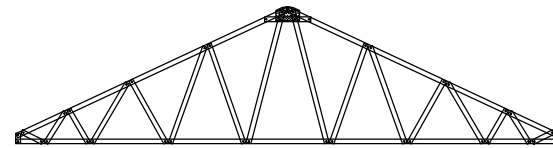
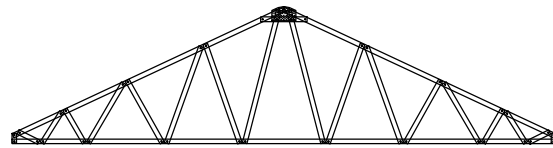
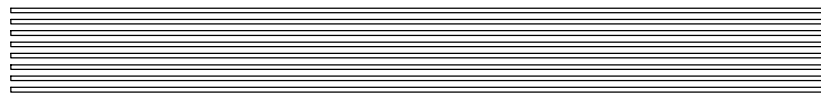
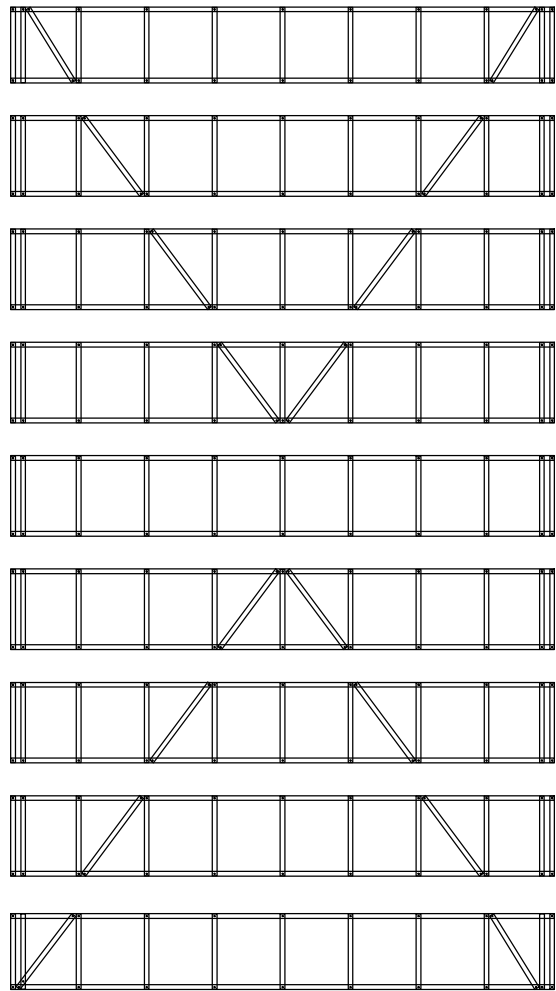
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FOUNDATION PLAN	
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SHEET No.	7
SERIES OF 8	
REF.	2018/43



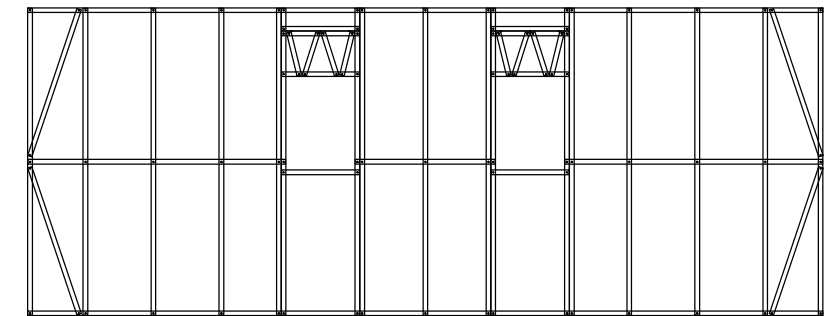
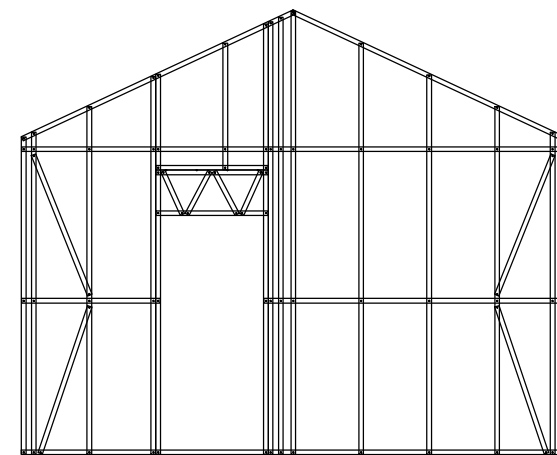
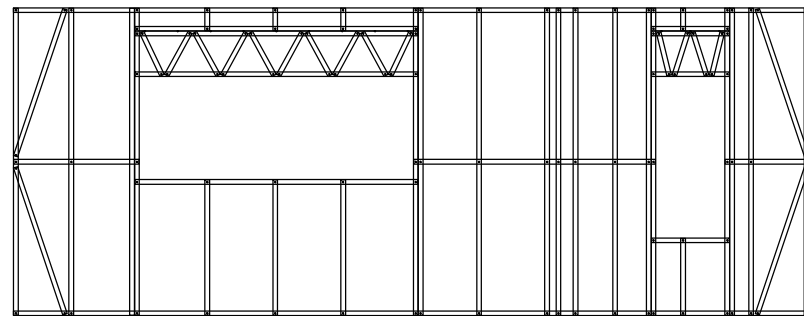
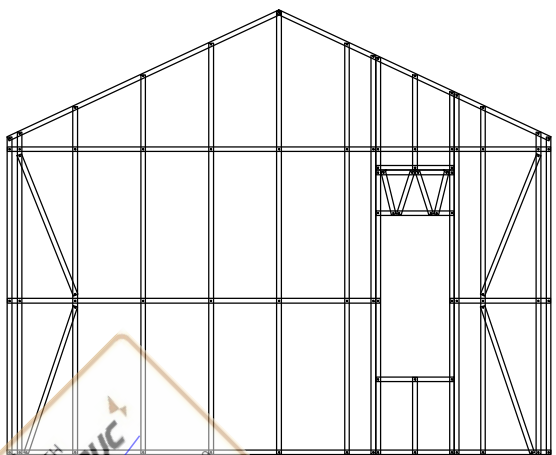
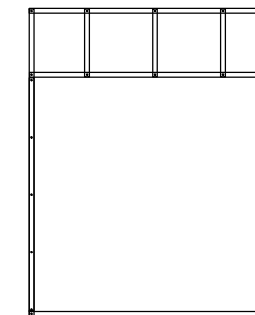
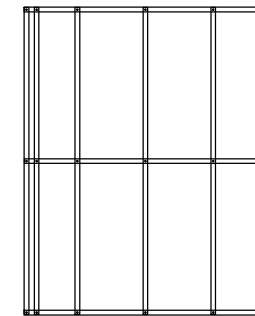
All Framing: 90LC75 Stud
90LC75 Purlin
90LC75 Plate and Nog

All Fixings: 10-16x16 Needle Point Screws in pre punched dimples
10-16x16 Tek Screws for frame connection
Type 17 Tek Screws for plate hold down

Stud Spacing: 600mm max cts

Purlin spacing: 900mm max cts

Nog Spacing: 1350mm cts



STRUCTURAL DESIGN ELEMENTS
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027 442 3730

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Holmes Hill Oamaru 9401
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don-builder@xtra.co.nz

DATE: 04/11/2019
DAY: WFP# 31230

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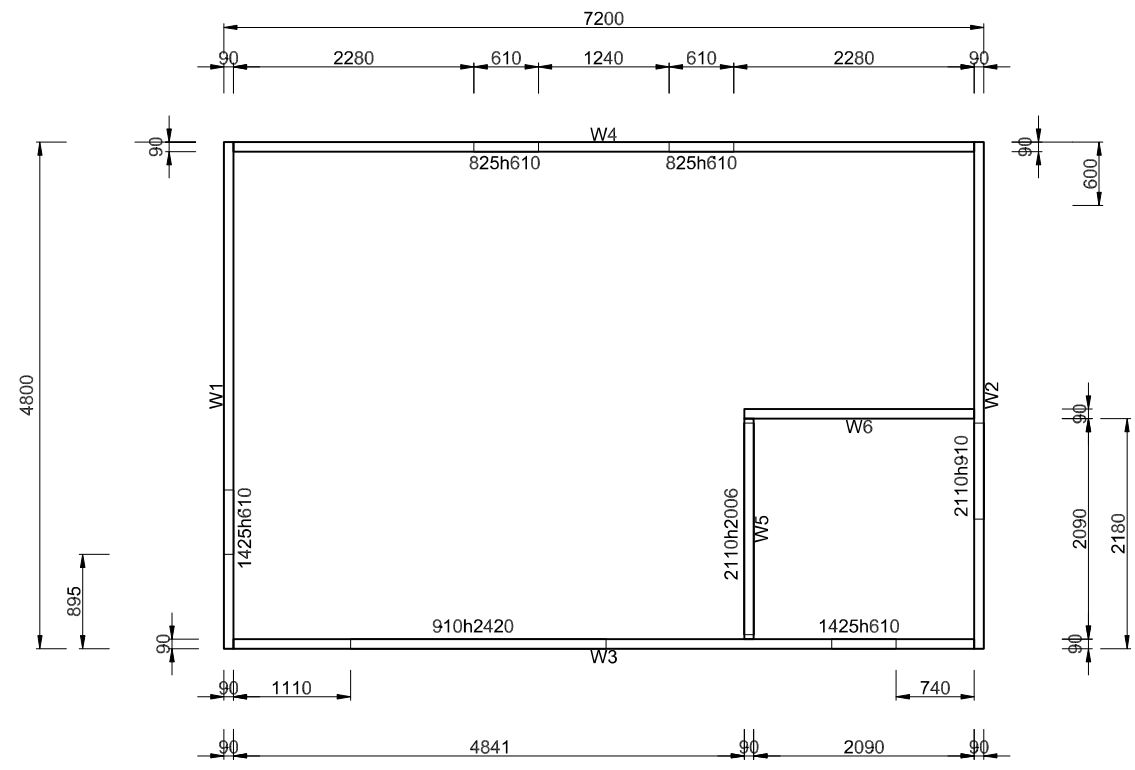
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CHECKED	DJH	FINISH DATE	25/3/19

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FRAMES	SCALE	1:67
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SHEET No.	8
SERIES OF	8
REF.	2019/46

Design Summary	
Floor Type	Concrete
Roof Load	Auto
System	FC_LGSC
Wind Load	VH



Wall Frame Layout



Rev:	Drawn By:	10 Bunk Hut
SIGNED:	AF	Oamaru
RODNEY STEWART	Sheet:	1 of 2
Professional Engineer No. 29289	Dwg File:	4319_10 bunk hut
DATE: 04/11/2019		
These designs are based on the architectural drawings listed below.		

By:	Details:

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Date:	21-08-2019

LGSC
 DESIGN & PROJECT MANAGEMENT
 CONSULTING DETAILING

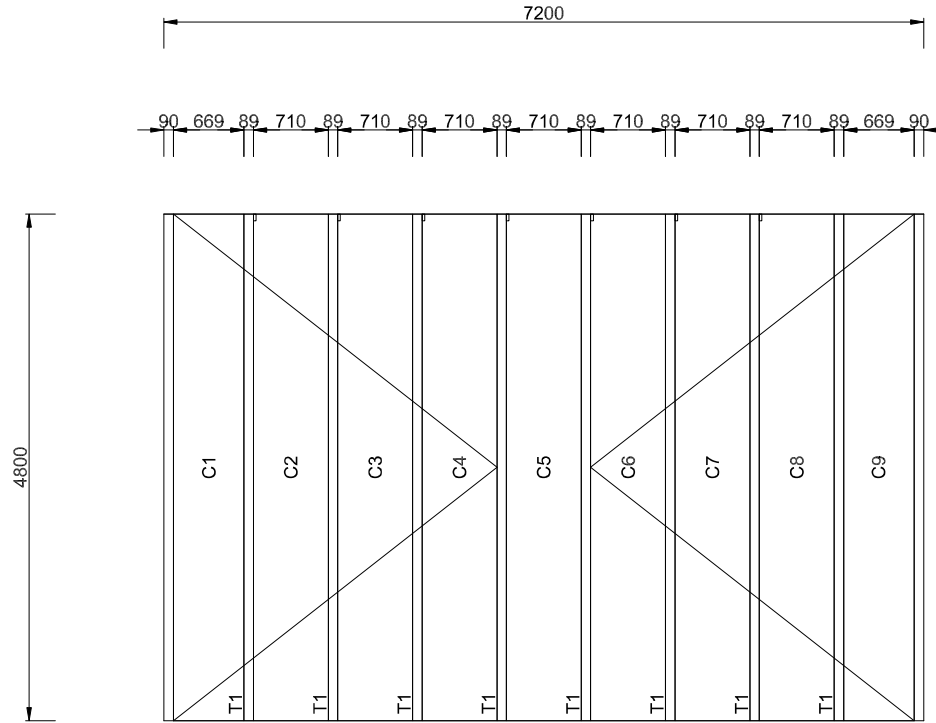
FRAMECAD

Job No. 4319

11 Magrath Ave, Paraparaumu 5254, NZ
 Ph: +64 4 892 0096 www.LGSC.co.nz

Truss Design Summary



System Name	FC_LGSC
Design Code	AS/NZS 4600:2005
Loading Code	NASH NZ 2010
Roof Load	SHEET
Wind Speed	VH
Snow Load	2.90
Roof Pitch	25.000
BC Restraints	600



extra 8 x 7.2m length for purlins

Roof Truss Layout

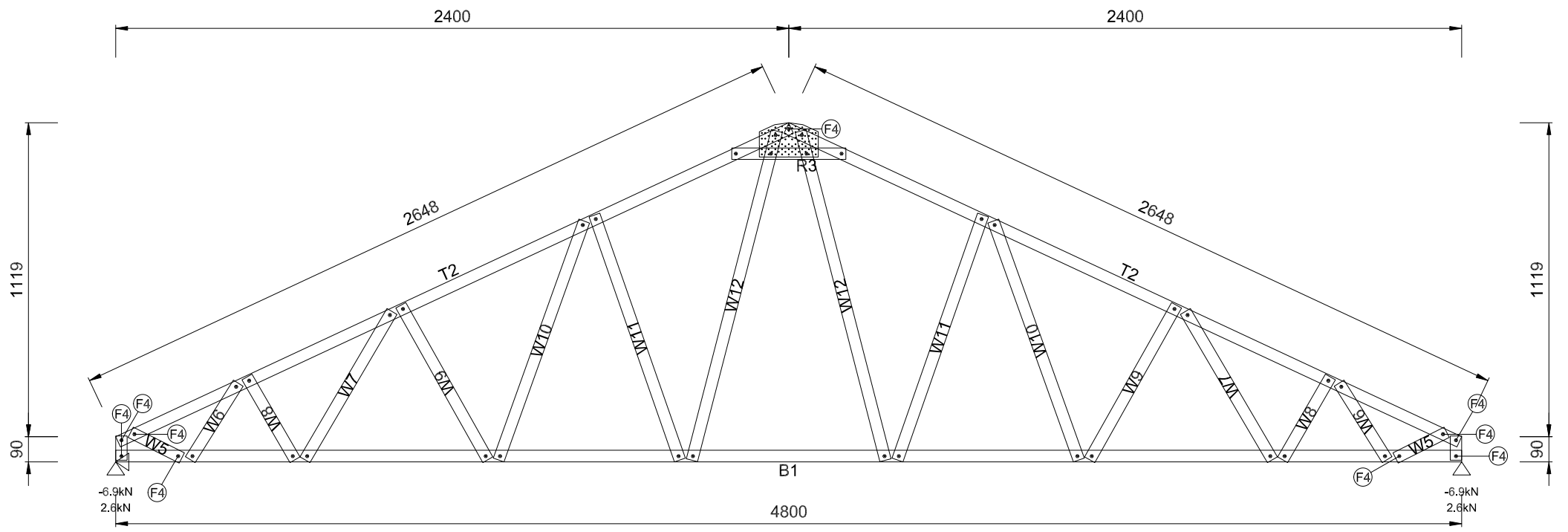


Rev:	Drawn By:	10 Bunk Hut Oamaru Hut	COPYRIGHT: This design and drawing is the property of Steel Building Frames and must not used, reproduced or copied wholly or in part without written permission from the company.	Scale:	 DESIGN & PROJECT MANAGEMENT CONSULTING DETAILING		
SIGNED:	AF			Not to scale			
RODNEY STEWART	Sheet:			Approved:			25-03-2019
DATE: 04/11/2019 DWG No: 31289	2 of 2			Date:			21-08-2019
These designs are based on the architectural drawings listed below.			Dwg File:	4319_10 bunk hut	Job No:	4319	
				11 Magrath Ave, Paraparaumu 5254, NZ Ph: +64 4 892 0096 www.LGSC.co.nz			

B1	89S41-075-550	8	4800mm	T2	89S41-075-550	16	2647mm	R3	89S41-075-550	8	407mm	W4	89S41-075-550	16	86mm
W5	89S41-075-550	16	204mm	W6	89S41-075-550	16	322mm	W7	89S41-075-550	16	613mm	W8	89S41-075-550	16	341mm
W9	89S41-075-550	16	632mm	W10	89S41-075-550	16	905mm	W11	89S41-075-550	16	925mm	W12	89S41-075-550	16	1212mm

Assembly Weight	24.3kg	Working Sheet: TFP	FRAMECAD 1.15mm Apex/Heel Plate	16
			FRAMECAD 10g-16mm Flathead	304
			FRAMECAD 10g-19mm XDrive	656

Powered by FRAMECAD Structure ® Minimum number of fasteners required is 2 per joint



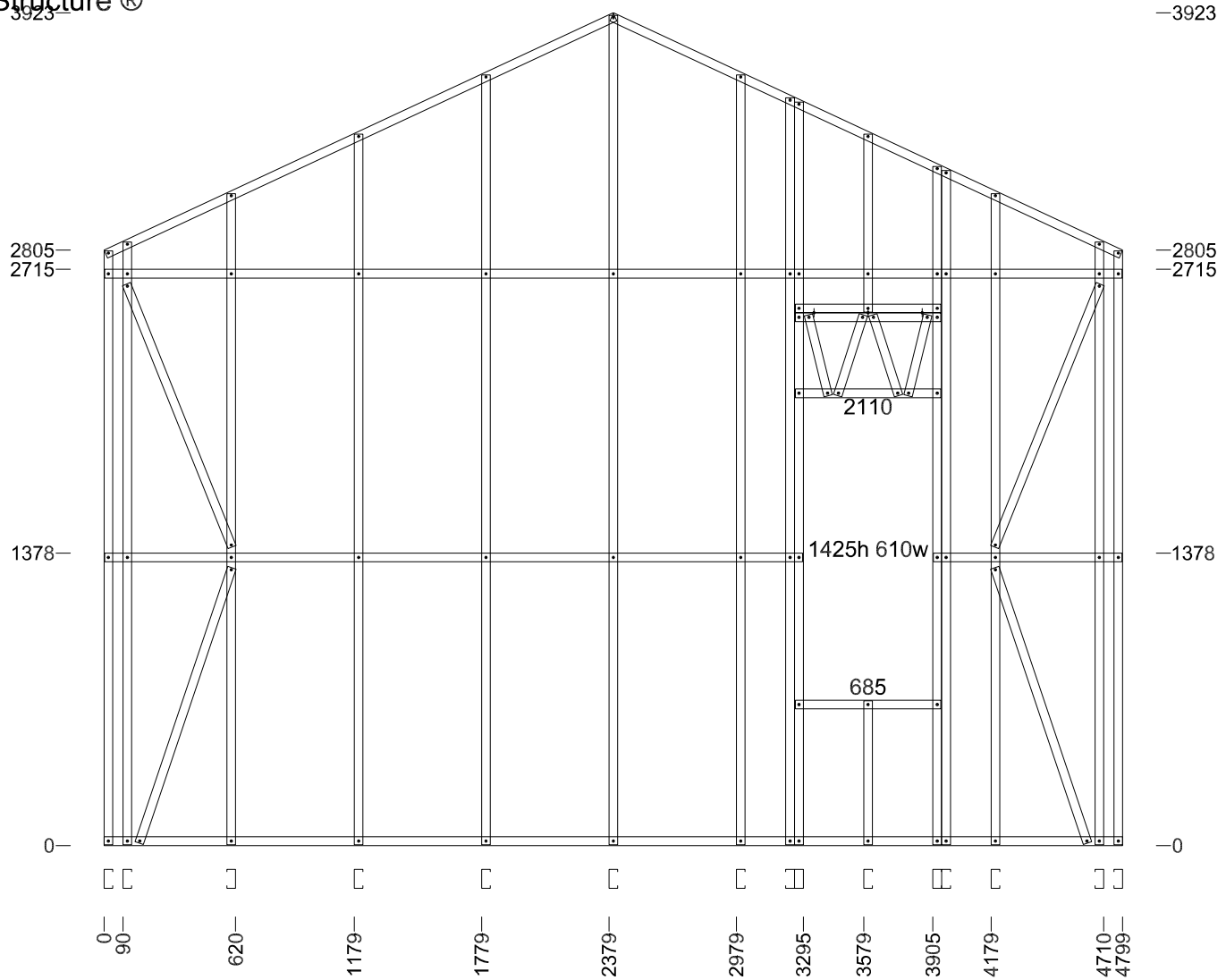
Quantity Required = 8 Mark as T1 (Edited) Engineering Status = 99%

System Name:	FC_LGSC	Roof Type:	SHEET	Design Wind Speed:	VH	Truss Pitch:	25.000
Truss Spacing:	889	Design Code:	AS/NZS 4600:2005	Loading Code:	NASH NZ 2010	Top Chord Live Load (kPa):	0.25
Top Chord Dead Load (kPa):	0.12	Bottom Chord Dead Load (kPa):	0.14	Top Chord Snow Load (kPa):	2.90	Envelope:	1213h x 4800w

89S41-075-550	2	1335mm	89S41-075-550	2	1369mm	89S41-075-550	2	2647mm	89S41-075-550	2	2799mm	89S41-075-550	2	2840mm	89S41-075-550	2	3069mm
89S41-075-550	1	3177mm	89S41-075-550	1	3197mm	89S41-075-550	1	3289mm	89S41-075-550	1	3348mm	89S41-075-550	1	3500mm	89S41-075-550	1	3520mm
89S41-075-550	2	3628mm	89S41-075-550	1	3908mm	89S41-075-550	2	393mm	89S41-075-550	2	400mm	89S41-075-550	1	4793mm	89S41-075-550	1	4799mm
89S41-075-550	1	679mm	89S41-075-550	4	686mm	89S41-075-550	1	838mm	89S41-075-550	1	889mm						

Assembly Weight 88kg Working Sheet: WfP FRAMECAD 10g-19mm HWH Hex 6 FRAMECAD 10g-19mm XDrive 170

Powered by FRAMECAD Structure®



Diagonal = 6199



CAUTION! 88kg

Quantity Required = 1 Mark as W1 Header Status = Passed Stud Status = Passed

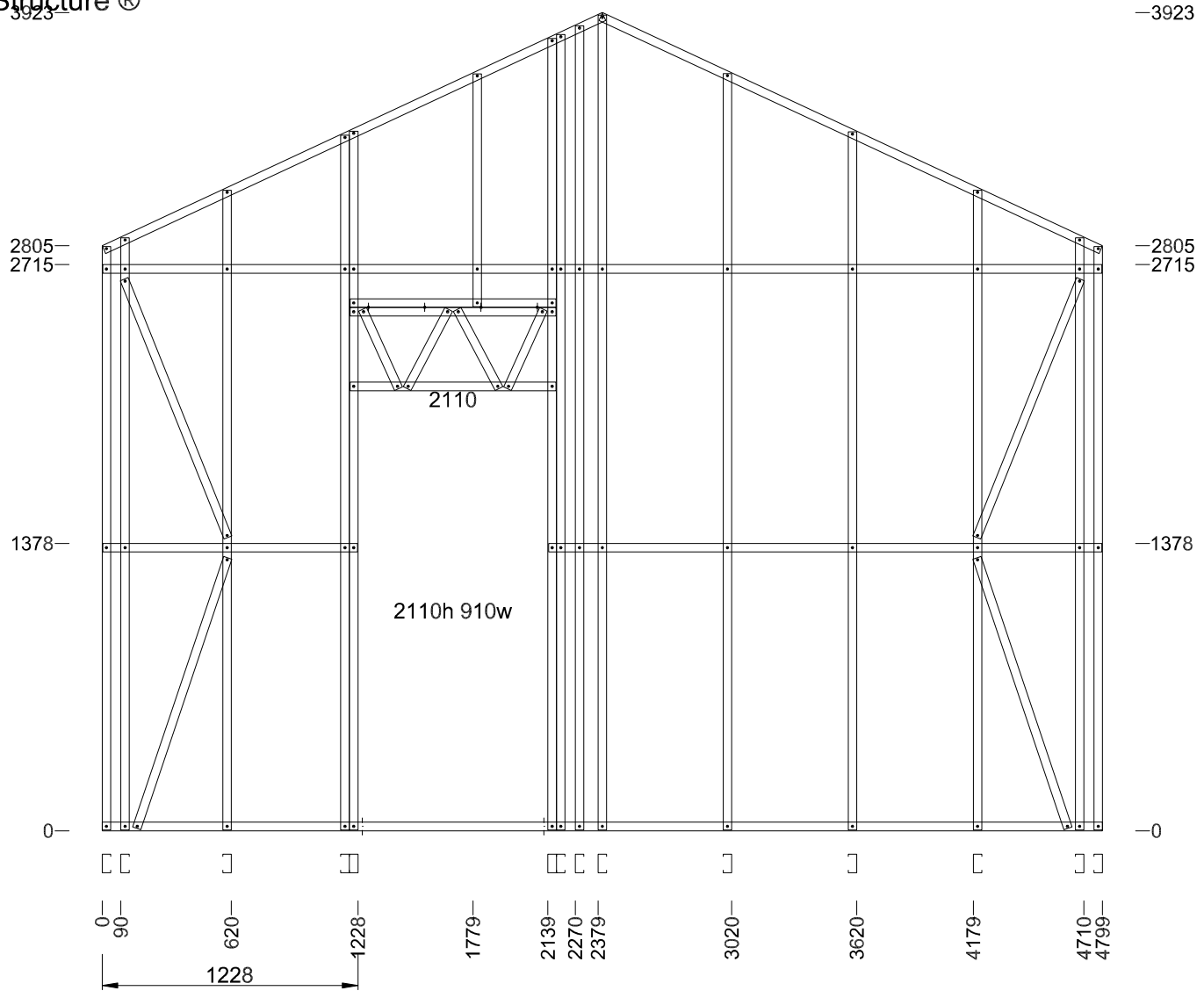
Joins W3 >>>

System Name:	FC_LGSC	Wall Type:	Load Bearing	Design Wind Speed:	VH	Design Code:	AS/NZS 4600:2005	Loading Code:	NASH NZ 2010
Panel RL:	0	Envelope:	3923h x 4799w	Direction:	N-S				

89S41-075-550	1	1117mm	89S41-075-550	1	1222mm	89S41-075-550	2	1335mm	89S41-075-550	2	1369mm	89S41-075-550	2	2647mm	89S41-075-550	1	2655mm
89S41-075-550	2	2799mm	89S41-075-550	2	2840mm	89S41-075-550	2	3069mm	89S41-075-550	1	3332mm	89S41-075-550	1	3348mm	89S41-075-550	1	3352mm
89S41-075-550	1	3628mm	89S41-075-550	1	3796mm	89S41-075-550	1	3815mm	89S41-075-550	1	3857mm	89S41-075-550	1	3908mm	89S41-075-550	2	417mm
89S41-075-550	2	429mm	89S41-075-550	1	4793mm	89S41-075-550	1	4799mm	89S41-075-550	3	987mm						

Assembly Weight 89kg Working Sheet: WfP FRAMECAD 10g-19mm HWH Hex 8 FRAMECAD 10g-19mm XDrive 162

Powered by FRAMECAD Structure® Diagonal = 6199



STRUCTURAL DESIGN ELEMENTS
 REVIEWED AS IN ACCORDANCE WITH
 DESIGN CALCULATIONS
 EQ5TRUC
 DATE: 04/11/2019
 WfP 31289

CAUTION! 89kg
 Quantity Required = 1 Mark as W2 Header Status = Passed Stud Status = Passed Joins W4 >>>

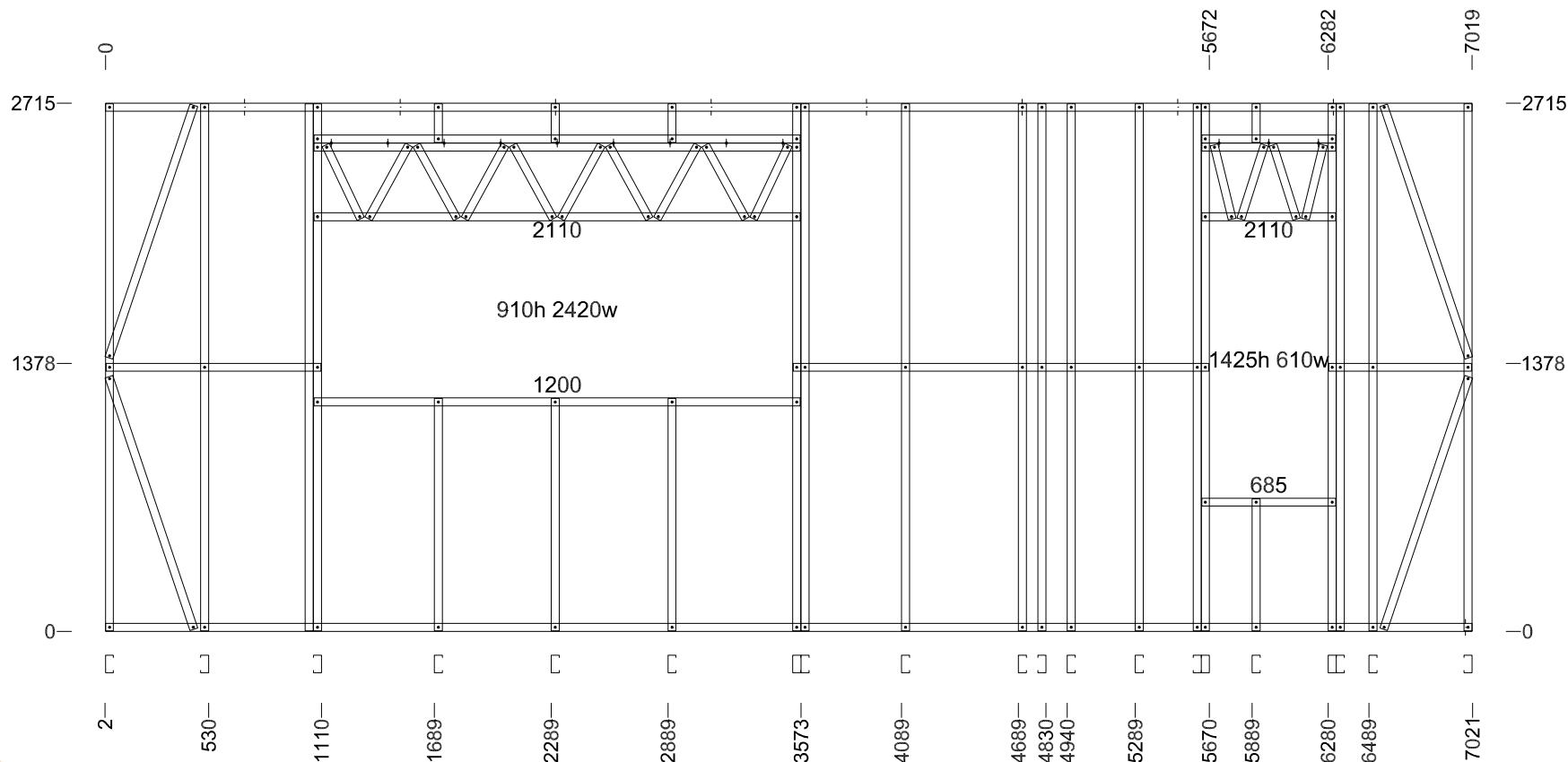
System Name:	FC_LGSC	Wall Type:	Load Bearing	Design Wind Speed:	VH	Design Code:	AS/NZS 4600:2005	Loading Code:	NASH NZ 2010
Panel RL:	0	Envelope:	3923h x 4799w	Direction:	S-N				

89S41-075-550	1 1104mm	89S41-075-550	3 1194mm	89S41-075-550	4 1369mm	89S41-075-550	4 199mm	89S41-075-550	1 2134mm
89S41-075-550	4 2496mm	89S41-075-550	17 2709mm	89S41-075-550	2 393mm	89S41-075-550	2 400mm	89S41-075-550	2 420mm
89S41-075-550	8 432mm	89S41-075-550	1 679mm	89S41-075-550	4 686mm	89S41-075-550	2 7019mm	89S41-075-550	1 734mm

Assembly Weight 108kg Working Sheet: WfP FRAMECAD 10g-19mm HWH Hex 24 FRAMECAD 10g-19mm XDrive 232

Powered by FRAMECAD Structure ®

Diagonal = 7530



CAUTION! 108kg

Quantity Required = 1 Mark as W3 Header Status = Passed Stud Status = Passed

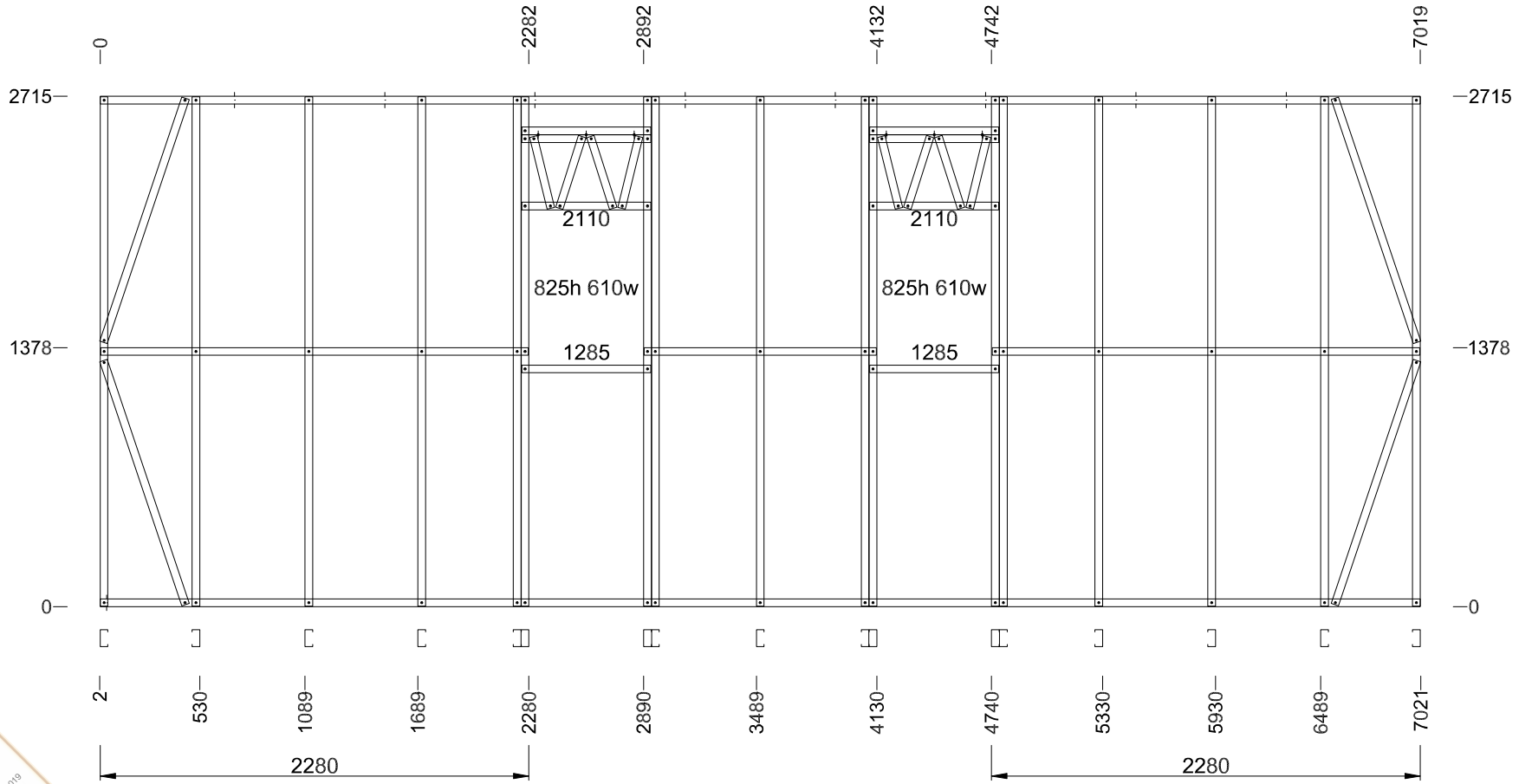
Joins W2 >>>

System Name: FC_LGSC	Wall Type: Load Bearing	Design Wind Speed: VH	Design Code: AS/NZS 4600:2005	Loading Code: NASH NZ 2010
Panel RL: 0	Envelope: 2715h x 7023w	Direction: W-E		

89S41-075-550	1 1234mm	89S41-075-550	4 1369mm	89S41-075-550	2 2274mm	89S41-075-550	17 2709mm	89S41-075-550	4 393mm
89S41-075-550	4 400mm	89S41-075-550	8 686mm	89S41-075-550	2 7019mm				

Assembly Weight 93kg Working Sheet: WfP FRAMECAD 10g-19mm HWH Hex 12 FRAMECAD 10g-19mm XDrive 182

Powered by FRAMECAD Structure ® Diagonal = 7530



CAUTION! 93kg

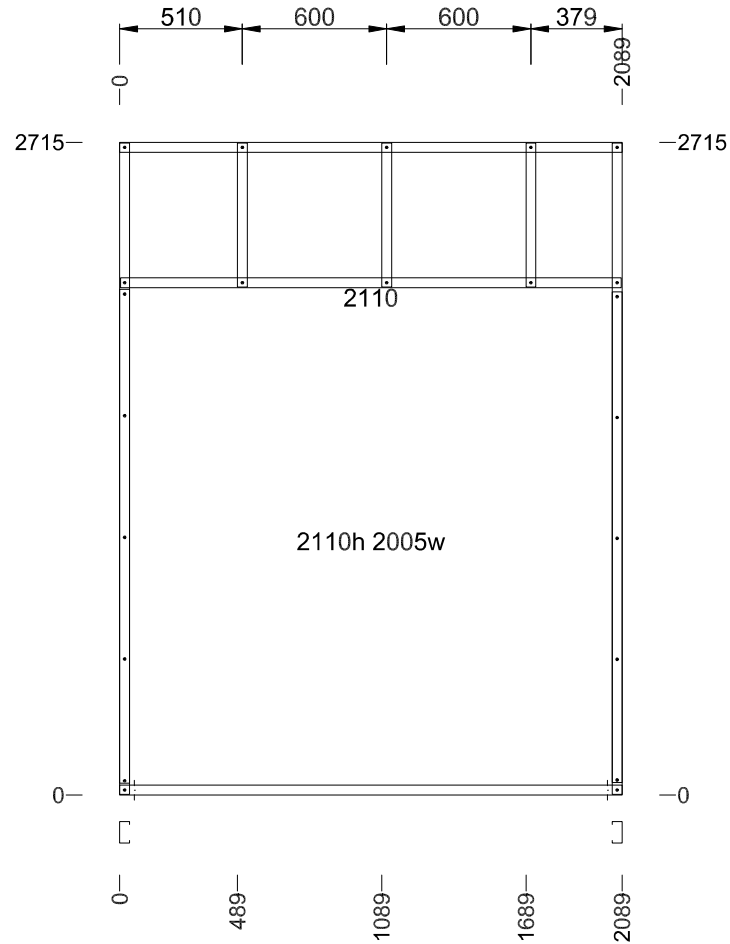
Quantity Required = 1 Mark as W4 Header Status = Passed Stud Status = Passed

Joins W1 >>>

System Name:	FC_LGSC	Wall Type:	Load Bearing	Design Wind Speed:	VH	Design Code:	AS/NZS 4600:2005	Loading Code:	NASH NZ 2010
Panel RL:	0	Envelope:	2715h x 7023w	Direction:	E-W				

Powered by FRAMECAD Structure [®]

Diagonal = 3426



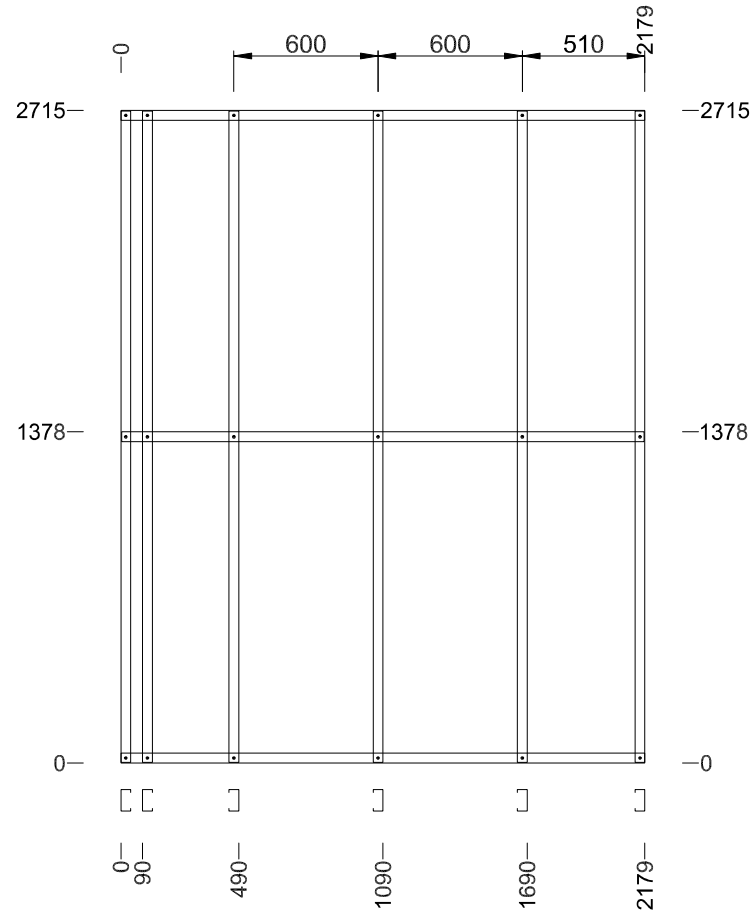
Quantity Required = 1 Mark as W5 Header Status = Passed Stud Status = Amended

Joins W6 >>>

System Name:	FC_LGSC	Wall Type:	Non Load Bearing	Design Wind Speed:	VH	Design Code:	AS/NZS 4600:2005	Loading Code:	NASH NZ 2010
Panel RL:	0	Envelope:	2715h x 2089w	Direction:	S-N				

Powered by FRAMECAD Structure ®

Diagonal = 3481



Quantity Required = 1 Mark as W6 Stud Status = Amended

Joins W2 >>>

System Name:	FC_LGSC	Wall Type:	Non Load Bearing	Design Wind Speed:	VH	Design Code:	AS/NZS 4600:2005	Loading Code:	NASH NZ 2010
Panel RL:	0	Envelope:	2715h x 2179w	Direction:	W-E				



Building Code Clause(s).....

PRODUCER STATEMENT – PS1 – DESIGN

(Guidance on use of Producer Statements (formerly page 2) is available at www.ipenz.nz)

ISSUED BY: (Design Firm)

TO: (Owner/Developer)

TO BE SUPPLIED TO: (Building Consent Authority)

IN RESPECT OF: (Description of Building Work)

AT: (Address)

Town/City: (Address) LOT DP SO

We have been engaged by the owner/developer referred to above to provide:

..... (Extent of Engagement)

services in respect of the requirements of Clause(s).....of the Building Code for:

All or Part only (as specified in the attachment to this statement), of the proposed building work.

The design carried out by us has been prepared in accordance with:

Compliance Documents issued by the Ministry of Business, Innovation & Employment.....OR (verification method/acceptable solution)

Alternative solution as per the attached schedule.....

The proposed building work covered by this producer statement is described on the drawings titled:

.....and numbered; together with the specification, and other documents set out in the schedule attached to this statement.

On behalf of the Design Firm, and subject to:

- (i) Site verification of the following design assumptions
- (ii) All proprietary products meeting their performance specification requirements;

I believe on reasonable grounds that a) the building, if constructed in accordance with the drawings, specifications, and other documents provided or listed in the attached schedule, will comply with the relevant provisions of the Building Code and that b), the persons who have undertaken the design have the necessary competency to do so. I also recommend the following level of construction monitoring/observation:

CM1 CM2 CM3 CM4 CM5 (Engineering Categories) or as per agreement with owner/developer (Architectural)

I, am: CPEng # Reg Arch # (Name of Design Professional)

I am a Member of: IPENZ NZIA and hold the following qualifications:.....

The Design Firm issuing this statement holds a current policy of Professional Indemnity Insurance no less than \$200,000*

The Design Firm is a member of ACENZ:

SIGNED BY (Signature) (Name of Design Professional)

ON BEHALF OF (Design Firm) Date.....

Note: This statement shall only be relied upon by the Building Consent Authority named above. Liability under this statement accrues to the Design Firm only. The total maximum amount of damages payable arising from this statement and all other statements provided to the Building Consent Authority in relation to this building work, whether in contract, tort or otherwise (including negligence), is limited to the sum of \$200,000*.

This form is to accompany Form 2 of the Building (Forms) Regulations 2004 for the application of a Building Consent. THIS FORM AND ITS CONDITIONS ARE COPYRIGHT TO ACENZ, IPENZ AND NZIA

4 November 2019
Dunedin City Council

RE: B2 compliance – Leaning Lodge Shelter

To whom it may concern,

You have requested a Producer Statement/other means of compliance for Design for Clause B2 of the Building Code – Durability. We are not able to provide a Producer Statement for durability because compliance needs to be shown on a material-by-material basis using a variety of compliance methods, and not all materials used have a clear compliance path. We can confirm that for the structural elements shown in our documentation under Clause B1:

Timber

Timber treatment has been selected in accordance with Table 1A of B2/AS1

Concrete

Concrete covers have been selected in accordance with NZS 3101, Part 1, Section 3

Mild Steel

Steel production has been specified in accordance with the “Guide to the protection of structural steel against atmospheric corrosion by the use of protective coatings” AS/NZS 2312. We note this is on a first time to maintenance basis.

We trust this provides the information you are seeking

Yours faithfully,

A handwritten signature in blue ink, appearing to read "Rodney Stokes".

Rodney Stokes

BE, NZCE, CPEng, IntPE, MIPENZ, MIEAust, CPEng Aust, RPEQ, NER, RPeng, VBA

Principal Engineer/Director

E: rod@eqstruc.co.nz

