

CODE COMPLIANCE CERTIFICATE

Section 95 Building Act 2004 [Form 7 – Building (forms) Regulations 2004]



Consent No(s): 210691

The Building			
Street address of building:	198-200 Maungakotukutuku Road, Paraparaumu	Building name:	N/A
Current, Lawfully established, use:	Outbuilding	Location of building within site/block number:	Approximately 22m from the Southern boundary and 210m from Maungakotukutuku Rd
		Intended life of the building if 50 years or less:	-
Level/unit number:	-	Year first constructed:	2021
Legal description of land where building is located:	LOT 20 DP 33688		

The Owner			
Name of owner:	Pete Saunders and Usani Saunders	Street address /registered office:	198-200 Maungakotukutuku Road, Paraparaumu
Contact person:	Totalspan Wellington - Horowhenua	Phone numbers:	
Mailing address:	200 Maungakotukutuku Road Paraparaumu 5032	Landline:	-
		Mobile:	021 242 0309
		Daytime:	-
Email address:	pjsaunders@live.com	After hours:	-
Website:	N/A	Facsimile number:	-

First point of contact for communications with the Kapiti Coast District Council:	
As above	

Building Work	
Building Consent No(s):	210691
Issued by:	Kapiti Coast District Council

Code Compliance

The building consent authority named below is satisfied, on reasonable grounds, that:

- (a) the building work complies with the building consent

Michelle Salmon –
Building Inspections Team Leader
On behalf of **Kapiti Coast District Council**

Date: 20/11/2023

Totalspan Wellington - Horowhenua
PO Box 15082
Otaki 5542

20 September 2021

Dear Building Consent Applicant / Building Owner

Approval of Building Consent – Detached Residential / Outbuilding: 210691

Location: 198-200 Maungakotukutuku Road, Parapara
Legal Description: LOT 20 DP 33688
Description: New Totalspan steel portal framed and steel clad garage 11.7m x 10.0m with toilets.

I am pleased to inform you that the above building consent application has been approved. The building consent documents have been issued and are enclosed.

The building consent attached to this letter is consent under the Building Act 2004 to undertake building work in accordance with the plans and specifications that accompanied your application. Under section 49 of that Act, Council is satisfied that the provisions of the building code would be met if the proposed building work were completed in accordance with those plans and specifications. This consent does not affect any duty or responsibility under any other Act or permit any breach of any other Act.

This building consent does not give or imply any rights to transgress beyond your legal boundaries. Any work that is required beyond your legal boundaries can only be undertaken with the permission of the affected owner/s.

Before starting any work please read ALL the building consent documents carefully and in full so that you, as the owner, understand the conditions under which the consent has been issued.

Owner responsibilities

The owner is responsible for ensuring:

- building work starts within 12 months of the approval of the building consent and that work progresses at a reasonable pace.
- written notice of every licensed building practitioner undertaking restricted building work is provided to Council before that work commences, and any changes are advised in writing
- the approved building consent documents are kept on site during construction and available for the District inspector at inspections

- all required inspections are completed and that a Code Compliance Certificate is obtained once the work has been completed. The list of supporting documentation required before issue of the Code Compliance Certificate and information on filling out the application form for code compliance certificate is attached. Failure to obtain a final inspection and a code compliance certificate may affect your insurance cover and could affect future re-sale of your property.
- a Corridor Access Request is made and a Works Access permit is obtained before undertaking work in the legal road/road reserve, including installing a vehicle access crossing from the public road into your property. The process to be followed and the forms can be found on the Council website under Council Services/Roads or Council Services/Frequently asked questions/Access & Transport.
- before any excavations are undertaken a "Before U Dig" inquiry is made to check for locations of any underground services.
- no work with noisy equipment is to be carried out before 7.30 a.m. or after 6 p.m. Monday to Saturday. During the week there may be workers on site from 6.30 a.m. quietly preparing for work. Work with noisy equipment is not permitted on Sundays and public holidays.
- all loose materials that are capable of being carried by the wind are either secured or removed from the site. All activities must be carried out in a manner that keeps to a minimum the dust nuisance to adjacent properties.
- no damage occurs to public property, for example footpaths, water meters or retaining structures. Should damage occur you will be required to pay for any repairs.
- obtaining an amendment to the building consent for any changes to the approved building consent, prior to that work being undertaken.
- meeting the requirements of any easements, consent notices, covenants, and like listings registered on the title.
- the development contributions invoiced, if any, must be paid before a code compliance certificate can be issued.
- all maintenance recommended by the manufacturers is carried out at the required intervals.

General requirements

Note: Your attention is drawn to the notes contained in the 'Addendum to the Consent' and guidance documents referred to.

The following information is relevant to this building consent:

1. The Building Inspector is to be given 24 hours' notice before carrying out the inspections on the attached list. To arrange for inspections by the District Inspector, please contact the building inspectorate on 04 296 4700 between the hours of 8.00am and 4.30pm.
2. You are responsible for the safety of visitors to the work site including those undertaking building inspections. You must provide safe access to parts of the construction necessary for inspection. Ladder access must be securely founded and tied. Scaffold access and roof edge protection is generally required.

3. If required inspections, including those by designers of specifically designed elements, are not undertaken you may experience difficulty in obtaining a Code Compliance Certificate for the project. We suggest that at the time of the first inspection you discuss the inspection requirements with the inspecting officer.
4. This building consent will lapse and be of no effect if the building work concerned has not been commenced within 12 calendar months after the date of issue, or within such further period as the territorial authority allows.
5. The contractor is to leave the site clear of all demolition materials and in a tidy state.
6. Easements, consent notices, covenants, and like listings registered on the title are the responsibility of the applicant.
7. Note and comply with endorsements on approved plans.

Please note that the design work and restricted building work must be supervised or carried out by a licensed building practitioner who is licensed to carry out or supervise that kind of building work.

You or your agent will need to provide their details to the Council in writing prior to commencement of the building work. If after the restricted building work commences the named licensed building practitioner(s) ceases to be engaged to carry out or supervise the restricted building work under the building consent, this must also be advised in writing as must also the details of any other licensed building practitioner(s) subsequently engaged to carry out or supervise the restricted building work (Section 87 of the Building Act 2004). A form "Advice of licensed building practitioner(s)" is enclosed for you to use to advise the Council of licensed building practitioner details.

Please also note that it is an offence to engage another person to carry out or supervise restricted building work who is not a licensed building practitioner (Section 86 of the Building Act 2004).

Other reference material

- Guide for completing an application for code compliance,
<https://www.kapiticoast.govt.nz/your-council/planning/building/code-compliance-certificate/>
- A guide to the inspection process
<https://www.kapiticoast.govt.nz/your-council/planning/building/building-services-inspections/>

If you have any questions regarding your building consent or your responsibilities, please contact Kapiti Coast District Council on 04 296 4700 or toll free on 0800 486 486.

Building Consent

[Form 5, Building (Forms) Regulations 2004]

210691

Section 51, Building Act 2004

The building

Street address of building: 198-200 Maungakotukutuku Road, Paraparau

Legal description of land where building is located: LOT 20 DP 33688

Valuation number: 1540004600

Building name: N/A

Location of building within site/ block number: Approx 22m from southern boundary, 210m frm Rd

Level/unit number:

The owner

Name of owner: Pete Saunders

Contact person: As above

Mailing address: 200 Maungakotukutuku Rd, Paraparaumu 5032

Street address/registered office: N/A

Phone numbers:

Landline: - *Mobile:* 021 242 0309

After hours: - *Fax number:* -

Email address: pjsaunders@live.com

Website: -

First point of contact for communications with the council/building consent authority:

Full Name: Totalspan Wellington - Horowhenua

Mailing Address: PO Box 15082, Otaki 5542

Phones: 027 443 0648: 04 297 0033

Email: wellington@totalspan.co.nz

Building work

The following building work is authorised by this building consent:

New Totalspan steel portal framed and steel clad garage 11.7m x 10.0m with toilets.

Outbuilding

This building consent is issued under section 51 of the Building Act 2004. This building consent does not relieve the owner of the building (or proposed building) of any duty or responsibility under any other Act relating to or affecting the building (or proposed building). This building consent also does not permit the construction, alteration, demolition, or removal of the building (or proposed building) if that construction, alteration, demolition, or removal would be in breach of any other Act.

Conditions of building consent

This building consent is subject to the following conditions:

1. Refer to the list of inspections required. Under section 90 of the Building Act 2004 agents authorised by the Council (acting as a Building Consent Authority) are entitled, at all times during normal working hours or while building work is being done, to inspect—
 - a. land on which building work is being or is proposed to be carried out; and
 - b. building work that has been or is being carried out on or off that building site; and
 - c. any building.
2. A certifying plumber/drainlayer is to complete the attached producer statement forms and return to Council. Also provide a neat 'as built' drainage plan showing sewer, stormwater and water.
3. Ground bearing must be reconfirmed on site following excavation but prior to placing of concrete and reinforcing.

Compliance schedule

A compliance schedule is not required for the building.

Attachments

Copies of the following documents are attached to this building consent:

- List of required inspections and supporting documentation required
- Building Consent Addendum
- Plans and specifications

Note: The cover letter and all attachments to this building consent should be read fully to ensure you understand all conditions of this consent.


Signature


Position

On behalf of: KAPITI COAST DISTRICT COUNCIL

Date: 17/09/21

Relevant Information

Issued in accordance with Building Consent No. 210691

1. Both hot and cold water pipes are to be tested to 1500kPa pressure.
2. This approval is for a non-habitable building.
3. Plan notes take precedence over general specifications.

Building Consent Addendum to 210691

Application	Building Consent No. 210691
Totalspan Wellington - Horowhenua	
PO Box 15082	
Otaki 5542	

Project	
Description:	Domestic only - garages
	Being Stage 1 of an intended 1 Stages
	New Totalspan steel portal framed and steel clad garage 11.7m x 10.0m with toilets.
Intended Life:	Indefinite, but not less than 50 years
Intended Use:	Outbuilding
Estimated Value:	\$97,800
Location:	198-200 Maungakotukutuku Road, Paraparau
Legal Description:	LOT 20 DP 33688
Valuation No:	1540004600

Contractor: Mr John McCurran - Calibre Consulting PO Box 111119,
Auckland 1542 : 09 525 9770

Specific requirements

There are no specific requirements for this consent.

KAPITI COAST DISTRICT COUNCIL**Consent No: 210691****Building Category: R1****Site Address: 198-200 Maungakotukutuku Road, Paraparau****Owner/Agent: Totalspan Wellington - Horowhenua**

Inspections

The following inspections are required:

- 1 Pre-Slab Building
- 1 Pre-Slab Plumbing
- 1 Drainage
- 1 Preline Building
- 1 Postline / Wet area Pre Application
- 1 Preline Plumbing
- 1 Final Inspection
- 7 Total Inspections

Documentation

The following documentation is required:

- 1 Application for CCC
- 1 Electrical safety certificate - Electrician
- 1 Electrical safety certificate - Inspector
- 1 Gas safety certificate
- 1 As-built drainage plan
- 1 Drainage (Form 126) for stormwater & private Sewer installation
- 1 Plumbing (Form 125) for pressure test and installation piped services

Building Practitioners

- 1 Designer 1
- 1 Plumber
- 1 Drainlayer
- 1 Gasfitter
- 1 Electrician



LOCATION PLAN

SCALE 1:7500

LEGAL DESCRIPTION	
Lot:	20
DP:	33688
CT:	WN10C/653
Valuation #:	1540004600
Area:	21.42 hectares
Zoning:	RURAL
Wind Zone:	49.9 m/s

SITE COVERAGE			
Total Site Area:	214200	m ²	
Existing buildings:	310	m ²	0.15%
Proposed New buildings:	117.64	m ²	0.05%
TOTAL COVERAGE:	427.64	m²	0.20%

IMPORTANT NOTE:

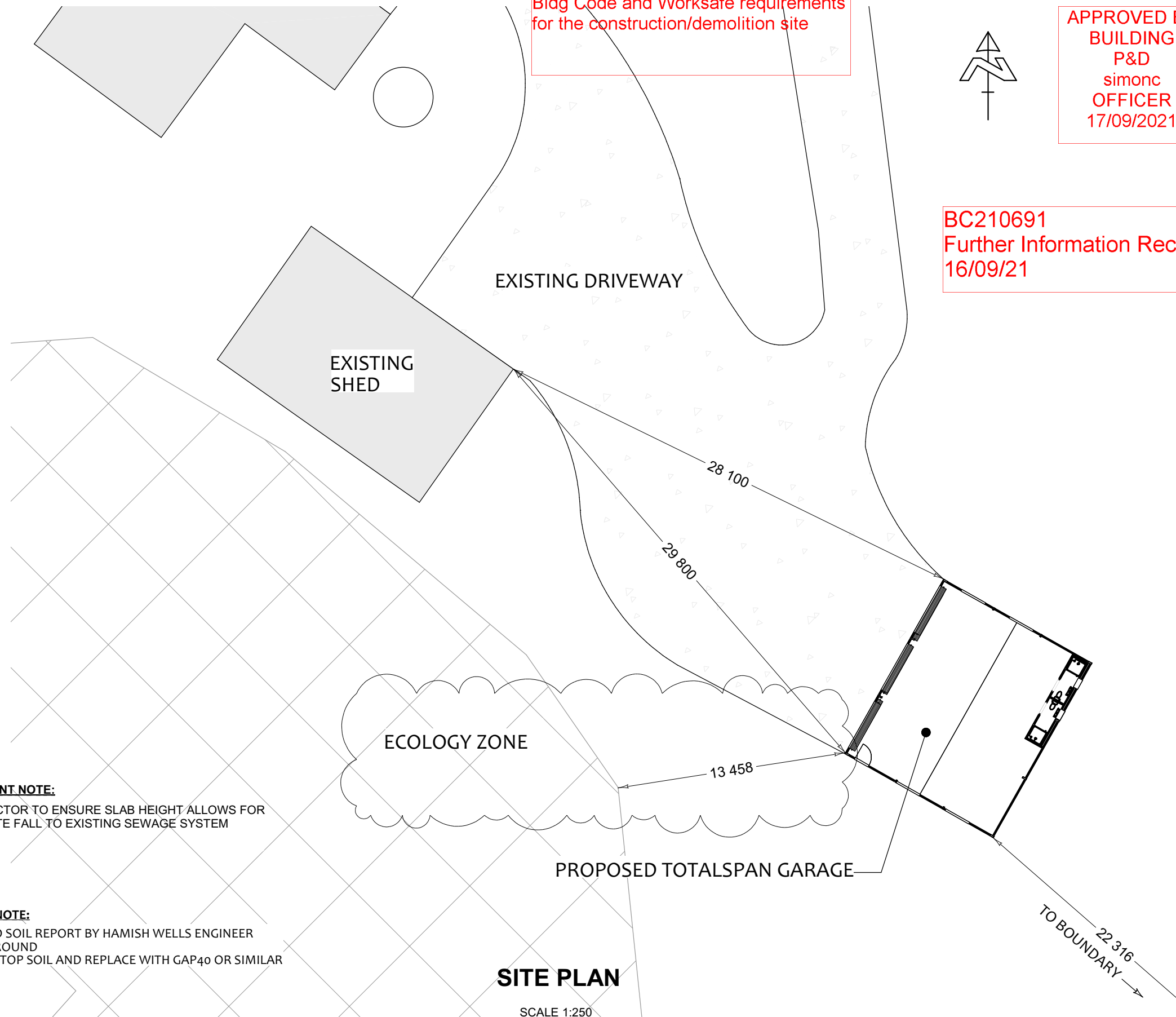
CONTRACTOR TO ENSURE SLAB HEIGHT ALLOWS FOR ADEQUATE FALL TO EXISTING SEWAGE SYSTEM

GROUND NOTE:

- REFER TO SOIL REPORT BY HAMISH WELLS ENGINEER
- GOOD GROUND
- REMOVE TOP SOIL AND REPLACE WITH GAP40 OR SIMILAR

SITE PLAN

SCALE 1:250



Provide barriers and signage sufficient to comply with F5 of NZ Bldg Code and Worksafe requirements for the construction/demolition site



APPROVED BY
BUILDING
P&D
simonc
OFFICER
17/09/2021

BC210691
Further Information Received
16/09/21



Drawing Prepared By:

Totalspan Wellington-Horowhenua
Unit 1, 27 Riverbank Rd
Otaki
email: wellington@totalspan.co.nz Ph: (04)297 0033

Proposed Building For:

Mr Pete Saunders

Site Address:

200 Maungakotukutuku Road
Paraparaumu
Kapiti

Sheet Contents:

SITE PLAN

Date: 16/09/2021

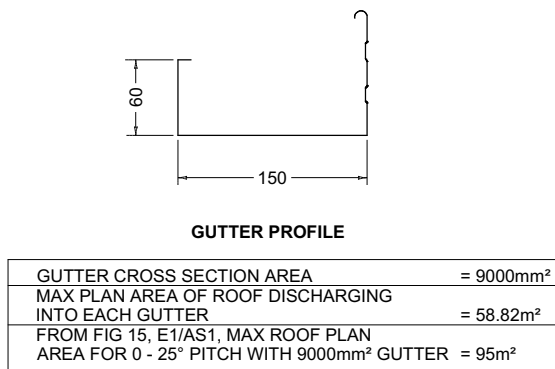
Revision: 1

Scale: A3

Sheet #

1

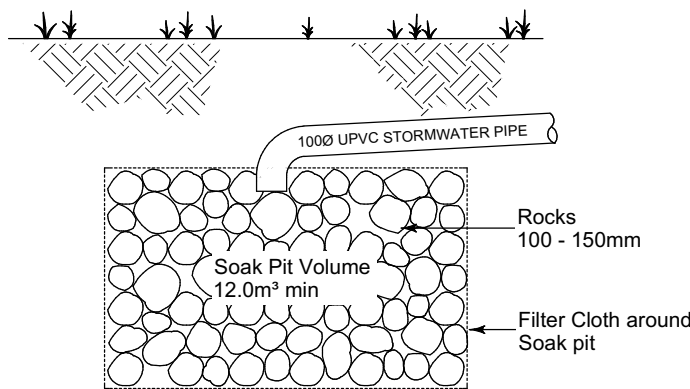
BC210691
Further Information Received
16/09/21



- STORM WATER DRAINAGE NOTES:**
- ALL DRAINAGE IS DIAGRAMATIC ONLY AND MUST COMPLY WITH BEST TRADE PRACTICES.
 - ALL WORK TO BE INSPECTED BEFORE BACKFILLING.
 - AS BUILT PLAN REQUIRED FROM REGISTERED DRAIN LAYER UPON COMPLETION OF DRAINAGE.
 - ALL PLUMBING AND DRAINAGE SHALL COMPLY WITH NZBC OR AS/NZS 3500.2:2018 AND LOCAL AUTHORITY.
 - ALL STORM WATER DRAINAGE WORK TO COMPLY WITH NZBC E1/AS1 OR AS/NZS 3500.3:2018
 - LAY IN TRENCH TO 1:60 MAX FALL ON APPROVED BEDDING.
 - 100mm UPVC SEWER PIPES WITH A MINIMUM DISTANCE TO INVERT LEVEL OF 600mm BELOW GROUND LEVEL.
 - INSTALL INSPECTION BENDS AT CHANGES OF DIRECTION.
 - POSITION GULLY TRAP WHERE INDICATED.
 - INSTALL THE APPROPRIATE TRAP ON HAND BASIN TO MATCH THE DIAMETER OF DISCHARGE PIPE AND CONNECT BELOW GRATE LEVEL ON THE GULLY TRAP.
 - INSTALL 80Ø TERMINAL VENT TO DRAINAGE SYSTEM IN THE POSITION INDICATED. PIPE TO EXISTING SEWER SYSTEM.
 - SECURELY FIX 80Ø TO STRUCTURE WITH PROPRIETARY BRACKETS AT 1200mm CENTERS VERTICALLY (MAX).
 - CONNECT DOWN PIPES. LAY 100mm UPVC STORM WATER PIPES IN 1:60 GRADED TRENCHES ON APPROVED BEDDING AND CONNECT EACH DOWN PIPE AT BASE WITH 95° ONE PIECE BEND AND NEOPRENE COLLAR.
 - TERMINATE PIPE WORK AT EXISTING WATER TANK.
 - ENSURE ALL DRAINAGE WORK IS PROPERLY TESTED AND INSPECTED PRIOR TO BACKFILLING AND COMPACTION OF TRENCHES.
 - WASTE PIPE FROM HAND BASIN TO BE 65mmØ UPVC.
 - WASTE PIPE FROM GULLY TRAP TO BE 100mmØ UPVC.
- MINIMUM GRADIENTS AS FOLLOWS:
- | | |
|------|------|
| 65Ø | 1:40 |
| 100Ø | 1:60 |

- INTERNAL PLUMBING NOTES:**
- LAG ALL WATER SUPPLY PIPES THAT ARE OUTSIDE THE THERMAL ENVELOPE
 - UV WATER FILTER TO BE FITTED TO WATER SUPPLY
 - ALL PLUMBING AND DRAINAGE SHALL COMPLY WITH NZBC OR NZS 3500.2:2018 AND LOCAL AUTHORITY.
 - WATER SUPPLY TO COMPLY WITH NZBC G12/AS1
 - WASTE PIPE FROM HAND BASIN TO BE 65mmØ UPVC.
- MINIMUM GRADIENTS AS FOLLOWS:
- | | |
|-----|------|
| 40Ø | 1:40 |
| 65Ø | 1:40 |

- FOUL WATER NOTES:**
- ALL DRAINAGE IS DIAGRAMATIC ONLY AND MUST COMPLY WITH BEST TRADE PRACTICES.
 - ALL PLUMBING AND DRAINAGE SHALL COMPLY WITH NZBC OR NZS 3500.2:2018 AND LOCAL AUTHORITY.
 - ALL DRAINAGE TO BE INSPECTED BEFORE BACKFILLING.
 - FOUL WATER DRAINAGE TO COMPLY WITH NZBC G13/AS1
 - WASTE PIPE FROM HAND BASIN TO BE 65mmØ UPVC.
- MINIMUM GRADIENTS AS FOLLOWS:
- | | |
|------|------|
| 40Ø | 1:40 |
| 65Ø | 1:40 |
| 100Ø | 1:60 |



SOAK PIT DETAIL

NOT TO SCALE

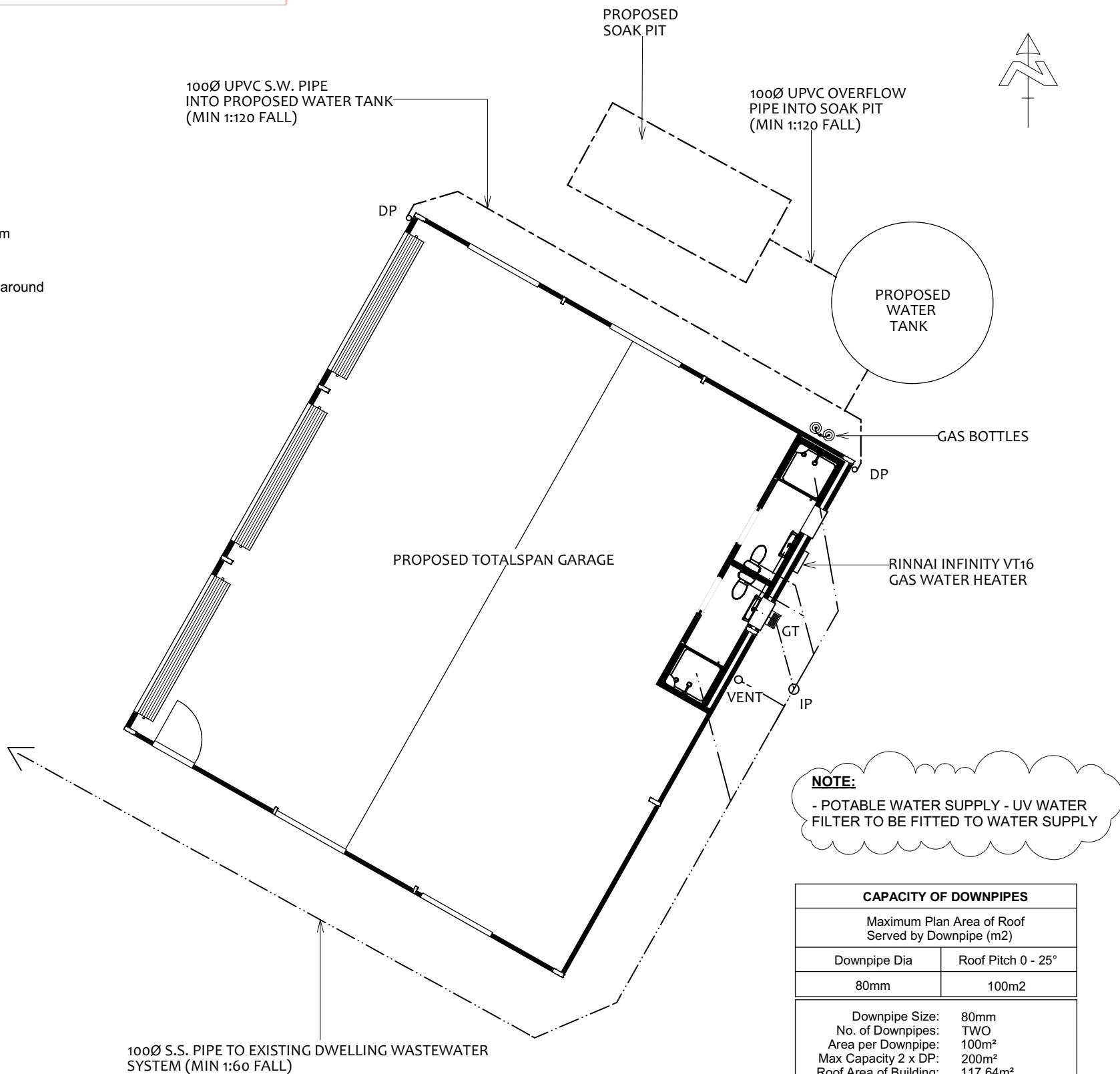
SOAK PIT SIZE

9.5	Soak pit base (m ²)
4.5	Length (m)
2.1	Width (m)
1.3	Height (m)
12.00	Soak pit Volume (m ³)

STORMWATER SOAK PIT CALCULATION		
NZBC E1/VM1		
1. Enter the soakage rate of the ground over 5 minute duration period		
25	enter the average water level drop in mm over 5 minute period	
300	soakage rate in mm/hr	SR
2. Assess the storm water catchment area		
117.6	enter the surface catchment area	
70	enter the local rainfall intensity NIWA High Intensity Rainfall System V4	
0.90	enter run off coefficient (Table 1 E1/VM1)	
7.41	Run off discharged from catchment to soak pit in 1hr (m ³)	RC
3. Determine base area of the soak pit		
9.5	enter base area m ²	Asp
4. Calculate soakage allowance into the bottom of the hole		
2.85	soakage allowance for the base of the soak hole	Vsoak
5. Volume of chamber type soak pit required		
4.56		Vstore
6. Volume required for rock filled soak hole		
12.00		Vstore

PROPOSED WATER TANK

- PROMAX 25000Ltr
- REFER TO PROMAX INSTALLATION GUIDE



DRAINAGE PLAN

SCALE 1:100

NOTE:
- POTABLE WATER SUPPLY - UV WATER FILTER TO BE FITTED TO WATER SUPPLY

CAPACITY OF DOWNPIPES	
Maximum Plan Area of Roof Served by Downpipe (m2)	
Downpipe Dia	Roof Pitch 0 - 25°
80mm	100m2
Downpipe Size:	80mm
No. of Downpipes:	TWO
Area per Downpipe:	100m ²
Max Capacity 2 x DP:	200m ²
Roof Area of Building:	117.64m ²
New building stormwater disposal into proposed water tank with overflow to soak pit	
Drain Spec	100mm UPVC
Maximum Gradient of drain	1 : 120



Drawing Prepared By:
Totalspan Wellington-Horowhenua
Unit 1, 27 Riverbank Rd
Otaki
email: wellington@totalspan.co.nz Ph: (04)297 0033

Proposed Building For:
Mr Pete Saunders

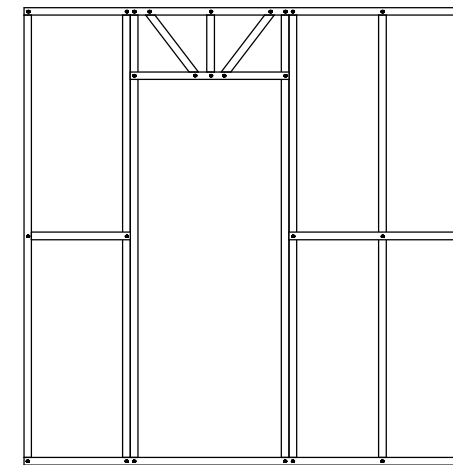
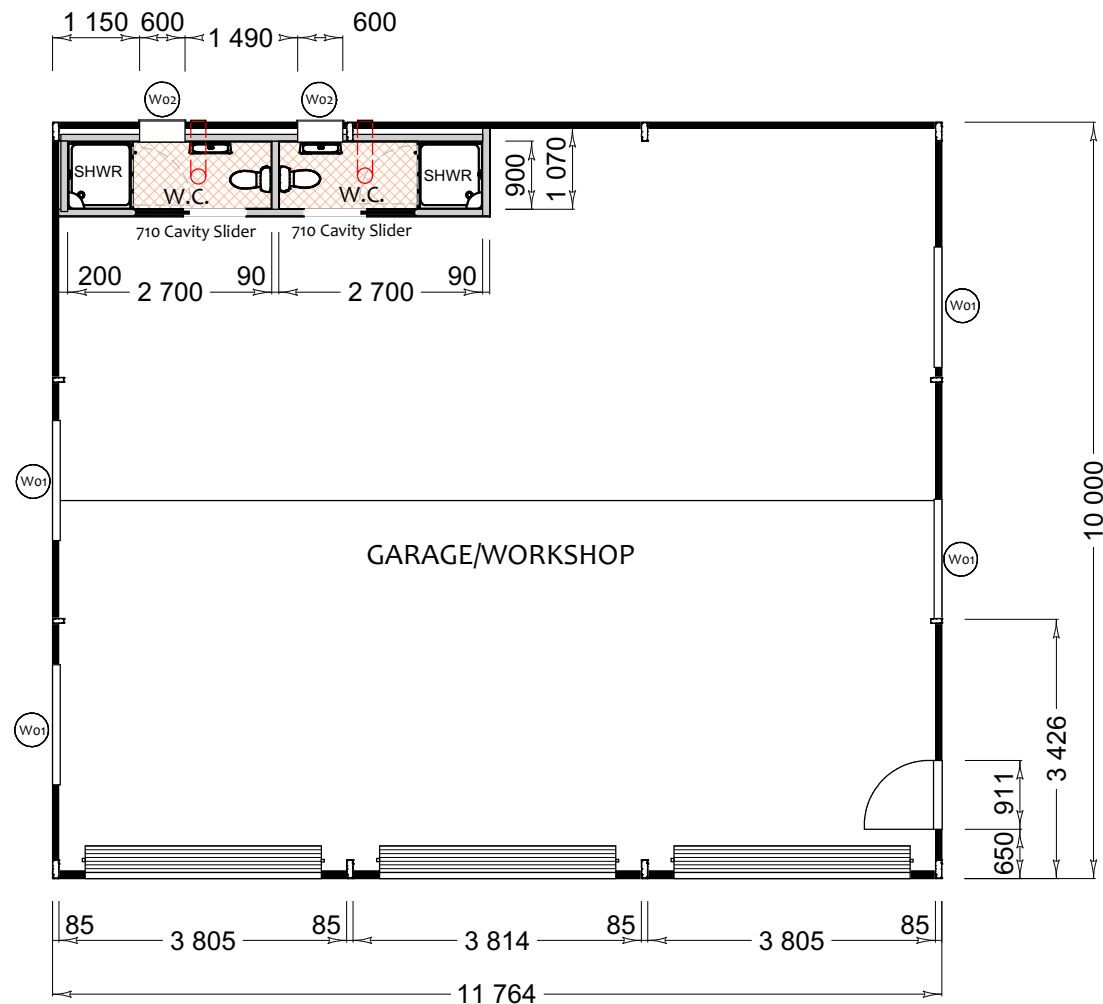
Site Address:
200 Maungakotukutuku Road
Paraparaumu
Kapiti

Sheet Contents:
DRAINAGE PLAN

Date: **16/09/2021**
Revision: **1**
Scale: **A3**

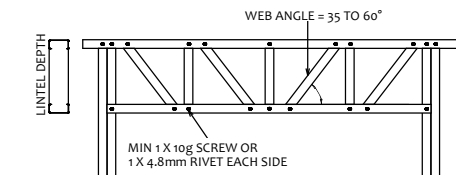
Sheet #
2

BC210691
Further Information Received
16/09/21



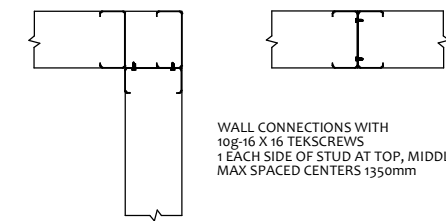
AS PER NASH STANDARD PART 2:2019
EXTERNAL & INTERNAL FRAMING FOR LOAD BEARING WALLS:
89LC75 STUD (SC), 89LC75 PLATE (PC)
ALL CONNECTIONS:
10 - 16 X 16 NEEDLE POINT SCREWS IN PRE-PUNCHED HOLES

TYPICAL AXXIS WALL FRAMING



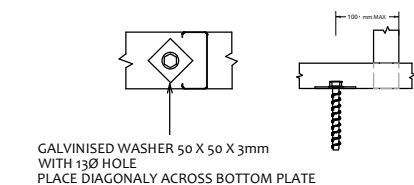
TYPE-A LINTELS

LINTEL



WALL CONNECTIONS WITH
10g-16 X 16 TEKSCREWS
1 EACH SIDE OF STUD AT TOP, MIDDLE AND BOTTOM
MAX SPACED CENTERS 1350mm

FRAMING CONNECTIONS



OPENINGS AND 1200mm CENTERS IN CONCRETE FLOOR

HOLD DOWN

KEY/SPECIFICATIONS

- VINYL FLOORING (BY OTHERS) TO NZBC D1/AS1
- AXXIS STEEL FRAMING BY LGSC TO 2.4m HIGH WITH AXXIS STEEL CEILING PANELS OVER
- PLYWOOD LINED WALLS AND CEILING IN W.C. TO BE SEALED AND 2 X TOPCOATS OF SEMI GLOSS OR GLOSS PAINT TO PREVENT MOISTURE INTAKE
- THERMAL BREAK STRIPS TO ALL WALLS AND ROOF
- DRI-STUD WALL WRAP TO ALL WALLS
- DRI-STUD FRU36 ROOF UNDERLAY
- CEILING FAN EXTRACTED THROUGH WALL (MUST BE GREATER THAN 25 l/s)
- NOTE: SHOWER DOORS TO BE SAFETY GLAZED TO AS/NZS 2208

ALUMINIUM JOINERY SCHEDULE

ITEM	HEIGHT	WIDTH	GLAZING	QTY
W01	944	1264	SG CLEAR	4
W02	600	600	SG OBSCURE SAFETY GLASS TO NZS 4223.3:2016	2

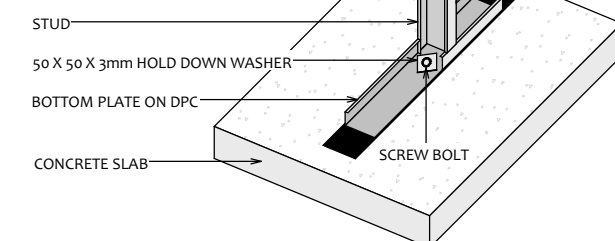
WINDOW VENTILATION:

- WC FLOOR AREA = 2.43m²
- 5% WC FLOOR AREA = 0.12m²
- WINDOW OPENING AREA = 0.36m²

EXTERNAL WALLS
- M12 X 100 CONCRETE SCREW BOLT WITH 50 X 50 X 3mm WASHER
- MIN UPLIFT CAPACITY 8kN

INTERNAL WALLS
- SHOT FIRED PINS @ 1.2m CENTERS

ALL FIXINGS
- MAX 1.2m CENTRES
- EACH SIDE OF OPENINGS
- ALWAYS WITHIN 100mm OF A STUD



STANDARD HOLD DOWN

Drawing Prepared By:

Totalspan Wellington-Horowhenua
Unit 1, 27 Riverbank Rd
Otaki
email: wellington@totalspan.co.nz Ph: (04)297 0033

Proposed Building For:

Mr Pete Saunders

Site Address:

200 Maungakotukutuku Road
Paraparaumu
Kapiti

Sheet Contents:

FLOOR PLAN

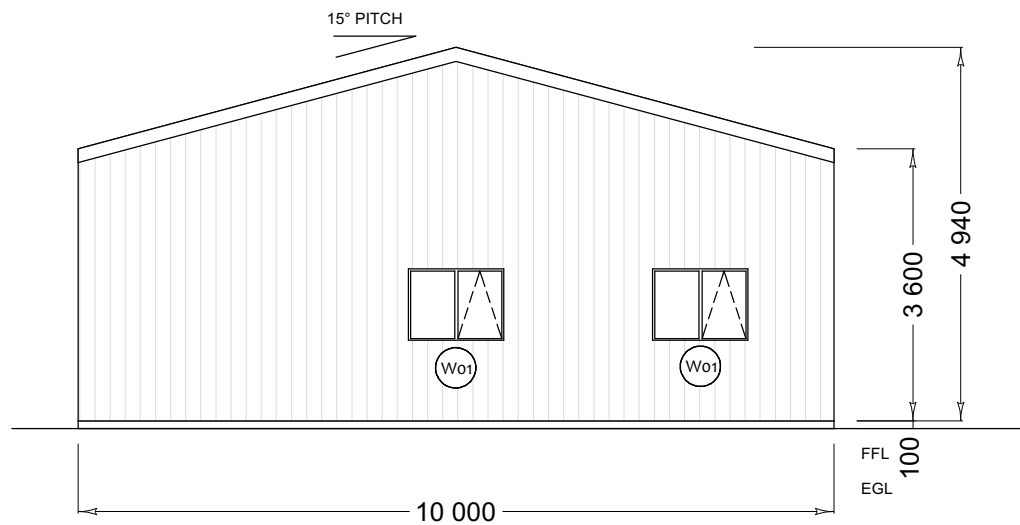
Date: 16/09/2021

Revision: 1

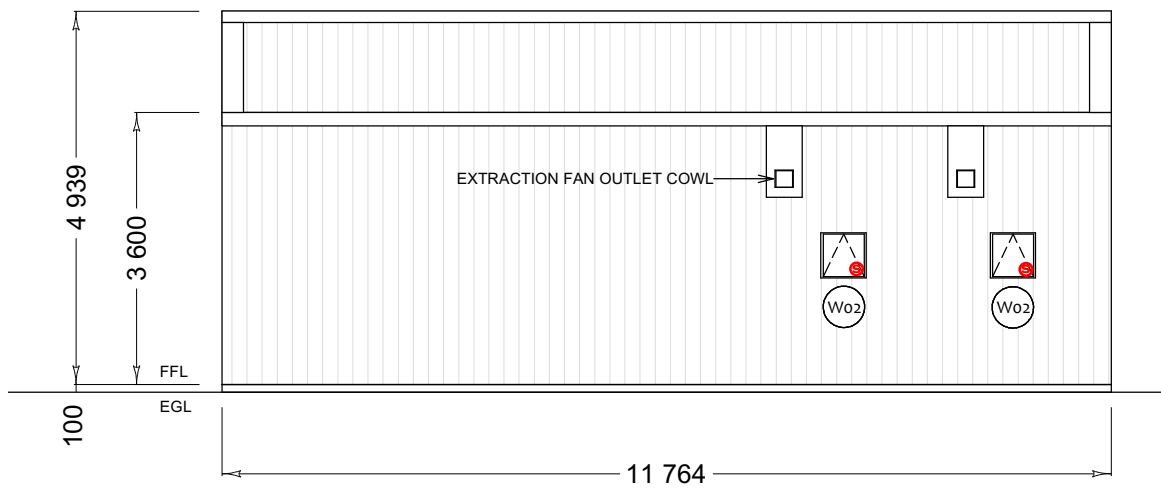
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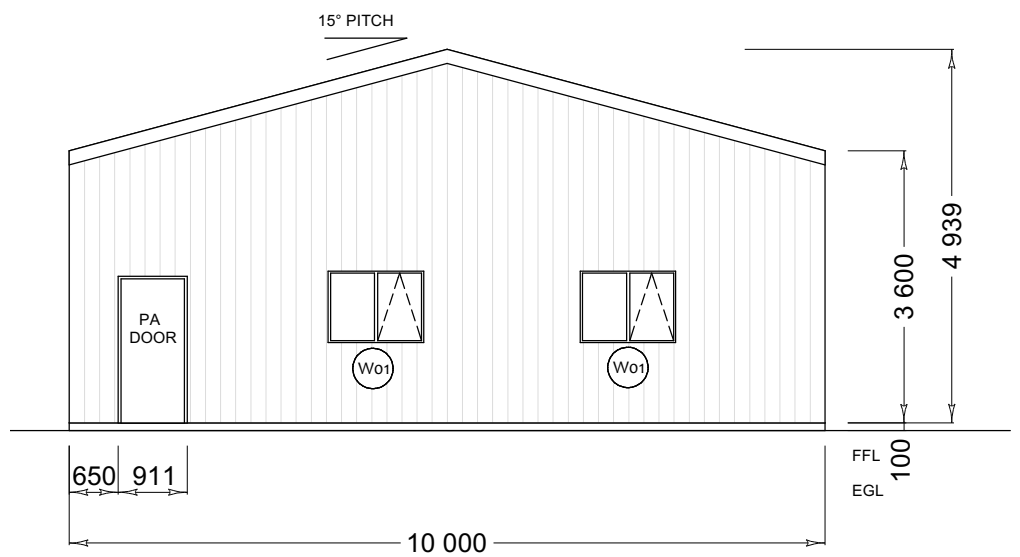
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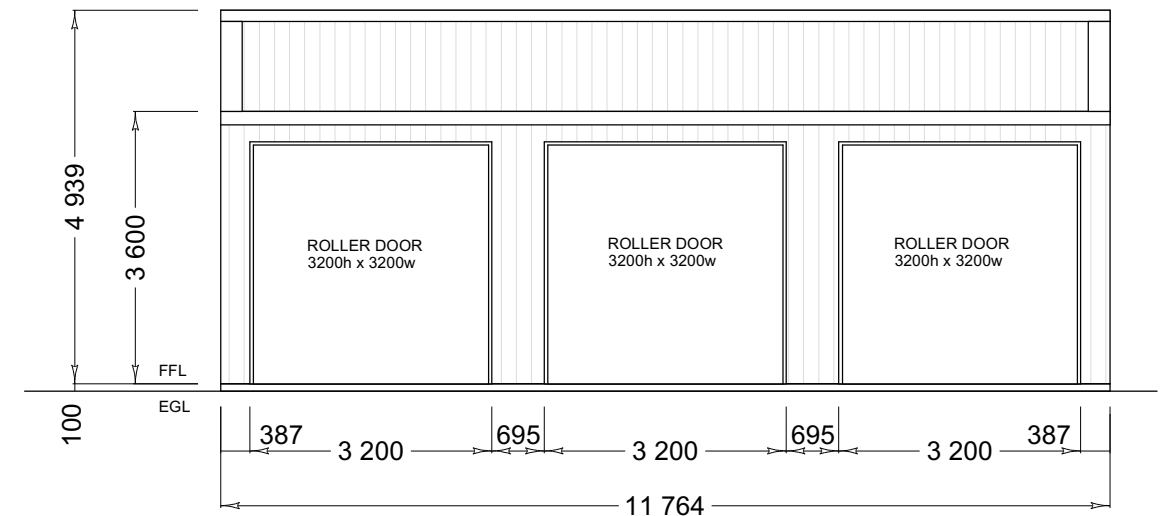
NORTH ELEVATION



EAST ELEVATION



SOUTH ELEVATION



WEST ELEVATION

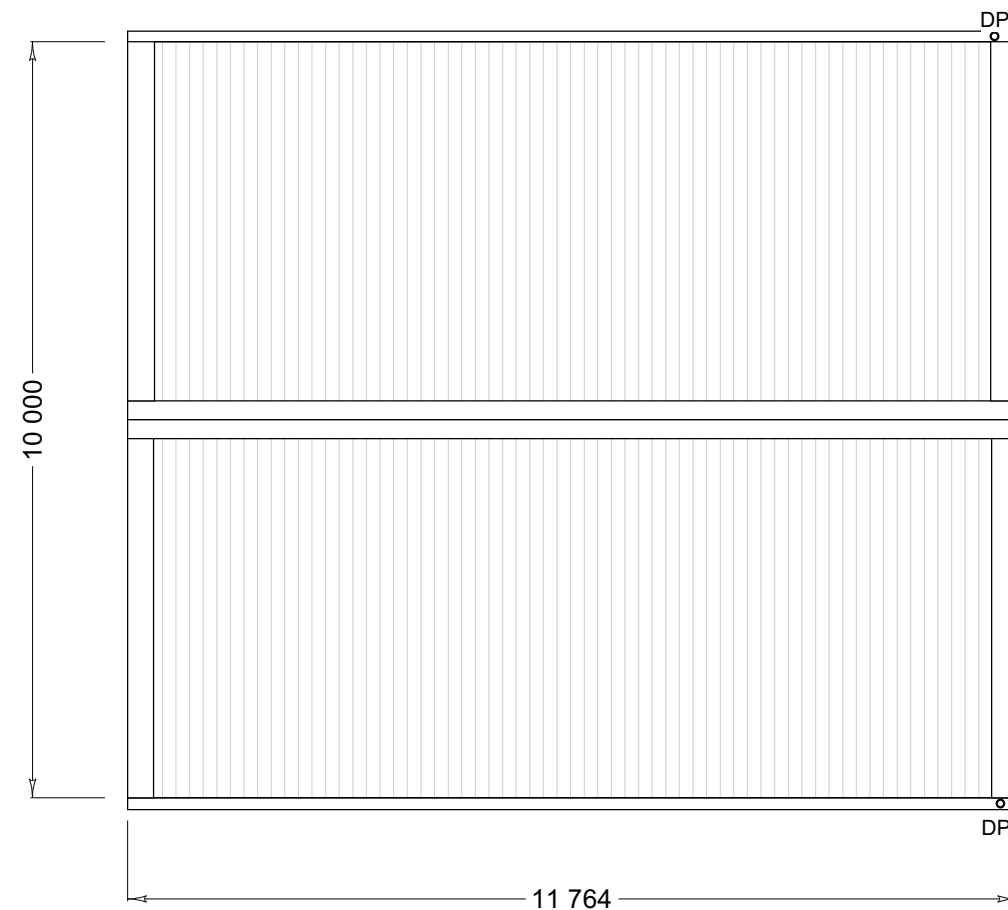
ELEVATIONS

SCALE 1:100

NOTE:
REFER TO ENGINEER PS1 PLANS FOR:
- STRUCTURAL DETAILS
- BRACING DETAILS
- CONNECTION DETAILS
- FLASHING DETAILS
- PROFILE DETAILS

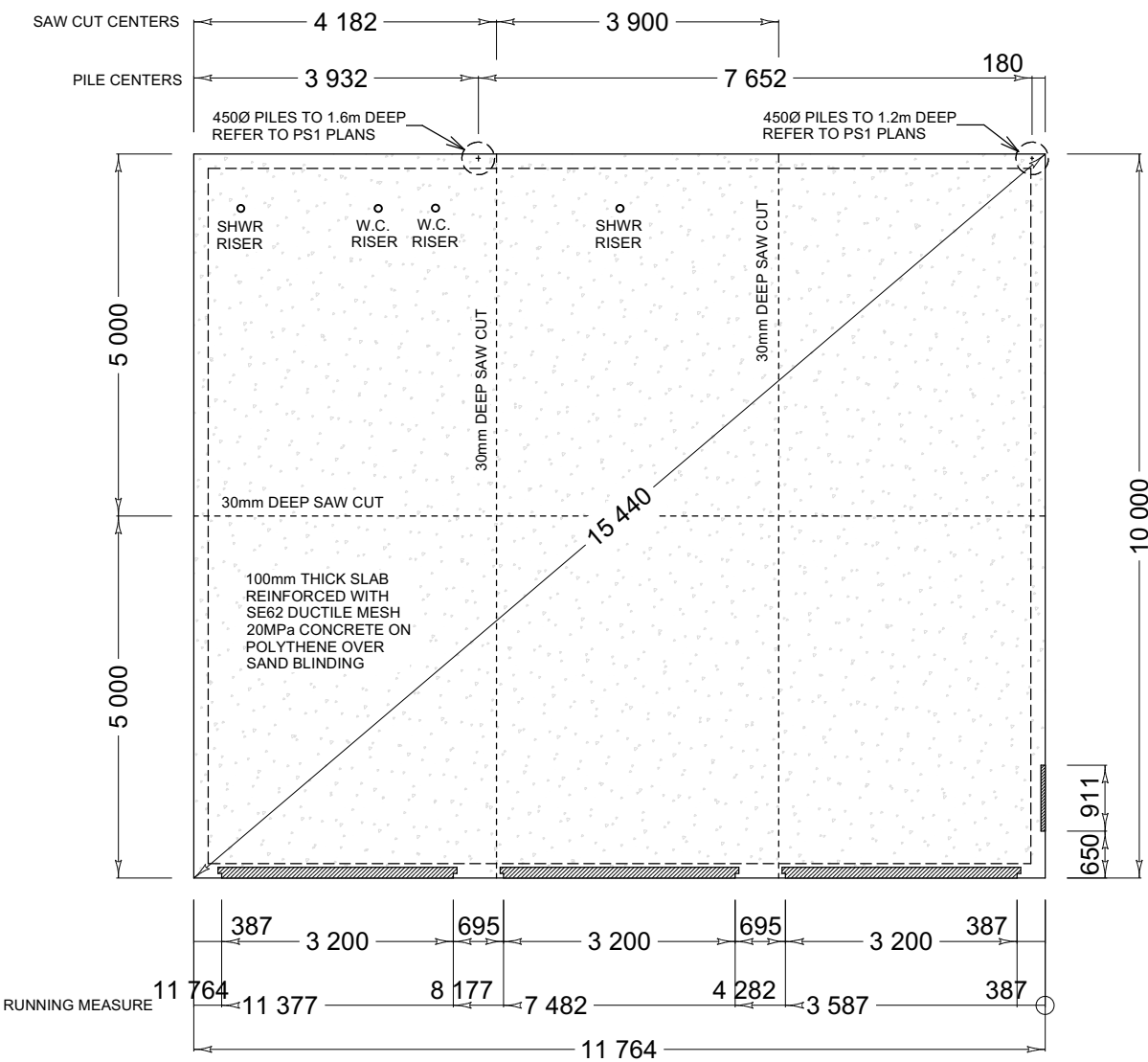
Roof and Wall Cladding Type:	NZ Colorsteel 0.40BMT
Roof and Wall Cladding Profile:	6 Rib
Roller Door:	Colorsteel - installed by Licensed installer
Window Joinery:	Aluminium - Colour coded - Single Glazed

	Drawing Prepared By: Totalspan Wellington-Horowhenua Unit 1, 27 Riverbank Rd Otaki email: wellington@totalspan.co.nz Ph: (04)297 0033	Proposed Building For: Mr Pete Saunders	Site Address: 200 Maungakotukutuku Road Paraparaumu Kapiti	Sheet Contents: ELEVATIONS	Date: 16/09/2021	Sheet # 4
					Revision: 1	
					Scale: A3	



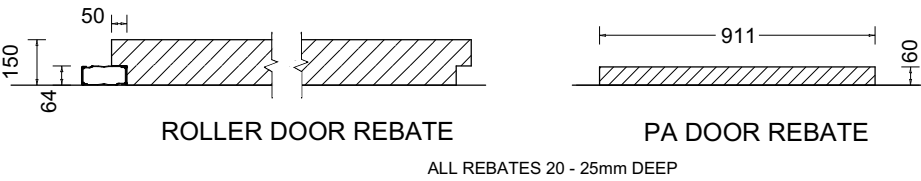
ROOF PLAN
SCALE 1:100

- ROOFING NOTES:**
- NZ COLORSTEEL ENDURA ROOF TO 15° PITCH
 - PORTAL FRAME - SEE ENGINEER PS1
 - COLORSTEEL ROLLFORMED GUTTERS
 - COLORSTEEL ROLLFORMED BARGES



SLAB PLAN
SCALE 1:100

NOTE:
REFER TO ENGINEER PS1 PLANS AND
DOCUMENTS FOR FOUNDATION DETAILS



SLAB REBATE DETAILS



Drawing Prepared By:
Totalspan Wellington-Horowhenua
Unit 1, 27 Riverbank Rd
Otaki
email: wellington@totalspan.co.nz Ph: (04)297 0033

Proposed Building For:

Mr Pete Saunders

Site Address:
200 Maungakotukutuku Road
Paraparaumu
Kapiti

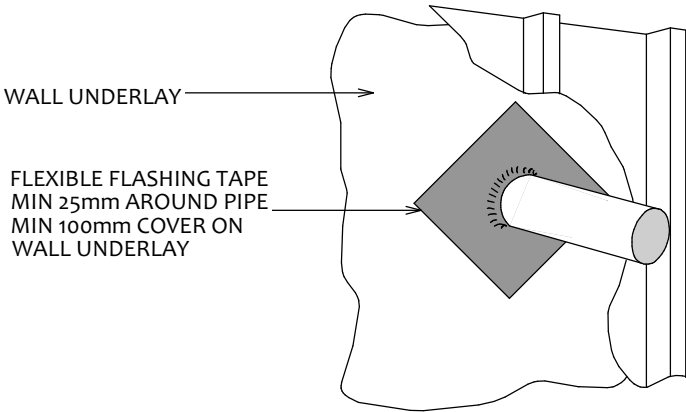
Sheet Contents:

ROOF & SLAB PLANS

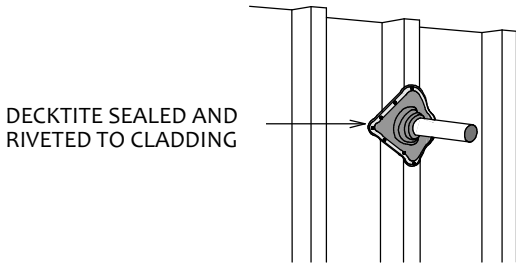
Date: 16/09/2021
Revision: 1
Scale: A3

Sheet #

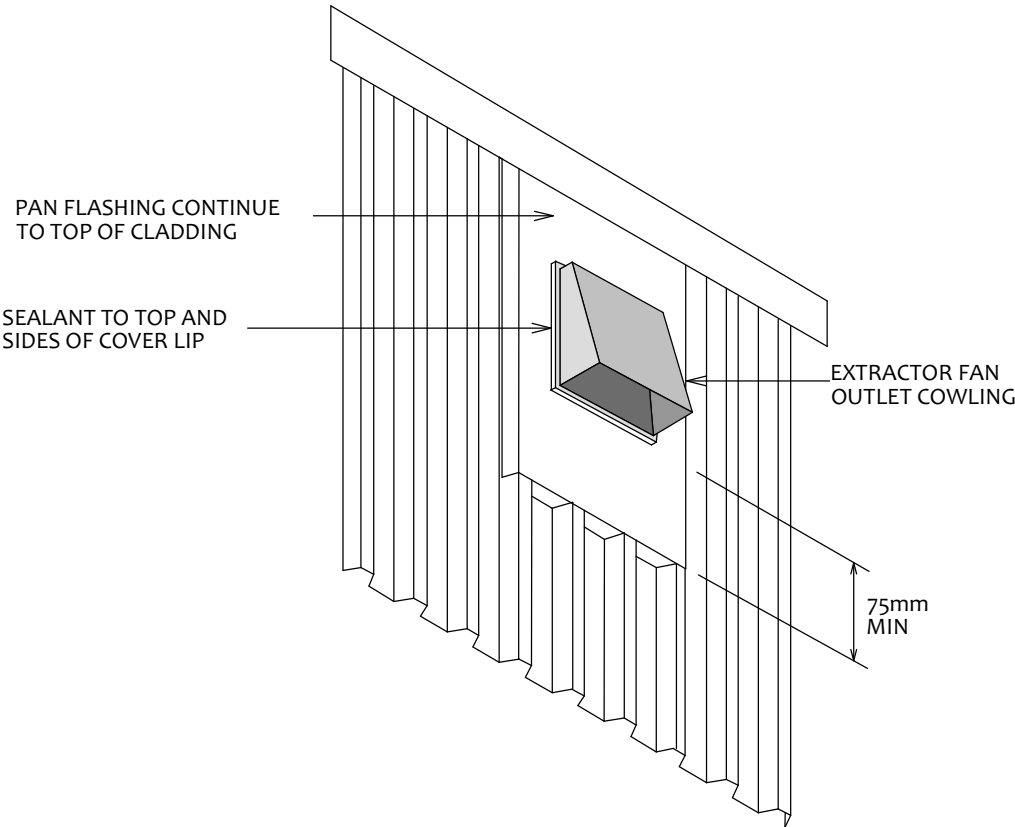
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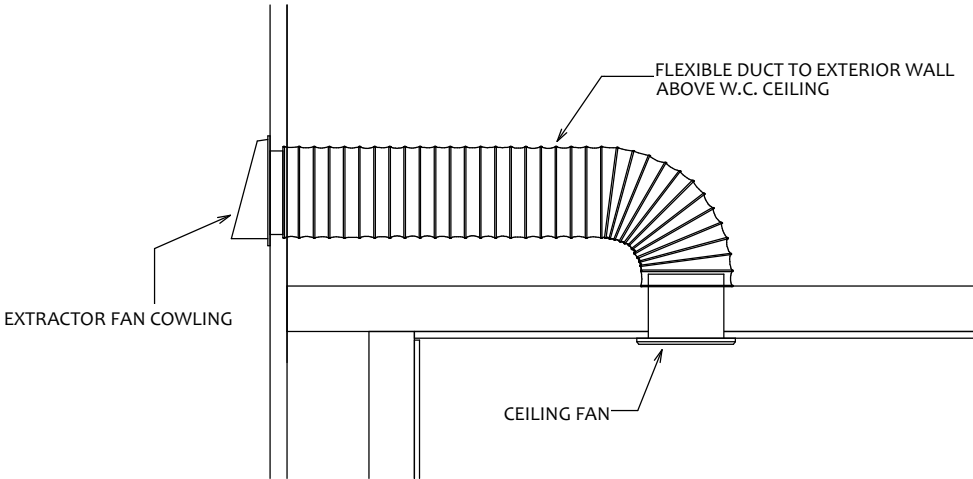
PIPE PENETRATION
THROUGH WALL UNDERLAY



PIPE PENETRATION
THROUGH CLADDING



EXTRACTION FAN CLADDING PENETRATION



EXTRACTION FAN DETAIL



Drawing Prepared By:
Totalspan Wellington-Horowhenua
Unit 1, 27 Riverbank Rd
Otaki
email: wellington@totalspan.co.nz Ph: (04)297 0033

Proposed Building For:

Mr Pete Saunders

Site Address:
200 Maungakotukutuku Road
Paraparaumu
Kapiti

Sheet Contents:

DETAILS

Date: 16/09/2021
Revision: 1
Scale: A3

Sheet #

6



STEEL BUILDINGS

WHO CAN? TOTALSPAN!

SPECIFIC DESIGN

Gable Range

**Producer Statement and Structural Details
(IL1, Non-Habitable, Unlined, Closed)**

CLIENT:

Mr Pete Saunders
200 Maungakotukutuku Road
Paraparaumu
5032

BUILDING:

TRS Project Ref: 1930563
Location: Lat: -40.9617483648476 Lng: 175.003398656845
Wind Speed: Vdes @: 49.9 m/s
Snow Loading: Sg = None
Span: 10.000m
Length: 11.764m
Knee Height: 3.600m
Bay Size: 3.932m, 3.900m, 3.932m
Roof Details: 15° pitch, 6 Rib 0.40mm
Cladding Details: 6 Rib 0.40mm
Downpipe Size: 80mm Dia PVC
Floor Type: Concrete Slab
Area: 117.640m²

NOTES :

- 1 - Contractor to confirm all dimensions on site at time of construction
- 2 - These drawings must not be reproduced without express permission from Spanbild New Zealand Limited.

INDEX:

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- 3 Durability Statement
- 4 Site Plan
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- 12 Foundation Details SD-F02
- 13 Frame Details SD-P01
- 14 Frame Details SD-P03
- 15 Major Openings SD-M01
- 16 Minor Door Openings SD-M05
- 17 Minor Window Openings SD-M06
- 18 Single Strip Brace Fixing Details SD-B02
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- 20 Double Multi Brace Fixing Details SD-B05
- 21 Flashing Details
- 22 Flashing Details SD-E02

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TOTALSPAN

A Division of Spanbild New Zealand Ltd
112 Waterloo Road, Hornby
P.O.Box 11-013, Christchurch Details



Gable Range - Design

Contents



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Building Code Clause(s) **B1**

PRODUCER STATEMENT - PS1 - DESIGN

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

ISSUED BY: **Calibre Consulting Ltd**
(Design Firm)

TO: **Totalspan Wellington**
(Owner/Developer)

TO BE SUPPLIED TO: **Kapiti Coast District Council**
(Building Consent Authority)

IN RESPECT OF: **10m span x 11.8m IL1 Non-Habitable, Unlined portal building; DL=50yrs**
(Description of Building Work)

AT: **200 Maungakotukutuku Road, Paraparaumu, 5032, New Zealand**
(Address)

LOT: DP: SO:

We have been engaged by the owner/developer referred to above to provide **Structural Design**

(Extent of Engagement)

services in respect of the requirements of Clause(s) **B1** 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 **B1/VM1, B1/VM4** 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

Gable Range and numbered **Sheets 1-2, 5-20**;
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 **good ground as per NZS3604**

(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, **John McCurran** am: ☒ CPEng **48451** # ☐ Reg Arch #
(Name of Design Professional)

I am a member of: ☒ Engineering New Zealand ☐ NZIA and hold the following qualifications **BE (civil)**

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 **John McCurran** (Signature)

ON BEHALF OF **Calibre Consulting Ltd** Date **23 June 2021**
(Design Firm)

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, ENGINEERING NEW ZEALAND AND NZIA

SPECIFICATIONS

GENERAL NOTES

1. IMPORTANT DESIGN LIMITATIONS

- 1.1. Design limitations apply to any item or alteration not specifically stated or clearly represented within the scope of these engineering specifications. This is a CAD drawing which must not be altered by manual methods, exceptions to this are:
 - 1.1.1. The documentation clearly states where "generic" items can be crossed out, or the applicable detail circled to provide clarity.
 - 1.1.2. Additional specific design has been carried out by a CPENG engineer with a PS1 supplied covering "part" design works for any amendment/alterations. Alternative/Additional drawings shall be supplied or these specifications must be clearly marked up in red pen and accompanied by the PS1 engineer's signature on each drawing altered which is covered by the additional specific design, as above.
 - 1.1.3. A letter has been supplied in writing, signed by the original engineer(s) covering "minor" amendments/alterations or clarifications to varying interpretations of the design drawings.
- 1.2. Habitable/Lined Buildings are not covered within this scope of work.

2. GENERAL

- 2.1. All work shall conform to the New Zealand Building Code
- 2.2. B2 Durability shall be covered by respective product/manufacturers durability statements

3. LOADINGS

- 3.1. Buildings are designed to AS/NZS 1170
 - 3.1.1. Refer Schedule for Windspeed, V_{des0} in m/s.
 - 3.1.2. Refer Schedule for Ground Snow Load if applicable in kPa.
 - 3.1.3. The roofing is not designed for point loads of 1.1kN, these are Surfaces (including transparent surface) over which supports (e.g., boards or ladders) are required to be laid to support actions incidental to maintenance (e.g., people).
 - 3.1.4. Earthquake loads, except for "near fault" locations due to the light-weight structure are not critical for unlined, Importance Level 1 & 2 standard structures with cladding as specified below only.
 - 3.1.5. Habitable/Lined or Importance Level 3 and greater structures require specific design engineering in addition to this specification covering the scope of works. (Importance Level 2 structures have been designed to resist "structural damage" deflections only).
 - 3.1.6. Any loads exceeding the above shall require specific design engineering in addition to this specification covering the scope of works.

4. FOUNDATIONS

- 4.1. Ground shall have a safe bearing capacity of at least **100kPa (300kPa Ultimate)**
 - 4.1.1. This is achieved by meeting "good ground", safe bearing capacity of at least 100kPa in accordance with NZS 3604

5. CONCRETE

- 5.1. Designed to NZS 3101
- 5.2. Remove vegetation and loose material from the building footprint, backfill with compacted hard-fill if required and lay sand blinding to the underside of the concrete slab. Ensure the surface of the slab will be at least 100mm above the highest level of cleared ground around the slab.
- 5.3. Concrete shall have a maximum aggregate size of 20mm and minimum 20MPa compression strength at 28 days.
- 5.4. Refer Foundation Details for further details.
- 5.5. Lesser Ductile Mesh is allowed to be used for Importance Level 1 structures only
 - 5.5.1. Refer NZS 3101 Clause 5.3.2.7 (a)

6. STEELWORK & COMPONENTS

- 6.1. All Steelwork & Components shall (where applicable) conform to:
 - 6.1.1. AS/NZS 4600 - Cold-formed steel structures
 - 6.1.2. AS/NZS 1252 - High strength steel bolts with associated nuts and ...
 - 6.1.3. AS/NZS 1365 - Tolerances for flat-rolled steel products
 - 6.1.4. AS/NZS 4505:2013 - Garage doors and other large access doors
 - 6.1.5. AS 1110 - ISO metric hexagon bolts and screws
 - 6.1.6. AS 1112 - ISO metric hexagon nuts...
 - 6.1.7. AS 1397 - Continuous hot-dip metallic coated steel sheet and strip
 - 6.1.8. AS 1580 - Paints and related materials - Methods of test
 - 6.1.9. AS 3566 - Self-drilling screws for the building and construction industries
 - 6.1.10. and ...
 - 6.1.11. IFI-114(Imperial) / IFI-505(Metric) - Break Mandrel Blind Rivets

7. CLADDING

- 7.1. Steel only. Alternative claddings (excluding glass reinforced panel), require an independent specific design certificate for the scope of work.
- 7.2. Fixing pattern as per E2/AS1 or NZ MRM - NZ Metal Roof and Wall Cladding Code of Practice.
- 7.3. Flashings shall be fixed as per manufacturers recommendations/instructions.

8. SERVICES

- 8.1. Penetrations through framing members
 - 8.1.1. Typical hole diameter(s) shall not exceed 29mm (1 1/8 inch)
 - 8.1.1.1. A single 44mm (1 3/4 inch) hole per C150, C250 or C300 section only is allowed to accommodate an up to 40mm waste water pipe
 - 8.1.2. Distance between holes along the section shall be no less than 1000mm
 - 8.1.3. Holes shall be located:
 - 8.1.3.1. Central in the web, (within the centre 1/3 of the web depth)
 - 8.1.3.2. At least 200mm from the end of a member
 - 8.1.4. Rubber grommets to be applied to un-swaged service holes
 - 8.1.5. Larger and more frequently spaced holes are allowed, however please consult with an engineer first for written approval to ensure compliance with AS/NZS 4600.

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Gable Range - Design	
Producer Statement / Specifications	

MANUFACTURERS STATEMENT - DURABILITY

Cladding

To satisfy the requirements of Clause B2: "Durability" of the NZBC and to ensure the cladding material meets a 15-year durability life and a 50 year intended working life (design life), the following provisions must apply:

Cladding Range of Product and Use

- Coating Type: Zinc/Aluminium & Painted (Coloured Steel).
- Steel thickness range: 0.35mm - 0.55mm BMT
- Steel grade range: G300 - G550
- Application: Standard Totalspan Roof and Wall Cladding
- Profile: Totalspan 7 Rib, Totalspan 6 Rib, Totalspan Corrugate

Requirements, Limitations and Exclusions

- Fixing and installation of the cladding must be done exactly in accordance with Totalspan Buildings instructions and specifications.
- Normal and regular maintenance must be carried out on the exterior surface of the cladding and the following guide must be followed to ensure the durability requirements are met.

Regular Maintenance

- Normal Maintenance to be completed in accordance with Durability - Acceptable Solution B2/AS 2.1.3
- Corrosion Zones B and C.. (*Reference NZS 3604:2011 Corrosion Zone Figure 4.2)
 - Rain-washing only required on exposed (open to airborne salts and rain wetting) material. Sheltered (open to airborne salts, but not rain washed) or protected areas such as under spouting, top-cladding sheets and tops of doors require washing every 3 months.
- Sea Spray Zone D (Includes all off-shore islands, the area within 500m of the coastline of New Zealand, and those areas shown in white - *Reference NZS 3604:2011 Figure 4.2) and areas of Geothermal Activity (*Reference NZS 3604:2011 4.2.4 (c)).
 - Rain-washing only required on exposed (open to airborne salts and rain wetting) areas. Sheltered (open to airborne salts, but not rain washed) and protected areas such as under spouting, top cladding and tops of doors require washing down every month and whenever corrosive salts are present.

Extended Maintenance, Painting or Repainting

Extended Durability

Once the metallic coating or the paint system has weathered away, signs of red rust for bare material or signs of the metallic coating for painted material, painting of the entire surface is required to extend the life of the product. Paint manufacturers recommendations are to be followed for surface preparation and paint type to be used.

Evident Corrosion

- Areas that show signs of white or red rust/corrosion (typically in unwashed areas) require cleaning back with a stiff brush and cleaner to remove all dust, surface contaminants and corrosion products and present a sound substrate for painting. Priming of the surface and application of two coats of paint as per the Paint Manufacturer's recommendations is then required.
- Particular attention needs to be paid to laps (side, end, flashing etc) where earlier corrosion may start due to moisture and dirt entrapment. If evident corrosion is not treated quickly rapid deterioration of the sheet may occur which could result in perforation. At this stage replacement of the affected sheet is the best option.

Steel Framing

To satisfy the requirements of Clause B2: "Durability" of the NZBC and to ensure the structural framing material meets a 50-year durability life the following provisions must apply:

Steel Framing Range of Product and Use

- Coating Type: Galvanised
- Steel thickness range: 0.75mm – 2.4mm BMT
- Steel grade range: G450 – G550
- Application: Standard Totalspan Purlins, Girts, Portal Frames, Door Jambs, Wall Uprights, Bridging
- Profile: C Sections – 80x40, 150x64, 220x64, 250x85
Z Sections – 100x53, 150x65
Tophat Sections – 100x163, 120x170, 150x183

Awnings/Garaports attached to Base Buildings

- Where sections are exposed to or located in salt marine, corrosive industrial or unusually high corrosive environments the below Regular Maintenance must be adhered to. Please contact the manufacturer for specialist advice if unsure of requirements. This also applies to all Steelwork that is exposed to the wind but is protected from the rain located in an open sided structure such as carports, awnings or structures closed in on one side only. Maintenance is necessary when the Galvanised coating ceases to provide sacrificial protection to the steel base, or where the appearance is no longer aesthetically acceptable. Rust staining or the growth of rust spots usually indicates the breakdown of Galvanised coating. At the first sign of breakdown, the surface should be treated with an appropriate maintenance coating system. All maintenance should be carried out in accordance with AS/NZS 2312: 2002 (Incorporating Amendment No. 1) [c] and New Zealand Steelwork Corrosion Coatings Guide (HERA Report R4-133) [d].

Regular inspections of the steel work and maintenance at the first signs of a problem will extend the durability of the sections. If any of the structure components show signs of corrosion during normal maintenance these are also easily accessible and simple to replace.

Regular Maintenance

- Normal Maintenance to be completed in accordance with Durability - Acceptable Solution B2/AS 2.1.3 Corrosion Zones B and C. (*Reference NZS 3604:2011 Corrosion Zone Figure 4.2)
 - Rain-washing only required on exposed (open to airborne salts and rain wetting) material. Sheltered (open to airborne salts, but not rain washed) or protected areas such as under spouting, top-cladding sheets and tops of doors require washing every 3 months.
- Sea Spray Zone D (Includes all off-shore islands, the area within 500m of the coastline of New Zealand, and those areas shown in white - *Reference NZS 3604:2011 Figure 4.2) and areas of Geothermal Activity (*Reference NZS 3604:2011 4.2.4 (c)).
 - Rain-washing only required on exposed (open to airborne salts and rain wetting) areas. Sheltered (open to airborne salts, but not rain washed) and protected areas such as under spouting, top cladding and tops of doors require washing down every month and whenever corrosive salts are present.

References

1. NZBC – Compliance Document – Clause B2 - Durability
2. NZS 3604, Clause 4, Durability*

* - Totalspan Buildings acknowledges and understands that NZS 3604 is a Timber Framed Building standard. Totalspan Buildings has used NZS 3604 as a reference only to identify Corrosion Zones, Sea Spray Zones and areas of Thermal activity.

Totalspan Buildings
112 Waterloo Rd
Sockburn
CHRISTCHURCH

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Gable Range	
Durability Statement	

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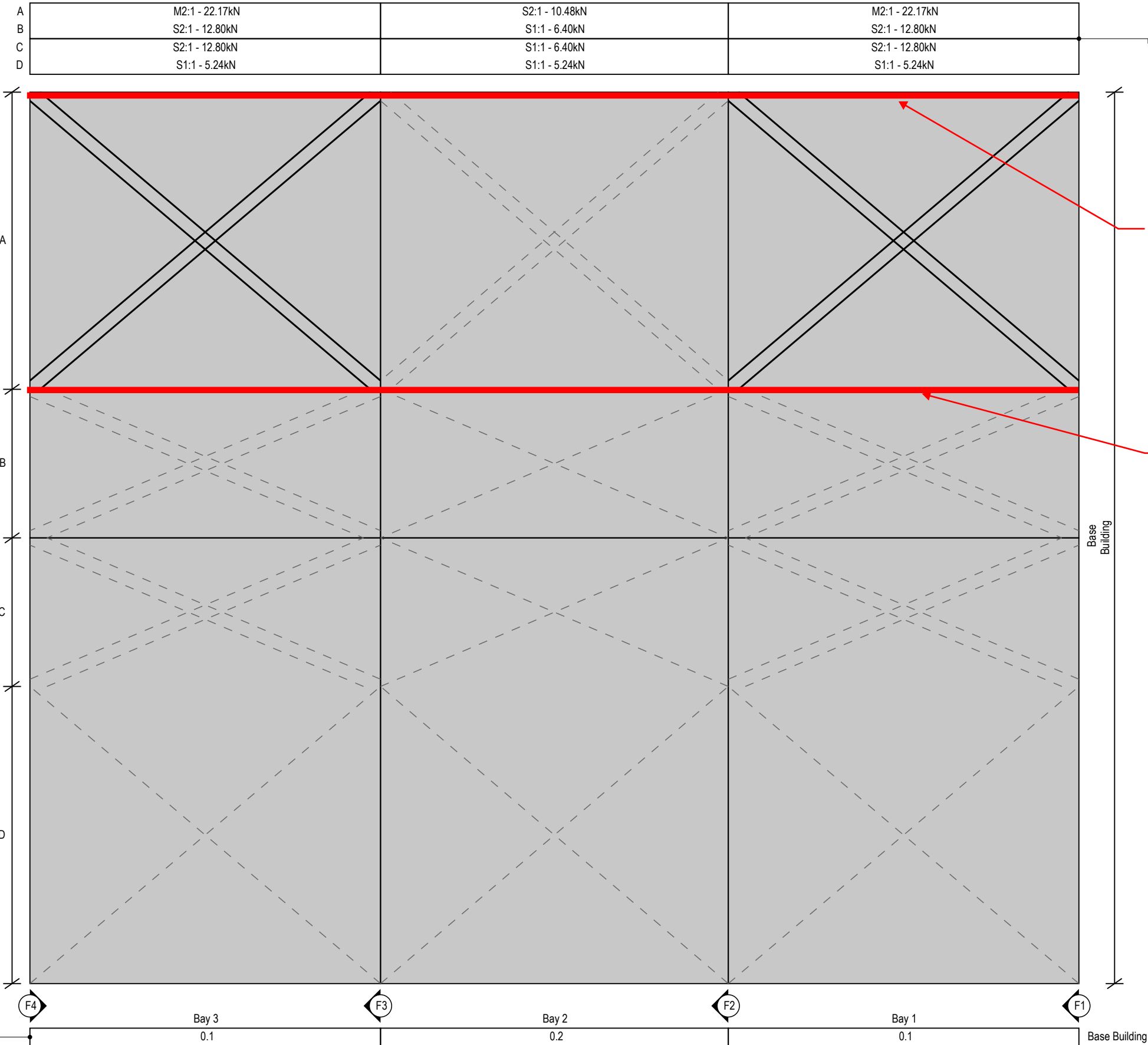
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200 Maungakotukutuku Road
Paraparaumu
5032
021 242 0309

Gable Range

Site Plan

ROOF - (BAYS 3-1)

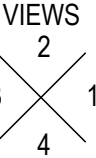


BRACING kN (Totals)		
Location	Required	Achieved
A	34.25kN	54.82 kN
B	20.1kN	32.01 kN
C	20.1kN	32.01 kN
D	6.0kN	15.73 kN

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BRACING DESIGN NOTES	
All bracing must be connected to main structural members i.e. Portal Legs, Portal Rafters, End Wall, Uprights & Main Access Door Jambs. Bracing shall not be solely connected to intermediate members such as Girts, Purlins, Minor Access Door Jambs & PA Door Jambs.	
BRACING LEGENDS	
M2:1 Mitek Multi-Brace 51x0.91mm G300, configured as a double cross	
S1:1 Mitek Strip-Brace 27x0.6mm G550, configured as a single cross.	
S2:1 Mitek Strip-Brace 27x0.6mm G550, configured as a double cross	

FRAMING SECTION TABLES	
Base Building - 0.1	
Design	Closed
Purlin (Bridge Count)	C15010(1)
Purlin Centres	0.863m
Base Building - 0.2	
Design	Closed
Purlin (Bridge Count)	C15010(1)
Purlin Centres	0.863m

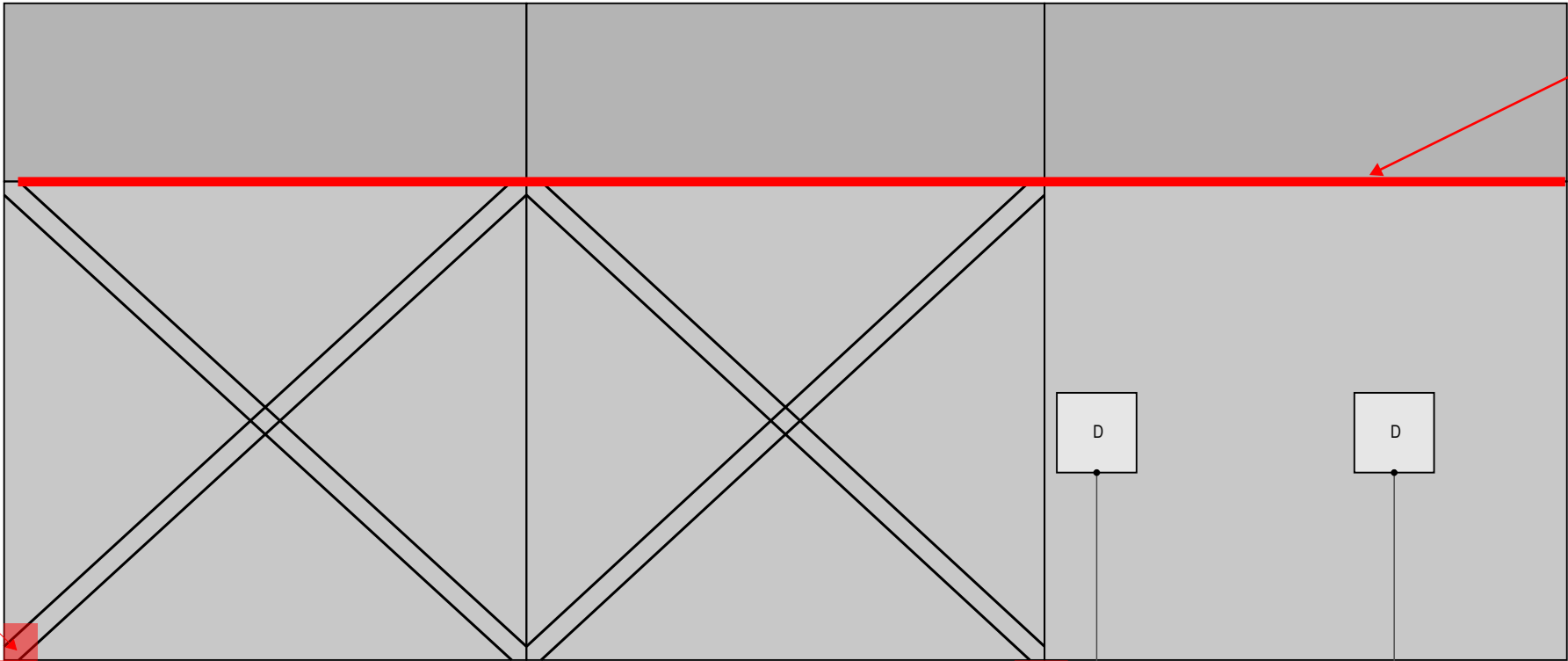


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Gable Range - Design
Engineering Tables

VIEW 2 - BUILDING SIDE (BAYS 1-3)



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UPGRADED C150
FOUNDATION CONNECTION -
REFER PAGE 11 FOR DETAILS

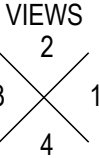
FRAMING SECTION TABLES	
Base Building - 2.1	
Design	Closed
Girt (Bridge Count)	C15010(1)
Girt Centres	0.9m

OPENING SECTION TABLES	
Opening - D	
Jambs, Head Beam & Sill	C15010
Upper and Lower Support Girt	B15010

BRACING kN (Totals)	
Required	40.2kN
Achieved	43.50 kN

450DIA PILE 1.2m DEPTH
ON VIEW 2 FRAME F1
CORNER POST. REFER
SHEET 11 FOR DETAILS

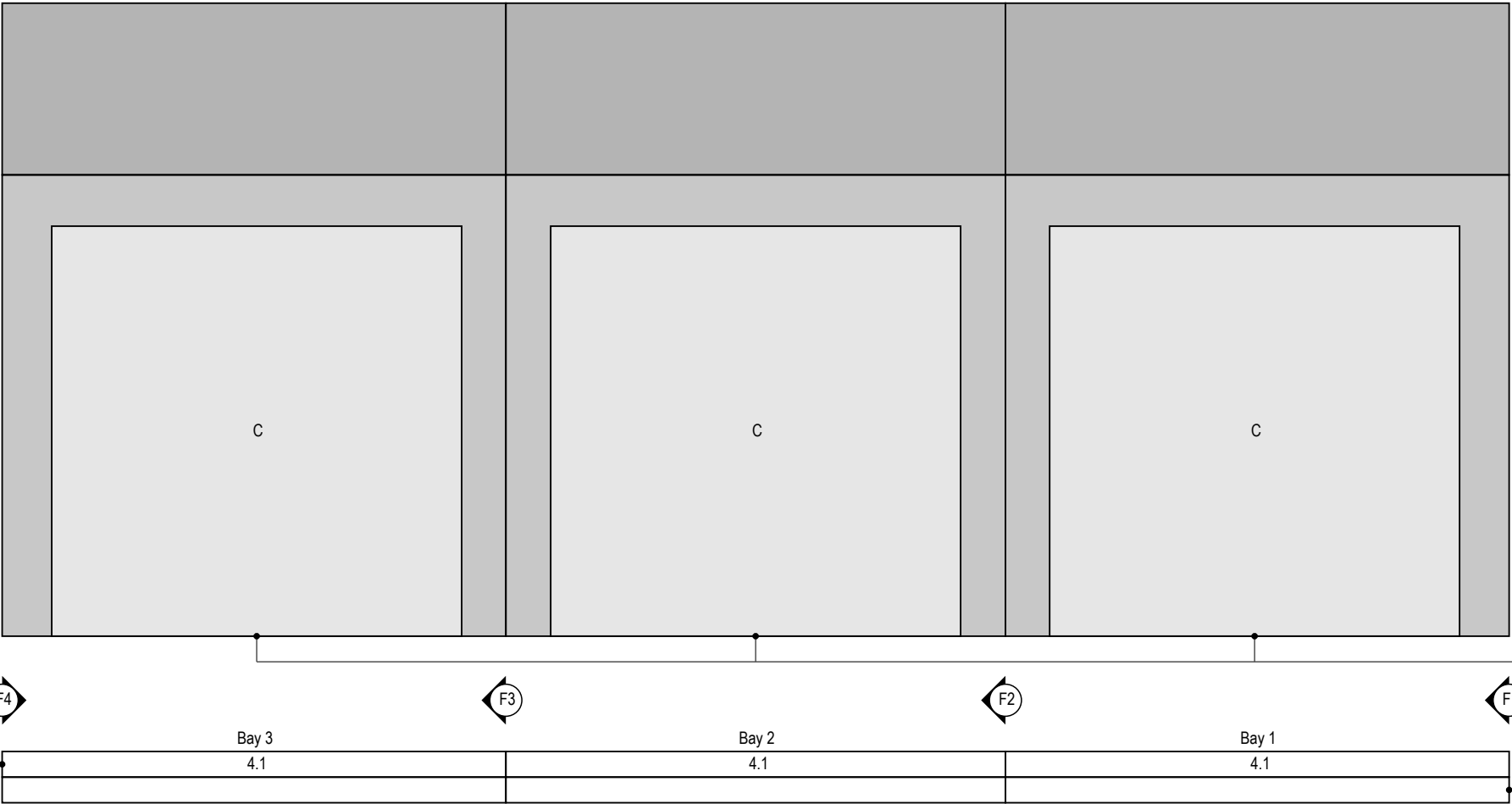
450DIA PILE 1.6m DEPTH
ON VIEW 2 FRAME F4
BELOW DOUBLE
MULTIBRACE. REFER
SHEET 11 FOR DETAILS



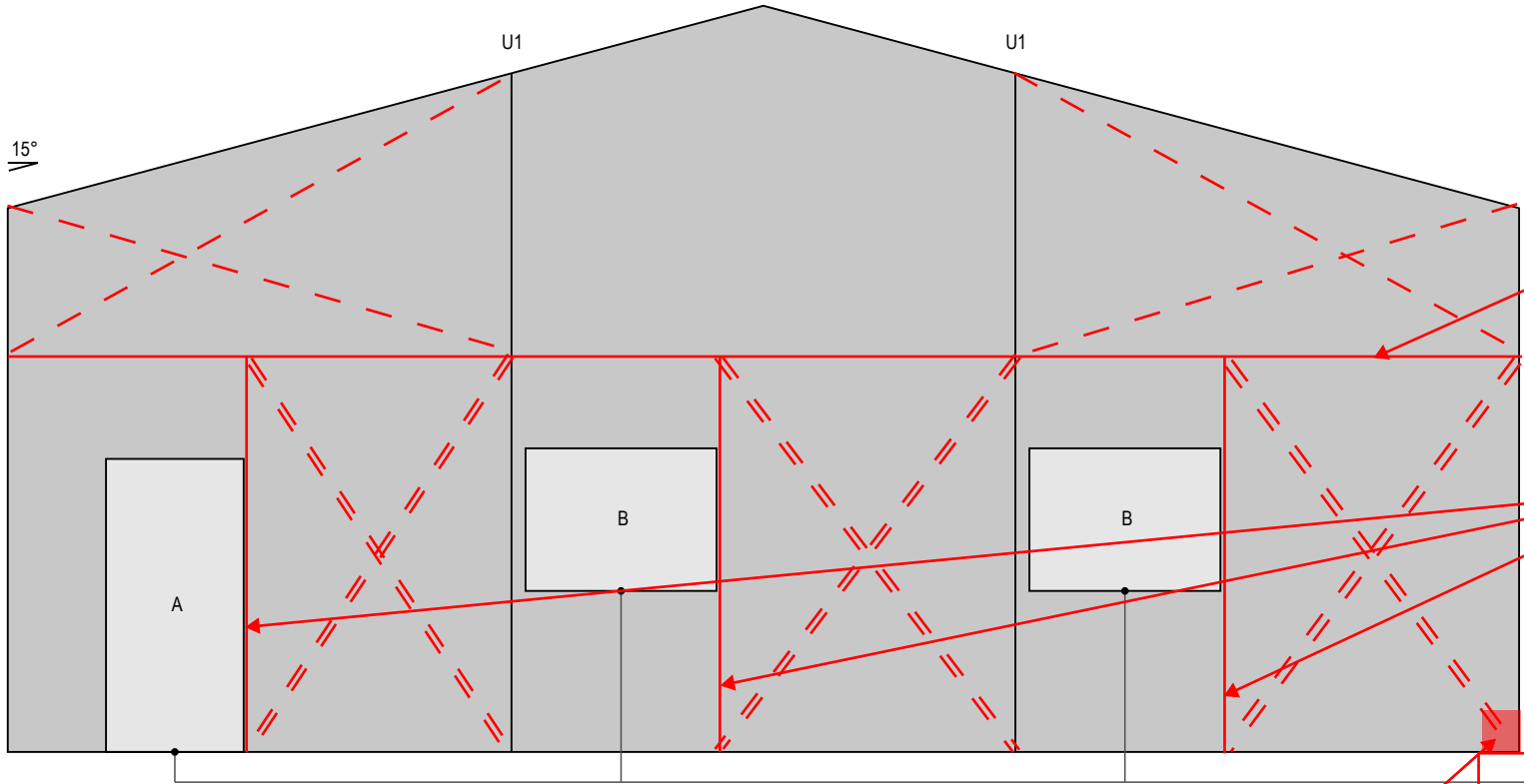
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Gable Range - Design
Engineering Tables



FRAMING SECTION TABLES	
Base Building - B.1	
Design	Closed
Leg & Rafter	C15015
Upright - U1	C25019
Girt (Bridge Count)	C15010(1)
Girt Centres	0.9m

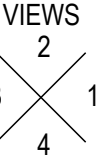


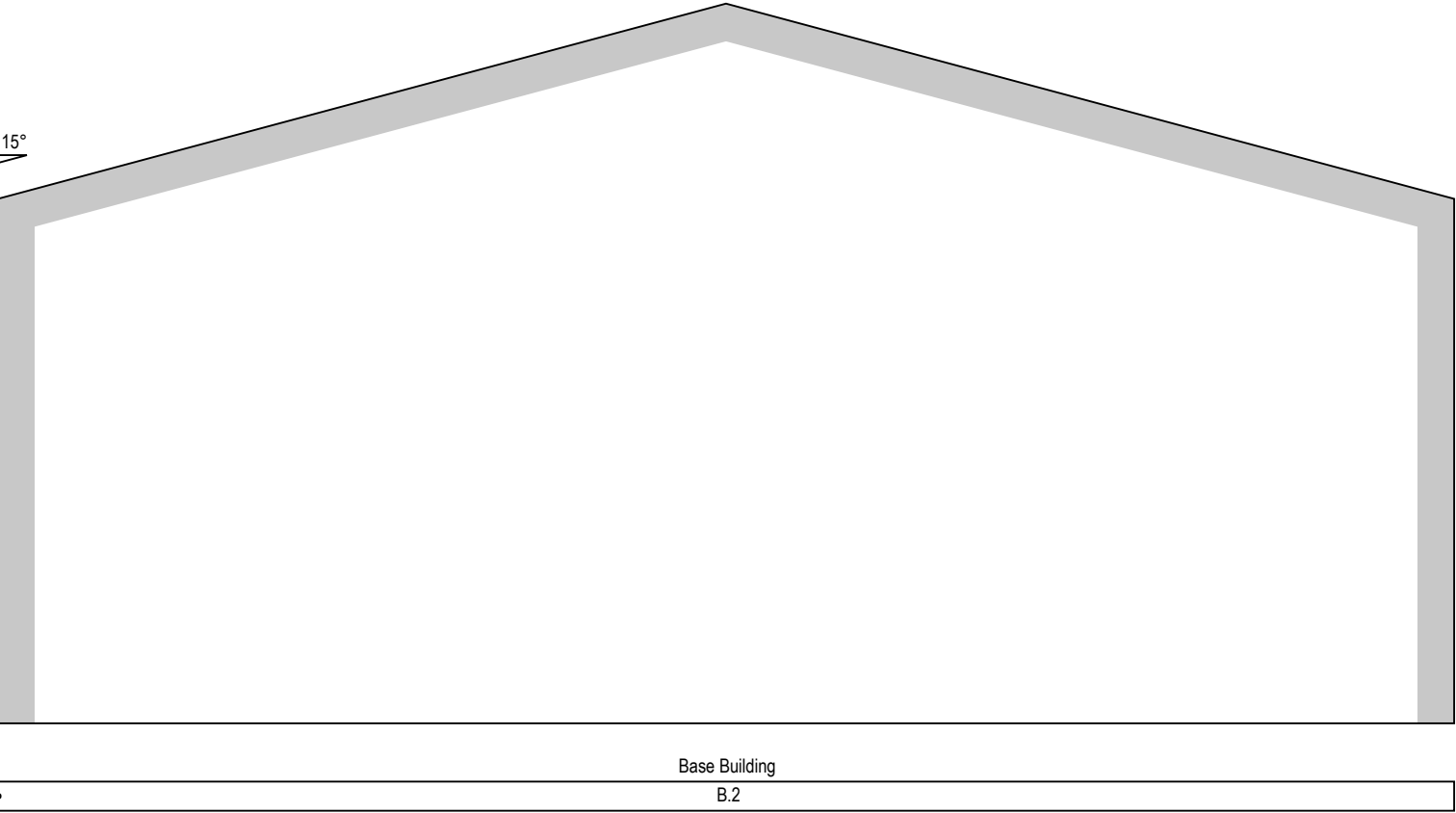
Base Building
B.1
Structual Moment Resistance - NaNkN

OPENING SECTION TABLES	
Opening - A	
Jambs & Head Beam	C15010
Upper Support Girt	B15010
Opening - B	
Jambs, Head Beam & Sill	C15010
Upper Support Girt	B15010
BRACING kN	
Required	16.7kN
Achieved	24.4kN

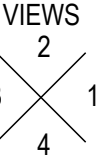
UPGRADED C150 FOUNDATION
CONNECTION REQUIRED -
REFER PAGE 11 FOR DETAILS

450DIA PILE 1.2m DEPTH
ON VIEW 2 / FRAME F1
CORNER POST. REFER
PAGE 11 FOR DETAILS





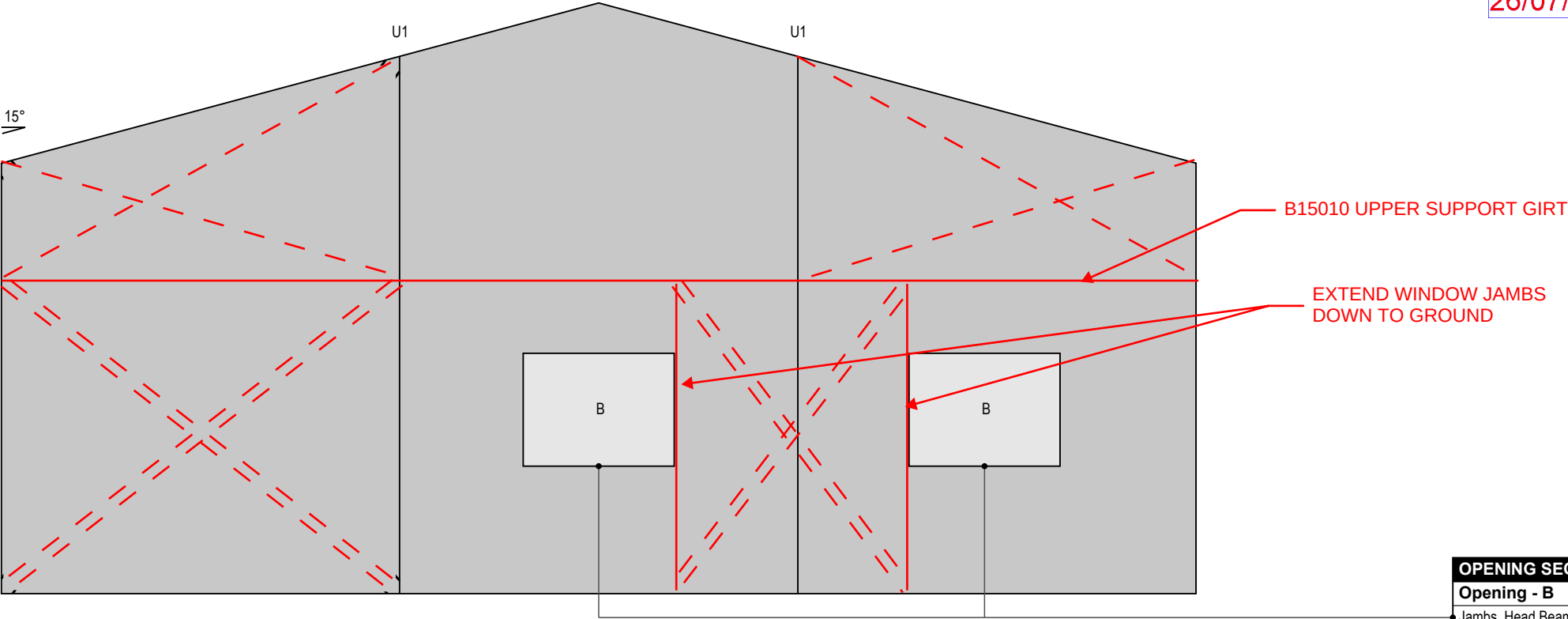
FRAMING SECTION TABLES	
Base Building - B.2	
Design	Closed
Leg & Rafter	B25024



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Gable Range - Design
Engineering Tables

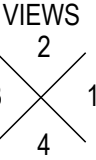


FRAMING SECTION TABLES	
Base Building - B.1	
Design	Closed
Leg & Rafter	C15015
Upright - U1	C25019
Girt (Bridge Count)	C15010(1)
Girt Centres	0.9m

Base Building	
B.1	
Structual Moment Resistance - NaNkN	
M2:1 - 17.64kN	

OPENING SECTION TABLES	
Opening - B	
Jambs, Head Beam & Sill	C15010
Upper Support Girt	B15010

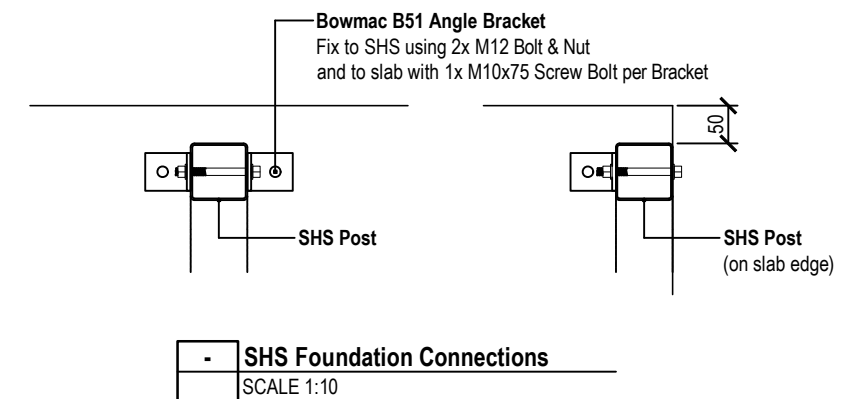
BRACING kN	
Required	16.7kN
Achieved	20.0kN



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Gable Range - Design
Engineering Tables



Technical drawing showing a detail and section of a pile foundation.

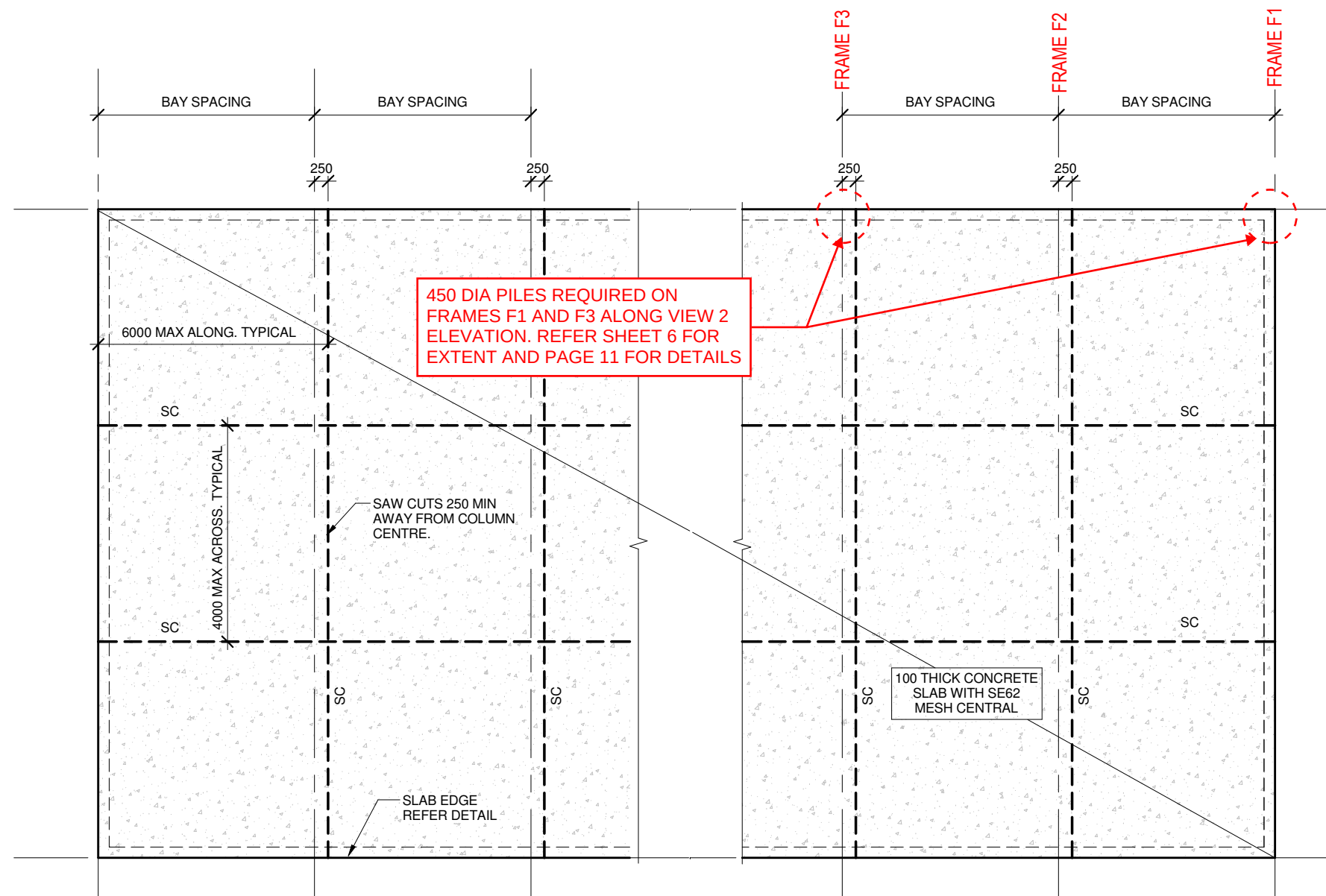
DETAIL A (TYP): Shows a cross-section of the pile foundation. The pile is made of 20 MPa (MIN) CONCRETE. The top of the pile is connected to the BASE BUILDING FOUNDATION - REFER SLAB DETAILS. The pile is reinforced with PILE REINFORCING 2-D12 BARS HOOKED OVER LONGITUDINAL EDGE BEAM UPPER D12 BAR R6-200 CRS MAX. The pile is shown with a vertical reinforcement bar and a horizontal reinforcement bar. The pile is shown with a vertical reinforcement bar and a horizontal reinforcement bar.

SECTION 1 (TYP): Shows a longitudinal section of the pile foundation. The pile is shown with a vertical reinforcement bar and a horizontal reinforcement bar. The pile is shown with a vertical reinforcement bar and a horizontal reinforcement bar.

SECTION 2 (TYP): Shows a cross-section of the pile foundation. The pile is shown with a vertical reinforcement bar and a horizontal reinforcement bar. The pile is shown with a vertical reinforcement bar and a horizontal reinforcement bar.

Dimensions: The pile has a diameter of 450 mm. The pile is shown with a vertical reinforcement bar and a horizontal reinforcement bar. The pile is shown with a vertical reinforcement bar and a horizontal reinforcement bar.

Notes: REFER ELEVATIONS (VARIES)



VIEWS
2
3 1
4

NOTES

GENERAL:

1. ALL WORK SHALL CONFORM TO THE NEW ZEALAND BUILDING CODE.
2. CHECK DIAGONALS TO ENSURE BUILDING IS SQUARE.

FOUNDATIONS:

1. FOUNDATION SUBGRADE TO BE GOOD GROUND AS DEFINED BY NZS3604:2011, EXCEPT HAVING A MINIMUM ULTIMATE BEARING CAPACITY OF 225kPa.

CONCRETE SLAB:

1. STRIP THE SITE, REMOVING VEGETATION, TURF, SOILS CONTAINING ORGANIC MATTER AND LOOSE OR SOFT MATERIAL, TRIM TO A FIRM SUBGRADE. BACKFILL AS REQUIRED WITH COMPACTED GRANULAR MATERIAL AS DEFINED BY NZS3604.2011 AND LAY A BLINDING OF SAND TO UNDERSIDE OF CONCRETE SLAB AND EDGE THICKENINGS. ENSURE THE SURFACE OF THE SLAB WILL BE AT LEAST 100mm ABOVE THE HIGHEST LEVEL OF CLEARED GROUND AROUND SLAB.
2. CONCRETE SHALL HAVE A MAXIMUM AGGREGATE SIZE OF 20mm AND A SLUMP OF 80mm.
3. REINFORCING MESH TO BE LAPPED 225mm.
4. PROVIDE A 0.25mm POLYTHENE DAMP PROOF MEMBRANE AND SLIP LAYER UNDER THE SLAB TAPED WITH 100mm LAPS.
5. CONCRETE REINFORCING STEEL TO BE SUPPORTED BY PLASTIC CHAIRS AT 800mm CRS.
6. CONCRETE TO BE 20MPa UP TO ZONE C AND 25MPa FOR ZONE D
7. COVER TO REINFORCING SHALL BE...
 - 75mm FROM GROUND
 - 50mm FROM GROUND PROTECTED BY DPM
 - 25mm FROM INTERNAL SURFACES
 - 50mm FROM EXTERNAL SURFACES

REINFORCEMENT NOTATION:

1. R - G300E PLAIN BAR REINFORCEMENT.
D - G300E DEFORMED BAR REINFORCEMENT.
HD - G500E DEFORMED BAR REINFORCEMENT.

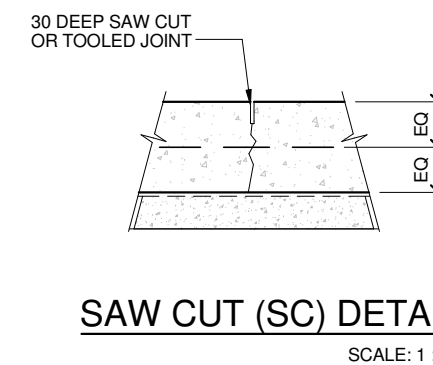
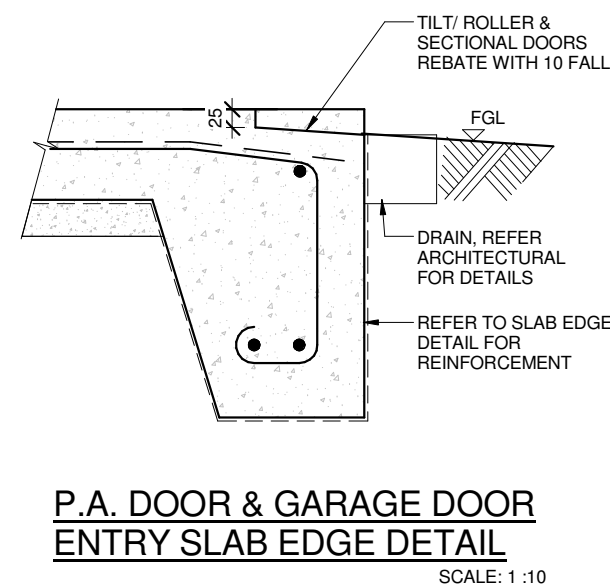
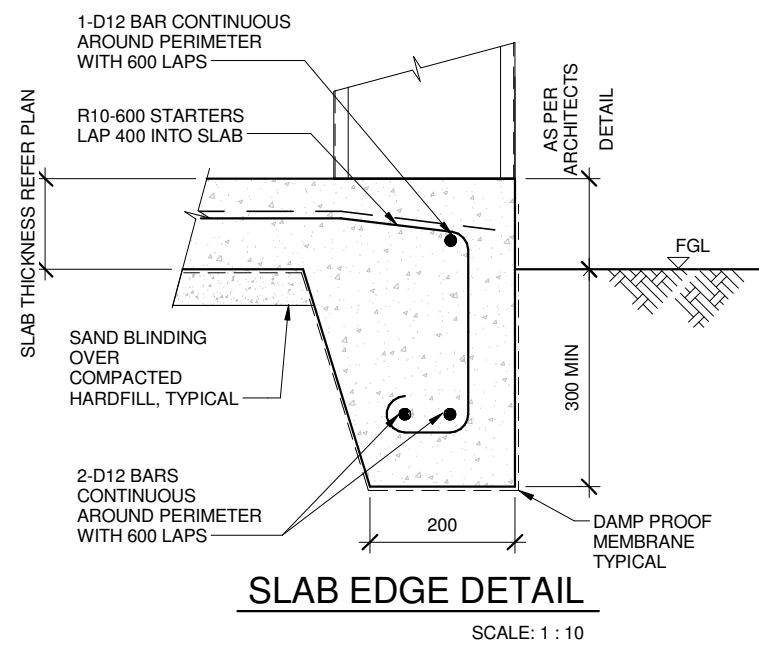
REINFORCEMENT NOTATION: R10-600

REINFORCEMENT TYPE
NOMINATION
10mm DIAMETER

ABBREVIATIONS:

EQ - EQUAL SPACING
FGL - FINISHED GROUND LEVEL

ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.



TOTALSPAN®
STEEL BUILDINGS

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Gable Range - Design

Foundation Details SD-F02

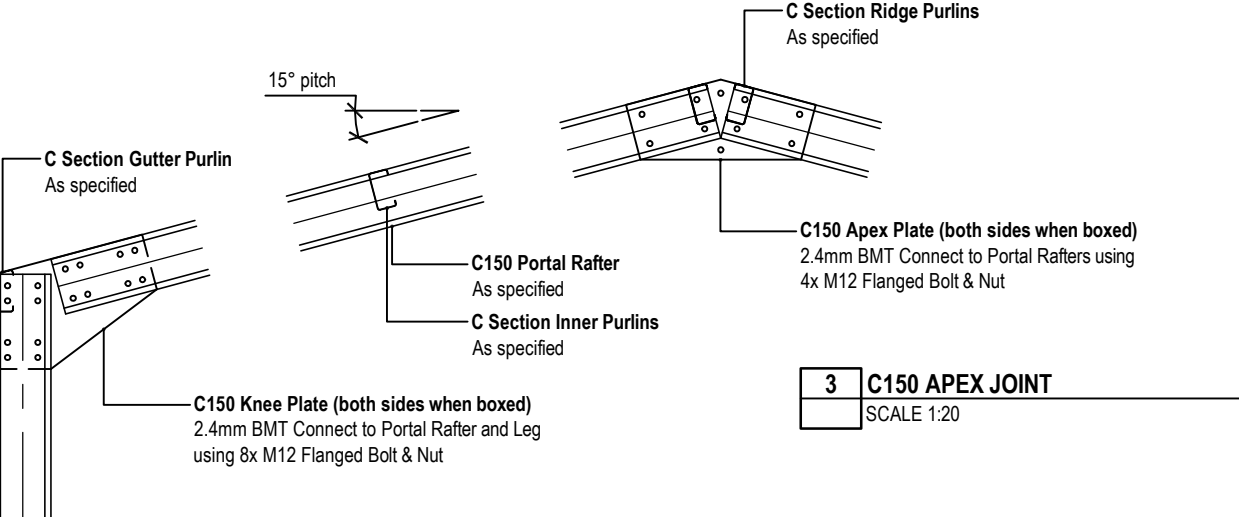
C Section Girts/Purlins to "closed" Portal face
Connect 40x40x120 Angle bracket with 4#10x16 Self-Drilling Screws each face

For B section Girts/Purlins, provide angle brackets both sides

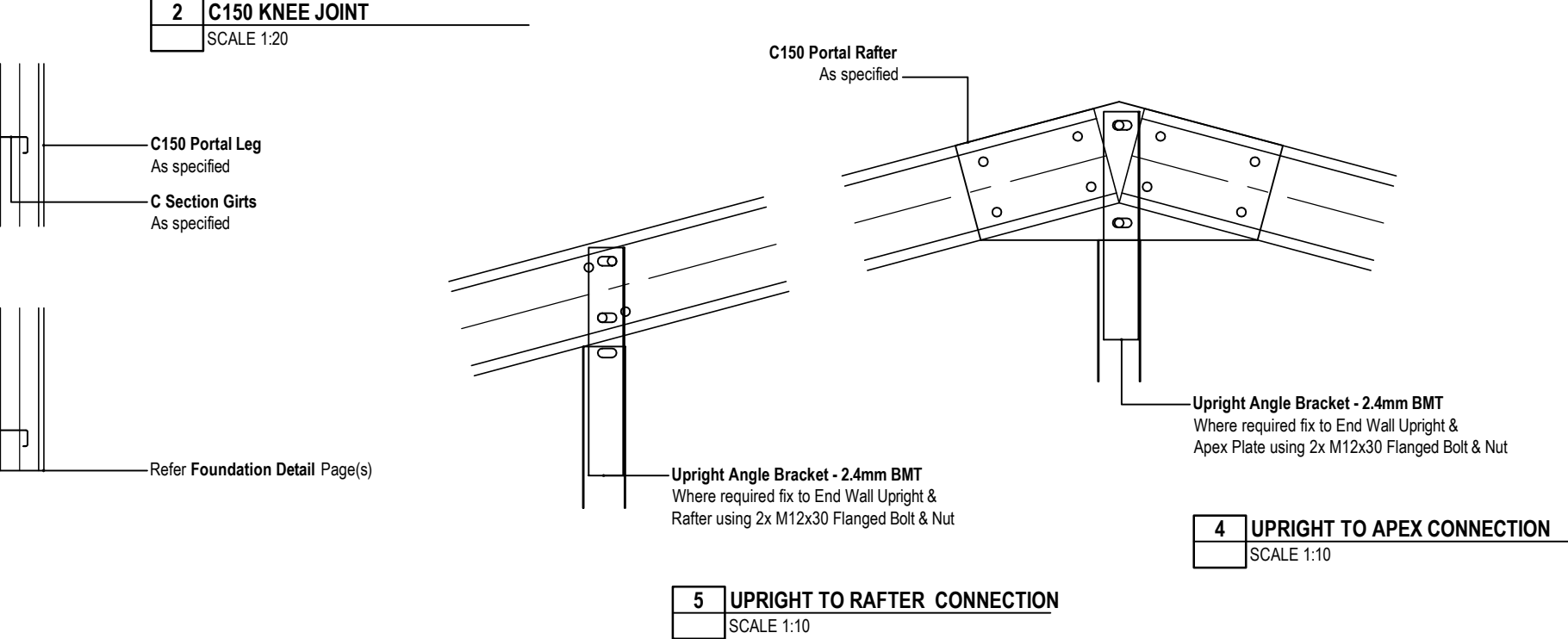
C Section Girts/Purlins to "open" Portal face
Connect angle support bracket to Portal Lips using 2x #10x16 Self-Drilling Screws

Connect girts/purlins to angle support bracket using 40x40x120 Angle bracket with 4#10x16 Self-Drilling Screws each face

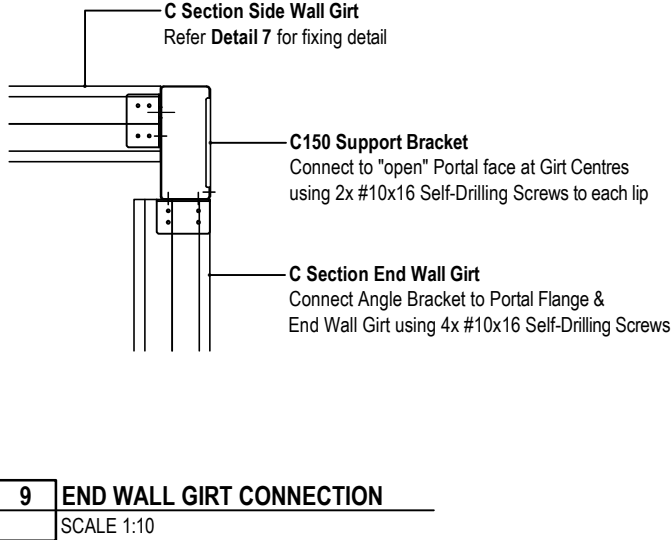
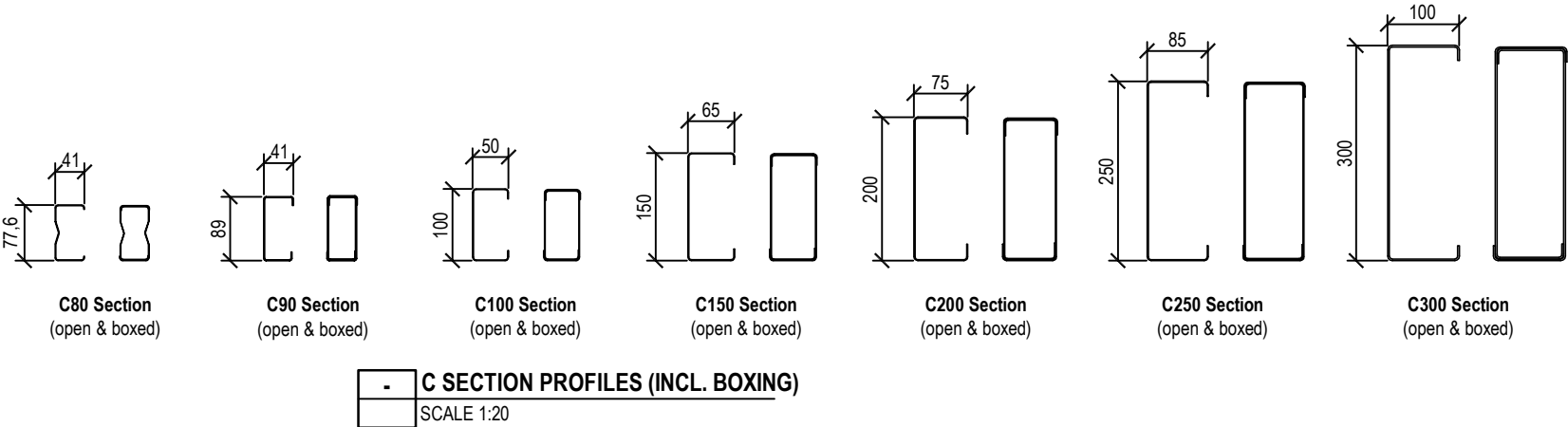
For B section Girts/Purlins, provide angle brackets both sides



7 GIRT/PURLIN BRACKET CONNECTION
SCALE 1:10



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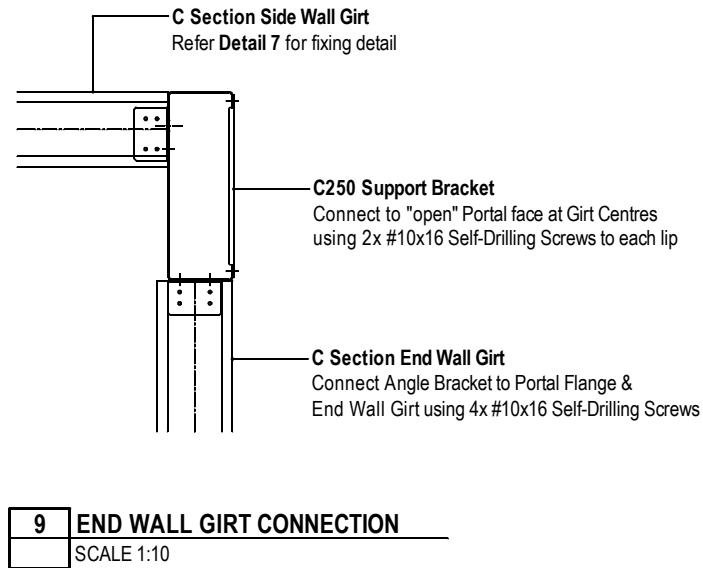
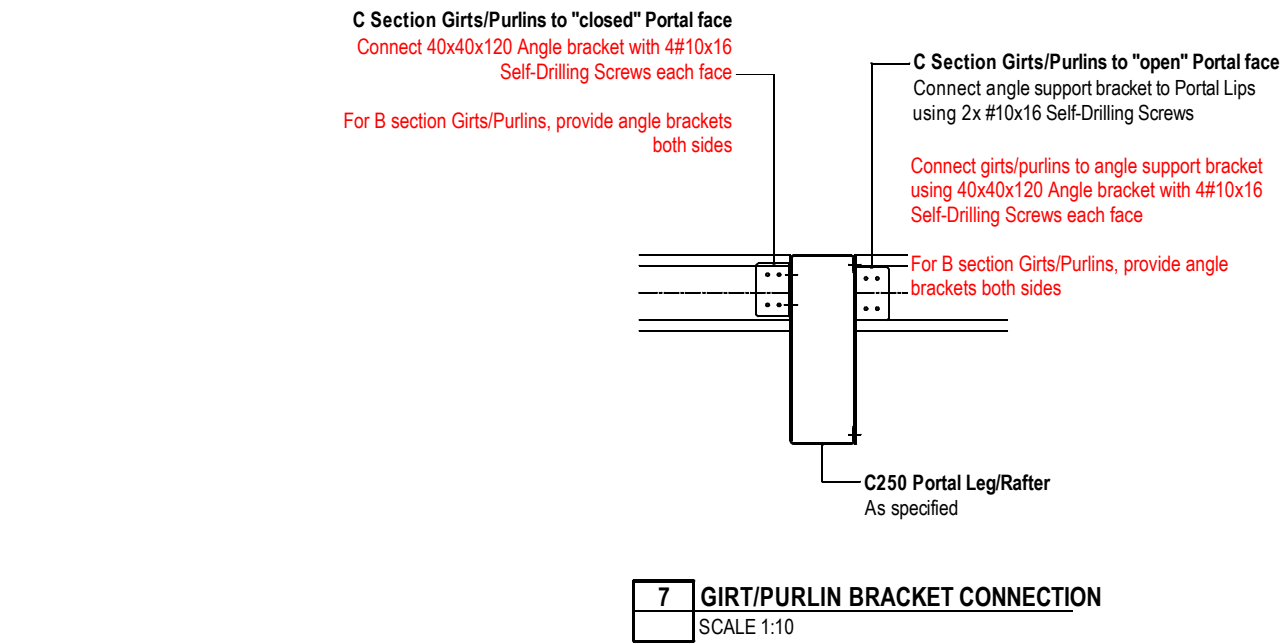
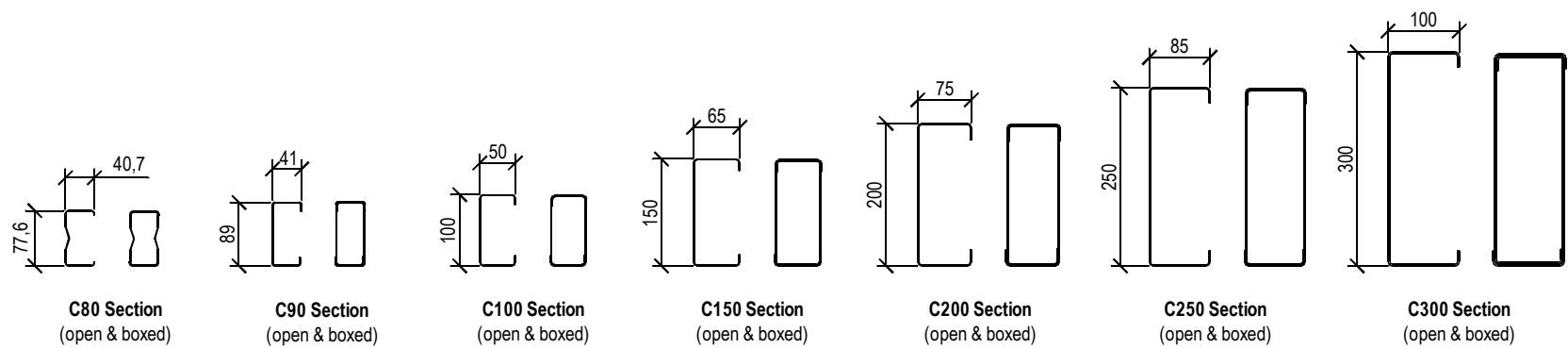
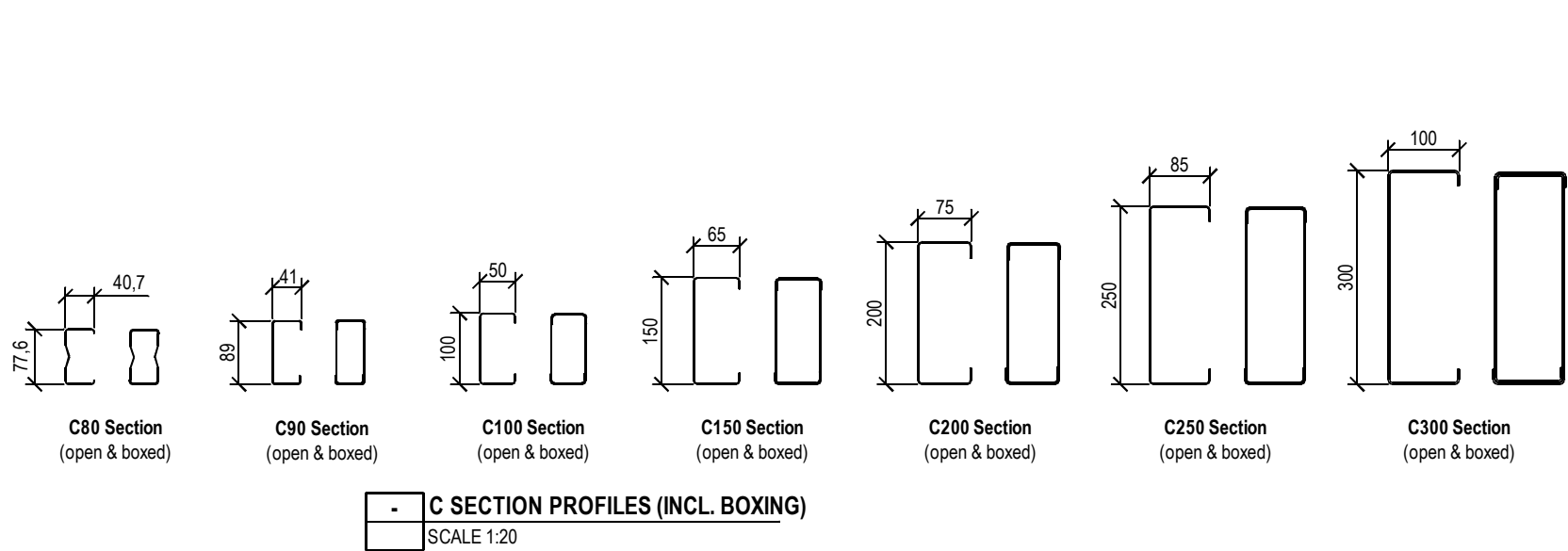
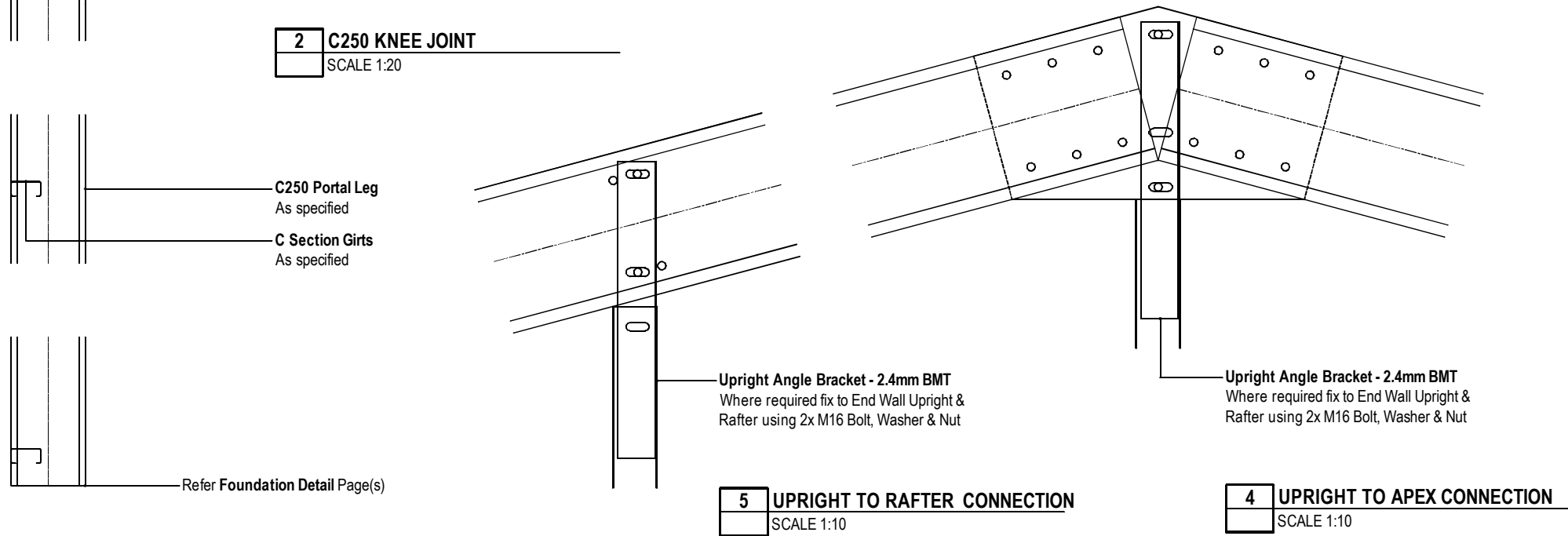
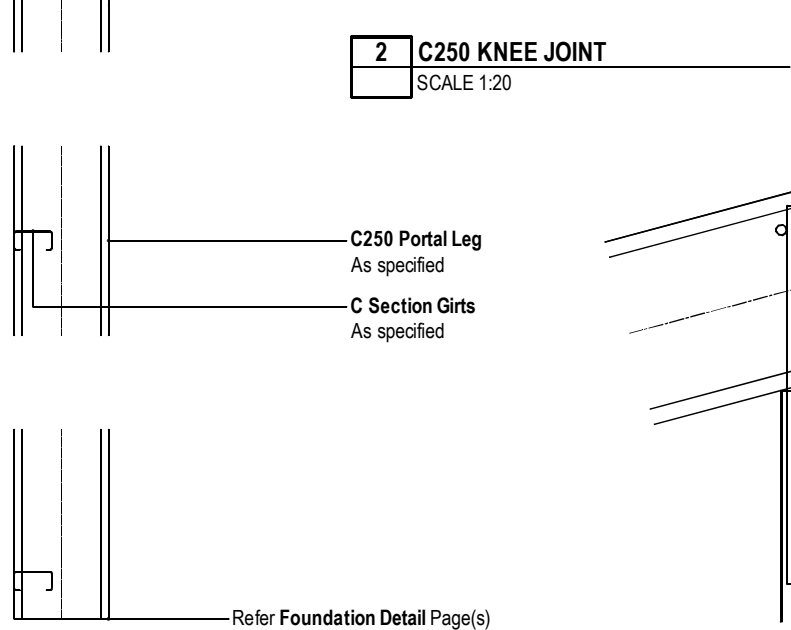
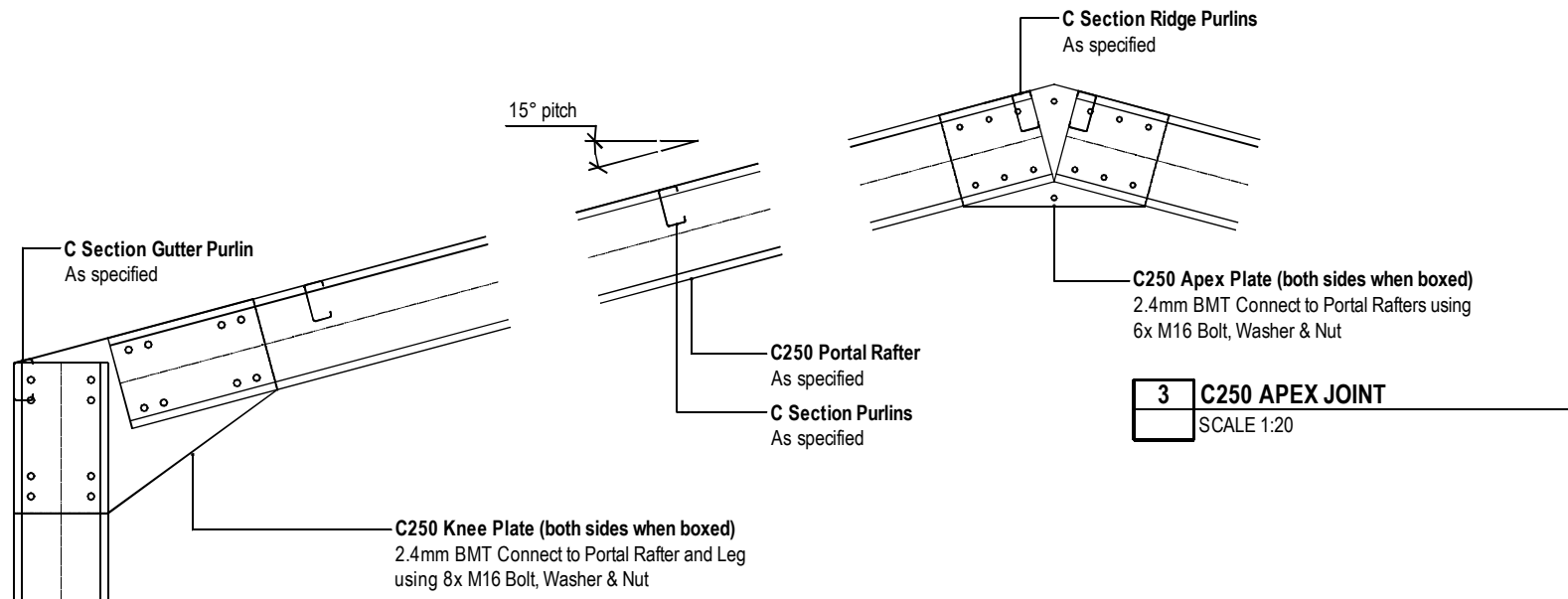
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Gable Range - Design

Frame Details **SD-P01**



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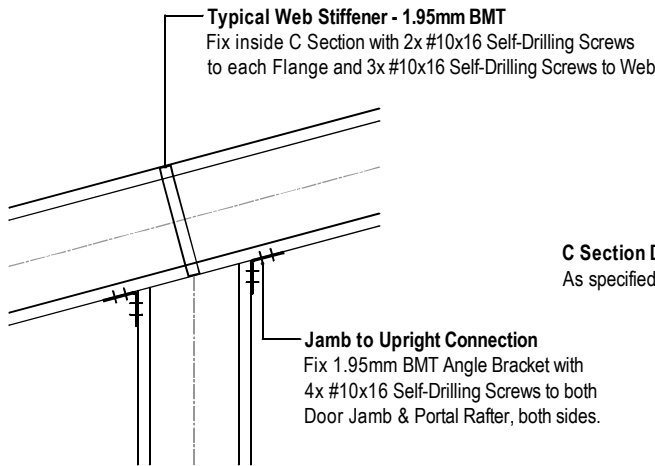
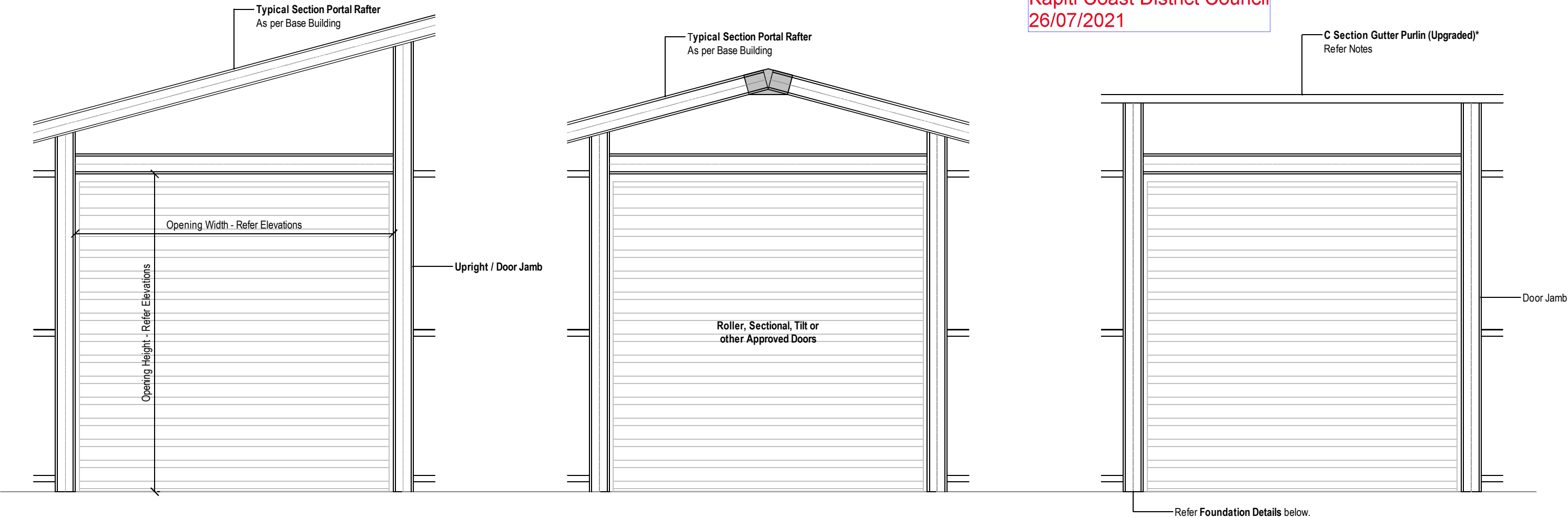
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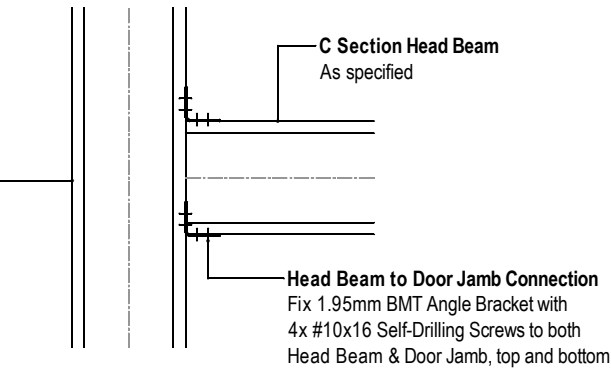
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Gable Range - Design

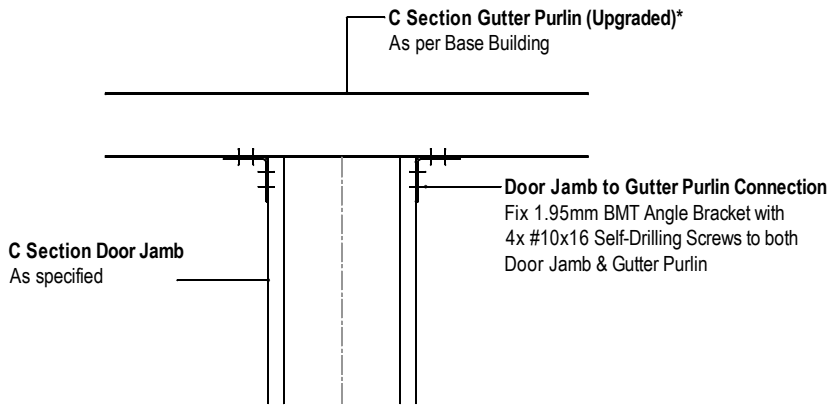
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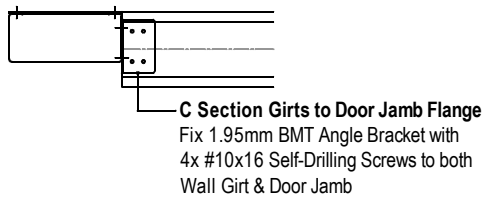
- **DOOR JAMB/UPRIGHT TO RAFTER CONNECTION**
SCALE 1:10



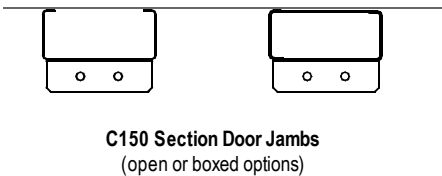
- **HEAD BEAM TO DOOR JAMB CONNECTION**
SCALE 1:10



- **HEAD BEAM TO GUTTER PURLIN CONNECTION**
SCALE 1:10



- **GIRT TO DOOR JAMB CONNECTION**
SCALE 1:10



- **C150 Jamb to Foundation Connections**
SCALE 1:10



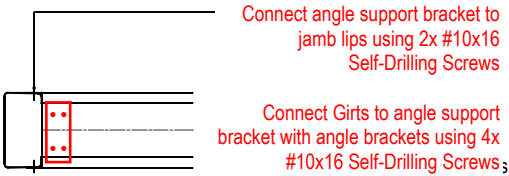
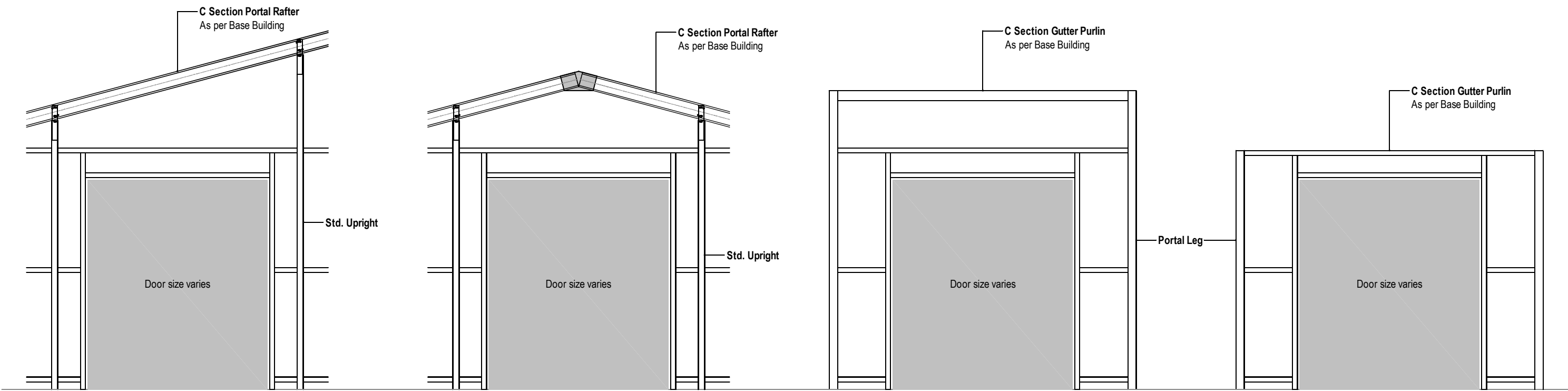
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Gable Range - Design

Major Openings SD-M01



-

C SECTION BRACKET CONNECTION

SCALE 1:10

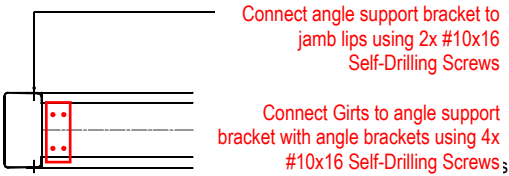
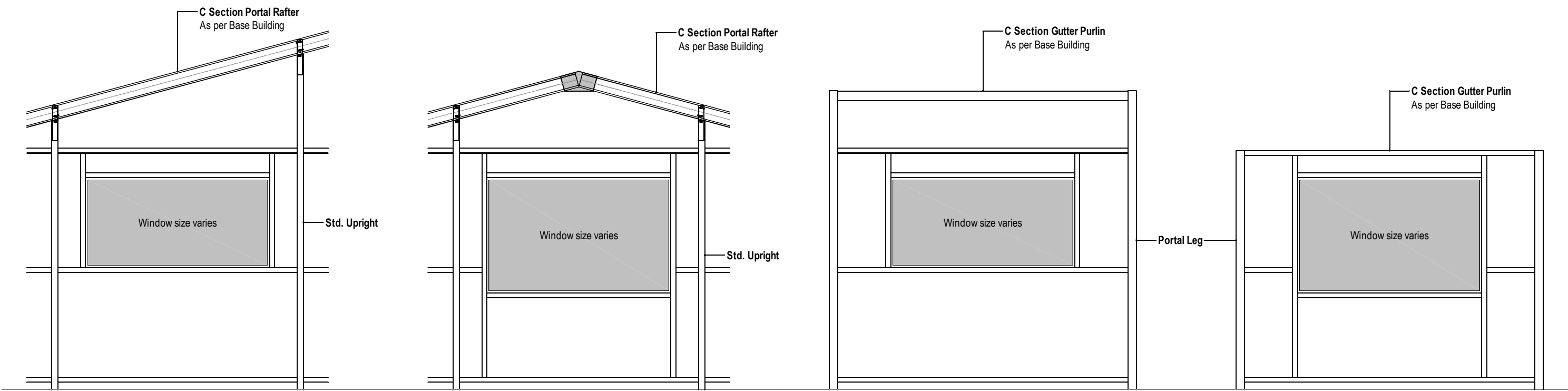
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Gable Range - Design

Minor Door Openings SD-M05



-

C SECTION BRACKET CONNECTION

SCALE 1:10

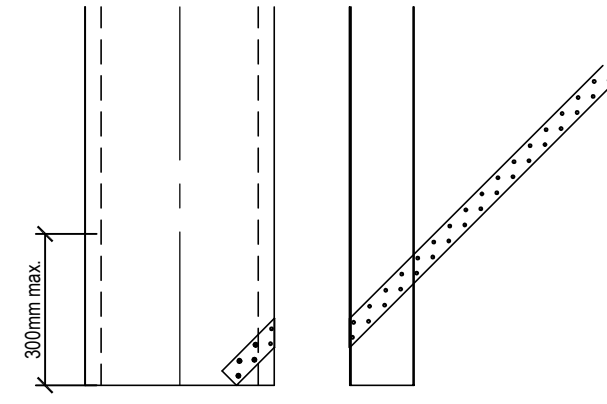
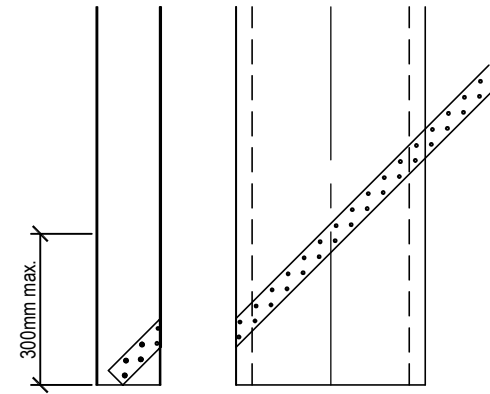
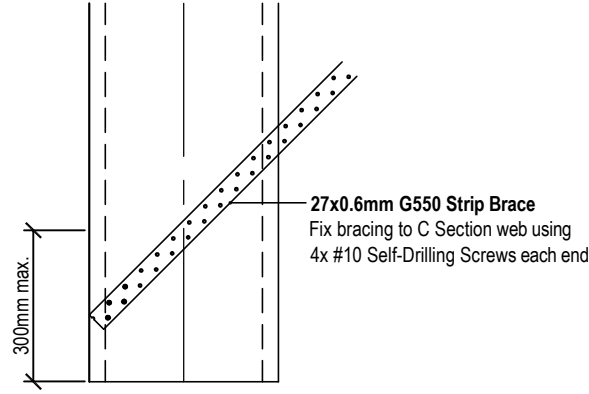
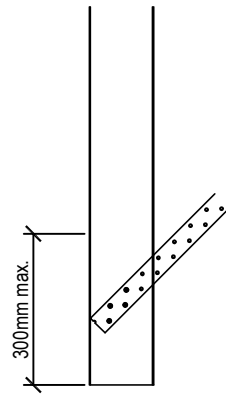
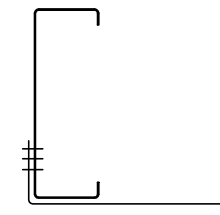
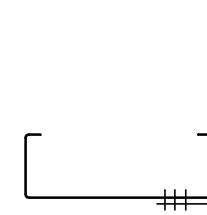
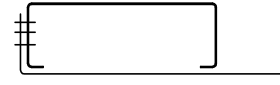
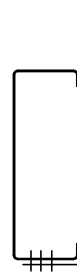
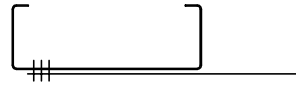
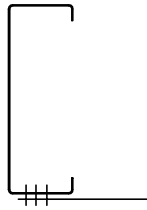
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Minor Window Openings SD-M06

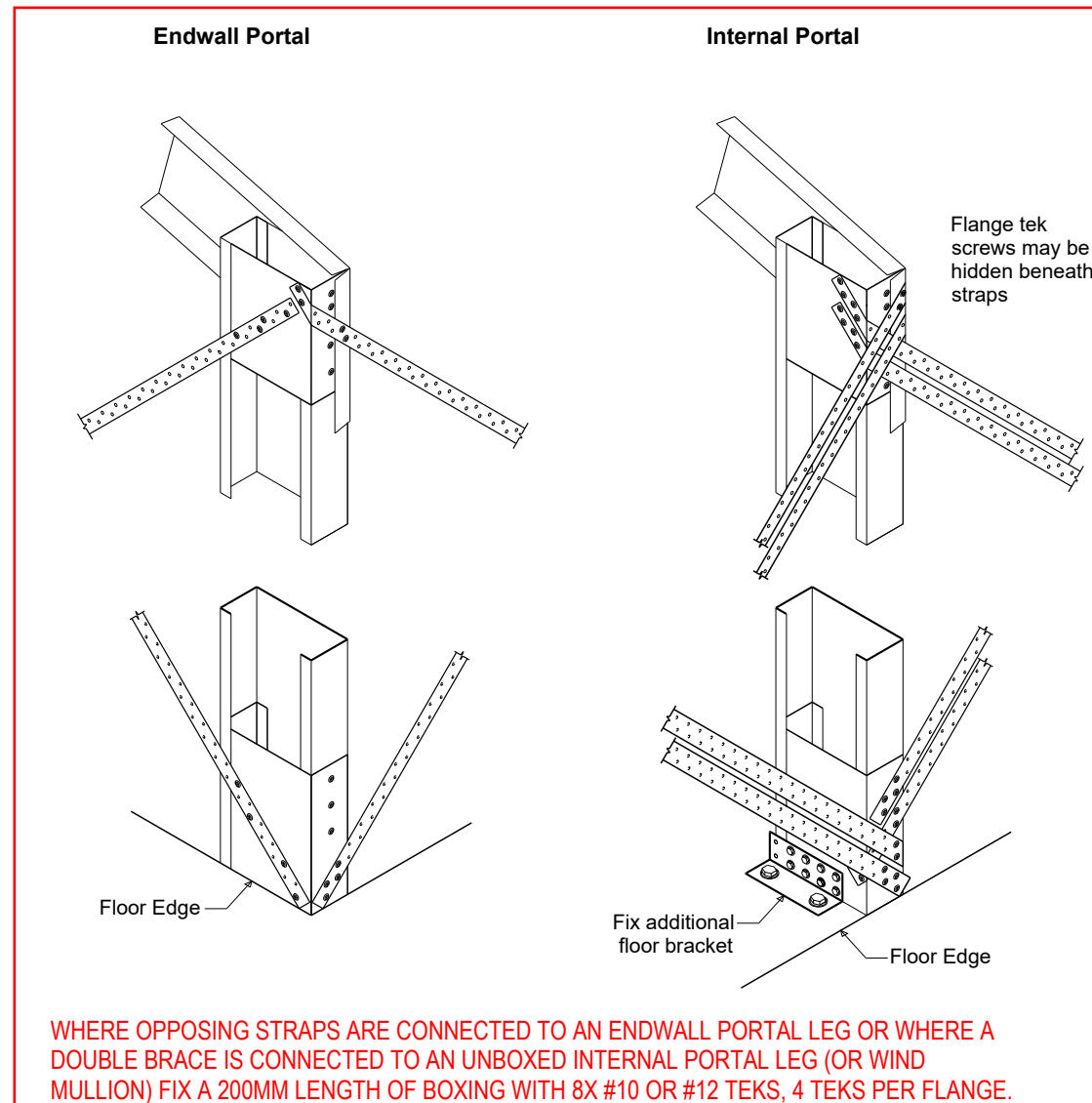


- SINGLE STRIP BRACE FIXING
SCALE 1:10

- SINGLE STRIP BRACE FIXING
SCALE 1:10

- SINGLE STRIP BRACE FIXING
SCALE 1:10

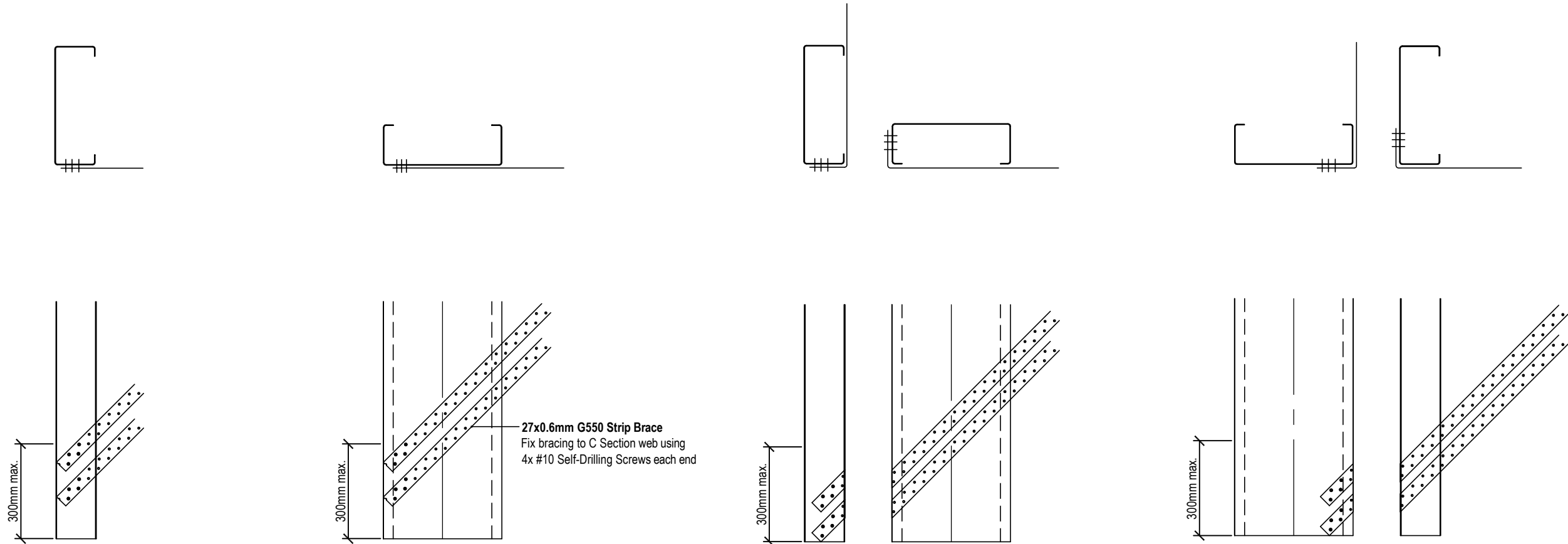
- SINGLE STRIP BRACE FIXING
SCALE 1:10



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Single Strip Brace Fixing Details SD-B02

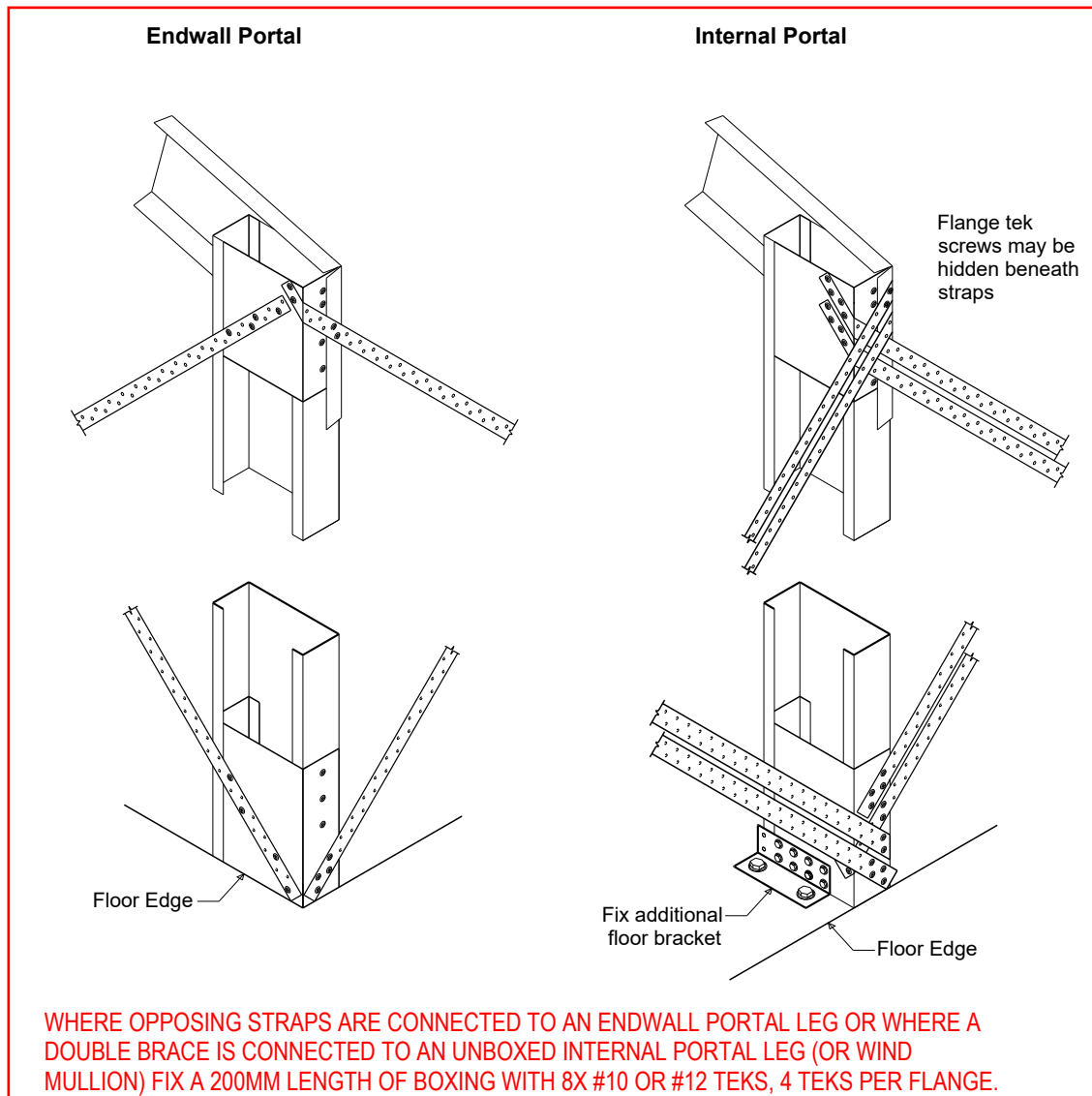


- DOUBLE STRIP BRACE FIXING
SCALE 1:10

- DOUBLE STRIP BRACE FIXING
SCALE 1:10

- DOUBLE STRIP BRACE FIXING
SCALE 1:10

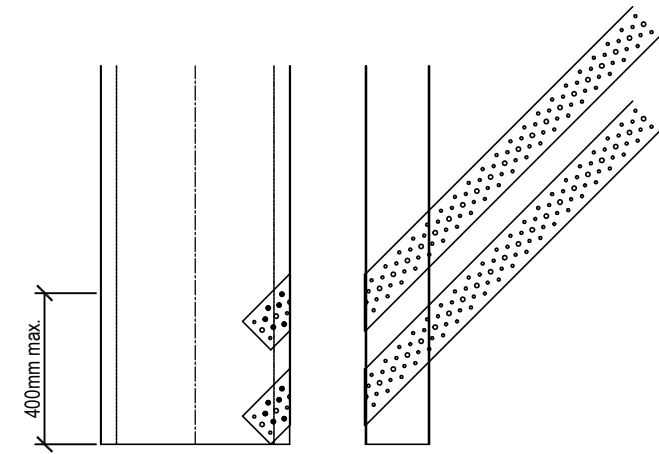
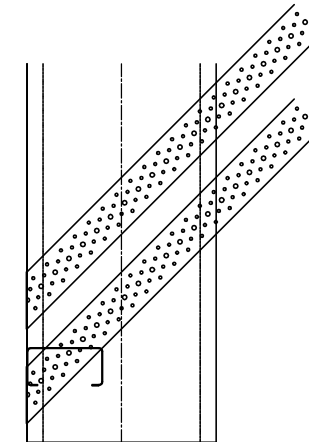
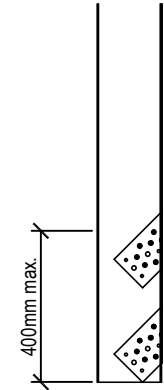
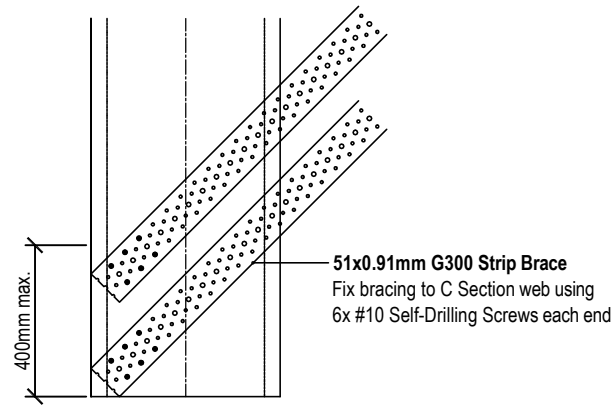
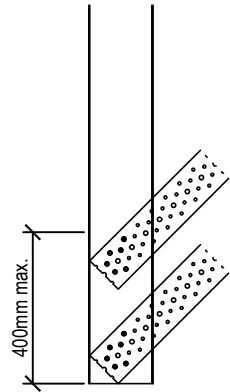
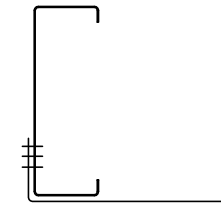
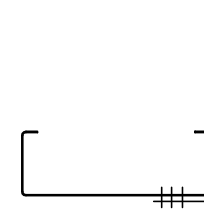
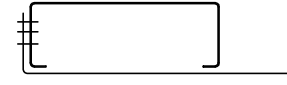
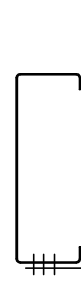
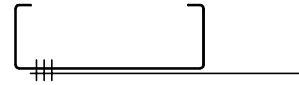
- DOUBLE STRIP BRACE FIXING
SCALE 1:10



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Double Strip Brace Fixing Details SD-B02



- DOUBLE MULTI BRACE FIXING
SCALE 1:10

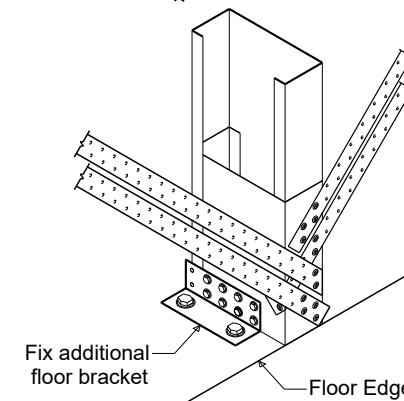
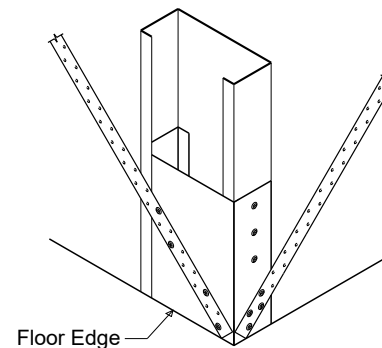
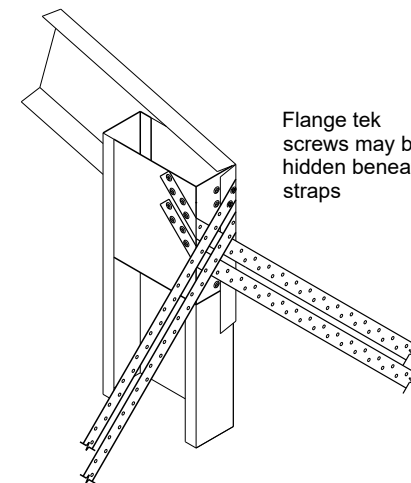
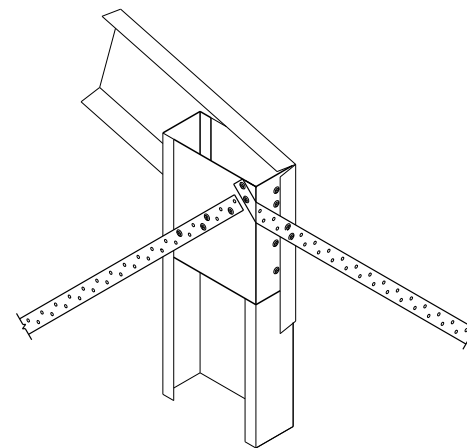
- DOUBLE MULTI BRACE FIXING
SCALE 1:10

- DOUBLE MULTI BRACE FIXING
SCALE 1:10

- DOUBLE MULTI BRACE FIXING
SCALE 1:10

Endwall Portal

Internal Portal



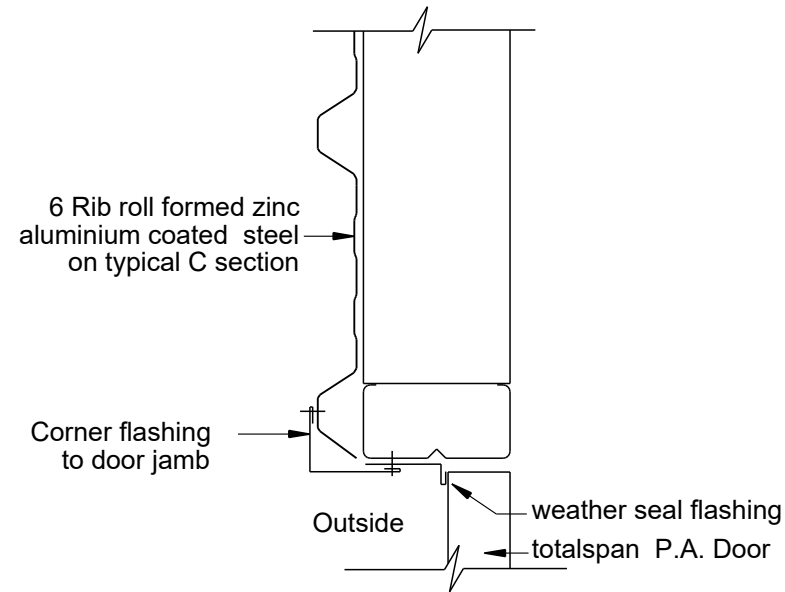
WHERE OPPOSING STRAPS ARE CONNECTED TO AN ENDWALL PORTAL LEG OR WHERE A DOUBLE MULTI BRACE IS CONNECTED TO AN UNBOXED INTERNAL PORTAL LEG (OR WIND MULLION) FIX A 200MM LENGTH OF BOXING WITH 8X #10 OR #12 TEKS, 4 TEKS PER FLANGE.

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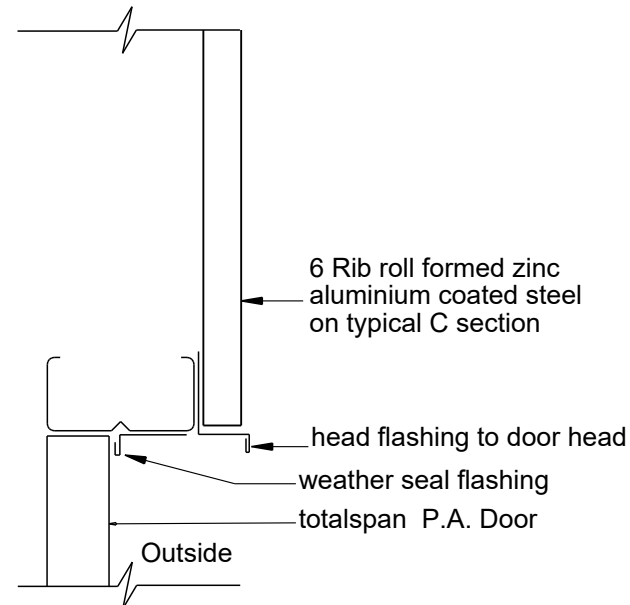


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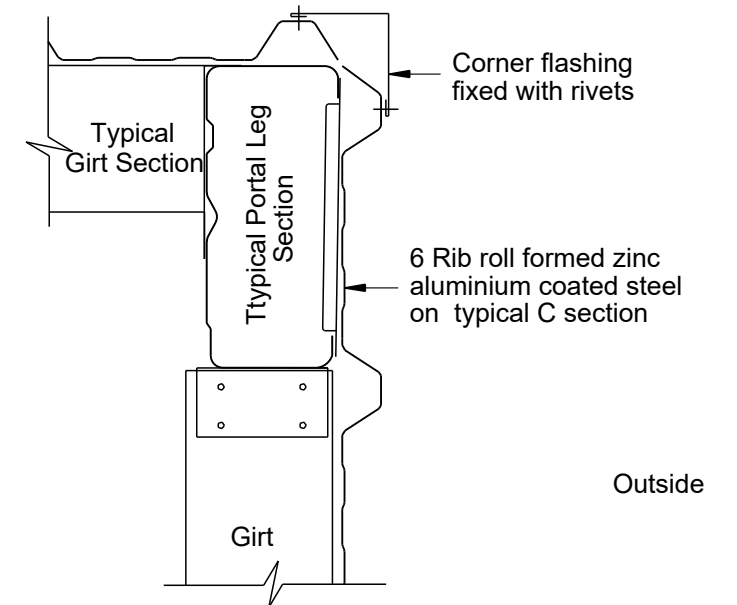
Double Multi Brace Fixing Details SD-B05



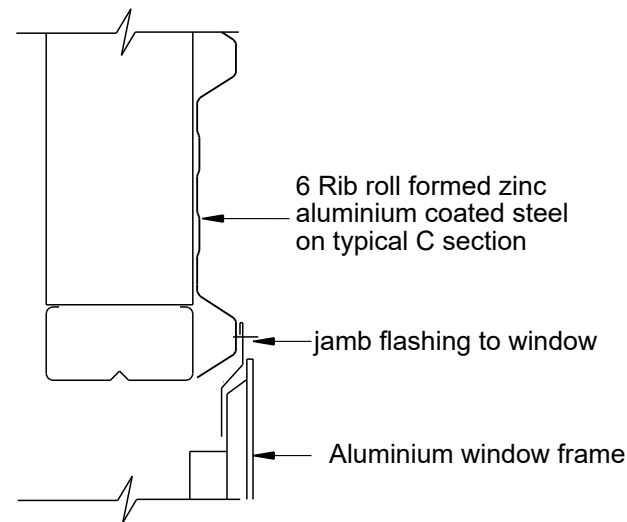
- P.A. Door Jamb Detail
SCALE: NTS



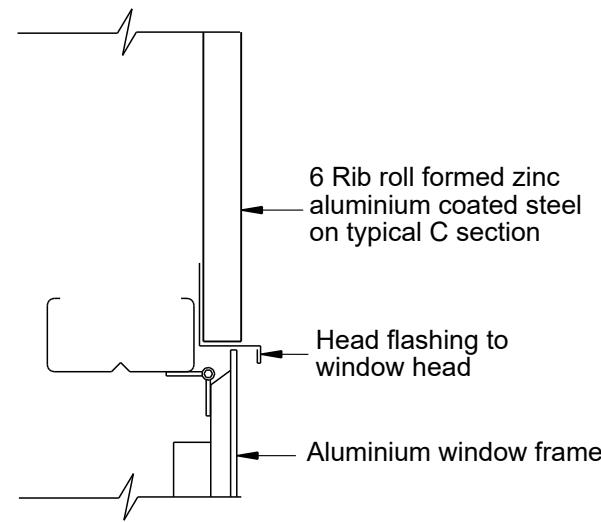
- P.A. Door Head Detail
SCALE: NTS



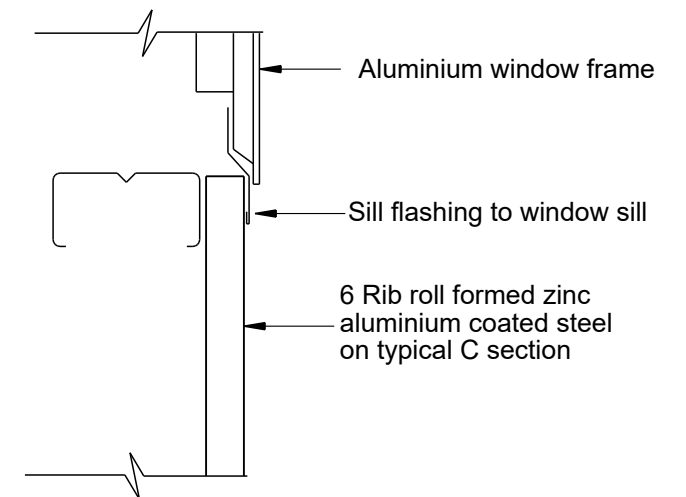
- External Corner
SCALE: NTS



- Window Jamb Detail
SCALE: NTS

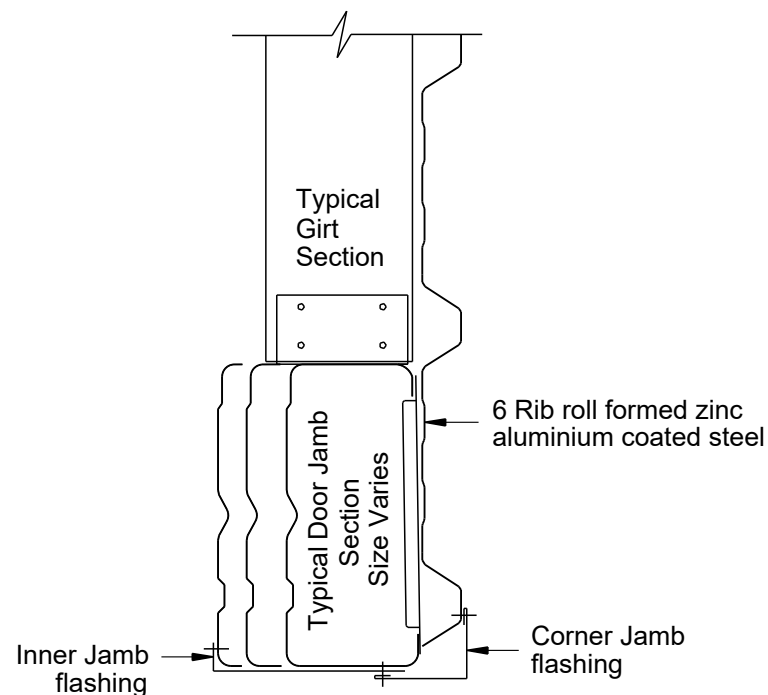


- Window Head Detail
SCALE: NTS

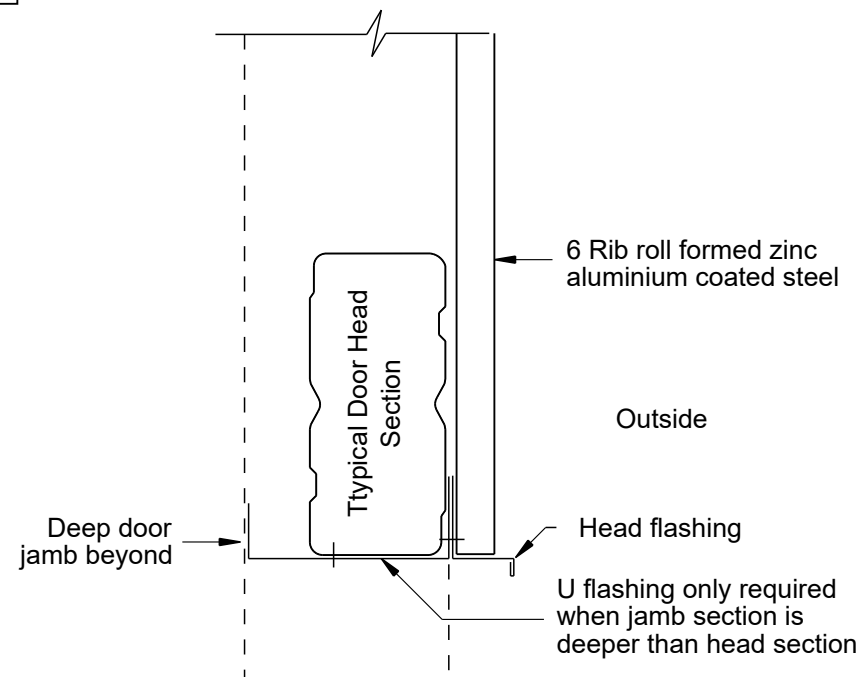


- Window Sill Detail
SCALE: NTS

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- Main Access Door Jamb Detail
SCALE: NTS



- Main Access Door Head Detail
SCALE: NTS



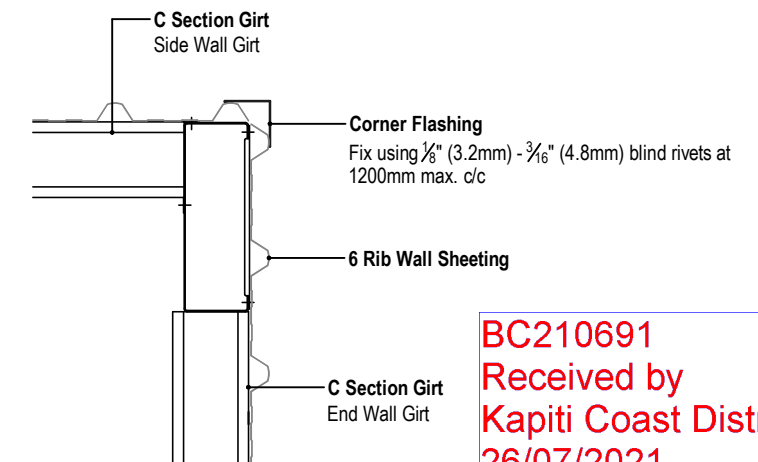
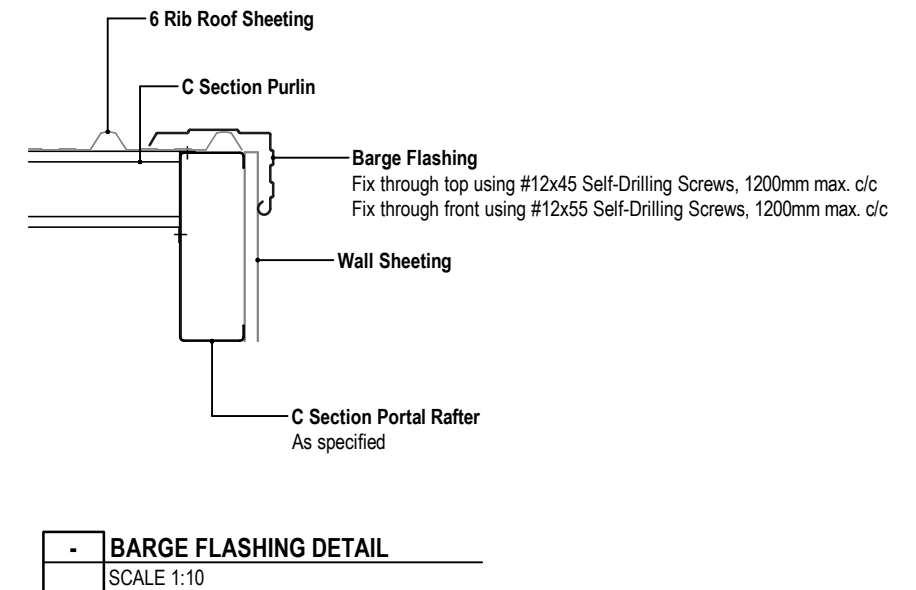
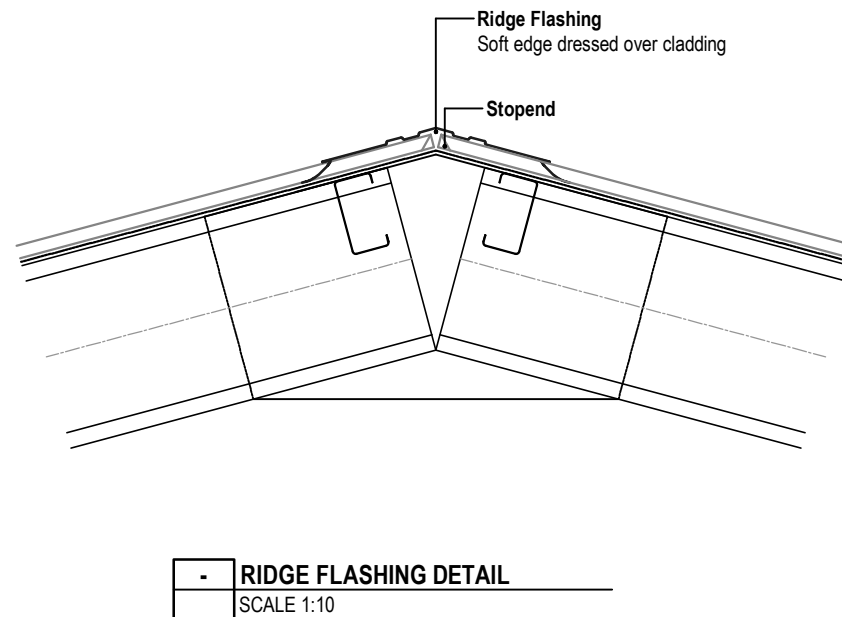
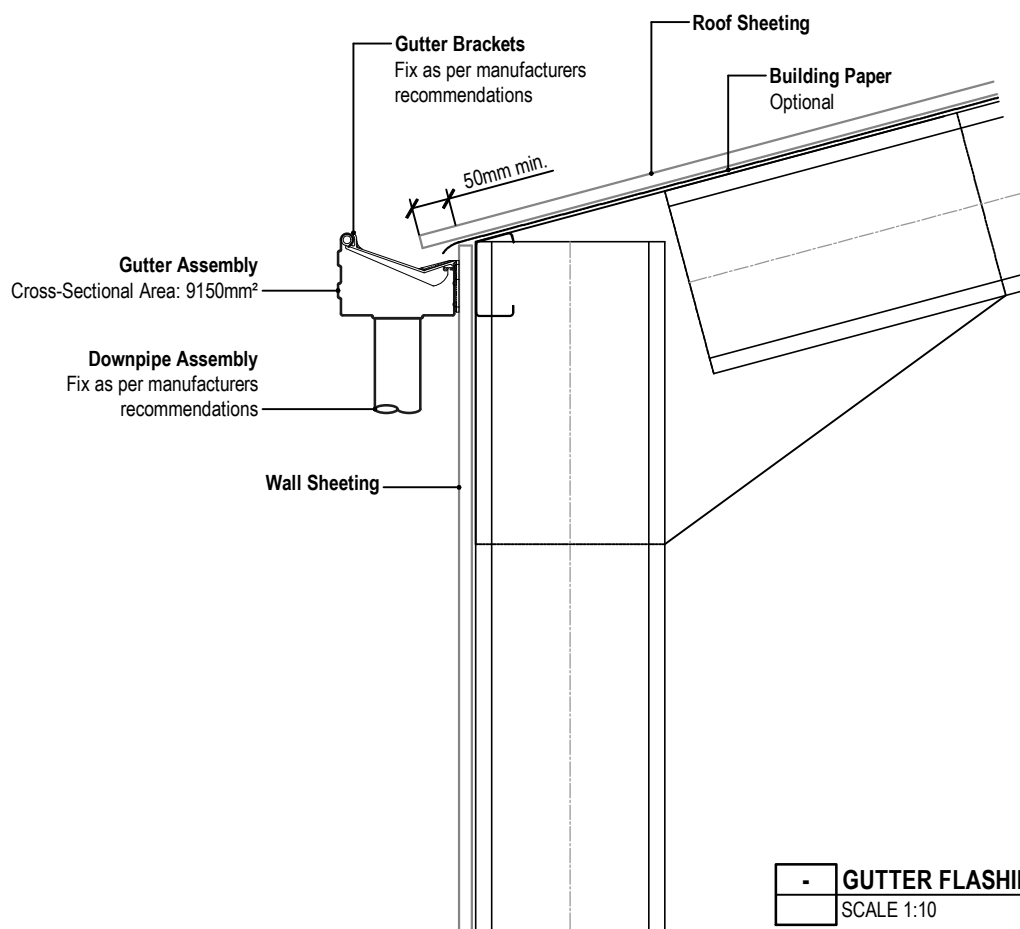
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Gable Range

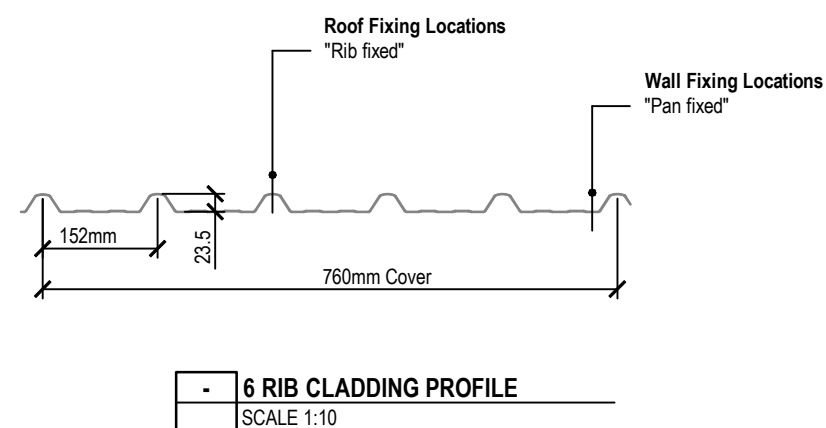
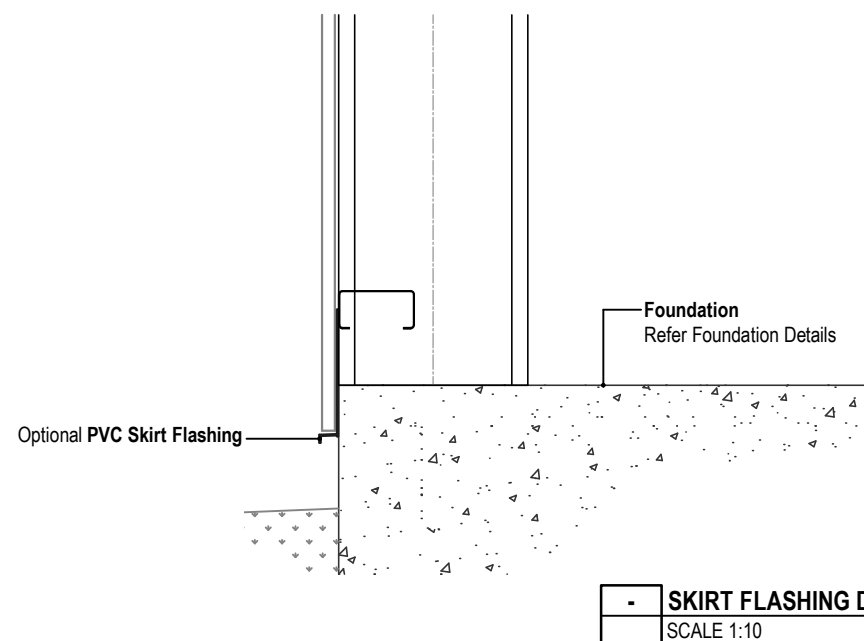
Flashing Details



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Important Design Notes

1. Roof and Wall Sheeting shall be 0.35 - 0.55 B.M.T, AZ150 Coating, G550 Steel only.
Alternative claddings (excluding light-weight translucent panel i.e. Ampelite), require an independent specific design certificate for the scope of work.
2. Wall Cladding to have minimum 50mm cover and 40mm min. clearance to ground level
3. Fixing pattern as per E2/AS1 or NZ MRM - NZ Metal Roof and Wall Cladding Code of Practice.
4. Flashings shall be fixed as per manufacturers recommendations.
5. Additional options may include:
 - 5.1. Snow straps for gutters
 - 5.2. Gutter purlin flashing
 - 5.3. Building paper in walls





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Gable Range

Flashing Details SD-E02

Angie Mazur

From: Bryan Wylie <bwylye@totalspan.co.nz>
Sent: Thursday, 16 September 2021 2:51 pm
To: Mailbox - Building Approvals
Subject: RFI Response- BC 210691
Attachments: Request for Further Information – Building Consent 210691, 198-200 Maung....pdf; Azure-II_3-Sided_Shower_SP.PDF; edx-data-sheet-brochure-Saunders.pdf; Microsoft Outlook - Memo Style_Kap Plumbing.pdf; Puretec Basic WU-UV User Guide.pdf; Puretec WU-UV Series Specifications.pdf; RFI response_16-9-21_Saunders.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

Hi

Response to RFI as attached.

Kind regards

Bryan Wylie

Totalspan Wellington/Horowhenua

P: 04 297 0033 **M:** 027 443 0648

E: bwylye@totalspan.co.nz **W:** www.totalspan.co.nz

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9 August 2021

Totalspan Wellington - Horowhenua
PO Box 15082
Otaki 5542

Dear Building Consent Applicant/Building Owner

Request for Further Information – Building Consent: 210691

Site Address: 198-200 Maungakotukutuku Road, Paraparau
Legal Description: LOT 20 DP 33688
Project Description: New Totalspan steel portal framed and steel clad garage 11.7m x 10.0m with toilets.

Following checking of your Building Consent it is apparent that further information is required.

Information needed:

BUILDING

1. Please show safety glass in the bathroom windows **Refer to sheet 3**
2. Provide details of the shower door and side panel if glass please note that it is safety glass. **see supporting document for shower details**
3. Provide details of the proposed showers. **see supporting document for shower details**
4. Please provide details of how any pipes penetrating the cladding will meet the requirements of E2 **Refer to sheet 6**

PLUMBING AND DRAINAGE

1. Please provide information for the high-quality pump to be used on the water supply from the water tank. **Refer to supporting document**
2. Please show how the requirements of freezing zones have been considered and addressed for both hot and cold-water supply systems. **Refer to notes on sheet 2**
3. Please confirm that the intended use of this proposed building is a residential garage as the proposed plumbing fixture layout would indicate otherwise. **Owners intended use is residential garage.**

4. Is the water used in this new building intended to be used for consumption if it is provide details of the UV and filtration treatment. **Refer to sheet 2 and see supporting document**
5. Provide evidence that the existing septic tank system is working effectively and that it can cope with the additional loading. **See supporting email from Kapiti Plumbing**
6. Provide details of the extract fans from the bathrooms
and how they are ducted through to the soffit or roof. Show any flashing's that are required **Refer to sheet 6**

We have suspended your application pending receipt of the above information. Please send it to us by 6 September 2021. We are unable to issue your Building Consent until these matters are resolved.

Information can be posted, emailed to Building.Approvals@kapiticoast.govt.nz or dropped in at one of Council's service centres.

If you need more time, have any questions or you would like to discuss this matter, please contact me on (04) 296 4700 or Simon.Copp@kapiticoast.govt.nz referencing Building Consent No 210691.

Yours sincerely



Simon Copp
Building Officer

cc Building Owner

Azure II Alcove Pivot Shower with Low Profile Tray - 1000mm, 900mm

The Azure II Alcove Pivot Shower is available in a range of sizes and wall options. The pivot door is available in white frame finish. The enclosure features a fully reversible door with 6mm toughened safety glass, protected by Englefield CleanLess® glass treatment. The Quick-Fit low profile tray with centre waste features an ultra high 40mm upstand to enhance watertightness for long lasting performance.



Note: Tapware and accessories illustrated in photography are not included

Shower Options

Frame: White.

Size: 1000mm, 900mm.

Wall: Flat, Side Recessed or Corner Contour Plus.

Height: 2000mm (1930mm without tray).

Material/Finish

Frame - powder coated aluminium

Wall - 2mm thick Duracryl acrylic.

Tray - fibreglass reinforced acrylic.

Glass door - 6mm toughened safety glass (AS/NZS 2208 compliant), Englefield CleanLess® treatment.

Included Components

Azure II Pivot Door.

Flat or moulded wall.

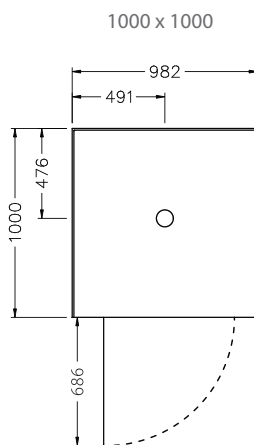
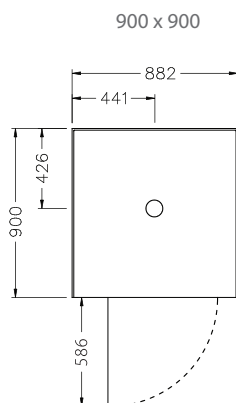
Quick-Fit Low Profile Tray.

Adhesive and Sealant pack.

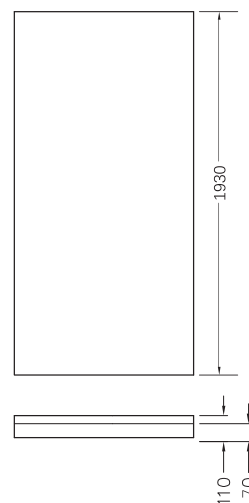
Easy Clean Trap with white lid

Optional Accessories

Corner Contour Plus Premium Shelf Kit with Mirror (White: 24692A-0, Black: 24692A-BL).



Front View (Generic)



Product Codes

900x900x900mm	White
Flat Wall	29616A-3CFW-0
Corner Contour Plus Wall	29616A-3CCW-0
Side Recessed Wall	29616A-3CRW-0

1000x1000x1000mm	White
Flat Wall	21617A-3CFW-0
Corner Contour Plus Wall	21617A-3CCW-0
Side Recessed Wall	29617A-3CRW-0



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plumbingworld

All measurements shown are in millimetres. Sizes are approximate.

June 2020
1415125-A04-B



CEG is an Australasian leader of electric motors and water pumps for the industrial and domestic market.

EDX SERIES

The EDX catalogue details the complete range and specifications of this series.

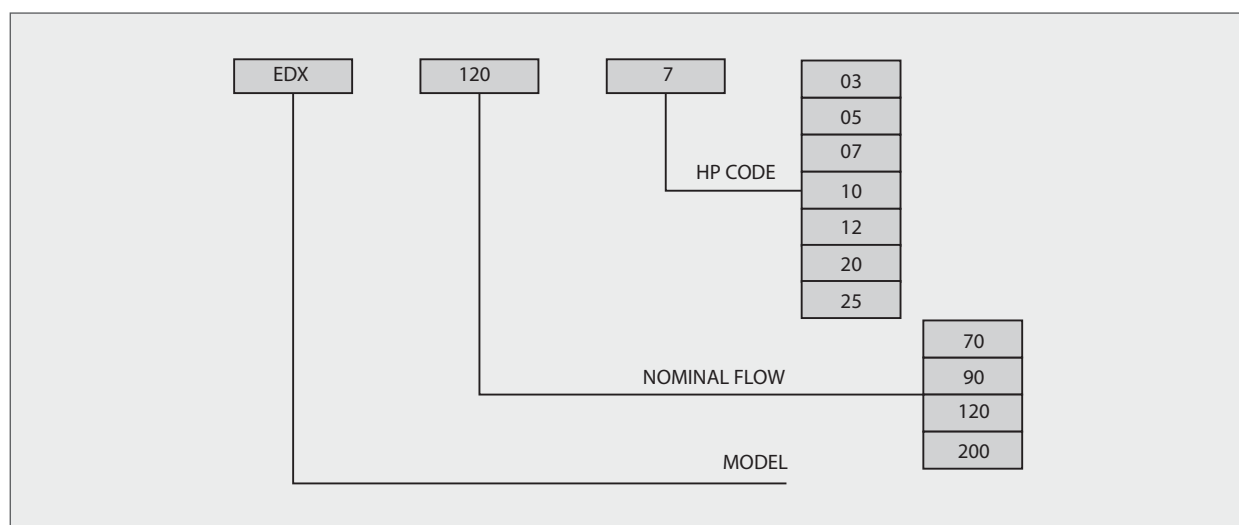
The EDX Series Stainless steel centrifugal pump range covers from 0.25kW right through to 1.85kW. They are available in models EDX 70/03 to EDX 200/25.

The EDX Series centrifugal pumps are available in single and three phase and suitable for both domestic and industrial applications. All components of the pump in contact with pumped liquid are made of stainless steel AISI 304.



APPLICATION

- CIP washing (Cleaning In Place)
- Water supply and circulation for domestic use
- Sprinkler systems
- Composition of surge tank units for pressure boosting
- Bottling of pure or drinking water
- Air-conditioning or cooling system industrial washing and other special application
- Treatment and irrigation
- General water pumping including moderately aggressive liquids





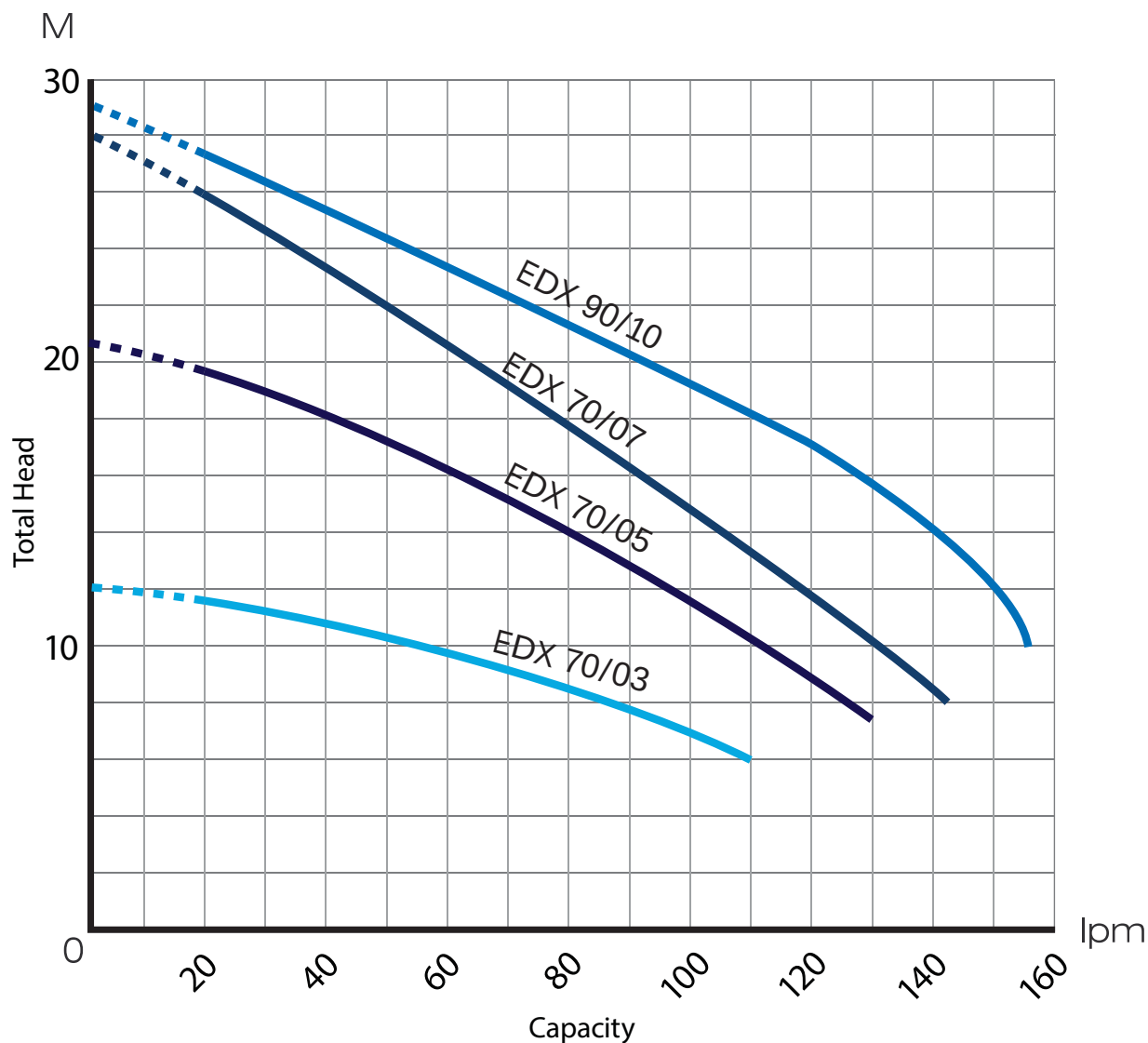
PUMP		
LIQUID HANDLED	TYPE OF LIQUID	Clean water and moderately aggressive liquids
	MAX TEMP	110°C
	MIN TEMP	-10°C
MAX WORKING PRESSURE		8 bar (116 psi)
CONSTRUCTION	IMPELLER	Closed centrifugal type
	SHAFT SEAL	Mechanical Seal (Viton)
	BEARING	Sealed ball bearing
PIPE CONNECTION	SUCTION (DNA)	EDX 70, EDX 120 G 1 ¼" (32mm) / EDX 200 G 1½" (40mm)
	DISCHARGE (DNM)	G 1" (25mm)
MATERIAL	CASING AND CASING COVER	AISI 304
	IMPELLER	AISI 304
	SHAFT SEAL	Ceramic/Carbon/Viton
	SHAFT	AISI 304
	BRACKET	Aluminium

MOTOR		
TYPE	Electric - TEFC	
	Single Phase	Three Phase
NO. OF POLES	2	
ROTATION SPEED	2800 min ⁻¹	
INSULATION CLASS	F	
PROTECTION DEGREE	IP55	
POWER RATING	kW	0.25 ÷ 1.85
	HP	0.3 ÷ 2.5
FREQUENCY	50Hz	
VOLTAGE	230V ± 10%	230/400V ± 10%
CAPACITOR	Built in	-
OVER LOAD PROTECTION	Built in	Provided by the user
CASING MATERIAL	Aluminium	
BASE MATERIAL/ MOTOR SUPPORT	Aluminium	

EDX 70/03 - 90/10

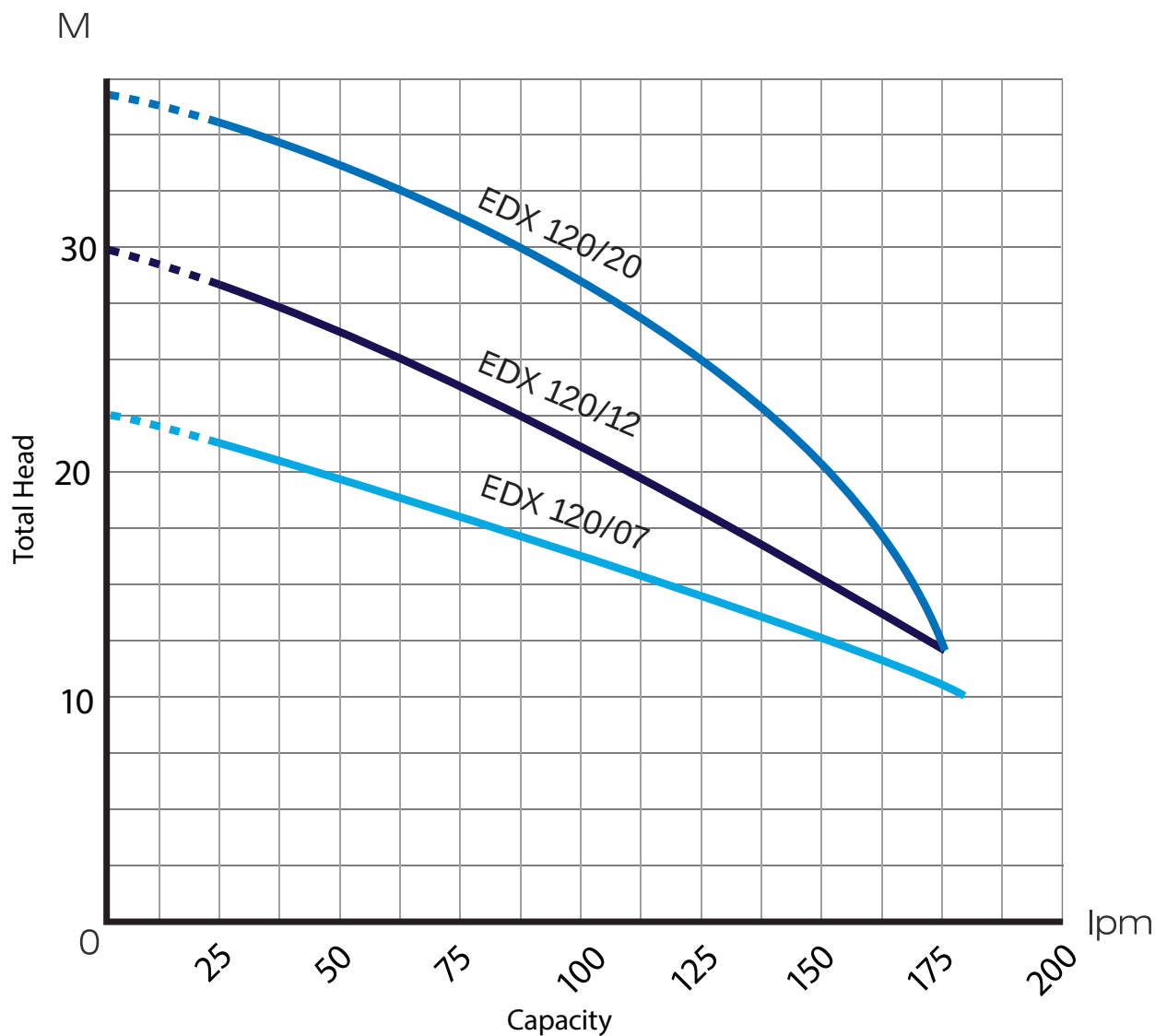
**CEG**

ELECTRIC MOTORS AND PUMPS



MODEL	POWER		CURRENT (A)				MAX HEAD	MAX CAPACITY	WEIGHT
	kW	HP	SINGLE Ø		THREE Ø		m	lpm	kg
			µf	230V	230V	400V			
EDX-70/03	0.25	0.3	10	2	1.4	0.8	12	110	7
EDX-70/05	0.37	0.5	20	4.2	2.5	1.4	20.7	130	9.4
EDX-70/07	0.55	0.75	20	5.2	3.5	2	28	142	10.6
EDX-90/10	0.75	1.0	30	6.2	4.2	2.4	29	155	11.2

MODEL	CAPACITY (Q)							
	l/min m3/h	20	40	60	80	100	120	140
		1.2	2.4	3.6	4.8	6	7.2	8.4
EDX-70/03	H = Total Head	11.5	10.8	9.8	8.5	7	-	-
EDX-70/05		19.7	18.1	16.1	14	11.5	9	-
EDX-70/07		25.9	23.4	20.5	17.5	14.7	11.5	8.2
EDX-90/10		27.4	25.5	23.5	21.5	19.4	17.1	15.8



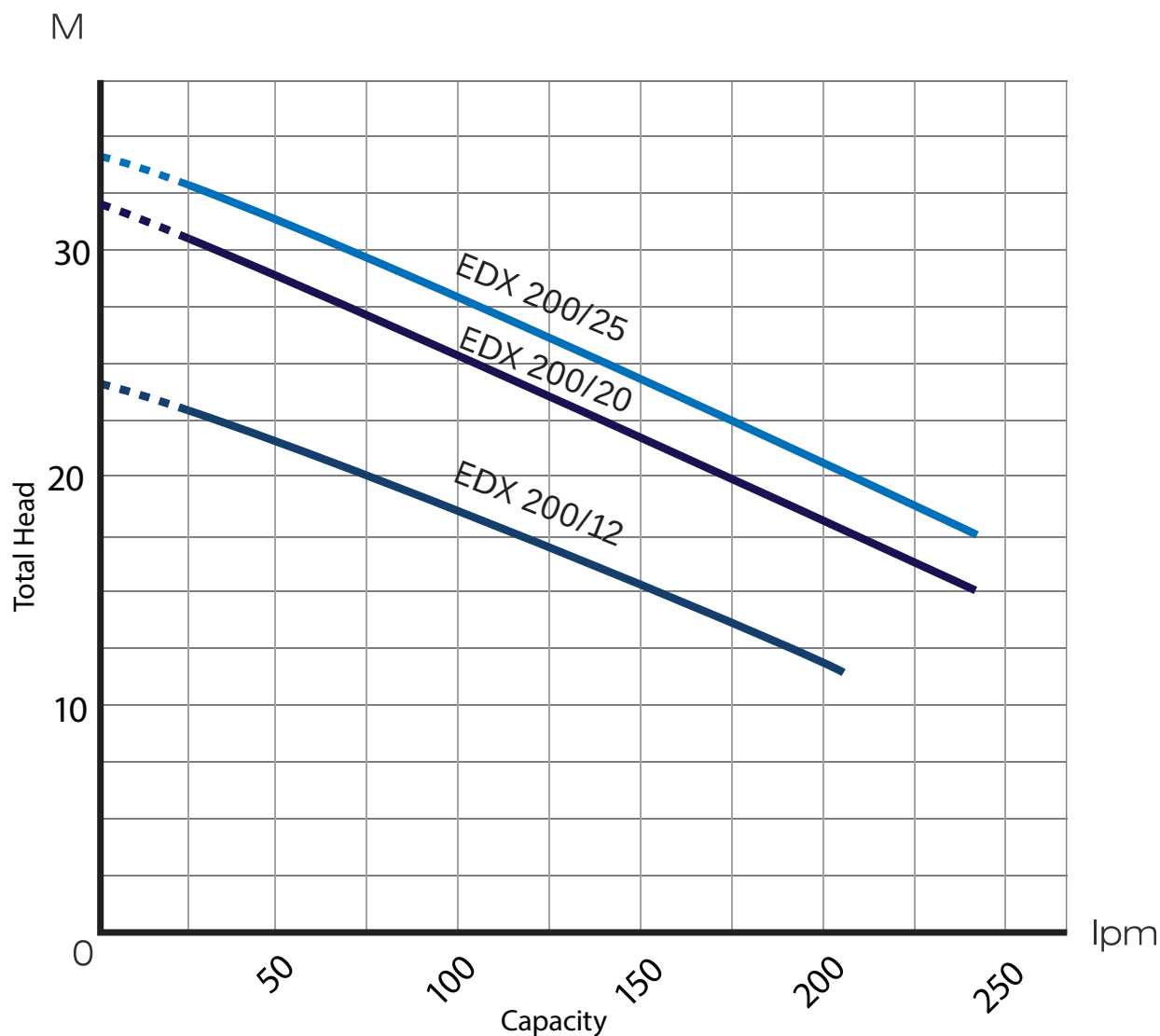
MODEL	POWER		CURRENT (A)				MAX HEAD	MAX CAPACITY	WEIGHT
	kW	HP	SINGLE ϕ		THREE ϕ		m	lpm	kg
			μ f	230V	230V	400V			
EDX-120/07	0.55	0.75	20	5.2	3.5	2	22.5	180	10.3
EDX-120/12	0.9	1.2	25	6.8	5.2	3	30	175	15.6
EDX-120/20	1.5	2.0	50	14	9	5.2	37	175	18.5

MODEL	CAPACITY (Q)							
	l/min	25	50	75	100	125	150	175
	m ³ /h	1.5	3.0	4.5	6	7.5	9	10.5
EDX-120/07	H =	21.3	19.7	18	16.3	14.5	12.5	10.6
EDX-120/12	Total	28.5	26.3	23.8	21.2	18.2	15.2	12
EDX-120/20	Head	35.5	33.7	31.3	28.5	25	20.3	12

EDX 200/12 - 200/25


CEG

ELECTRIC MOTORS AND PUMPS



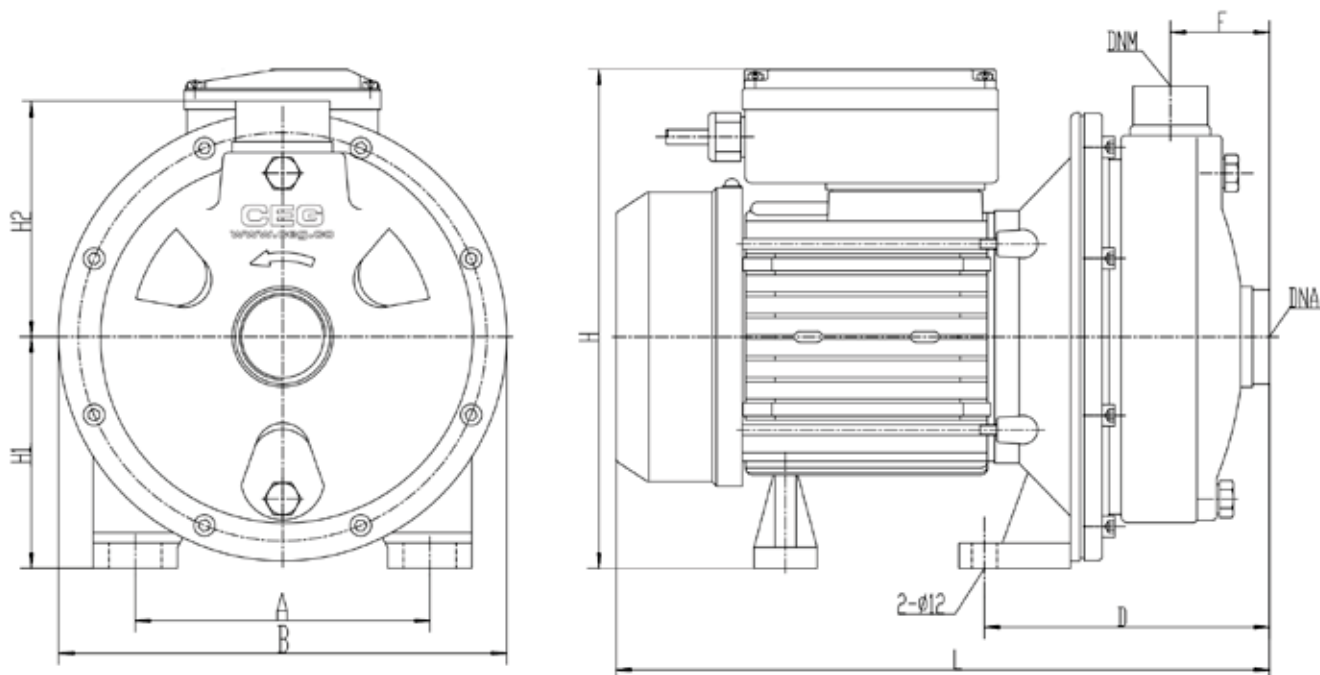
MODEL	POWER		CURRENT (A)				MAX HEAD	MAX CAPACITY	WEIGHT
	kW	HP	SINGLE Ø		THREE Ø		m	lpm	kg
			µf	230V	230V	400V			
EDX-200/12	0.9	1.2	25	6.8	5.2	3	24	210	16
EDX-200/20	1.5	2.0	24	9.6	6.9	4	32	240	19.1
EDX-200/25	1.85	2.5	50	14	9.1	5.3	34	240	21.3

MODEL	CAPACITY (Q)									
	l/min	25	50	75	100	125	150	175	200	225
	m ³ /h	1.5	3.0	4.5	6	7.5	9	10.5	12	13.5
EDX-200/12	H =	23	21.5	20	18.6	17	15.3	13.6	12	-
EDX-200/20	Total	30.5	29.1	27.1	25.3	23.7	21.7	20	18.2	16.3
EDX-200/25	Head	32.8	31.5	29.6	28	26.3	24.5	22.5	20.7	18.7

DIMENSIONS


CEG

ELECTRIC MOTORS AND PUMPS



MODEL	DIMENSIONS (mm)									
	A	B	D	F	L	H	H1	H2	DNA	DNM
EDX-70/03	100	166	118	50	265	196	84	95	G 1¼	G 1
EDX-70/05	140	213	138	49	315	237	110	122	G 1¼	G 1
EDX-70/07	140	213	138	49	315	237	110	122	G 1¼	G 1
EDX-90/10	140	213	138	49	315	237	110	122	G 1¼	G 1
EDX-120/07	140	213	138	49	315	237	110	122	G 1¼	G 1
EDX-120/12	140	213	138	49	337	251	110	122	G 1¼	G 1
EDX-120/20	150	234	140	46	373	255	120	120	G 1¼	G 1
EDX-200/12	140	213	138	49	337	251	110	112	G 1½	G 1
EDX-200/20	140	213	138	49	366	255	110	112	G 1½	G 1
EDX-200/25	140	213	138	49	366	255	110	112	G 1½	G 1

Bryan Wylie

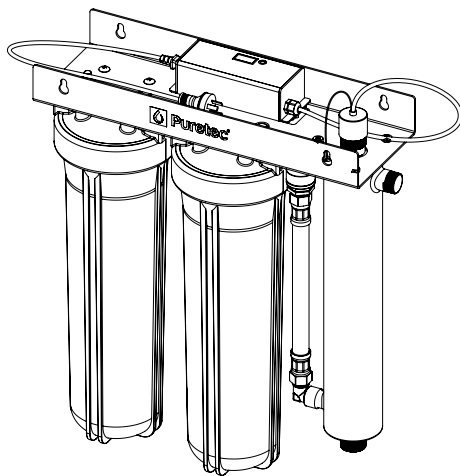
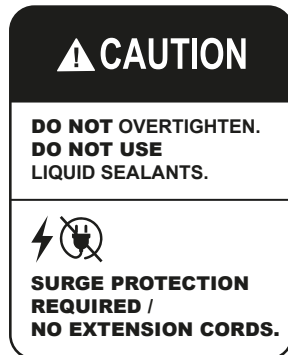
From: Mark Scaife <markscaife450@outlook.com>
Sent: Tuesday, 14 September 2021 8:21 am
To: Bryan Wylie
Subject: Pete Saunders

Septic Tank and effluent system; Having viewed the property at 200 Maungakotukuku Rd Paraparaumu, The current septic system and effluent field is capable to except extra load from adding another bathroom or toilet facility. Would advise to keep regular maintenance on existing septic tank.

Mark Scaife
Kapiti Plumbing



BC210691
Further Information Received
16/09/21



User Guide

WU-UV Series

Filtration & Ultraviolet All-in-One Unit



WaterMark
WMTS103:2016
Certificate No. WM 74593
Australian Certification
Services

What's Inside

Puretec Customer Service

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Product Information	
Distributor:	
Installer:	
Phone:	
Date Installed:	

Puretec Customer Service

Thank you for purchasing a Puretec WU-UV Series Whole House UV Water Treatment System. Your system is a proven performer manufactured from quality materials and components and will give years of 'spring like' water, free of impurities, if maintained and installed properly (refer installation requirements p.6).

Introduction

Puretec WU-UV Series is specifically designed to kill harmful bacteria in untreated water supplies. It uses a natural purification process that's eco-friendly and chemical-free. It includes pre-filtration to ensure that particulate matter does not shield micro-organisms from the UV light.

This system will effectively treat water, depending on the required UV dosage and existing water quality.

The system is designed for mains and rainwater supply but can be used in other situations. For other types of water supply please contact your local Puretec stockist or call our Puretec Customer Service Helpline on 1300 140 140 (Australia) or 0800 130 140 (New Zealand).

The Puretec WU-UV system cartridges and lamp need replacing regularly to maintain optimum performance. This is a simple procedure when following instructions. For replacements contact your nearest Puretec stockist.

Your new WU-UV system incorporates a failure warning feature that warns you of a lamp failure by:

1. An LED warning light
2. An audible alarm

In addition, when the alarm "beeps" on and off, the lamp is due to be changed so effective treatment is maintained. A Green LED indicates that the system is operating correctly.

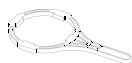
Preparing Your System

Puretec systems are designed to run economically for many years, dependent on the initial installation and periodical maintenance.

Please read all instructions carefully as failures caused by incorrect installation or operation are not covered by warranty.

On removing your WU-UV system from its carton you should check all the components (especially the lamp), to ensure all are present and have not been damaged in transportation. You should have:

1. WU-UV Filter System with Filter Cartridges & Quartz Sleeve Installed.
2. UV Lamp (in cardboard tube)
3. Bag containing Spanner, User Guide & Spring
4. Ballast & Fasteners.



SPANNER



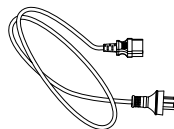
SPRING



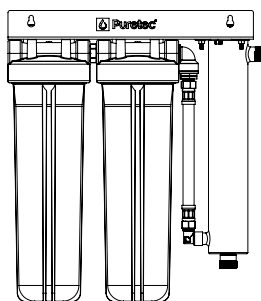
USER GUIDE



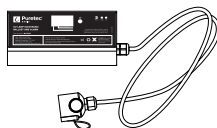
BALLAST FASTENERS



POWER CORD



WU-UV FILTER SYSTEM



BALLAST



UV LAMP

Remove all the packing materials prior to use.

As a responsible manufacturer we care about the environment. We urge you to follow the correct disposal procedure for your product and packaging materials. You must dispose of this product and its packaging according to local laws and regulations.

Positioning Your System

Choose a location with a structurally appropriate mounting position. Allow a chamber length space above the unit for removal of the lamp and sleeve from the Radfire UV system during servicing and 120 mm below the housings for replacing the cartridges and maintenance.

An isolation valve may be installed prior to the WU-UV system to isolate the unit for changing the cartridges, lamps and sleeve.

To protect your WU-UV system make sure the site is frost free and has adequate ventilation. Choose a location with adequate drainage and where water spillage will not cause damage that may occur over time from leaking pipe joints or seals.

Power Surge Protection

An electrical power surge or spike can travel on the supply lines and cause serious damage to your electrical equipment. The Radfire UV Electronic ballast has a fuse (non-replaceable) to protect the circuit. The fuse is not a lightning arrester and may not protect the Radfire if lightning or a very powerful surge hits the unit.

A suitable surge protection device must be installed with this product (not included). Puretec recommends the use of a surge protector or warranty may be voided.

It would usually be sufficient for the surge protector to be installed under the eaves of a house and/or out of the weather, otherwise, it would need to be suitably protected. Ensuring the surge protector is suitably protected from water/moisture is the responsibility of the user. Alternatively a hard-wired outdoor surge protector may be installed by a qualified electrician or an outdoor rated surge protector may also be used.

Order code for surge protectors: PC-SURGE (sold seperately)

Do not use long extension leads as they may cause substantial voltage drop and/or poor lamp performance.

We recommend the use of an RCD or earth leakage circuit breaker on the power supply to your unit.

Installation Requirements

- All Puretec WU-UV models are intended for indoor installation (must be protected from weather, frost, water and have adequate ventilation).
- All Puretec WU-UV models should be protected from harsh environments where overexposure to salt or aggressive chemicals can occur.
- Cold water line only.
- Power supply: AC 240V | 50Hz
- Supply pressure: 300 - 520 kPa. Install pressure limiting valve if pressure exceeds 520 kPa.

Note: For point of entry installations an approved dual check backflow prevention device must be installed.

- Supply temperature 0 - 52 °C (protect from freezing).
- Alternative fittings may be required if being connected to anything other than 25 mm threads.

Note: Only use thread seal tape. Do not use liquid sealant.

- Ensure the water supply flow rate does not exceed the rated maximum of the WU-UV system.
- Ensure the electrical power supply to the WU-UV system is sufficient, allowing for other appliances that may be connected to the circuit e.g. pump, and ensuring it is surge protected, and protected against brown-outs. If in doubt, please consult a qualified electrician.
- Use unions at pipe connections to enable easy removal and servicing. Use sufficient tape to ensure airtight seal and do not over tighten. To prevent strain on the unit always support heavy inlet and outlet pipes.
- Where the water being treated contains unusually high levels of dissolved solids particularly hard water, iron, manganese or biological organisms, a deposit build up on the quartz sleeve may occur over time. Maximum recommended parameters are as follows:

Iron:	less than 0.3 mg/L
Hydrogen Sulfide:	less than 0.05 mg/L
Suspended Solids:	less than 10mg/L
Manganese:	less than 0.05 mg/L
Hardness:	less than 110mg/L

Application warning: minimum water characteristics must be met before installation of this system to ensure proper operation and continuous protection.

- If stated water quality parameters are exceeded; pre-filtration is required as water of this quality can compromise the effectiveness of the UV system. The filters and the sleeve should be cleaned or replaced as required to keep them in good condition.
- If bacteria has been present prior to the installation of this system, we recommend flushing the pipelines with Puretec TankSafe.
- Never connect PVC pipe directly to the unit. **The outlet pipework within 1 metre should be metal or polyethylene.**
- The system should not be used for any other purpose without specific referral to Puretec.
- Heating of water is an integral feature associated with UV systems and if this is deemed a problem we recommend installing a temperature management valve, which is installed inline immediately after the system and releases water periodically. Ordering code is **RI-TMS4**.

Note: This water filtering appliance should only be installed by a fully qualified & licenced plumber.

Installation Note: A water filter system/tap, like any product, has a limited life and may eventually fail. Also sometimes failure happens early due to unforeseen circumstances. To avoid possible property damage, this product should be regularly examined for leakage and/or deterioration and replaced when necessary. A drain pan, plumbed to an appropriate drain or outfitted with a leak detector, should be used in those applications where any leakage could cause property damage, and/or the water supply should be turned off if no one is home/present.

**INSTALLATION SHOULD BE COMPLETED BY QUALIFIED TRADESPEOPLE.
FAULTY OPERATION DUE TO UNQUALIFIED PERSONS WILL RESULT IN VOIDED
WARRANTY COVERAGE.**

Initial Installation Procedure

The Puretec WU-UV Series has 1" [25mm] plumbing connections.

1. Before attempting installation check the unit to ensure the quartz sleeve is intact within the Radfire UV Unit.
2. Locate a suitable position for the WU-UV system remembering to allow 120mm under units with 20" housings and 700mm clearance above the unit for cartridge and lamp changes. A power outlet is required.

Fig. 1

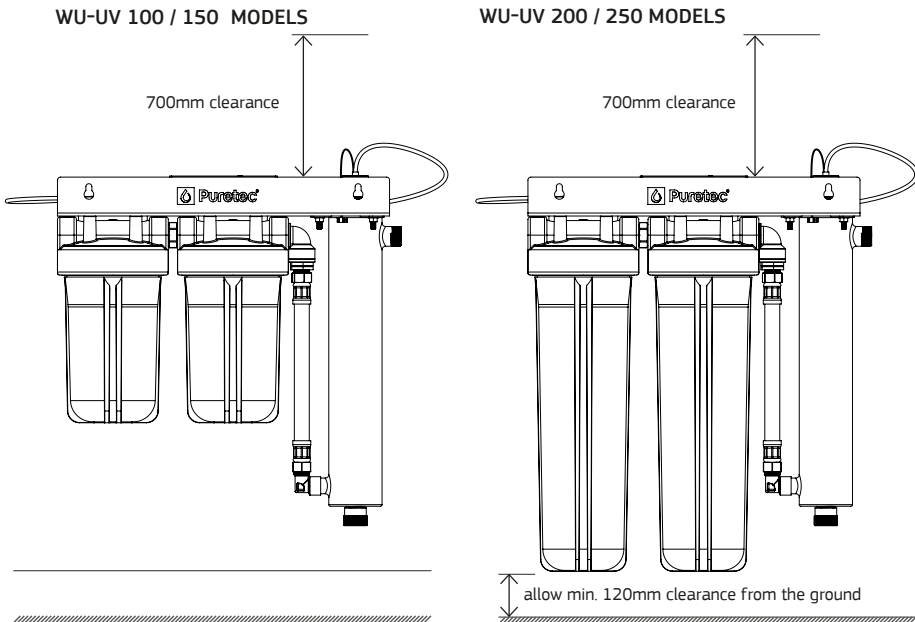
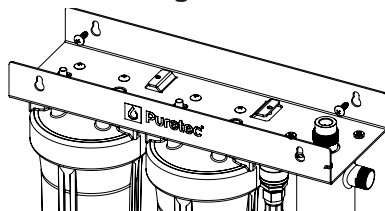


Fig. 2

3. WU-UV units have 4 mounting provisions. 2 key holes at the front and rear of the bracket. Mark the desired position on the wall where the fixings are required to go.
4. Drill the holes and install the anchors (fixing anchors not included).

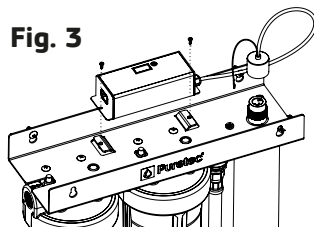


5. Position the system on the wall. Insert and tighten the fixings to hold the system securely to the wall. This unit can be installed from left to right or right to left depending on the water supplies point of entry.

Note: The outlet is always on the UV side of the system.

6. Install the ballast using the two fasteners supplied. This may be mounted in either direction dependent on your point of entry and ease of use.
7. Turn the water off and purge the lines.
8. Plumb inlet and outlet pipe work to the WU-UV unit. The inlet is a 25 mm female and the outlet is a 25 mm male.

Fig. 3



Note: Use thread seal tape, do not use liquid sealants. Never connect PVC pipe directly to the unit. The outlet pipe work within 1 metre should be metal or polyethylene.

9. Check to the top aluminium nut has not been inadvertently loosened during transport, retighten the nut. Insert the spring into the chamber by dropping it into the quartz sleeve. Slowly insert UV lamp into chamber through the hole of the aluminium nut end. Connect the lamp connector to the pins on the lamp. Do not let go of the lamp until the lamp is connected to the socket (see Fig. 4).

Never touch the quartz (glass) and lamp surface as marks or fingerprints may interfere with UV transmission. If lamp is soiled, please clean lamp with an alcohol based cleaner.

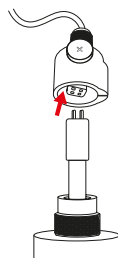


Fig. 4

10. Put safety cap on the aluminium nut end. Connect the ground wire to the chamber as shown in Fig 5. Plug in power connector.
11. Check each housing bowl and ensure they have not become loose in transport. Tighten the bowls with the supplied spanner until firm. DO NOT OVER TIGHTEN.
12. Turn the water on, let the water flow through – opening a tap downstream to flush the unit for 1-2 minutes. Then check the system thoroughly for leaks.

Note: For initial use, wait 3-5 minutes to allow water to pass through the whole unit. Turn on a downstream tap to let water flow through the unit for 2-3 minutes to release air and impurities from the system.

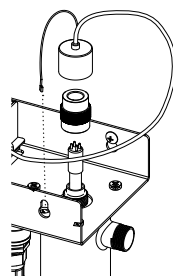


Fig. 5

13. Turn the power on and ensure that the lamp is operating. Make sure that the GREEN LED is illuminated (refer Lamp Replacement Procedure on pg.14).



Operation

- Allow two minutes for the UV lamp to reach full intensity before starting water flow.
- On a new installation where no other form of sterilisation has been in use, we recommend flushing the pipe work with a suitable sanitiser such as TankSafe (for dosage refer to TankSafe product instructions). This solution should be left in the pipework for at least an hour and preferably overnight.

The sanitising solution can be added into the water tank or if necessary added as a shock dose into the bowl of the filter housing of the WU-UV and slowly flushed through the piping. If added as a shock dose the system and pipework should be rinsed thoroughly by opening a downstream tap.

Radfire UV Unit

- Prior to performing any work on the UV steriliser system, always disconnect the power supply and allow the system to cool.

Warning: *Do not look directly into ultraviolet rays emitted from the UV lamp as they will cause serious burns to unprotected eyes.*

- The treated water will seem warm for a short period at first flow. This is because the UV lamp emits heat to kill bacteria. When turning on a tap, let the water run for a short time to purge any warm water.

Radfire UV Unit Operation

Press the mode button on the ballast to cycle the display between lamp life remaining and total running days.

Press and hold the silver button for 15 seconds to reset lamp life timer or until 'reset' appears on the screen.

To silence the 'lamp life end' alarm for 7 days, press and hold on the silver button until 'delay' appears on the screen.

Radfire UV Unit Specifications

AC 240V | 50Hz

Lamp Power: 35W~95W

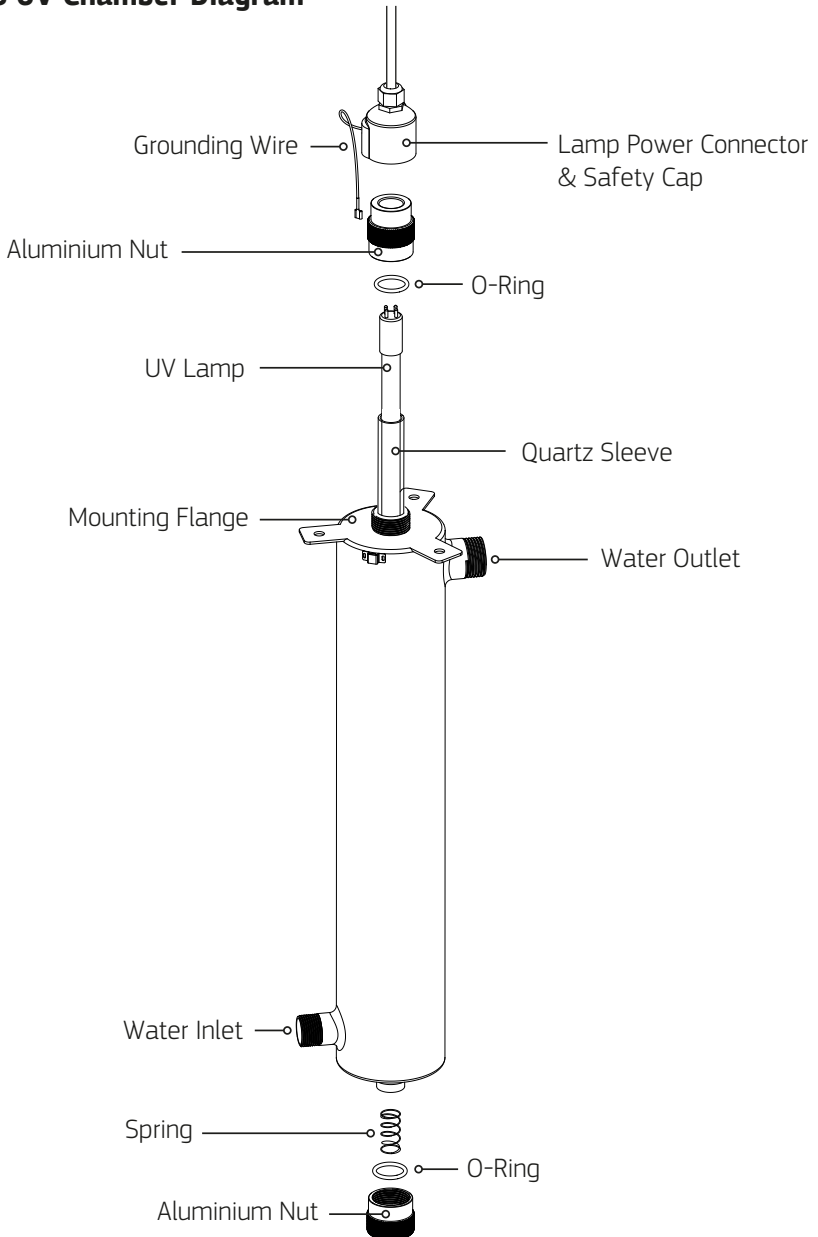
Lamp Current: 0.8A~0.9A

Ambient Temperature: 4~40°C

Lamp Rated Life: 365 days

Caution: Ground the ballast casing to avoid possible high voltage shock hazard

Fig. 6 UV Chamber Diagram



Replacement Parts Guide

To maintain a high quality of purified water, the cartridges will need changing periodically (dependent on water quality and usage).

You can obtain replacement cartridges from your local Puretec dealer. To maintain performance, warranty and Australian Standards use genuine Puretec replacements.

Replacement Parts:	Stage 1 Cartridge*	Stage 2 Cartridge	UV Lamp	Quartz Sleeve
WU-UV100	PP20LD1	MB01LD1	RL6	RQS6
WU-UV150	PP05LD1	ML10LD1-DP	RL6	RQS6
WU-UV200	PP20LD2	MB01LD2	RL6	RQS6
WU-UV250	PP05LD2	ML10LD2-DP	RL6	RQS6

Replace cartridges every 6-12 months. UV Lamps must be replaced annually in order to maintain 99.9% kill rate of bacteria.

**Stage 1 Cartridge is nearest to the water inlet.*

Cartridge Replacement Procedure

To change the filter cartridges please adhere to the following procedure:

- 1 Turn water supply off and relieve pressure by opening a downstream tap or pressing the red pressure relief button on the housings.
- 2 Unscrew the filter bowls clockwise. If the bowl is difficult to undo, the spanner provided may be used to make it easier. Remove old cartridges and dispose in the correct manner.
- 3 Clean bowls with Puretec Housing Sanitiser or detergent and warm water and then rinse thoroughly. Check O-rings for damage and replace if necessary.
- 4 Check the O-ring lubrication and if necessary apply a light coating of food grade silicone lubricant (or similar).
- 5 Remove all packaging from new filter cartridges and insert into housing bowls making sure cartridges are properly seated over the spigot in base of the bowls.
- 6 Hold bowls upright while screwing into the housings in an anti-clockwise direction. Make certain that the spigot in the housing heads is located centrally to the cartridges to make a good seal. Tighten the bowls until firm. Use the spanner to tighten the bowls until firm. **DO NOT OVER TIGHTEN**. Remember to record the model number of the cartridges you use & install date.
- 7 Open a downstream tap to allow air to be released and gently open water supply allowing all air to be purged.
- 8 Allow water to run for 1-2 minutes to flush the system.
- 9 Close down stream tap and check the WU-UV system for leaks. Flush system for 1-2 minutes after any period of non-use more than 2 weeks. For a period of non-use of 6 months or more, it may be necessary to replace the cartridges.

Lamp Replacement Procedure

Prior to performing any work on the UV steriliser, always disconnect the power supply first.

- 1 Turn water off and release the water pressure.



Parts become hot during operation.
Allow to cool before servicing.

- 2 Disconnect the lamp connector and ground wire. Grip the end of the lamp and carefully disconnect the power socket.

Slowly remove the old lamp from the chamber.

- 3 Check the quartz sleeve to ensure it is clean and intact (*see steps 4 - 8 of Quartz Sleeve Maintenance/Replacement Procedure on page 15*).
- 4 Remove the packaging on the new lamp. Slowly insert into chamber through the hole of the aluminium nut end. Connect the lamp connector to the pins on the lamp. Do not let go of the lamp until the lamp is connected to the socket (*see Fig. 6*).

Never touch the quartz (glass) and lamp surface as marks or fingerprints may interfere with UV transmission. If lamp is soiled, please clean lamp with an alcohol based cleaner.

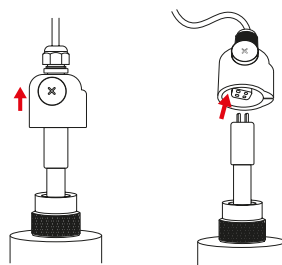
- 5 Secure the lamp connector on the aluminium nut end. Connect the ground wire to the chamber. Plug in power connector, the RED LED will be illuminated (when the lamp life timer is reset in step 7 the LED will turn green).
- 6 Restore water supply and check the unit for leaks. Re-check the unit after 1 hour.

Note: For initial use, wait 3-5 minutes to allow water to pass through the whole unit. Turn on a downstream tap to let water flow through the unit for 2-3 minutes to release air and impurities from system.

- 7 Press and hold the silver button for 15 seconds, when an audible "beep" will sound, indicating that the lamp life timer has been reset for a further 12 months.

We recommend replacing UV lamp annually to ensure high sterilising rate with best water quality. Always keep UV lamp on, as power fluctuation will shorten the service life of the UV lamp.

Fig. 6



Quartz Sleeve Maintenance/Replacement Procedure

To ensure high sterilising rate with best water quality, check sleeve regularly (about every 3 months depending on quality of water source) and see whether there is dirt or substances gathered. Allow the unit to cool before servicing. Prior to performing any work on the UV sterilizer, always disconnect the power supply.

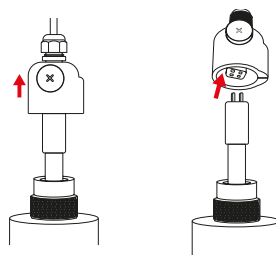
1. Turn off the power and water to the unit and release the water pressure (using the red buttons above the unit's filters).



Parts become hot during operation.
Allow to cool before servicing.

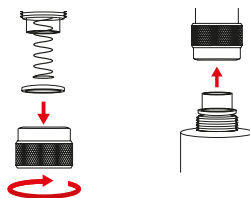
Fig. 7

2. To disconnect the Lamp Connector, detach the earthing wire, grip the Cap and carefully disconnect from the Aluminium Nut.
3. Slowly remove the UV Lamp from the chamber.
4. Unscrew and remove the Aluminium Nut on the top of the chamber. Now remove the Aluminium Nut from the bottom of the Stainless Steel Chamber, securing the Spring and Quartz Sleeve.



Important: Be aware that the water within in the chamber will be discharged through the bottom of the Stainless Steel Chamber once the bottom Aluminium Nut is removed.

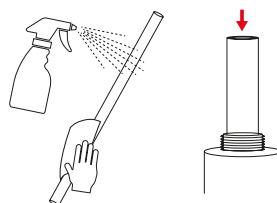
Important: The Quartz Sleeve may come through the base of the chamber after the bottom Aluminium Nut is removed, hold the bottom of the Quartz Sleeve and remove the bottom O-Ring.



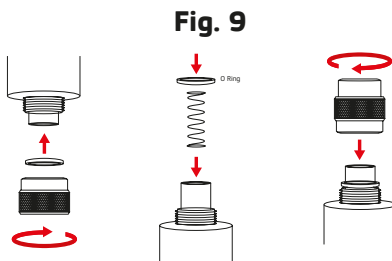
5. Slide the Quartz Sleeve through and out of the top of the chamber.

Fig. 8

6. Clean the Quartz Sleeve with Puretec Quartz Sleeve Cleaner. If the glass will not come up clear/clean you will need to install a new replacement Quartz Sleeve. If you need to purchase a new sleeve, for now continue with the next steps and install the new sleeve once you have received it.



7. Placing an O-Ring on the new or cleaned sleeve, leaving approx. 1 inch from the end and Slide the Quartz Sleeve into the top of the chamber and carefully slide down through the bottom opening of the chamber until the o-ring sits on top of the chamber as shown.

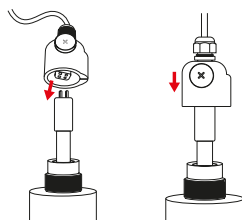


8. Place the bottom O-Ring on the Quartz Sleeve and screw the bottom Aluminium Nut on to the chamber. Gently tap the sleeve on the top to ensure that it's sitting firmly on the bottom Aluminium Nut and then screw the top Aluminium nut back on and drop the spring into the quartz sleeve as shown.
9. Slowly insert UV lamp into chamber through the hole of the Aluminium Nut at the top of the chamber. Connect the lamp connector to the pins on the Lamp Socket. Do not let go of the lamp until the lamp is securely connected to the socket.

Never touch the quartz (glass) and lamp surface as marks or fingerprints may interfere with UV transmission. If lamp is soiled, please clean lamp with an alcohol based cleaner.

10. Connect the four pins on the end of the lamp to the socket in the white cap. Slowly insert UV lamp into the top of the chamber. Connect the earthing wire to the chamber and plug in the ballast power connector and turn the power on.

Fig. 10

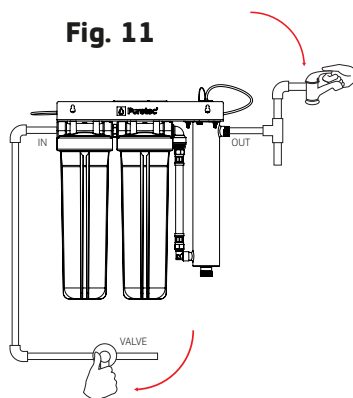


To reset the count-down timer, press and hold the silver button for 15 seconds until 'reset' is shown on the screen and a single beep is heard. The display will show 365 days and the green 'on' LED will be lit.

11. Restore the water supply and check the unit for leaks. Turn on a downstream tap to let the water flow through the unit for 2-3 minutes to release any air and impurities from the system. Check the unit again after 1 hour for leaks.

Note: For initial use, wait 3-5 minutes to allow water to pass through the whole unit. Turn on a downstream tap to let the water flow through the unit for 2-3 minutes to release any air and impurities from system.

Fig. 11



SYMPTOMS	POSSIBLE CAUSE	POSSIBLE SOLUTION
No power.	- Ballast and/or breaker tripped. - Ballast damaged.	- Reset ballast and/or breaker. - Replace ballast.
Ballast or breaker repeatedly trips.	- Connection between lamp and lamp plug is wet. - Short-circuit in the electrical assembly.	- Clean and dry lamp pins and lamp plug, check unit for leaks or condensation. - Replace ballast.
Leak at inlet or outlet.	- Threaded pipe fittings are leaking. - Cracked heads.	- Clean threads, reseal with Teflon tape and retighten. - Replace heads.
Leak detected from area of UV chamber.	- Condensation of moist air on cold chamber (slow accumulation). - O-ring damaged, deteriorated or incorrectly installed. - Lamp/sleeve assembly not properly installed (too tight or not tight enough).	- Control humidity or relocate unit. - Inspect and replace if deteriorated. - Check O-rings are in place. - Tighten assembly hand-tight.
System is operating but water tests reveal bacterial contamination.	- Equipment downstream of UV system is acting as a breeding ground for pathogens. - Pathogens are residing in the distribution lines post-UV. - Lamp reached the maximum lamp life.	- Ensure UV is the last piece of treatment equipment. Ensure all distribution lines have been disinfected - see page 10. - Remove any pipe dead-ends and flush with chlorine. - Replace lamp on or before lamp counter reached 0.
Lamp timer does not read anything.	- Unit is unplugged. - No power at AC power outlet. - Power cord is damaged. - Power surge caused damage to electrical assembly.	- Plug unit into AC power outlet. - Replace fuse or reset breaker. - Replace power cord. - Replace ballast.

cont. over page.

Leak detected at filters.	• O-ring damaged, deteriorated or incorrectly installed. • O-rings dry. • Filter cartridge not centered.	• Remove the sump, wipe the O-ring and threads clean. Ensure the O-ring is fitted properly, then reinstall. • Lubricate O-rings with suitable sealant. • Remove sump, check for cartridge damage, re-assemble ensuring cartridge is centered.
Red lamp blinks and buzzer sounds.	• Lamp has reached or nearing the maximum lamp life. • Lamp is disconnected or faulty.	• Replace lamp on or before lamp counter reached 0. • Check lamp connection, replace if needed.
Display flashing.	• Power interruption.	• Reset ballast.
Error Code 'A3' on ballast.	• Ballast countdown has reached 0, lamp life expired.	• Replace lamp.

Warranty

Any claim under this warranty must be made within 1 year of the date of purchase of the product. This product is warranted to be free of defect of material and workmanship for 1 year from date of purchase. 1 year warranty is 1 parts and labour, Excludes consumables. To make a claim under the warranty, take the product and proof of purchase to place where you purchased the product, and they will lodge a Warranty Request with Puretec.

Puretec will pay your reasonable, direct expenses of claiming under this warranty. You may submit details and proof of your expense claim to place of purchase for consideration.

The warranty only applies if the product was used and/or installed in accordance with the user guide and/or installation instructions. This warranty is given in lieu of all other express or implied warranties and manufacturer shall in no circumstance be held liable for damages consequential or otherwise or delays caused or faulty manufacturing except as excluded by law.

Applicable to all above, is that the warranties need to be approved by Puretec to ensure product was not incorrectly used, installed or claimed. False and incorrect claims will be pursued at Puretec's discretion, including chargeable inspection and labour costs incurred.

Warranty/Australia

This warranty is given by Puretec Pty Ltd, ABN 44 164 806 688, 37-43 Brodie Road, Lonsdale SA 5160, telephone no. 1300 140 140 and email at sales@puretec.com.au.

This warranty is provided in addition to other rights and remedies you have under law: Our goods come with guarantees which cannot be excluded under the Australian Consumer Law. You are entitled to replacement or refund for a major failure and to compensation for other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

Warranty/New Zealand

This warranty is given by Puretec Ltd, Reg. No 4464398, PO Box 875 Cambridge 3450 NZ, telephone no. 0800 130 140 and email at sales@puretec.co.nz.

This warranty is provided in addition to other rights and remedies you have under law: Our goods come with guarantees which cannot be excluded under the Consumer Guarantees Act. You are entitled to replacement or refund for a major failure and to compensation for other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

**AUSTRALIA**

P 1300 140 140

E sales@puretec.com.auW puretec.com.au**NEW ZEALAND**

P 0800 130 140

E sales@puretec.co.nzW puretec.co.nz

GENERAL INFO

SPECIFICALLY DESIGNED FOR RAINWATER SUPPLY

Provides safe and bacteria-free water for your whole house.

The Puretec WU-UV Series systems are a filtration and ultraviolet all-in-one unit with a reversible mounting frame. These economical systems are designed for both mains and rainwater supplies, and effectively eliminate 99.9% of bacteria in your water including E. coli. They can be installed from left to right or right to left depending on the water supplies point of entry. Enjoy the peace of mind knowing you have safe, purified water at every outlet in the house.

FEATURES & BENEFITS

- Quick and easy plug-and-play installation.
- Reversible mounting frame for easy installation.
- Kills 99.9% of E.coli, Giardia and Cryptosporidium cysts utilising Puretec's ultraviolet technology, a natural process that's completely eco-friendly and chemical-free.
- Filtration and ultraviolet all-in-one unit.
- Turns your tank and/or mains water into pure, safe, delicious drinking water.
- Made from lightweight, durable materials.
- Equipped with a lamp count-down timer and failure alarm (audible & visible).



WU-UV100

10", 1" connection,
NZ Model



WU-UV150

10", 1" connection,
AU Model



WU-UV200

20", 1" connection,
NZ Model



WU-UV250

20", 1" connection,
AU Model

TECHNICAL DATA

Ordering Code	WU-UV100 (NZ)	WU-UV150 (AU)	WU-UV200 (NZ)	WU-UV250 (AU)
Replacement parts and cartridges:				
Stage 1 filtration:	PP20LD1	PP05LD1	PP20LD2	PP05LD2
Stage 2 filtration:	MB01LD1	ML10LD1-DP	MB01LD2	ML10LD2-DP
UV lamp, 46W	RL6			
Quartz sleeve:	RQ56			
Power supply:	220-240 VAC / 50 Hz			
Water temperature range:	0-52°C (protect from freezing)			
Supply pressure:	300 - 520 kPa (Install Pressure Limiting Valve if pressure exceeds 520 kPa)			
UV dosage @40mJ/cm2:	54 Lpm			
UV dosage @30mJ/cm2:	70 Lpm			
UV dosage @16mJ/cm2:	130 Lpm			
Flow rate:	60 Lpm	60 Lpm	110 Lpm	110 Lpm
Connection:	1" BSP [25mm]			
Warranty:	1 year^			

Important Note: Use only genuine Puretec replacement cartridge. Flow rate @30mJ/cm² is the industry standard for drinking water.

ADDITIONAL INFORMATION

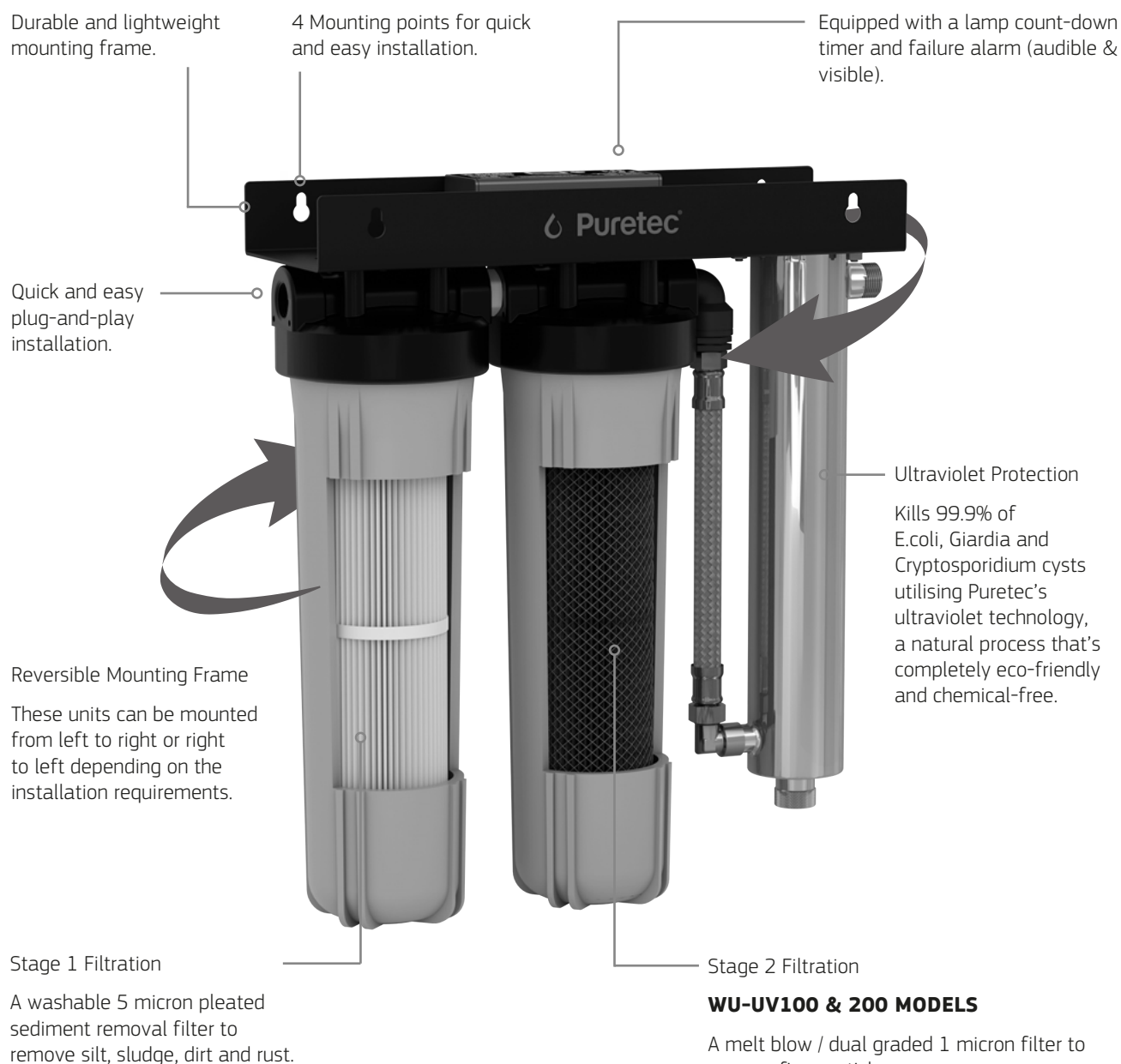
Where the water being treated contains unusually high levels of dissolved solids particularly hard water, iron, manganese or biological organisms, a deposit build-up on the quartz sleeve may occur over time. Maximum recommended parameters are as follows:

Iron:	less than 0.3 mg/L
Hydrogen Sulfide:	less than 0.05 mg/L
Suspended Solids:	less than 10mg/L
Manganese:	less than 0.05 mg/L
Hardness:	less than 110mg/L

Important Note: WU-UV Series needs to be installed where it is protected from the weather. For outdoor installation, use the Hybrid P / G Series. Warranty is 1 year parts and labour. Excludes consumables. The effectiveness of any water treatment system is affected by variances in incoming water quality. Do not use with unknown or contaminated water that does not fit the parameters of the system/product as specified by Puretec, for further assistance, contact the Puretec Customer Service Helpline on 1300 140 140 (AU) or 0800 130 140 (NZ).

DIAGRAM & FILTRATION TECHNOLOGY

The Puretec WU-UV Series systems are an economical filtration and ultraviolet all-in-one unit with a reversible mounting frame that effectively eliminate 99.9% of bacteria in your water. Ensuring you always have safe and pure water at every outlet.



WU-UV250 model illustrated.

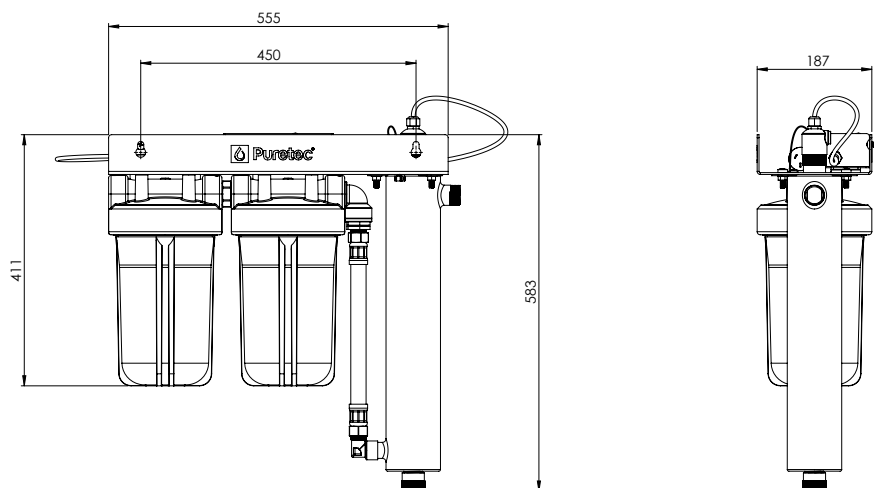
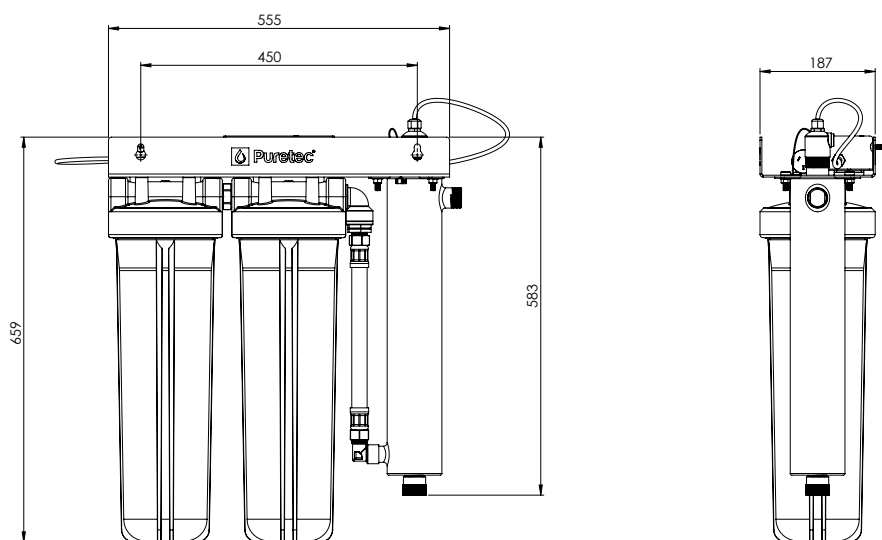
WU-UV100 & 200 MODELS

A melt blow / dual graded 1 micron filter to remove fine particles.

WU-UV150 & 250 MODELS

Multi purpose carbon filter cartridge reduces bad taste, odour and chemicals in your water.

PRODUCT DIMENSIONS Measurements in Millimeters (mm)

WU-UV100 & 150 MODELS

WU-UV200 & 250 MODELS

WaterMark

 WMTS103:2016
 Licence No. WM 74593
 Australian Certification Services

Note:

1. No claims can be made based on the specifications and images in this document. The design, technology, colours, features and prices are subject to change.
2. This document and all its contents are copyright protected. All rights are reserved, particularly alteration, translation and reproduction using electronic systems.
3. ^Warranties in this document cover parts for 1 year and include cover for parts and labour where applicable, subject to approval.

Important Note: WU-UV Series needs to be installed where it is protected from the weather. For outdoor installation, use the Hybrid P / G Series. The effectiveness of any water treatment system is affected by variances in incoming water quality. Do not use with unknown or contaminated water that does not fit the parameters of the system/product as specified by Puretec, for further assistance, contact the Puretec Customer Service Helpline on 1300 140 140 (AU) or 0800 130 140 (NZ).



Producer Statement and Maintenance Guide

Promax

LIQUID MANAGEMENT SOLUTIONS

AS/NZS 4766 BMP No 657394
Australian/New Zealand Standards**Date:** 01.04.2018**Product Code:** XPBT25000**Product Description:** Promax Xpress Water Tank - 25,000 litres

Product Specifications: 3660mm Dia x 2800mm High with 660mm ID Manhole Riser and Vented Lid 50mm BSP threaded Base Outlet, Weight 388kg
Complies with AS/NZS 4020, AS/NZS 2070 and AS/NZS 4766 (INT) Potable Water Standards and Chemical Storage.

Product Uses: Potable Water Storage
Retention/Detention Stormwater Management
Waste Storage

BC210691
Received by
Kapiti Coast District Council
26/07/2021

Producer Statement: In line with today's focus on Ecologically Sustained Development, Green Building Initiatives and 5 Star Ratings, Promax is committed to supplying quality Liquid Storage and Handling Solutions

Promax plastics manufactures these tanks to a high standard of quality. This Promax Tank may be used for retention/detention and/or the storage of potable water, storm water and waste water complying with the appropriate NZ Standards.

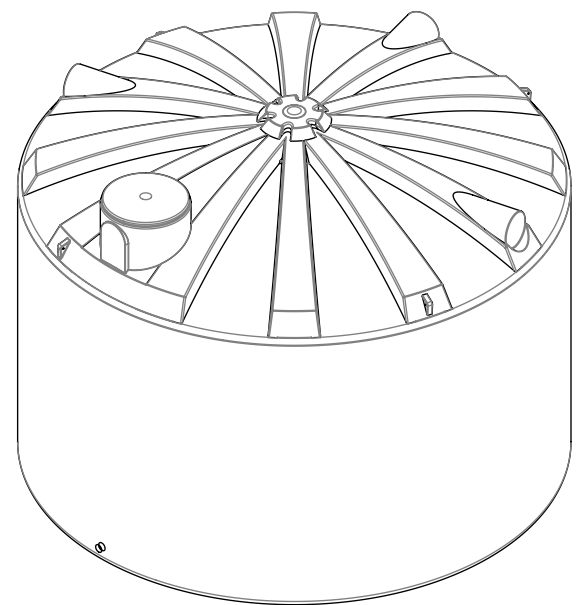
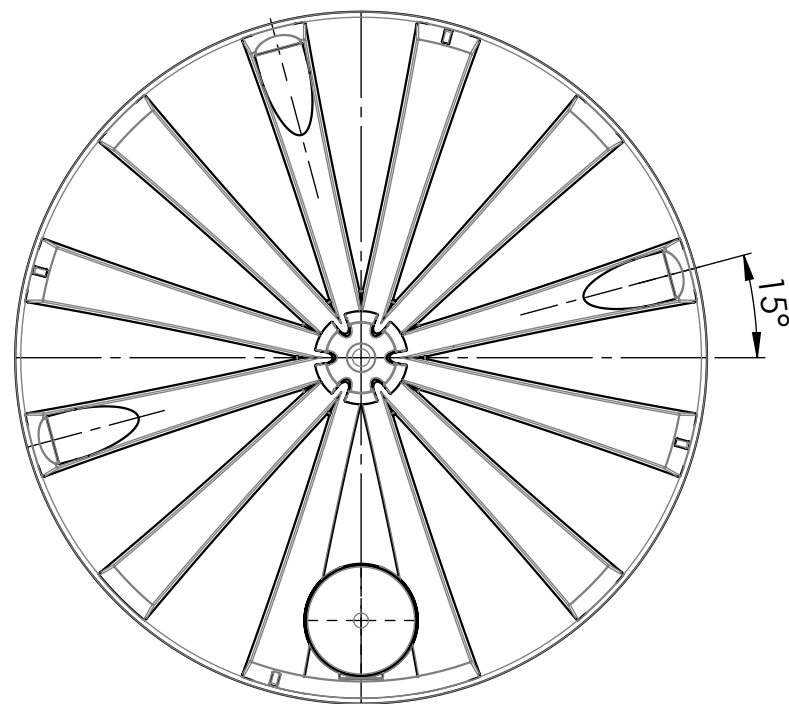
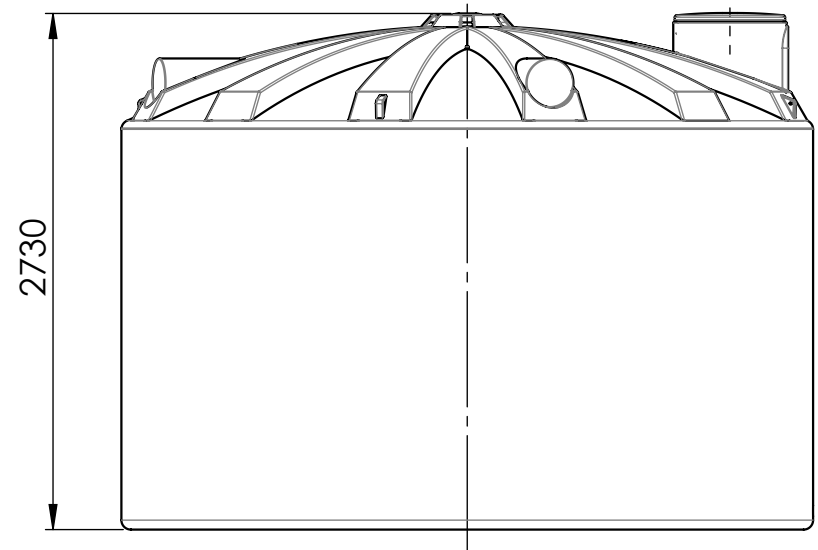
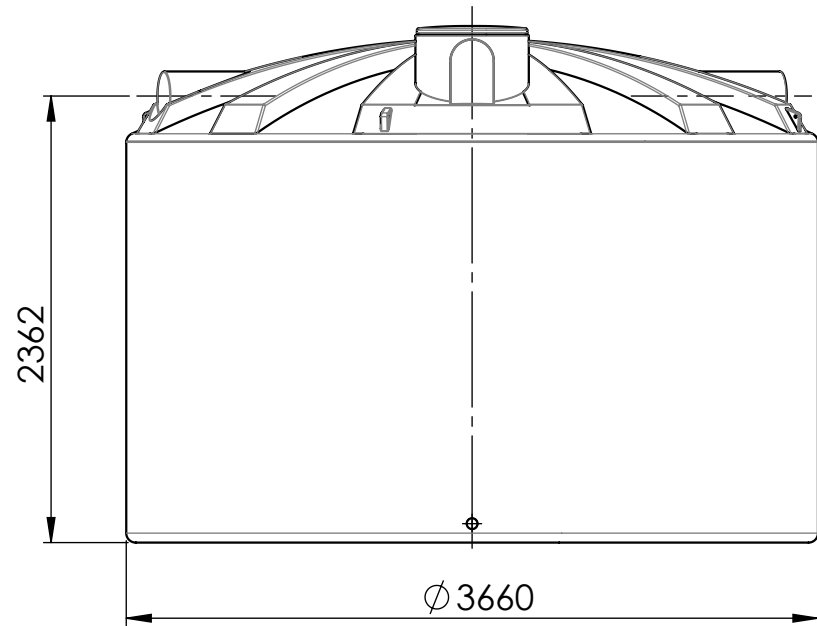
Promax Plastics confirms that if these tanks are installed according to Good Management practices set out in the Promax Installation Guide, they will perform as stated throughout their intended life.

Maintenance Guide:	Description	Action	Frequency
	Tank Stability	Tank must remain level, foundation must not become eroded or the tank lift	Monthly
	Tank Lid	Remains securely fitted	Bi-monthly
	Inlet/Outlet Fitting	Remains securely fitted with no leakage	Bi-monthly
	Pump	Check Pump, if fitted, for inlet screen blockages	Bi-monthly
	Sediment Build Up	Remains lower than base outlet – if outlet flow becomes restricted remove sediment with vacuum truck. Re-attach tank lid securely.	Half yearly or as necessary

Please note: Entry into this tank is at owners risk.

Authorised By: Promax Engineered Plastics Limited
PO Box 749, Kerikeri 0245,
New Zealand

BC210691
Received by
Kapiti Coast District Council
26/07/2021



UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:				FINISH: N/A		DEBUR AND BREAK SHARP EDGES		DO NOT SCALE DRAWING		REVISION	
								 ENGINEERED PLASTICS			
								TITLE: 25000 LTR TANK			
								DWG NO.		A3	
								SCALE:1:40		SHEET 1 OF 1	



Promax Tank Installation Guide

Failure to properly install your tank will void the warranty.

Promax Enduro and Xpress Tanks are only to be used for storing water at ambient temperatures.

Delivery

Delivery is to the road entrance of your property. Access to the property is at the driver's discretion.

Installation is purchasers responsibility.

Site Preparation

Correct Tank site preparation, as well as preservation is the sole responsibility of the purchaser.

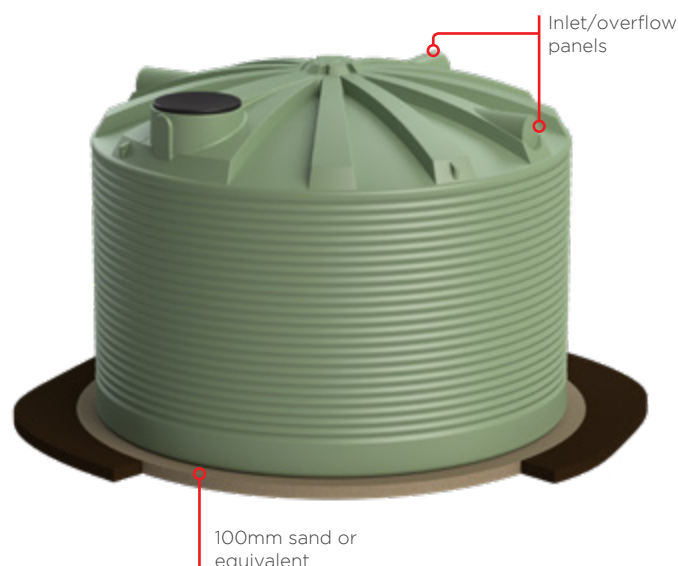
- Ensure that the tank site is flat and level, free from rocks or stones and any foreign matter that may damage the tank's base.
- Ensure the tank site is well compacted, if fill is used to prepare or level the site.
- Ensure that the tank site is at least 300mm larger in diameter than the tank.
- 100mm layer of Sand or fine gravel is to be used to bed the tank.
- If a sand base is used, a retaining cover must be provided to prevent sand from washing away after installation.
- Where ground water is present, ensure sufficient drainage is installed around base of tank eliminate risk of hydraulic uplift.

Flexible hose must be used



Plumbing

- Overflow pipework must match the capacity of the incoming pipework. Failure to install an overflow on your tank will void the warranty.
- Pipe overflow away from the base of tank to prevent erosion.
- Use the appropriately sized holesaw to cut the hole for inlets and outlets.
- Pipework between tanks or rigid structures must include a flexible hose to allow for expansion & contraction.



Promax Enduro tanks 10000-30000L May be buried to 1m in ground if the following instructions are adhered to.



Hamish Wells

Civil Engineer

Engineer Ltd

CPEng#186323 Civil & Structural CMEngNZ

CIVIL
STRUCTURAL
INFRASTRUCTURE
LAND DEVELOPMENT
ENVIRONMENTAL

202 Otaki Gorge Rd, Otaki
PO Box 188, Otaki 5512
Hamish Wells
M: 0274 459 757
E: hamish@engenr.co.nz

TEST DATE: 21/06/2021

REPORT DATE: 22/06/2021

BC210691
Received by
Kapiti Coast District Council
26/07/2021

SITE

SOIL INVESTIGATION

REPORT FOR

200 MAUNGA KOTUKUTUKU ROAD

PARAPARAUMU

Prepared For: TOTALSPAN

Hamish Wells

Civil Engineer

Engineer Ltd

CPEng#186323 Civil & Structural CMEngNZ

CIVIL
STRUCTURAL
INFRASTRUCTURE
LAND DEVELOPMENT
ENVIRONMENTAL

202 Otaki Gorge Rd, Otaki
PO Box 188, Otaki 5512
Hamish Wells
M: 0274 459 757
E: hamish@engenr.co.nz

Site suitability soil investigation test report

in accordance with NZS 3604:2011 Timber framed buildings - Section 3 "Site requirements"

Site Data

Address: 200 Maungakotukutuku Road
Town: Paraparaumu
Post code 5032

Client Data

Client: Totalspan
Email: nweyland@totalspan.co.nz
Mobile: 021 758 937
Landline:

Legal Description

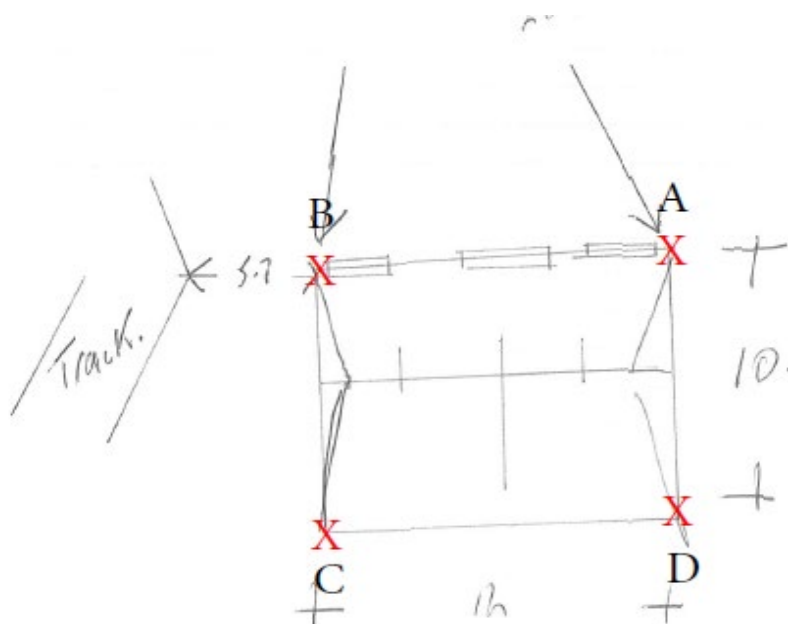
Lot: 20 **DP:** 33688
TA: Kapiti Coast District Council
RA: Greater Wellington Regional Council

Test Date: 21/06/2021
Test by RGW
Report Written by RGW

Desktop Study

Wind Zone	TBA
Corrosion zone	C
Earthquake zone	3
Site subsoil class	D
Topography	Residential site with moderate contours
Basic soil type	Greywacke sandstone with thin residual soil overlying
NZGS data	Tt- Rakaia Terrane, Grey Sandstone- Mudstone Sequences
Liquefaction Hazard	Negligible

Site Plan showing test locations

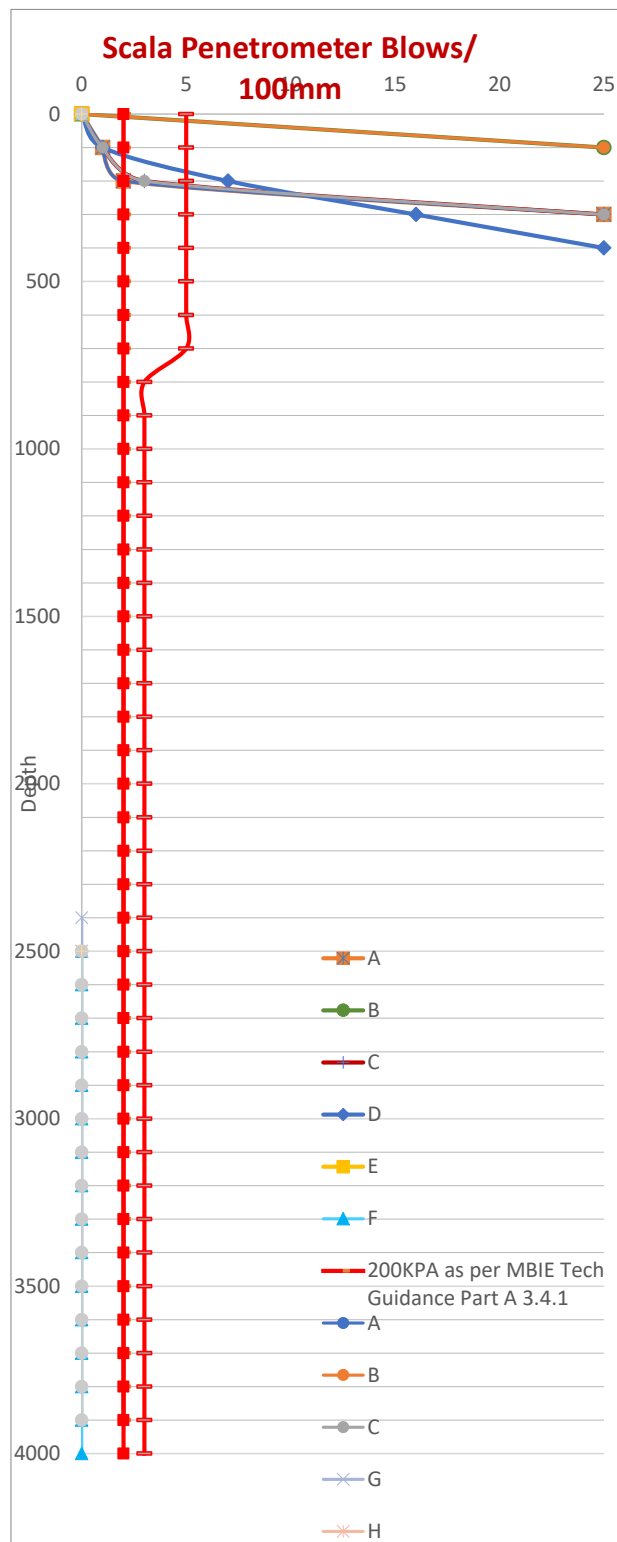


SCALA PENETROMETER FIELD SHEET - SUMMARY

Property: 200 Maungakotukutuku Road**BY** RGW**Client:** Totalspan

Depth (m)	A	B	C	D	E	F	G	H	I	J	3604
0	0	0	0	0	0	0	0	0	0	0	5
100	1	25	1	1							5
200	2		3	7							5
300	25		25	16							5
400				25							5
500											5
600											5
700											5
800											3
900											3
1000											3
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3100											3
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3400											3
3500											3
3600											3
3700											3
3800											3
3900											3
4000											3

Yellow is less than NZS 3604:2011 allows



Test data analysis and comments for 3604:2011 type foundations systems

Symbol	Meaning
Y	Yes
N	No
Blank	Not applicable
P	Part
A	All
SED	Specific Engineering Design

Typical 3604:2011 compliant foundation systems

Timber subfloor			Slab on ground	
Standard piles	Driven timber piles	Ring Foundation	3604 Type	Non SED RibRaft

1 Do the test results comply with NZS 3604:2011 Section 3 Site requirements?

Y	Y	Y	Y	Y
---	---	---	---	---

2 Reasons / causes of non compliance?

- Peat or other organic materials
- Clays or/and soft silts
- Shallow poorly consolidated sands
- Deep poorly consolidated sands
- Uncertified fills
- Unstable ground, adjacent slips, erosion
- Proximity to banks
- Ground water issues
- Other issues see summation para 7

3 Is specific foundation design required ?

- Part of the site
- All of the site

N	N	N	N	N

4 Summation

Site tests comply with NZS 3604:2011 Sec 3 Good ground requirements for standard foundation types and RibRaft type buildings on waffle slabs. All topsoil and organic material to be removed from proposed building platform prior to construction.

Hamish Wells

Civil Engineer

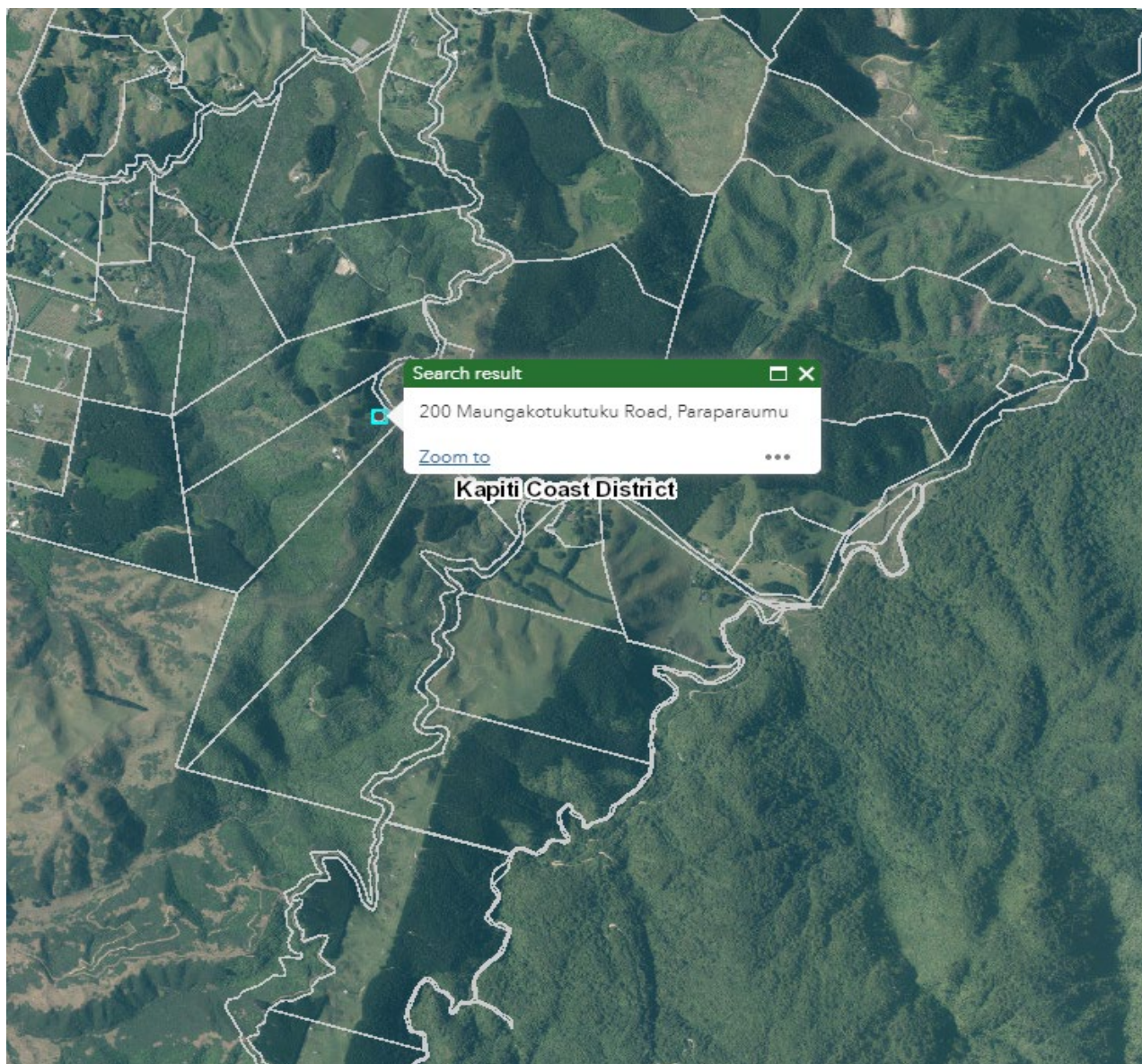
Engineer Ltd

CPEng#186323 Civil & Structural CMEngNZ

CIVIL
STRUCTURAL
INFRASTRUCTURE
LAND DEVELOPMENTS
ENVIRONMENTAL

202 Otaki Gorge Rd, Otaki
PO Box 188, Otaki 5512
Hamish Wells
M: 0274 459 757
E: hamish@engenr.co.nz

Liquefaction Zones GNS/KCDC



This site has been identified by GNS NZ as being a NEGLIGIBLE risk in regards to consequential seismic liquefaction. Mitigation through foundation design will not be required for this proposed building site.

Site Report Explanation Notes

Soils/Foundation Site Requirements

This testing was carried out in general accordance with the requirements of NZS 306:2011 Section 3 "Site Requirements". This general procedure was used as the end use of the site is residential housing and the method is the most appropriate for that use.

- 1) **NZS 3604:2011 Section 3 Site Requirements** part 3.3 Test Method for soil bearing capacity, part 3.3.7 Ultimate Bearing Capacity defined ground as having 300kpa Ultimate bearing capacity (UBC) of not less than 300kpa as below.

3.3.7.1

The soil below the underside of the foundations shall be assumed to have an ultimate bearing capacity of not less than 300 kpa when:

- a) none of the following is encountered below the depth of the footing at any test site:
 - (i) Organic topsoil
 - (ii) soft or very soft peat
 - (iii) soft or very soft clay
 - (iv) fill material, except where a certificate of suitability has been issued under NZS 4431
- b) Scala penetrometer tests conducted in accordance with 3.3.2(a), where the number of blows per 100mm depth of penetrometer below the underside of the proposed footing at each test site exceed.
 - (i) Five down to a depth equal twice the width of the widest footing
 - (ii) Three at greater depths; and
 - (iii) Providing the set blow is relatively uniform, the number of blow per 100mm may be obtained by averaging the number of blow for depths not exceeding 300mm and
- c) Comparisons of the results at all test sites show that conditions are closely similar at each test site.

Based on a standard slab on ground foundation width of 240mm for a masonry veneer clad dwelling (either 1 or 2 story) from figure 7.15 NZS 3604:2011 section 7 floors - Masonry veneer foundation edge detail - in situ concrete and a minimum in ground embedment of 300mm for the concrete foundation, the minimum requirements in terms of Scala blows/100mm penetration are:

Existing ground level to - 300mm	not applicable to the foundation but relevant to the slab see section 7.5 re granular base for slab, minimum 5 blows/100mm penetration in the in granular fill recommend
-300mm to 800mm below existing ground level	5 blows/100mm
-800mm + depth	3 blows/100mm

2) **Analysis of the scala for each lot in term of paragraph 4 above (NZS 3604:2011 compliance):**

- a) If site test comply with the requirements of NZS 3604:2011 section 3 "site requirements" and it is reasonable to assume, Not guaranteed, that based on the test carried out, are suitable for standard foundation designs in accordance with NZS 3604 or non specific Rib raft slab on ground foundation systems.
- b) If tests do not comply with NZS 3604:2011 section 3 "site requirements" and specifically designed foundations (typically driven timber piles) or ground improvement of the existing site soils (which are readily compacted) to provide a complying building platform will be required.

- 3) **Ribraft foundation system: Ribraft** Ribraft systems are being increasingly specified for domestic construction and nonspecific design Ribraft foundations (ie in compliance with firth Ribraft manual 2012) have a **lower soil soil bearing requirement** than standard slab on ground system in compliance with NZS 3604:2011 (note: all other aspects of the requirements. Section 3 must be complied with). This lower soil bearing strength requirements is based on building type and the Ribraft ability to better distribute load to the ground than conventional 3604 foundation solutions. There are four building types identified in the Ribraft design manual and their relative minimum foundation soil requirements are as below:

Building identifier

Building Type	Description	Ground Floor External walls	Second Story External walls
A	Single Story	Light	
B	Single Story	Heavy	
C	Two Story	Light	Light
D	Two Story	Heavy	Light

Scala Penetrometer Blows Required For Determining Ultimate Bearing Capacity

Building type	Min. blows per 300mm depth
A	6
B	7
C	8
D	9

In blows/100mm consistent with the appended Scala tests

- a) For type A 2 blows/100mm minimum
- b) For type B 2.33 blows/100mm minimum
- c) For type C 2.67 blows/100mm minimum
- D) For type D 3 blows/100mm minimum

This report is provided solely for the use of District Council and the consent holder. Should you require any further information please contact us directly.

BC210691
Received by
Kapiti Coast District Council
03/11/23
via Simpli



STATEMENT PIPED SERVICES AND PLUMBING STACKS

Construction Review

Send or deliver this form to: Kapiti Coast District Council,
175 Rimu Road, Paraparaumu 5032
Private Bag 60601, Paraparaumu 5254
For enquiries, phone 04 296 4700 (Toll Free: 0800 486 486)

TO BE COMPLETED BY THE INSTALLER

Issued by: *Kapiti Plumbing*

Registration number: *12724*

In respect of Piped Services installed in accordance with G12/AS1 as shown on the approved plans or as per the attached amended plan and Sanitary Plumbing Stacks installed in accordance with G13/AS1 or AS/NZS 3500.2.2

Installed at: *200 Maungakotukutuku Rd*

Building Consent No: *210691*

As a certified plumber, currently holding an annual practicing license, certify that I, or personnel under my control, have carried out the installation of the above system and I believe on reasonable grounds that the installation complies with the New Zealand Building Code. Both hot and cold systems have been pressure tested for a period of 15 minutes at a pressure of 1500 kPa.

Name: *Mark Scate*

Signature: *[Signature]*

Address: *9 Ma Grath Ave*

Date: *25.10.23*

Phone: *9027586*

Fax:

Mobile: *021 565546*

Email: *markscate450@Outlook.com*

Kapiti Coast District Council Office Use Only

Statement author authenticated and current registration verified. Verification and Registration checked through public register on www.pgdb.co.nz.

Date:

Name:

Signature:

STATEMENT

DRAINAGE WORK INSTALLED

Construction Review



Send or deliver this form to: Kapiti Coast District Council,
175 Rimu Road, Paraparaumu 5032; Private Bag 60601, Paraparaumu 5254
For enquiries, phone 04 296 4700 (Toll Free: 0800 486 486)

TO BE COMPLETED BY THE INSTALLER

Issued by: Kapiti Plumbing

Registration number: 12724

Tick applicable



In respect of: Stormwater Drains installed in accordance with E1 AS1 as shown on the approved plans or as per the attached amended plan.



In respect of: Private Sewer Drains installed in accordance with G13 AS2 or AS/NZS 3500 .2.2 as shown on the approved plans or as per the attached amended plan.

Installed at: 200 Maungakotuku

Building Consent No: 210619

As a certified drainlayer, currently holding an annual practicing license, I certify that I, or personnel under my control, have carried out the installation of the above system and I believe on reasonable grounds that the installation complies with the New Zealand Building Code.

Name: Mark Scaife

Signature: M Scaife

Address: 9 Ma Grath Ave

Date: 25.10.23

Phone: 9027586

Fax:

Mobil: 021 565546

Email: mark.scaife450@outlook.com

Note: Fully dimensioned as built drain plan to be supplied.(scale 1:100)

Drains may be laid and backfilled without inspection provided that the drain is left under test with a min of 1.0 m head and the inspection at the lateral left exposed.

Kāpiti Coast District Council Office Use Only

Statement author authenticated and current registration verified. Verification and Registration checked through public register on www.pgdb.co.nz.

Name:

Signature:

Date:

GASFITTING CERTIFICATE OF COMPLIANCE – GAS SAFETY CERTIFICATE

Client Name:
Reference / Job #: ICP (if known):
Address of work:
Suburb: Town / City:

Description of gasfitting work: (If different gasfitting work was done by different people, state who did what gasfitting.)

Gas supply pressure kPa Risk classification (tick one) ☐ Low-Risk ☒ General ☐ High-risk

Gas type (tick one) ☐ Natural gas ☒ LPG ☐ Biogas ☐ Other (specify)

The work has been done in accordance with a certified design: ☐ Yes ☒ No

☐ Copy of certified design attached (or provide reference)

The work relies on manufacturer's instructions: ☐ Yes ☒ No

☐ Copy of manufacturer's instructions attached (or provide reference)

The work has been done in accordance with means of compliance (specify):

☒ Yes – AS/NZS 5601.1 sections 3 to 6 ☒ Yes – AS/NZS 5601.2 sections 3 to 9 ☐ No

Were any other standards required for compliance?

☐ Yes (specify) ☒ No

Parts of the gas installation that are safe to connect to a gas supply?

☒ All ☐ Parts (specify)

Date or dates on which the work was done:

Name and registration number of anyone who carried out work under supervision:

☒ I confirm that I am satisfied that the work described in this certificate of compliance has been done lawfully and safely, and that the information on this certificate is correct.

Certifier name:

Registration number: Certificate Issue Date:

Certifier Signature:

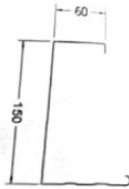
Outline any additional information attached:

☒ I confirm that the work described in this Gas Safety Certificate, and the installation or part installation is connected to a gas supply and is safe to use.

Name of person who connected the work:

Registration number: Date of completion:

Signature:



GUTTER PROFILE

GUTTER CROSS SECTION AREA	= 9000mm ²
MAX PLAIN AREA OF ROOF DISCHARGING INTO GUTTER	= 58.82m ²
FROM PG 6, E1/AS1, MAX ROOF PLAN AREA FOR 0.25° PITCH WITH 9000mm ² GUTTER = 68m ²	

STORM WATER DRAINAGE NOTES:

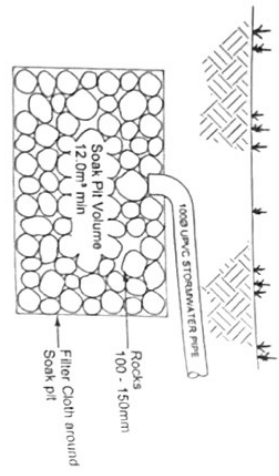
- ALL DRAINAGE IS DIAGRAMATIC ONLY AND MUST COMPLY WITH BEST TRADE PRACTICES.
- ALL WORK TO BE INSPECTED BEFORE BACKFILLING.
- AS BUILT PLAN REQUIRED FROM REGISTERED DRAIN LAYER UPON COMPLETION OF DRAINAGE.
- ALL PLUMBING AND DRAINAGE SHALL COMPLY WITH NZBC OR AS/NZS 3500.3:2018 AND LOCAL AUTHORITY.
- ALL STORM WATER DRAINAGE WORK TO COMPLY WITH NZBC OR AS/NZS 3500.3:2018
- LAY IN TRENCH TO 150mm MAX FALL ON APPROVED BEDDING, LEVEL OF 150mm BELOW GROUND LEVEL.
- INSTALL INSPECTION POINTS AT CHANGES OF DIRECTION.
- POSITION GULLY TRAP END ON 150mm MAX FALL.
- INSTALL THE APPROPRIATE TRAP ON 150mm MAX FALL.
- DIAMETER OF DISCHARGE PIPE AND CONNECT BELOW GRADE LEVEL ON THE GULLY TRAP.
- INSTALL 800mm TERMINAL VENT TO DRAINAGE SYSTEM IN THE POSITION INDICATED, PIPE TO EXISTING SEWER SYSTEM.
- SECURELY FIX RIG TO STRUCTURE WITH PROPRIETARY BRACKETS AT 1200mm CENTRES VERTICALLY (MAX).
- CONNECT DOWN PIPES LAY 100mm UPVC STORM WATER PIPES IN 1:50 GRADED TRENCHES ON APPROVED BEDDING AND CONNECT EACH DOWN PIPE AT BASE WITH 95° ONE PIECE BEND AND NEOPRENE COLLAR.
- TERMINATE PIPE WORK AT EXISTING WATER TANK.
- ENSURE ALL DRAINAGE WORK IS PROPERLY TESTED AND INSPECTED PRIOR TO BACKFILLING AND COMPACTION OF TRENCHES.
- WASTE PIPE FROM HAND BASIN TO BE 65mm² UPVC.
- WASTE PIPE FROM GULLY TRAP TO BE 100mm² UPVC.
- MINIMUM GRADIENTS AS FOLLOWS:
650 1:40
1000 1:60

INTERNAL PLUMBING NOTES:

- LAG ALL WATER SUPPLY PIPES THAT ARE OUTSIDE THE THERMAL ENVELOPE.
- UV WATER FILTER TO BE FITTED TO WATER SUPPLY.
- ALL PLUMBING AND DRAINAGE SHALL COMPLY WITH NZBC OR AS/NZS 3500.3:2018 AND LOCAL AUTHORITY.
- WASTE PIPE FROM HAND BASIN TO BE 65mm² UPVC.
- MINIMUM GRADIENTS AS FOLLOWS:
650 1:40
1000 1:60

FOG WATER NOTES:

- ALL DRAINAGE IS DIAGRAMATIC ONLY AND MUST COMPLY WITH BEST TRADE PRACTICES.
- ALL PLUMBING AND DRAINAGE SHALL COMPLY WITH NZBC OR AS/NZS 3500.3:2018 AND LOCAL AUTHORITY.
- WASTE PIPE FROM HAND BASIN TO BE 65mm² UPVC.
- MINIMUM GRADIENTS AS FOLLOWS:
650 1:40
1000 1:60



SOAK PIT DETAIL
NOT TO SCALE

SOAK PIT SIZE	
9.5 Soak pit base (m ²)	
4.5 Length (m)	
3.1 Width (m)	
1.3 Height (m)	
12.00 Soak pit Volume (m ³)	



SOAK PIT CALCULATION

1. Enter the soak rate of the ground over 3 minute duration period	
75 enter the average water level drop in mm over 3 minute period	SR
2. Assess the storm water catchment area	
17.6 enter the surface catchment area	
2.90 enter the local rainfall intensity (NWA high intensity Rainfall System V4)	
0.90 enter run off coefficient (Trelle + E.V.N.H)	
1.41 Run off discharged from catchment to soak pit in (m ³)	RC
3. Determine base area of the soak pit	
9.5 enter base area m ²	Asp
4. Calculate soakage allowance into the bottom of the hole	
3.85 soakage allowance for the base of the soak hole	Ysoak
5. Volume of diameter type soak pit required	
4.55	Vsoak
6. Volume required for rock filled soak hole	
12.00	Vsoak

PROPOSED WATER TANK

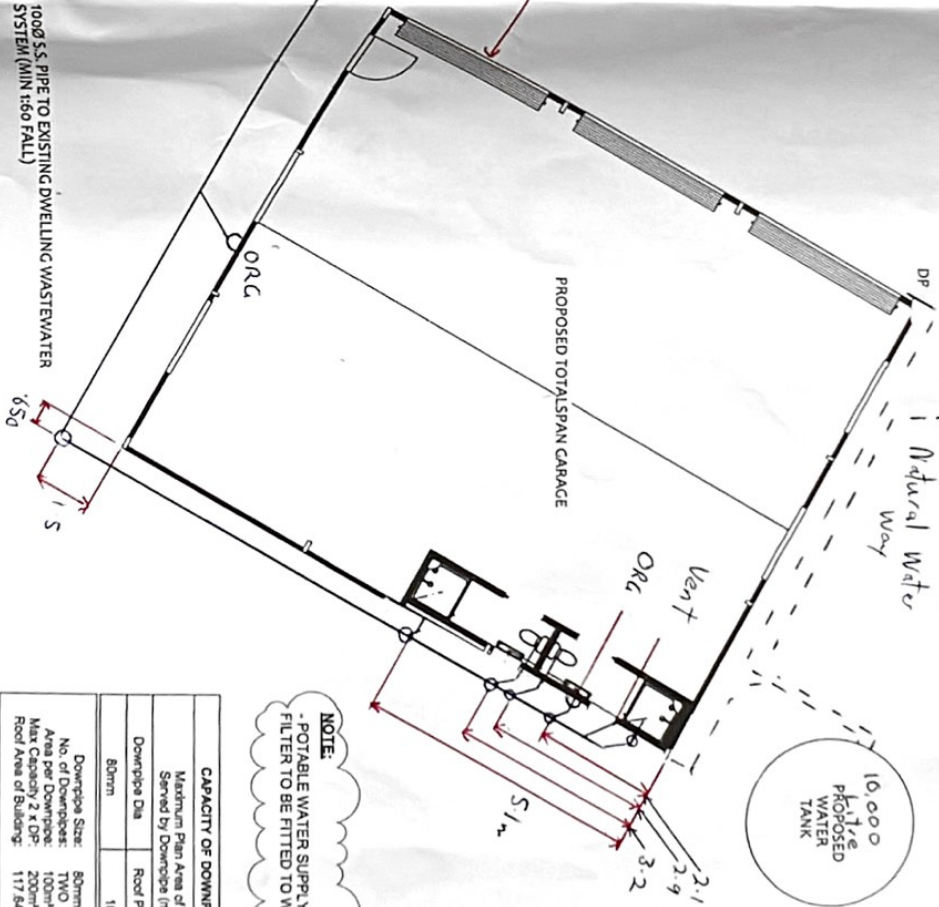
- PROMAX 25000LIT
- REFER TO PROMAX INSTALLATION GUIDE

1000 S.S.W. PIPE INTO PROPOSED WATER TANK (MIN 1150 FALL)

Over Flow to Natural Water

16,000 LITRE PROPOSED WATER TANK

PROPOSED TOTALSPAN GARAGE



NOTE:
- POTABLE WATER SUPPLY - UV WATER FILTER TO BE FITTED TO WATER SUPPLY

CAPACITY OF DOWNPIPES	
Maximum Plain Area of Roof Downpipe Dia	Roof Pitch 0.25°
Bottom	100mm ²

Downpipes Size:	80mm
No. of Downpipes:	TWO
Area per Downpipe:	100mm ²
Max Capacity 2 x DP:	200mm ²
Roof Area of Building:	117.84m ²

New building stormwater disposal into proposed water tank with overflow to soak pit	
Drain Spec	100mm UPVC
Maximum Gradient of drain	1 : 120

DRAINAGE PLAN

SCALE 1:100

MARSDEN ELECTRICAL LTD

Lindsay Marsden / 027 443 4004

P.O. Box 13-164, Johnsonville, Wellington, NZ

lindsay@marsdenelectrical.co.nz

Registration number: E104

**ELECTRICAL CERTIFICATE of COMPLIANCE & SAFETY CERTIFICATE**

CERTIFICATION ID:

13/03/23-01

This form has been designed to be used by licensed electrical workers to certify that installations or Part installations under Part 1 or Part 2 of AS/NZS 3000 are safe to be connected to the specified system of electrical supply.

Address:

322B Paekakareki Hill Rd, Porirua

Customer:

Morgans Golf

Type of Work:



Additions



Alterations



New work

The prescribed electrical work is:



Low risk



General



High-risk

Description of Work:

Relocate 'Green Keeper' Submain to new shed. Install new Sub board. Install new lights with 2 switches. Install circuit for Sump pump and WP HP in open bay. Install Hotpoint adjacent Switchboard.

I certify that the completed prescribed electrical work to which this Certificate of Compliance applies has been done lawfully and safely, and the information in the certificate is correct in that the installation, or part of the installation.

Select those that apply:

Has been installed in accordance with the specified certified design¹

Has an earthing system that is correctly rated (where applicable)



Contains fittings that are safe to connect to a power supply

Relies on a supplier Declaration of Conformity¹Relies on a manufacturer's instructions¹

Has been satisfactorily tested in accordance with the Electricity (Safety) Regulations 2010



Is safe to connect

Electronic/Other reference:

Certifier's Signature:

Date:

13/03/23

¹ Attach or reference. If it is impractical to attach a copy of a particular manufacturer's instructions, or of any certified design or supplier declaration of conformity, provide a reference to where the documents can be found, in a readily accessible format, by electronic means.

Test ResultsPolarity
(independent earth):

ok

Insulation Resistance:

Earth Continuity:

ok

Bonding:

Fault Loop Impedance:

I certify that the installation, or part of the installation, to which this Electrical Safety Certificate applies is connected to a power supply and is safe to use. Certifier's Name: Lindsay Marsden Registration number: E104

Certifier's Signature:

Date:

13/03/23

CUSTOMER COPY - THIS IS AN IMPORTANT DOCUMENT AND SHOULD BE RETAINED FOR A MINIMUM OF 7 YEARS.

This certificate also confirms that the electrical work complies with the building code for the purposes of Section 19(1)(e) of the Building Act 2004.



Statement of Compliance with the NZ Building Code

Consent No: 210691

ISSUED BY: Kapiti Coast District Council

PROJECT

Site Address: 198-200 Maungakotukutuku Road, Parapara
Legal Description: LOT 20 DP 33688
Work Description: New Totalspan steel portal framed and steel clad garage 11.7m x 10.0m with toilets.
Building Category: R1

OWNER

Name(s): Pete Saunders
Address: 200 Maungakotukutuku Rd, Paraparaumu

- [P] Application for CCC received and accepted
- [P] Consent description accurate and reflects amendments (if relevant).
- [P] Confirm owner named on Building Consent application is current owner
- [NA] Confirm new owner details and evidence of ownership are correctly documented
- [P] Confirm all required inspections completed and documented in GoGet
- [NA] If inspection(s) have been missed, have they been compensated for?
- [NA] If supervision was required for any inspection - did it occur?
- [P] Work in accordance with approved consent and approved amendments
- [NA] Have any notices to fix been uplifted?
- [P] Supporting documentation required in building consent addenda received
- [NA] Quality assurance documentation
- [NA] Restricted building work
- [NA] Owner Builder declaration supplied
- [NA] Additional information required and received
- [NA] Earthquake prone building
- [NA] Swimming Pool details updated
- [NA] Warnings and Bans
- [NA] Supervision review
- [P] Code Compliance Certificate Sign Off
- [NA] All Amendments have been approved & issued
- [NA] Where applicable, the compliance schedule and compliance schedule statement has been updated or new statement issued
- [P] Approve to issue Code Compliance Certificate if all fees paid
- [NA] Approve to issue Certificate of Acceptance if all fees paid
- [NA] Approve to issue Certificate of Public Use if all fees paid

NOTES:

Inspections Prepaid:
Inspections Done:

LICENSED BUILDING PRACTITIONERS:

On review of the documentation and inspection notes it can be considered on reasonable grounds that all work has been completed in compliance with the building consent.

Signed: 

Date: 15 November 2023

Name: Anthony Wilson

Position: Building Officer

GoGet Inspection Audit Report

Consent No: **210691**

Applicant: **Totalspan Wellington - Horowhenua**

Site Address: **198-200 Maungakotukutuku Road, Paraparau**

Work Type: **New Totalspan steel portal framed and steel clad garage 11.7m x 10.0m with toilets.**

Inspection Type: **Drainage**

Inspection Outcome: **Pass**

Inspected By: **Gareth McCullagh**

Inspection Date: **11 April 2022 8:27 a.m.**

Duration: **30 minutes**

Inspection Element	Status
General	Pass
Pipe diameter Sewer only 100mm	Pass
Bedding material bedded in peametal chip	Pass
Gully trap	Pass
Connections/angles swept junctions and inspection points in	Pass
Branch length	Pass
Direction/fall Good natural fall to existing	Pass
Holding water	Pass
Terminal vent Not assessed at this inspection	N/A
Registration number 12742	Pass
Stormwater sumps	N/A
Elevated drainage	N/A
Soak pit	N/A
Agent/owner written approval	N/A
non compliance discussed onsite	N/A
Next Inspection required	N/A
Other All aspects relating to this inspection have been assessed and checked against the consented documentation and deemed to comply.	Pass



Taken at 8:24 AM on Monday 11/04/2022



Taken at 8:25 AM on Monday 11/04/2022



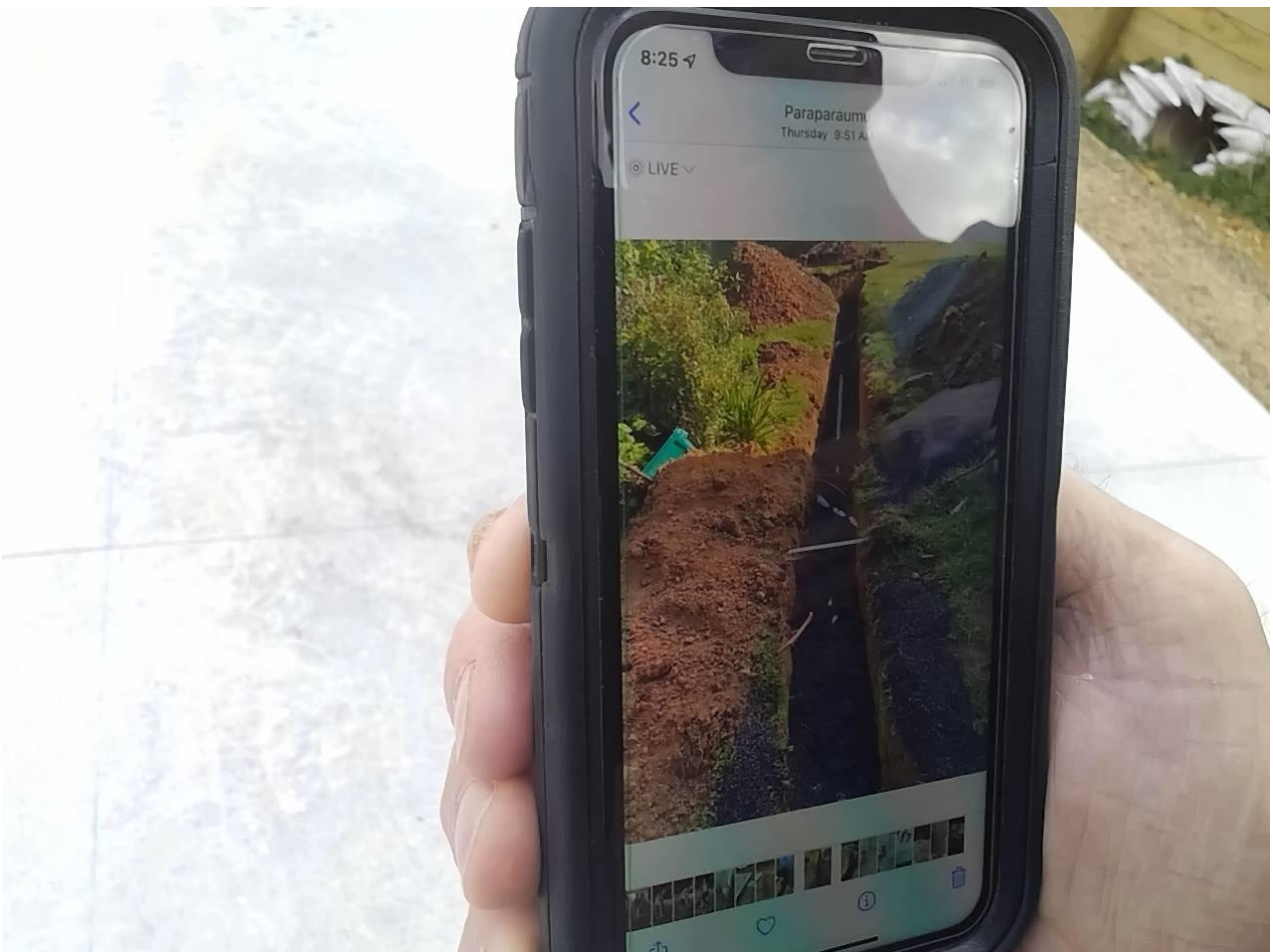
Taken at 8:25 AM on Monday 11/04/2022



Taken at 8:25 AM on Monday 11/04/2022



Taken at 8:25 AM on Monday 11/04/2022



Taken at 8:25 AM on Monday 11/04/2022



Taken at 8:26 AM on Monday 11/04/2022

SITE NOTICE

Consent No: **210691**
Applicant: **Pete Saunders**
Site Address: **198-200 Maungakotukutuku Road, Paraparau**
Work Type: **New Totalspan steel portal framed and steel clad garage 11.7m x 10.0m with toilets.**
Building Category: **R1**

Inspection Type: **Drainage**
Inspection Outcome: **Pass**
Inspected By: **Gareth McCullagh**
Inspection Date: **11 April 2022**

Passed Items

General

Pipe diameter	Sewer only 100mm
Bedding material	bedded in peametal chip
Gully trap	
Connections/angles	swept junctions and inspection points in
Branch length	
Direction/fall	Good natural fall to existing
Holding water	
Registration number	12742
Other	All aspects relating to this inspection have been assessed and checked against the consented documentation and deemed to comply.

GoGet Inspection Audit Report

Consent No: **210691**
Applicant: **Totalspan Wellington - Horowhenua**
Site Address: **198-200 Maungakotukutuku Road, Paraparau**
Work Type: **New Totalspan steel portal framed and steel clad garage 11.7m x 10.0m with toilets.**

Inspection Type: **Preline Building**
Inspection Outcome: **Pass**
Inspected By: **Anthony Wilson**
Inspection Date: **29 March 2023 1:39 p.m.**
Duration: **45 minutes**

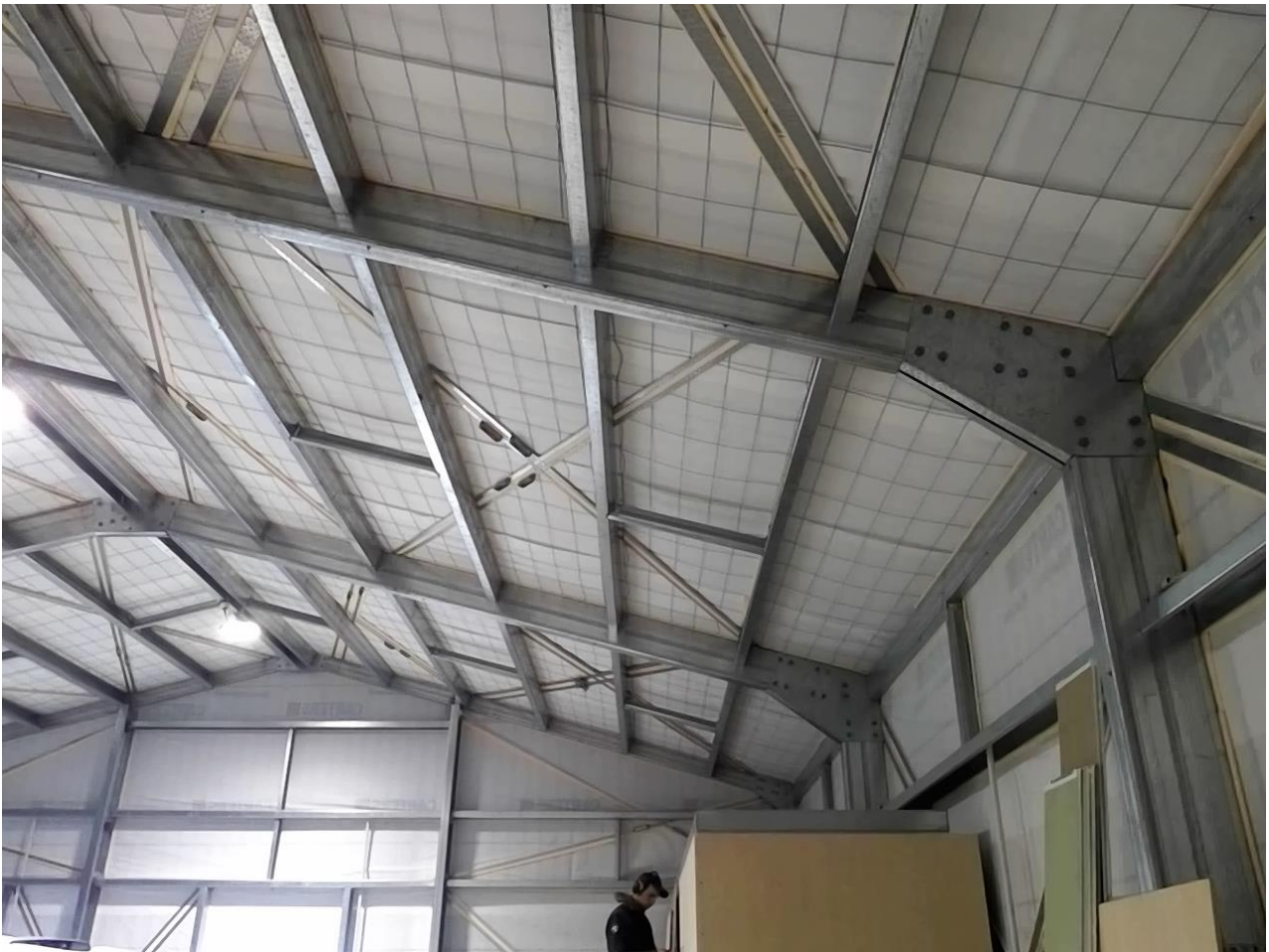
Inspection Element	Status
General	Pass
Check of structural framing	
Pre line plumbing already done.	
Sighted previous inspection notes	Pass
Conforms with approved drawings	Pass
Confirm additional information/amended plan	N/A
Fire Separations	N/A
Max moisture content	N/A
Ventilation to rooms	Pass
Window sizes and openings as per consented documentation	
Timber treatment	N/A
Lintel/beam size and fixing	N/A
Insulation	N/A
Top plate connection	Pass
Ceiling batten spacing	Pass
600mm	
Stud spacing	Pass
Bracing connections	N/A
Air seals	Pass
Bottom plate fixings	Pass
Building closed in	Pass
Building closed in adequately to allow lining	
Grade of timber framing	Pass
Steel framing to NASH standard	
Framing cut outs	N/A
wet area substrate	Pass
Aqualine to bathrooms	
insert or inbuilt fireplace	N/A
LBP number	N/A
Agent/owner written approval	N/A
non compliance discussed onsite	N/A
Next Inspection required	Pass
Final inspection next	
Other	N/A



Taken at 1:30 PM on Wednesday 29/03/2023



Taken at 1:30 PM on Wednesday 29/03/2023



Taken at 1:30 PM on Wednesday 29/03/2023



Taken at 1:30 PM on Wednesday 29/03/2023



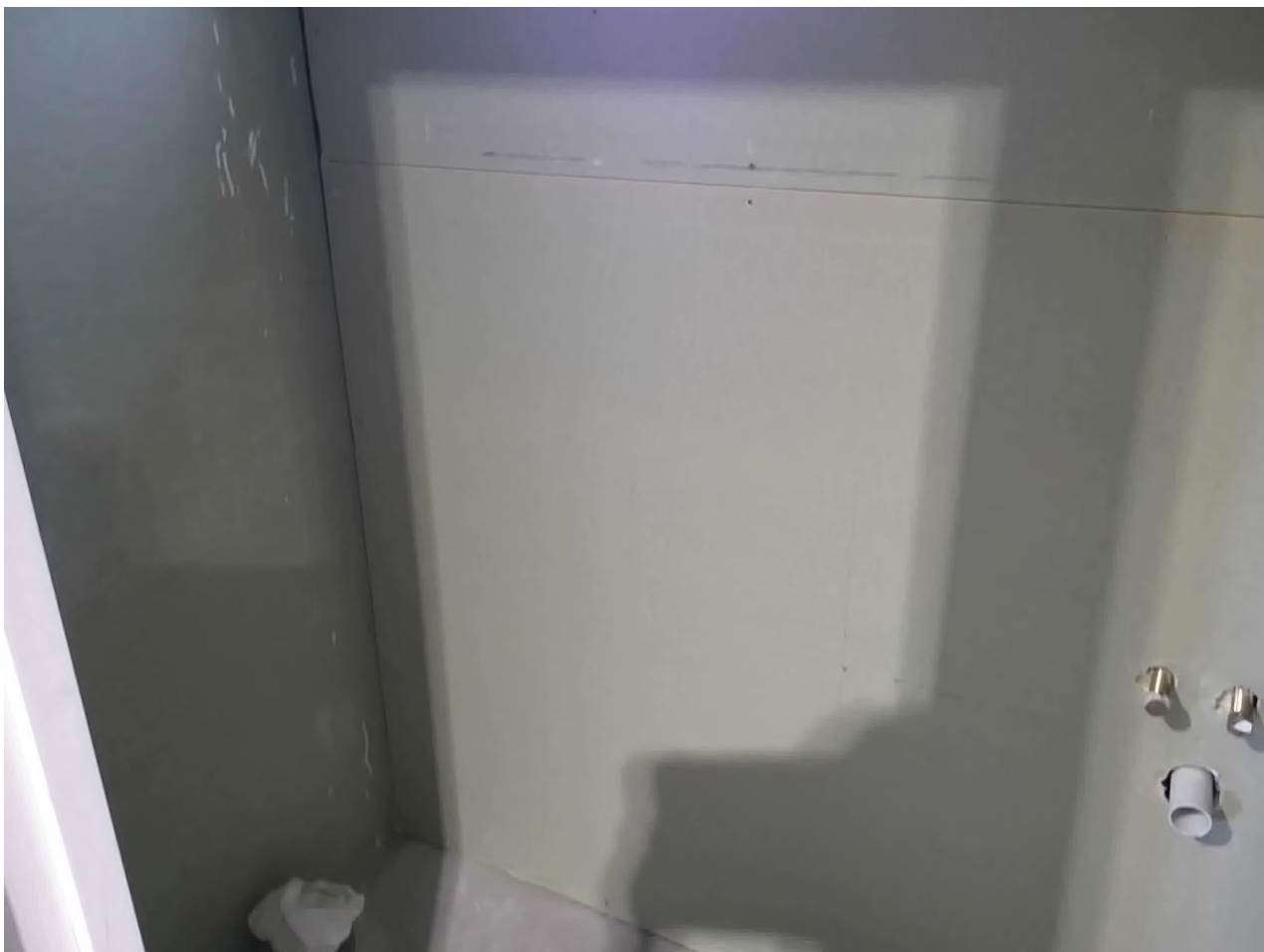
Taken at 1:30 PM on Wednesday 29/03/2023



Taken at 1:30 PM on Wednesday 29/03/2023



Taken at 1:31 PM on Wednesday 29/03/2023



Taken at 1:31 PM on Wednesday 29/03/2023



Taken at 1:33 PM on Wednesday 29/03/2023

SITE NOTICE

Consent No: **210691**
Applicant: **Pete Saunders**
Site Address: **198-200 Maungakotukutuku Road, Paraparau**
Work Type: **New Totalspan steel portal framed and steel clad garage 11.7m x 10.0m with toilets.**
Building Category: **R1**

Inspection Type: **Preline Building**
Inspection Outcome: **Pass**
Inspected By: **Anthony Wilson**
Inspection Date: **29 March 2023**

Passed Items

General

Sighted previous inspection notes
Conforms with approved drawings
Ventilation to rooms

Top plate connection
Ceiling batten spacing
Stud spacing
Air seals

Bottom plate fixings
Building closed in
Grade of timber framing
wet area substrate
Next Inspection required

Check of structural framing
Pre line plumbing already done.

Window sizes and openings as per consented documentation

600mm

Building closed in adequately to allow lining
Steel framing to NASH standard
Aqualine to bathrooms
Final inspection next

GoGet Inspection Audit Report

Consent No: **210691**

Applicant: **Totalspan Wellington - Horowhenua**

Site Address: **198-200 Maungakotukutuku Road, Parapara**

Work Type: **New Totalspan steel portal framed and steel clad garage 11.7m x 10.0m with toilets.**

Inspection Type: **Preline Plumbing**

Inspection Outcome: **Pass**

Inspected By: **Gareth McCullagh**

Inspection Date: **24 November 2022 11:26 a.m.**

Duration: **30 minutes**

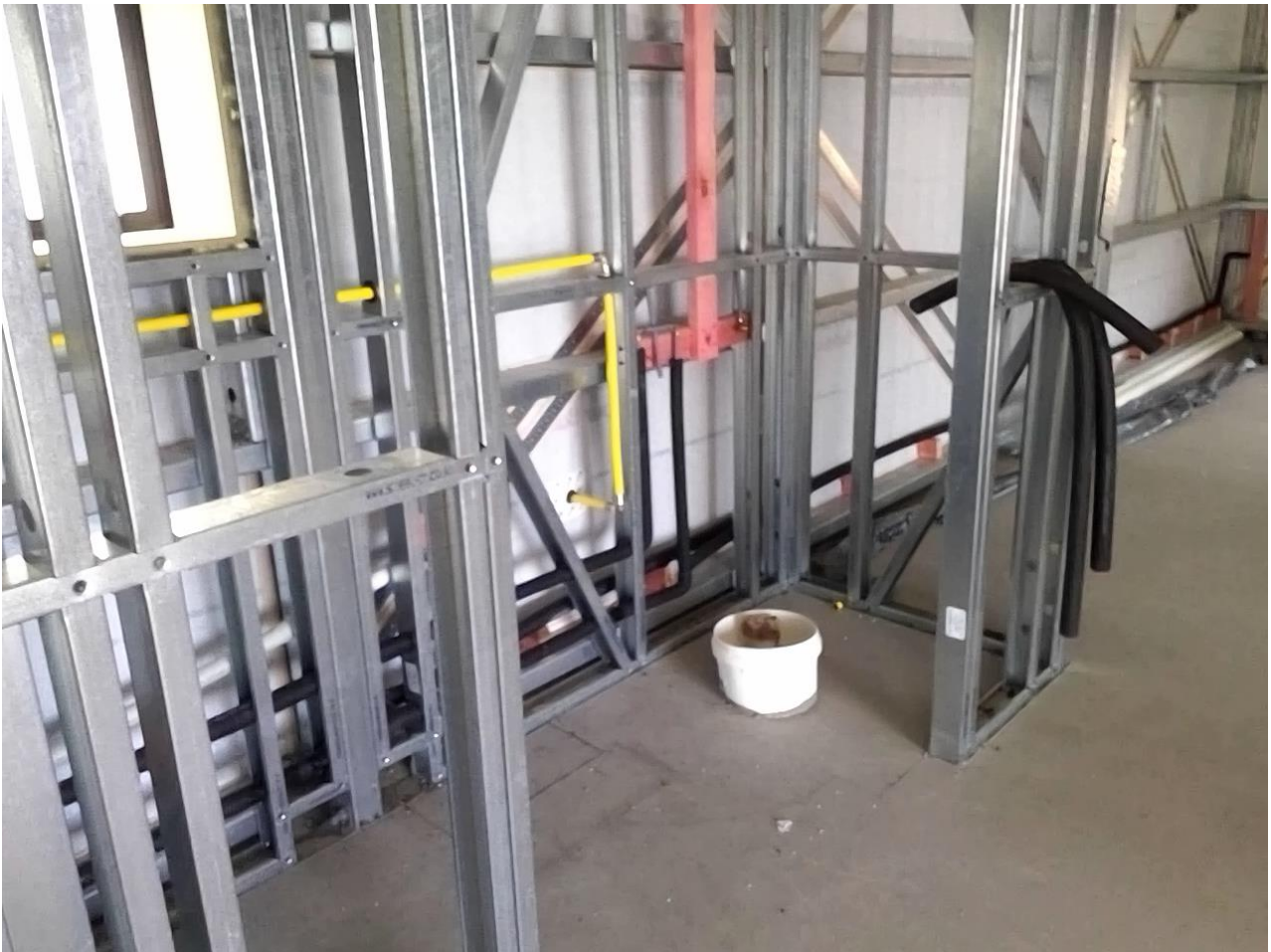
Inspection Element	Status
General	Pass
Sighted previous inspection notes	Pass
Conforms with approved drawings	Pass
Confirm additional information/amended plan	N/A
Plumber 12724	Pass
Soil pipe size and test Not part of this consent	N/A
Pipes fixed/supported	Pass
System used AS3500	Pass
TPR line Not part of this consent	N/A
Inbuilt S/W pipes tested	N/A
Vents terminated Not assessed at this inspection	N/A
Pressure test 20-15mm dux segura tested	Pass
Waste pipe size and test	Pass
Floor wastes	N/A
Shut off valves	Pass
Fire wraps and collars	N/A
LBP number	N/A
Agent/owner written approval	N/A
non compliance discussed onsite	N/A
Next Inspection required	N/A
Other	Pass
All aspects relating to this inspection have been assessed and checked against the consented documentation and deemed to comply.	



Taken at 11:23 AM on Thursday 24/11/2022



Taken at 11:23 AM on Thursday 24/11/2022



Taken at 11:23 AM on Thursday 24/11/2022



Taken at 11:24 AM on Thursday 24/11/2022



Taken at 11:24 AM on Thursday 24/11/2022



Taken at 11:24 AM on Thursday 24/11/2022

SITE NOTICE

Consent No: **210691**
Applicant: **Pete Saunders**
Site Address: **198-200 Maungakotukutuku Road, Paraparau**
Work Type: **New Totalspan steel portal framed and steel clad garage 11.7m x 10.0m with toilets.**
Building Category: **R1**

Inspection Type: **Preline Plumbing**
Inspection Outcome: **Pass**
Inspected By: **Gareth McCullagh**
Inspection Date: **24 November 2022**

Passed Items

General

Sighted previous inspection notes

Conforms with approved drawings

Plumber **12724**

Pipes fixed/supported

System used **AS3500**

Pressure test **20-15mm dux segura tested**

Waste pipe size and test

Shut off valves

Other **All aspects relating to this inspection have been assessed and checked against the consented documentation and deemed to comply.**

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Consent No: **210691**
Applicant: **Totalspan Wellington - Horowhenua**
Site Address: **198-200 Maungakotukutuku Road, Paraparau**
Work Type: **New Totalspan steel portal framed and steel clad garage 11.7m x 10.0m with toilets.**

Inspection Type: **Pre-Slab Building**
Inspection Outcome: **Fail**
Inspected By: **Anthony Wilson**
Inspection Date: **26 November 2021 2:57 p.m.**
Duration: **60 minutes**

Inspection Element	Status
General	Fail
Engineers details required	Pass
Hamish Wells	
Rebate for brick veneer	N/A
Ground clearance	Pass
Concrete cover	Pass
Driveway S/W control	N/A
Sand blinding	Pass
Slab thickenings	N/A
Vapour barrier	Pass
Polythene	
Bottom plate fixings	N/A
Steel reinforcing	Pass
Mesh upgraded to SE72LDE.	
Bar chairs	Pass
Bar chairs placed as required	
DPC penetrations taped	N/A
Minimum floor level	Pass
250mm out of ground	
Registration numbers	N/A
Siting	Pass
Well inside rural boundaries	
Sub slab insulation	N/A
In-slab heating	N/A
LBP number	N/A
Agent/owner written approval	N/A
non compliance discussed onsite	N/A
Next Inspection required	N/A
Other	Fail
Ok to pour once engineer has inspected and approved.	
Update details from engineer to be provided, upgrade to 150mm slab with higher grade mesh	



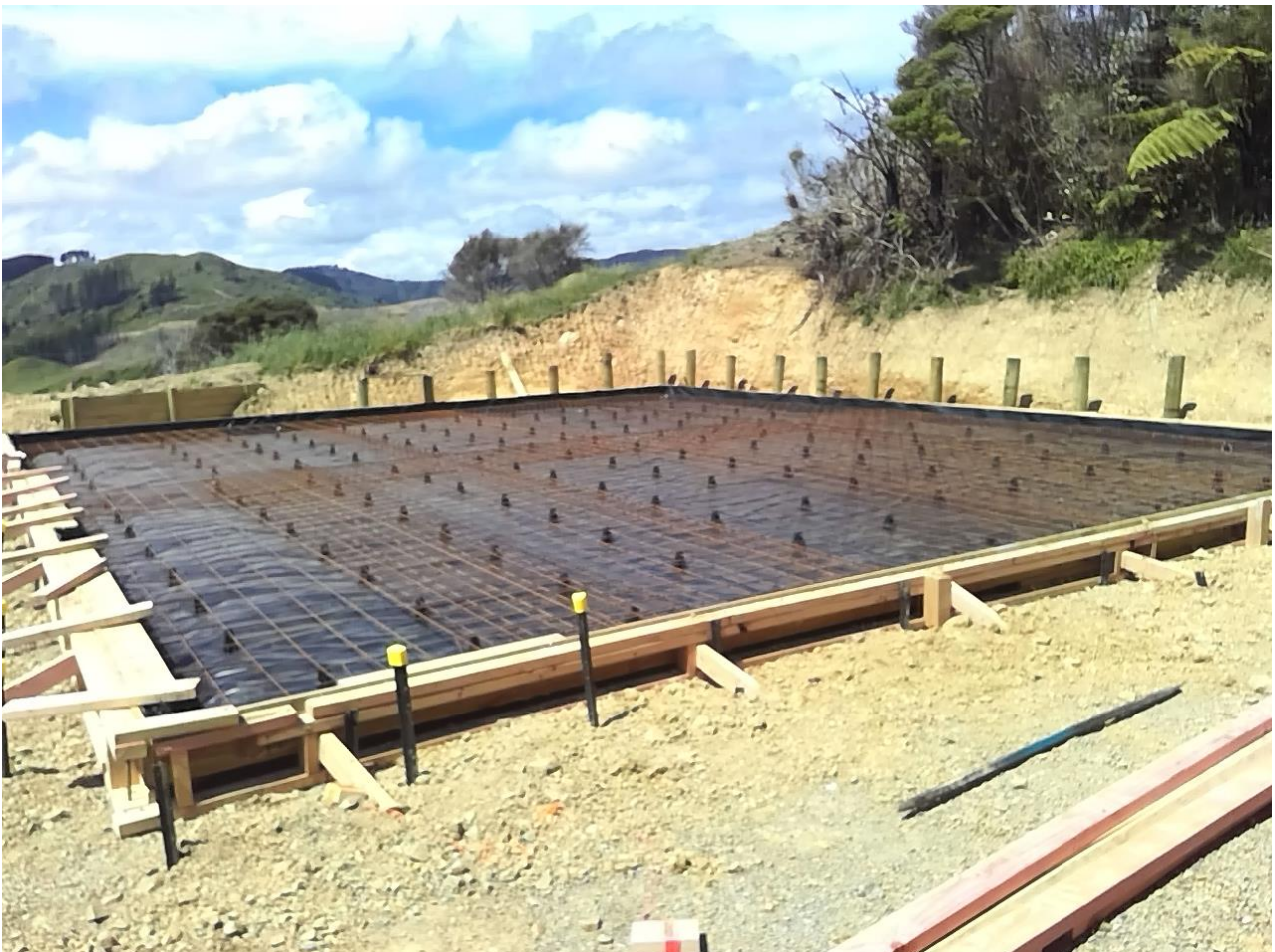
Taken at 2:53 PM on Friday 26/11/2021



Taken at 2:54 PM on Friday 26/11/2021



Taken at 2:54 PM on Friday 26/11/2021



Taken at 2:55 PM on Friday 26/11/2021



Taken at 2:58 PM on Friday 26/11/2021

SITE NOTICE

Consent No: **210691**
Applicant: **Pete Saunders**
Site Address: **198-200 Maungakotukutuku Road, Paraparau**
Work Type: **New Totalspan steel portal framed and steel clad garage 11.7m x 10.0m with toilets.**
Building Category: **R1**

Inspection Type: **Pre-Slab Building**
Inspection Outcome: **Fail**
Inspected By: **Anthony Wilson**
Inspection Date: **26 November 2021**

Failed Items

General

Other

Ok to pour once engineer has inspected and approved.

Update details from engineer to be provided, upgrade to 150mm slab with higher grade mesh

Passed Items

General

Engineers details required
Ground clearance
Concrete cover
Sand blinding
Vapour barrier
Steel reinforcing
Bar chairs
Minimum floor level
Siting

Hamish Wells

Polythene
Mesh upgraded to SE72LDE.
Bar chairs placed as required
250mm out of ground
Well inside rural boundaries

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Consent No: **210691**

Applicant: **Totalspan Wellington - Horowhenua**

Site Address: **198-200 Maungakotukutuku Road, Parapara**

Work Type: **New Totalspan steel portal framed and steel clad garage 11.7m x 10.0m with toilets.**

Inspection Type: **Final Inspection**

Inspection Outcome: **Pass**

Inspected By: **Anthony Wilson**

Inspection Date: **24 October 2023 11:57 a.m.**

Duration: **45 minutes**

Inspection Element	Status
Exterior	Pass
All previous inspections/notes passed	Pass
All passed items on this inspection have been assessed against the consented documentation.	
Drawings	Pass
Additional information/plan	N/A
Sub-floor ventilation	N/A
Roof fixings	Pass
Fixed as required	
Spouting and down-pipes	Pass
Connected	
Deck structure	N/A
Flashings - roof	Pass
Penetrations - flashings	N/A
Barriers	N/A
Gully dishes	Pass
ORG	
Stormwater and site drainage	Pass
Tank over flow onto rural property which does not affect the surrounding buildings or neighbouring properties.	
Handrails	N/A
Wastes to gully	Pass
Fixings - durability	Pass
OK for Zone C	
Steps/stairs	N/A
Terminal vents/AAVs	N/A
Cladding painted/sealed	Pass
Flashings - windows/doors	Pass
Cladding ground clearance	Pass
non compliance discussed onsite	N/A
Final check complete	Pass
Other	N/A
Interior	Pass
All previous inspections/notes passed	Pass
Drawings	Pass
Additional information/plan	N/A
Service areas-floors/walls	Pass
Bathroom areas painted and sealed	

Stair design	N/A
Handrails	N/A
Balustrades	N/A
Lightings	Pass
Laundering	N/A
Cooking facilities	N/A
Smoke detectors	N/A
Food storage/preparation	N/A
Ventilation	Pass
Insulation and clearance	N/A
HWC flues	Pass
HWC restraint	Pass
Tempering valve	Pass
Rinnai infinity	
Glazing - human impact	Pass
Hot water temp	Pass
55max	
Solid fuel heater	N/A
Water supply tank	Pass
Running through filter for bathroom fixtures and hose taps.	
Trap seals and AAVS	Pass
Cistern flushing	Pass
WC pan connection	Pass
Septic tank	N/A
Existing	
Window labels	N/A
non compliance discussed onsite	N/A
Final check complete	Pass
Other	N/A
Intertenancy/commercial	N/A
Other	N/A

Documentation

Electrical safety certificate - Inspector	Clear
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Taken at 11:28 AM on Tuesday 24/10/2023



Taken at 11:29 AM on Tuesday 24/10/2023



Taken at 11:29 AM on Tuesday 24/10/2023



Taken at 11:35 AM on Tuesday 24/10/2023



Taken at 11:35 AM on Tuesday 24/10/2023



Taken at 11:35 AM on Tuesday 24/10/2023



Taken at 11:36 AM on Tuesday 24/10/2023



Taken at 11:36 AM on Tuesday 24/10/2023



Taken at 11:37 AM on Tuesday 24/10/2023



Taken at 11:37 AM on Tuesday 24/10/2023



Taken at 11:38 AM on Tuesday 24/10/2023

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Consent No: **210691**

Applicant: **Totalspan Wellington - Horowhenua**

Site Address: **198-200 Maungakotukutuku Road, Parapara**

Work Type: **New Totalspan steel portal framed and steel clad garage 11.7m x 10.0m with toilets.**

Inspection Type: **Pre-Slab Building**

Inspection Outcome: **Pass**

Inspected By: **Anthony Wilson**

Inspection Date: **24 October 2023 3:29 p.m.**

Duration: **15 minutes**

Inspection Element	Status
General	Pass
Engineers details required	Pass
Hamish Wells soil test report only, no PS1 design for slab by engineer.	
Other	Pass
Documents were reviewed and confirmed that the engineer was not required for construction monitoring as there was no PS1 design in the approved plans.	

Documentation

Electrical safety certificate - Inspector	Clear
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SITE NOTICE

Consent No: **210691**
Applicant: **Pete Saunders**
Site Address: **198-200 Maungakotukutuku Road, Paraparau**
Work Type: **New Totalspan steel portal framed and steel clad garage 11.7m x 10.0m with toilets.**
Building Category: **R1**

Inspection Type: **Pre-Slab Building**
Inspection Outcome: **Pass**
Inspected By: **Anthony Wilson**
Inspection Date: **24 October 2023**

Passed Items

General

Engineers details required

Hamish Wells soil test report only, no PS1 design for slab by engineer.

Other

Documents were reviewed and confirmed that the engineer was not required for construction monitoring as there was no PS1 design in the approved plans.

Inspection Type: **Final Inspection**
Inspection Outcome: **Pass**
Inspected By: **Anthony Wilson**
Inspection Date: **24 October 2023**

Passed Items

Exterior

All previous inspections/notes passed

All passed items on this inspection have been assessed against the consented documentation.

Drawings

Roof fixings

Fixed as required

Spouting and down-pipes

Connected

Flashings - roof

Gully dishes

ORG

Stormwater and site drainage

Tank over flow onto rural property which does not affect the surrounding buildings or neighbouring properties.

Wastes to gully

Fixings - durability

OK for Zone C

Cladding painted/sealed

Flashings - windows/doors

Cladding ground clearance

Final check complete

Interior

All previous inspections/notes passed

24 October 2023

KEEP ON SITE FOR RECHECK
Form 625 Site Inspection Notice Issued June 2019

Page 1 of 2

Drawings
Service areas-floors/walls
Lightings
Ventilation
HWC flues
HWC restraint
Tempering valve
Glazing - human impact
Hot water temp
Water supply tank

Trap seals and AAVS
Cistern flushing
WC pan connection
Final check complete

Bathroom areas painted and sealed

Rinnai infinity

55max

Running through filter for bathroom fixtures and hose taps.

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Consent No: **210691**

Applicant: **Totalspan Wellington - Horowhenua**

Site Address: **198-200 Maungakotukutuku Road, Parapara**

Work Type: **New Totalspan steel portal framed and steel clad garage 11.7m x 10.0m with toilets.**

Inspection Type: **Pre-Slab Plumbing**

Inspection Outcome: **Pass**

Inspected By: **Gareth McCullagh**

Inspection Date: **30 November 2021 1:30 p.m.**

Duration: **30 minutes**

Inspection Element	Status
General	Pass
Secondary flow path	N/A
Not part of this consent	
Pipe material	Pass
pvc primed and glued	
Pipe protection	Pass
using 25mm poly sleeves	
TPR line	N/A
Not part of this consent	
Plumbing layout	Pass
as per plan	
Pipes supported	Pass
Wastes and drains	Pass
100mm toilets 65mm showers	
Water/air	Pass
Water with Good fall out of slab	
Leak check	Pass
Registration numbers	Pass
12724	
Agent/owner written approval	N/A
non compliance discussed onsite	N/A
Next Inspection required	N/A
Other	Pass
All aspects relating to this inspection have been assessed and checked against the consented documentation and deemed to comply.	
Site Inspection	N/A



Taken at 1:30 PM on Tuesday 30/11/2021



Taken at 1:30 PM on Tuesday 30/11/2021



Taken at 1:30 PM on Tuesday 30/11/2021



Taken at 1:30 PM on Tuesday 30/11/2021

SITE NOTICE

Consent No: **210691**
Applicant: **Pete Saunders**
Site Address: **198-200 Maungakotukutuku Road, Paraparau**
Work Type: **New Totalspan steel portal framed and steel clad garage 11.7m x 10.0m with toilets.**
Building Category: **R1**

Inspection Type: **Pre-Slab Plumbing**
Inspection Outcome: **Pass**
Inspected By: **Gareth McCullagh**
Inspection Date: **30 November 2021**

Passed Items

General

Pipe material	pvc primed and glued
Pipe protection	using 25mm poly sleeves
Plumbing layout	as per plan
Pipes supported	
Wastes and drains	100mm toilets 65mm showers
Water/air	Water with Good fall out of slab
Leak check	
Registration numbers	12724
Other	All aspects relating to this inspection have been assessed and checked against the consented documentation and deemed to comply.