THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE SPECIFICATION DOCUMENTS, ENGINEERING DETAILS/DRAWINGS, MANUFACTURER'S SPECIFICATIONS & TRUSS DESIGNERS/PRE-NAIL MANUFACTURER'S DRAWINGS



Sheet Index	
Layout ID	Layout Name
2	Site Plan
3	Drainage Plan
4	Drainage/Notes
5	Floor Plan
6	Foundation Plan
7	Elevations
8	Elevations
9	Electrical Plan
10	Bracing Plan
11	Bracing Plan 2
12	Roof Plan
13a	Cross Section
13b	Cross Section
14	Details
15	Plaster Details
16	Plaster Details
17	Plaster Details
18	Vertical Shiplap Details
19	Vertical Shiplap Details
20	Garage Details
21	Roof Details
22	Roof Details
23	Gib Fixing Details
24	Bathroom Details
25	Tiled Shower Details
26	Bathroom/wet area Details
27	Stud and Lintel Fixings
28	Stud and LIntel Fixings
29	Window and Door Details
30	3D View
31	3D View
32	Birdseye Floor Plan

Artist Impression Only





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KATE WORNER Architectural Design

REVISION #: ISSUED: 19/12/24 PROJECT #: #PIn

Forge Homes

11 Twin Meadows Drive Christchurch

ADDRESS: TBA MOBILE: TBA #Contact E-mail jonroberts07@hotmail .com

SHEET TITLE: Sheet Index

SHEET

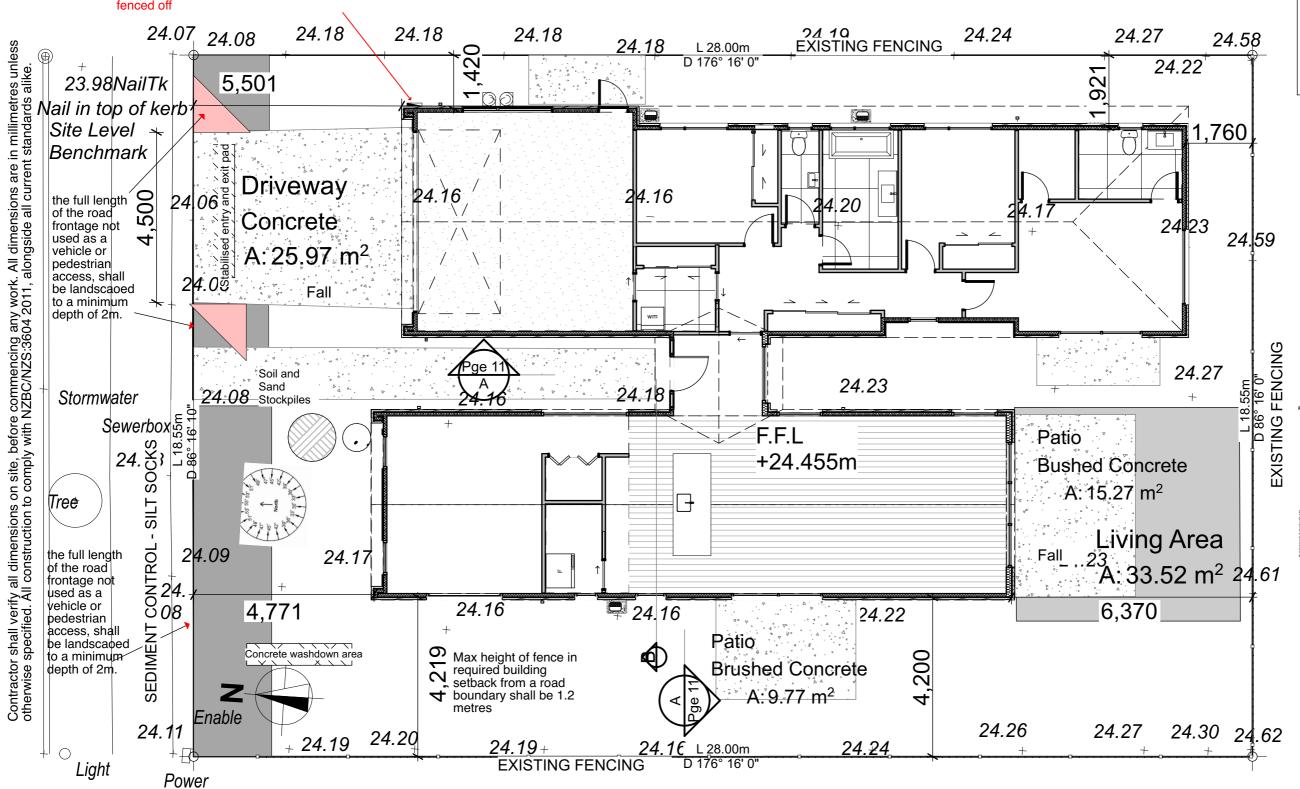
DRAWING SCALE:

MAIN CONTRACTOR/BUILDER TO CONFIRM **LOCATION & ORIENTATION OF DWELLING ON** SITE WITH CLIENTS/OWNERS

lota Onebox control panel. No more than 300mm from the front corner. To be mounted min. 1.2m above GL and may never be Electricity supply for the system shall be from the dwelling and metered to the dwelling serviced by the system. The property owner is responsible for the power costs of operating the system

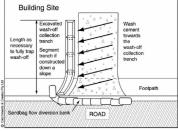
2.0m high Chain link fence from Ground Level - NZBC 1 0.2 - UNAUTHORISED **ENTRY BY CHILDREN IS** LIKELY

11 Twin Meadows Drive, Casebrook, Christchurch Lot 22 DP 586884



Planning Zone :RNN Residential - CCC Site Area: 519 m2 Build Area: 207m2 Site Coverage: 39.88% Wind: Med Snow: 0.9KPa Earthquake: 2 Corrosion Zone: C Flood Management: No Sea Spray Zone: No Land Zoning: TC2

Hazardous Agents on Site shall be assessed to determine the presence and potential threat of any hazardous agents or contaminants Main Contractor/Builder to confirm location of Service Laterals site before excavation/ drainlaying begins



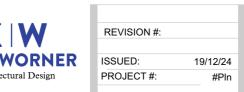
SITE NOTES: Site Levels are provided by Client/Builder Location of existing Sewer & Stormwater connections to be confirmed on Site, prior to Construction.

Convey Surface Water from sealed driveway areas to an appropriate approved outfall.



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SHEET TITLE: Site Plan

DRAWING SCALE:



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24/12/2024

lota Onebox control panel. Visible and accessible from the driveway and sewer tank. Centred no more than 300mm from the front corner. To be mounted min. 1.2m above GL

Proposed Stormwater

KEY

Proposed Sewer Terminal Vent (90mm min. dia) Jose, Abby Branch Vent (80mm min dia) Down Pipe Gully Trap Branch Vent

Air Admittance Valve

BV Inspection Junction/Bend/Point JJ/IB/IP AAV

100mm PVC-U, 1:60 (min)

TV BV DP GT

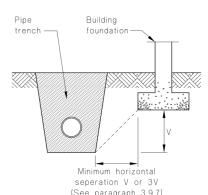
100mm dia, 1:60 gradient

Compacted selected fill where the drains are d below residential driveways or simila areas subject to light traffic

Pipe Supports: Pipes shall be supported @ crs not exceeding those in Table 7. G13/AS1 5 to 100mm (Vert 1.2) Graded Pipe 1.0.

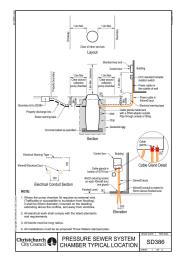
Thermal Movement:
All uPVC pipes shall incorporate expansion joints (Chapter 8 NZS 7643 for uPVC pipes)
Supports @ walls & floor penetrations not incorporating expansion joints, movement shall be accomodated using pipe sleeves or a durable & flexible lagging material

Relationship of Pipe Trench to



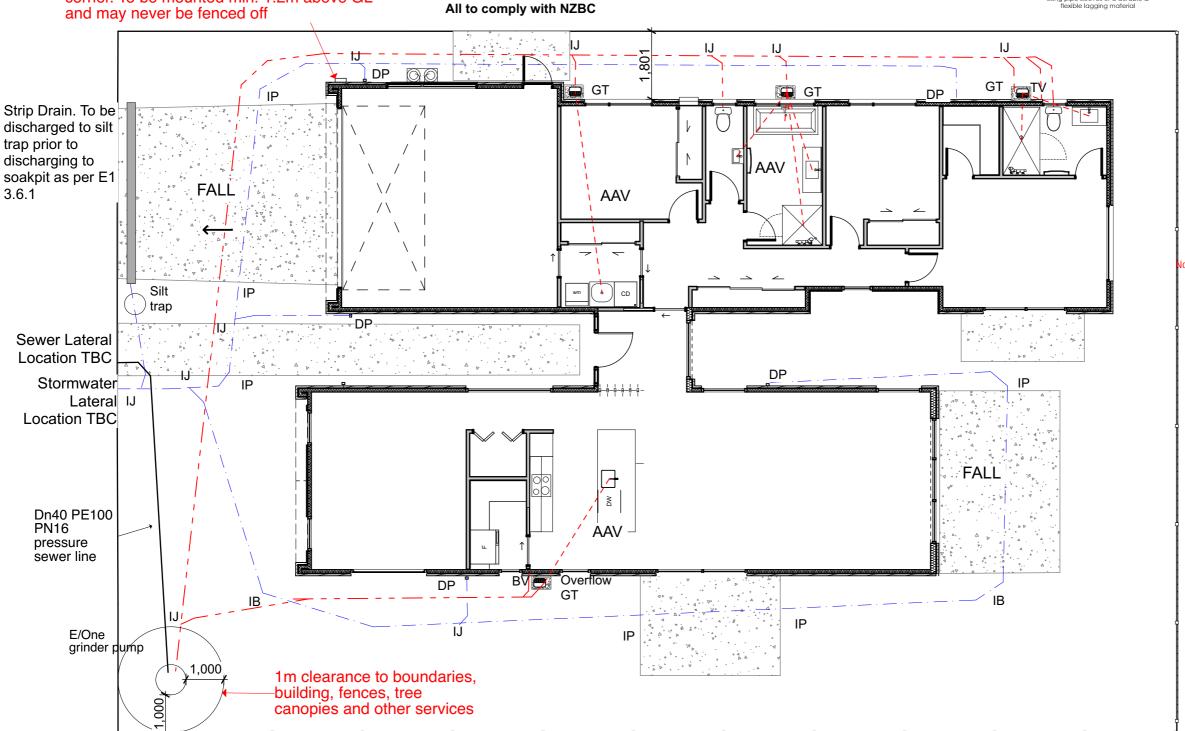
VESTED INFRASTRUCTURE - WASTEWATER
All work to be in accordance with I.D.S. & C.S.S. Pt.1-7 **CITY WATER & WASTE** BCN /2024/9181 Baker, Nigel

- Engineering acceptance for location of Council vested Aquatec or E/One pressure sewer tank and IOTA OneBox Control Panel. Neither may be fenced off or relocated.
- IOTA OneBox must be within visible access, mounted against external wall of dwelling, accessible, min. 1.2 m above ground.
- Aquatec or E/One pressure sewer tank system must be installed by a Council Authorized Drainlayer with category approval for 'Pressure Sewer Tanks'.
- 5 working days' notice prior to commencing pressure sewer tank install to 'PressureTankInstalls@ccc.govt.nz.' Include BCN number, street address, stamped plan.



SHEET

3



Contractor shall verify all dimensions on site, before commencing any work. All dimensions are in millimetres unless otherwise specified. All construction to comply with NZBC/NZS:3604 2011, alongside all current standards alike.

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Drainage Plan

SHEET TITLE:

DRAWING SCALE: 1:100

PLUMBING AND DRAINAGE

All drains to comply with G13/AS1 and AS2

Air Admittance Valves are to be fitted to all fittings greater than 3.5m from any gully trap Waste/pipe size/material/fall

- Shower waste: DN40mm dia. PVC-U @ 1 in 40 fall DN50mm dia. PVC-U @ 1 in 40 fall Sink waste: Tub waste: DN40mm dia. PVC-U @ 1 in 30 fall DN40mm dia. PVC-U @ 1 in 40 fall - Bath waste: - Basin waste: DN32mm dia. PVC-U @ 1 in 20 fall DN100mm dia. PVC-U @ 1 in 60 fall WC waste:

DN100mm dia. PVC-U sewer water drain @ 1:60 fall (min) DN100mm dia PVC-U storm water drain @ 1:60 fall (min)

All penetrations through concrete shall be wrapped in 'DENSO TAPE' or similar product to allow for pipe expansion & movement. Allow for 25mm separation from foundation wall NZBC G13/AS2 2.5.8.1

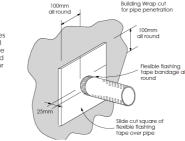
Gutter internal size 115x60mm (min)

Downpipes 75x55mm (min) 1 per 55m2 of Roof Area

Storage water heaters to be restrained with 25x1mm galvanised steel straps tensioned when fixed in place. Straps to be fixed to wall framing with:

UNION 8mm coach screw with 302mm thick washer, or

6.3.1 The plumbing system shall accomodate without failure the expected longitudinal movement in pipes resulting from temperature changes. All copper and uPVC pipes shall incorporate expansion joints, the provisions described in Chapter 8 of NES 7643 shall be used for uPVC pipes.



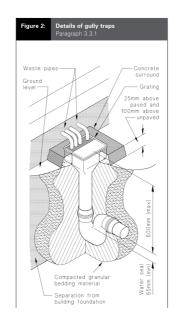
6.14 Safe water temperatures

6.14.1 Maximum temperatures

The delivered hot water temperature at the outlet of any sanitary fixture used for personal hygiene shall not exceed:

- a) 45°C for early childhood education and care centres, schools, old people's homes, institutions for people with psychiatric or physical disabilities, hospitals, and
- b) 50°C for all other buildings.

Christchurch / Page 4 of 42 City Council BCN/2024/9181 **Approved Building Consent Document** 24/12/2024 Jose, Abby



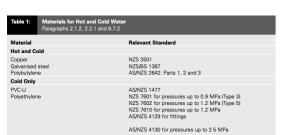


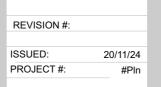
Table 1: Materials for Hot and Cold Water Parsgraphs 2.1.2, 2.2.1 and 6.7.2 Material Relevant Standard			Overflow Relief Gu Gully dish is no les below the overflow lowest sanitary fixt the drainage syste	ully Trap ss than 150 i level of the ure served b m,
Table 1: Materials for Hot and Cold Water Paragraphs 2.1.2, 2.2.1 and 6.7.2				Cl
Hot and Cold Copper	Table 1: Material Paragraph	s for Hot and Cold Water ns 2.1.2, 2.2.1 and 6.7.2	ard	
Cold Only PVC-U Polyethylene AS/NZS 1477 NZS 7601 for pressures up to 0.9 MPa (Type 3) NZS 7602 for pressures up to 1.2 MPa (Type 5) NZS 7610 for pressures up to 1.2 MPa AS/NZS 4129 for fittings AS/NZS 4129 for fittings AS/NZS 4130 for pressures up to 2.5 MPa Table 3: Acceptable Flow Rates to Sanitary Fixtures Paregraph 5.3.1 Sanitary fixture Flow rate and temperature I/s and "C Bath 0.3 at 45°C Nix hot and cold water to achieve 45°C Sink 0.2 at 60°C* (hot) and 0.2 (cold) Elaundry tub 0.2 at 60°C* (hot) and 0.2 (cold) Flow rates required at both hot and cold taps 0.2 (cold) Elaundry tub 0.2 at 60°C* (hot) and 0.2 (cold) Flow rates required at both hot and cold taps 0.2 (cold) Flow rates required at both hot and cold taps 0.2 (cold) Flow rates required at both hot and cold taps 0.2 (cold) Flow rates required at both hot and cold taps 0.2 (cold) Flow rates required at both hot and cold taps 0.1 at 45°C Mix hot and cold water to achieve 45°C Nix hot and cold water to achieve 45°C Mix hot and cold water to achieve 45°C	Hot and Cold Copper Galvanised steel Polybutylene	NZS 3501 NZS;/BS 1387 AS//NZS 2642: Pa	arts 1, 2 and 3	24
AS/NZS 4130 for pressures up to 2.5 MPa Table 3: Acceptable Flow Rates to Sanitary Fixtures Paragraph 5.3.1 Sanitary fixture Flow rate and temperature I/s and *C Bath 0.3 at 45°C Mix hot and cold water to achieve 45°C Sink 0.2 at 60°C* (hot) and Flow rates required at both hot and cold taps but not simultaneously Laundry tub 0.2 at 60°C* (hot) and Flow rates required at both hot and cold taps 0.2 (cold) but not simultaneously Basin 0.1 at 45°C Mix hot and cold water to achieve 45°C Shower 0.1 at 42°C Mix hot and cold water to achieve 45°C	Cold Only PVC-U Polyethylene	AS/NZS 1477 NZS 7601 for pre NZS 7602 for pre NZS 7610 for pre AS/NZS 4129 for	essures up to 0.9 MPa (Type 3) sssures up to 1.2 MPa (Type 5) sssures up to 1.2 MPa fittings	
Table 3: Acceptable Flow Rates to Sanitary Fixtures Paragraph 5.3.1 Sanitary fixture Flow rate and temperature I/s and *C Bath 0.3 at 45°C Mix hot and cold water to achieve 45°C Sink 0.2 at 60°C* (hot) and 0.2 (cold) Laundry tub 0.2 at 60°C* (hot) and 0.2 (cold) Elow rates required at both hot and cold taps but not simultaneously Flow rates required at both hot and cold taps but not simultaneously but not simultaneously Mix hot and cold water to achieve 45°C Shower 0.1 at 45°C Mix hot and cold water to achieve 45°C Mix hot and cold water to achieve 45°C		AS/NZS 4130 for	pressures up to 2.5 MPa	
Sanitary fixture Flow rate and temperature How measured	Table 3: Acceptab Paragraph	le Flow Rates to Sanitary Fixtures 5.3.1		
Bath 0.3 at 45°C Mix hot and cold water to achieve 45°C Sink 0.2 at 60°C* (hot) and 0.2 (cold) Laundry tub 0.2 at 60°C* (hot) and 0.2 (cold) Basin 0.1 at 45°C Mix hot and cold water to achieve 45°C Shower 0.1 at 42°C Mix hot and cold water to achieve 42°C	Sanitary fixture	Flow rate and temperature I/s and °C	How measured	
Laundry tub 0.2 at 60°C* (hot) and but not simultaneously Laundry tub 0.2 at 60°C* (hot) and 0.2 (cold) Dut not simultaneously but not simultaneously Uniform and cold taps but not simultaneously Mix hot and cold water to achieve 45°C Shower 0.1 at 42°C Mix hot and cold water to achieve 42°C	Bath	0.3 at 45°C	Mix hot and cold water to achieve 45°C	
Laundry tub 0.2 at 60°C* (hot) and Flow rates required at both hot and cold taps but not simultaneously Basin 0.1 at 45°C Mix hot and cold water to achieve 45°C Shower 0.1 at 42°C Mix hot and cold water to achieve 42°C	SILIK	0.2 (cold)	but not simultaneously	
Basin 0.1 at 45°C Mix hot and cold water to achieve 45°C Shower 0.1 at 42°C Mix hot and cold water to achieve 42°C	Laundry tub	0.2 at 60°C* (hot) and 0.2 (cold)	Flow rates required at both hot and cold taps but not simultaneously	
Shower 0.1 at 42°C Mix hot and cold water to achieve 42°C	Basin	0.1 at 45°C	Mix hot and cold water to achieve 45°C	
	Shower	0.1 at 42°C	Mix hot and cold water to achieve 42°C	
* The temperatures in this table relate to the temperature of the water used by people in the daily use of the <i>fixture</i> . Note:	* The temperatures in th Note:	is table relate to the temperature of the wa	ater used by people in the daily use of the fixture.	

Maximum height of riser from FGL to top of step to be 190mm



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Forge Homes

11 Twin Meadows Drive Christchurch

Construction & Demolition Hazards Function:

Construction and demolition work on buildings shall be performed in a manner that avoids the likelihood of:

- Objects falling onto people on or off the site.
- Objects falling on property off the site.
- Other hazards arising on the site affecting people off the site and other property

Suitable construction methods shall be used to avoid the likelihood of tools or materials falling onto places where people might be present.

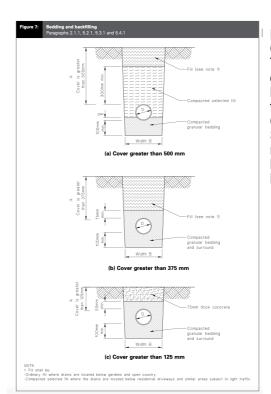
Where construction or demolition work presents a hazard in places to which the public has access, barriers shall be provided and shall:

- Be of appropriate height and construction to prevent site hazards from harming traffic or passerby.
- Be difficult to climb.
- Have no openings other than those approved by the territorial authority for access and viewing.
- Have no gates or doors which project beyond the site when opened.

SEDIMENT CONTROL PLAN

Provide 2.0m wide entry/exit rumble pad (150-200mm deep 40mm crushed rock) to driveway area, from kerb to slab with 200mm high hump pad across pad deflecting stormwater runoff to sediment fence.

- -Provide Silt Socks fencing/barrier (or similar approved) to the low side of the soil disturbance.
- -Stockpile topsoil within the sediment controlled zone.
- Stabilise earth banks.
- -Downpipes to be connected as soon as roof and drainage is available.
- -All other work is to be completed in accordance with Environment Canterbury "Best Practice Guidlines."



NZBC E2/AS1 Section 11 -Construction Moisture: Timber Framing - @ time of installing Interior linings less than 18% moisture in timber structure. Concrete Floors -Sufficently dry to give a relative humidity reading of less than 75% @ time of laying floor coverings.



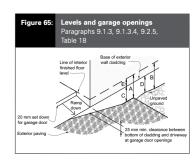


Table 6.	Paragraphs 4.1.1, 4.1.4 a), 4.4.2, 4.5. and Figure 17									
Stair	Maximum pitch	Maximum riser height (mm)	Minimum tread (mm)							
Service, mi private	inor 47°	220	220							
Secondary private	41°	200	250							
Common a main privat		190	280							
Accessible	32°	180	310							

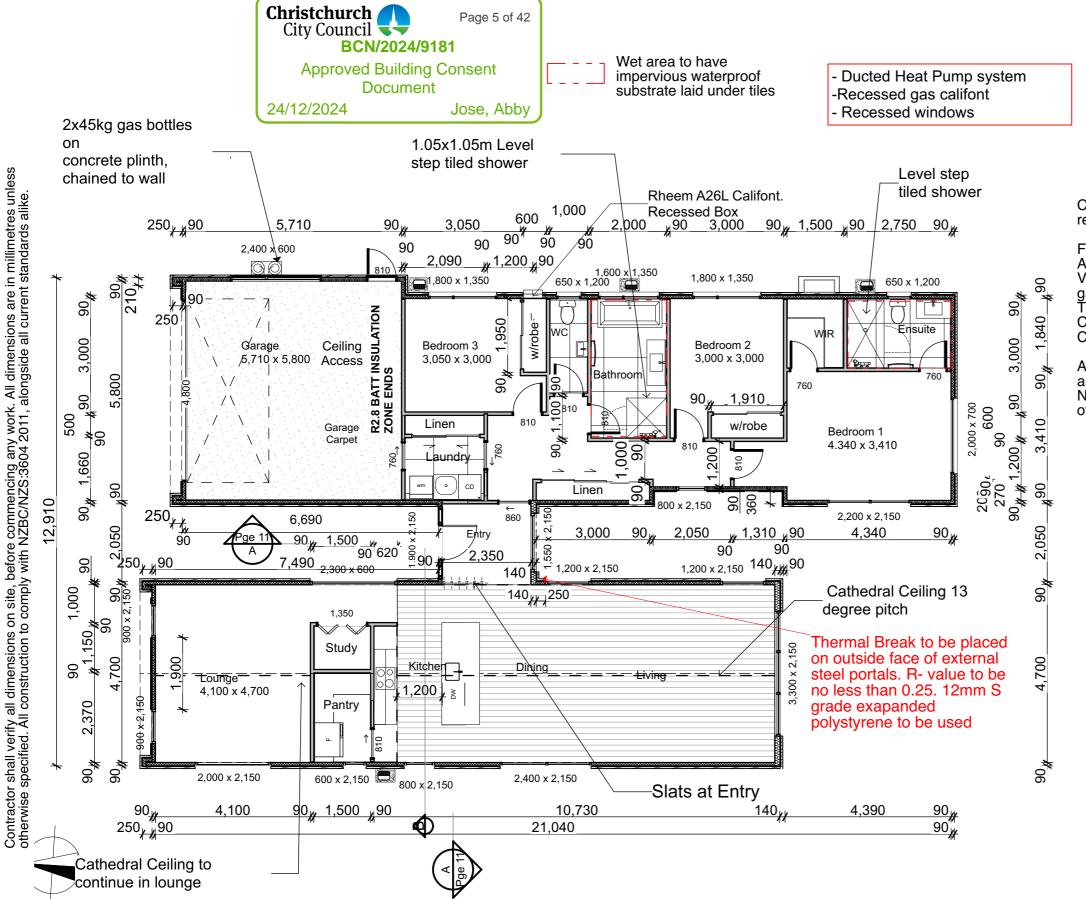
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SHEET TITLE:

Drainage/Notes

DRAWING SCALE:

SHEET



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ADDRESS: TBA MOBILE: TBA #Contact E-mail jonroberts07@hotmail .com AREA OVER FRAME:

LIVING AREA = 173.9 m2 GARAGE AREA = 33 m² Area Over Cladding = 206.9m2

OVERALL DIMENSIONS = 21.14 m x 12.91 m

Concrete Floors - Sufficently dry to give a relative humidity reading of less than 75% @ time of laying floor coverings.

Floor Covering:

Alt solution to NZBC E3/AS1 for kitchen, WC Vinyl in Kitchen with waterproof backing. All cracks and gaps to be sealed

Tiles in bathroom and WC Carpet: Living and bedroom

Concrete: Garage

ANTI-SLIP: on all access routes (both external and internal), provide anti-slip surfaces complying with NZBC D1/AS1/Table 2 (except surfaces inside entry doors of housing may be considered as dry areas).

External & Internal load Bearing Wall Framing: 90x45 H1.2 treated pinus radiata timber framing with studs @ 600mm ctrs (max.) and dwangs @ 800mm ctrs (max.) for Integra panel. Studs @ 600crs and dwangs @ 400mm crs for Vertical Shiplap. Internal walls lined with 10mm GIB Board internally in accordance with GIB Bracing Systems 2016 Handbook

Lining

13mm gib board to ceiling 10mm gib board to walls 10mm gib aqualine to wet areas

Ceiling battens to be H1.2 70x35mm @ 600 crs

70x35mm H1.2 SG8 Timber Ceiling Battens @ 600crs, fixed to underside of trusses lined with 13mm **GIB Board**

Gable end walls:

H1.2 90x90 SG8 Laser Frame studs @ 300crs, dwangs @ 800 crs

Spaces to used for food preparation and utensil washing have:

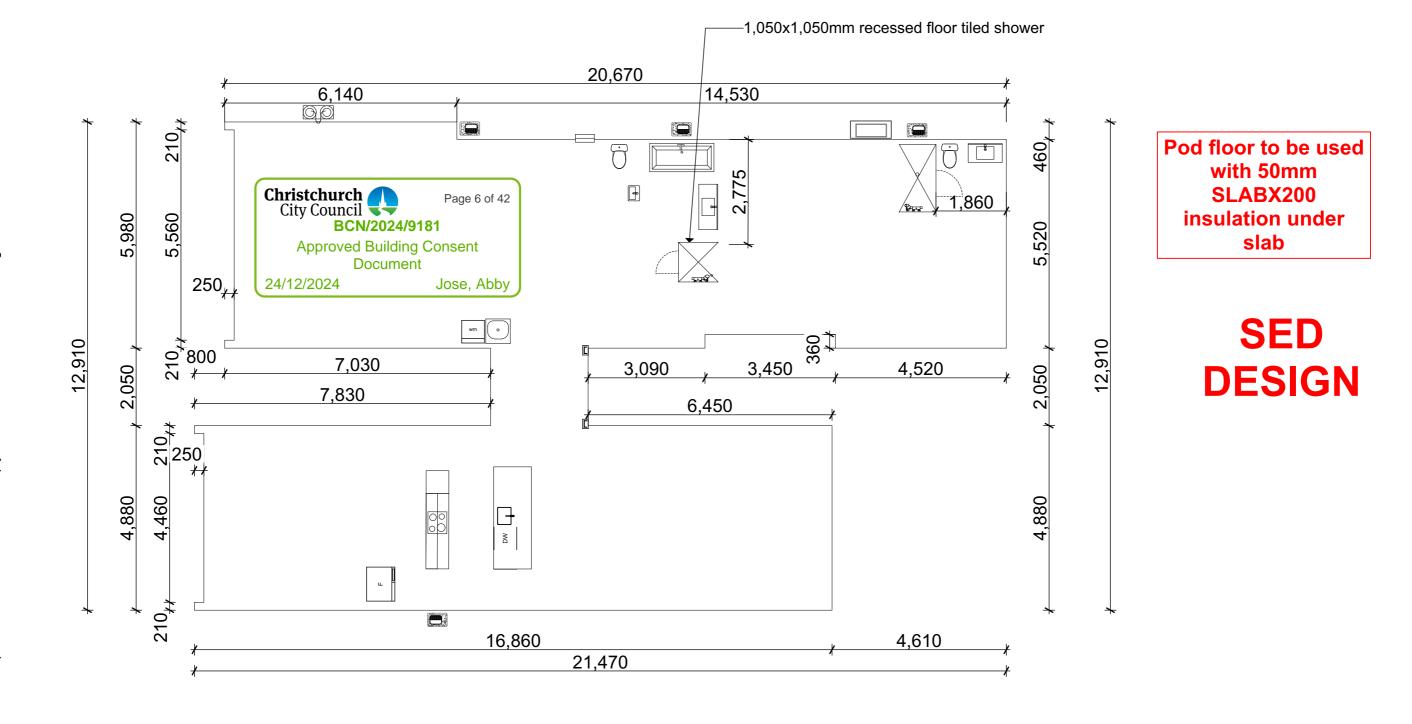
Interior linings and work surfaces that are impervious and easily cleaned.

SHEET TITLE:

SHEET

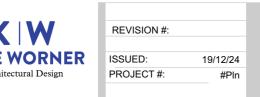
Floor Plan

DRAWING SCALE: 1:100









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SHEET

Foundation Plan

DRAWING SCALE: 1:100

SAFETY GLAZING (eg:

bathroom window) SHALL COMPLY WITH NZBC F2/AS1 Glazing in bathroom and ensuite to be safety glazed as per NZS 4223.3 8.1

INSTALL WANZ SUPPORT BARS TO ALL EXTERIOR WINDOWS & DOOR SILLS

CONFIRM SOFFIT HEIGHT WITH TRUSS MANUFACTURER

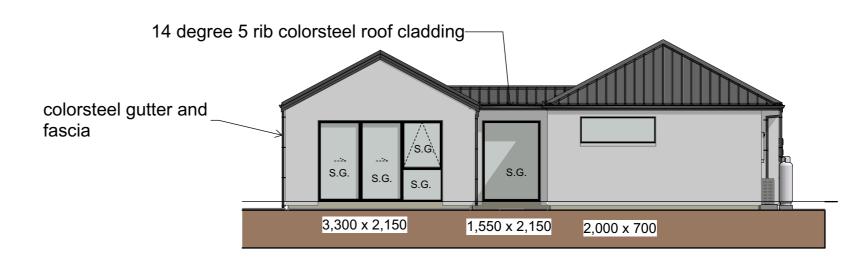
ALL WINDOWS AND DOORS TO BE SITE MEASURED BEFORE MANUFACTURED

ALL WINDOWS AND DOORS TO BE DOUBLE GLAZED UNITS AS PER NZBC H1/AS1 2007 - REFER TO CALCULATION SHEETS



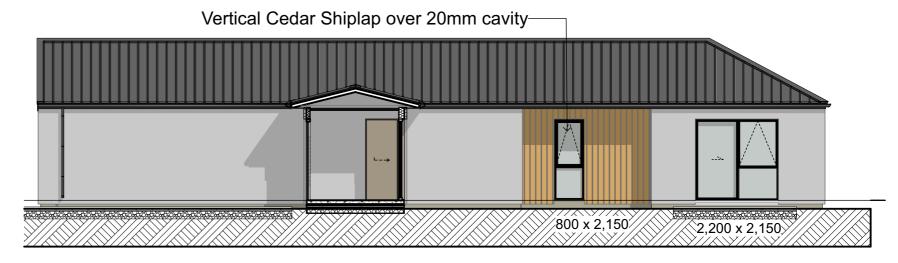
Exterior cladding-

Resene Integra Panel over 20mm nominal cavity
 Vertical Cedar Shiplap Board cladding over 20mm cavity, as per elevations



South Elevation

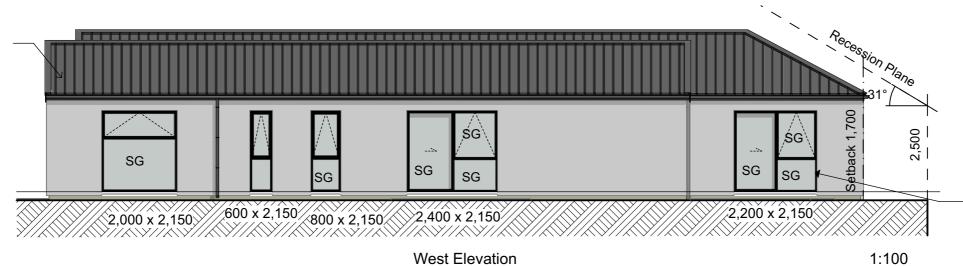
1:100



West Elevation 2

1:100

28 degree 5 rib colorsteel roof



All external joinery to be compliant with H1/As1.
Aluminium joinery with double glazed, thermally improved spacer with low e glass meeting with R0.50 value



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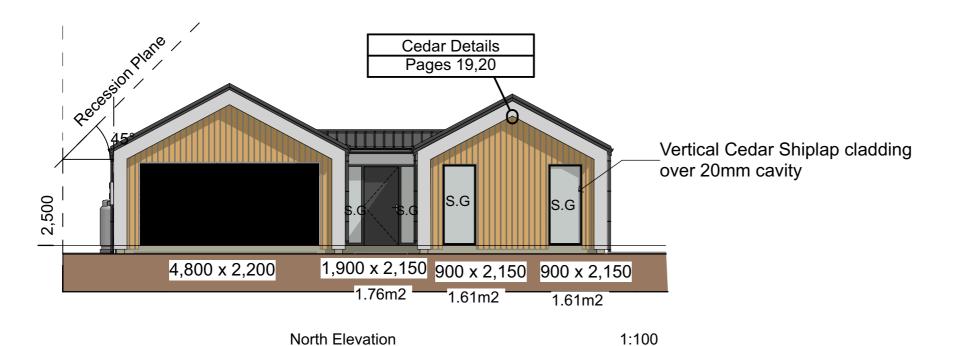
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SHEET TITLE:

SHEET

Elevations

DRAWING SCALE: 1:100



Design eaves) 0-100mm wide **Eaves Width** Envelope Moderately complex Complexity shape with no more than 2 cladding types. Deck Design None

Risk Factor

Wind Zone

Number of Storeys Roof/Wall

Intersection

Selected Claddings:

1. EIFS over nominal 20mm drained cavity

Description

Single Storey

Partly exposed (e.g. hip

and gable roof with no

High

Risk

M

L

М

VH

M

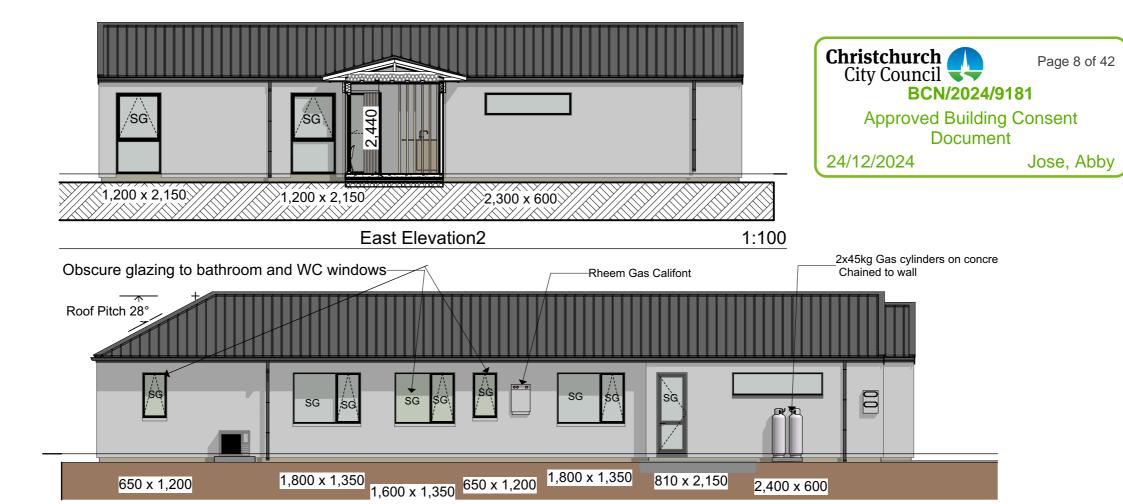
Total Score: 8

Score

0

5

2. Vertical Cedar over 20mm cavity



East Elevation



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SHEET TITLE:

Elevations

1:100

SHEET

Christchurch City Council Page 9 of 42 BCN/2024/9181 **Approved Building Consent** Document 24/12/2024 Jose, Abby

Interconnected Smoke detectors to be installed throughout dwelling complying with NZBC F7/AS1 with hush & test facilities

NOTE:

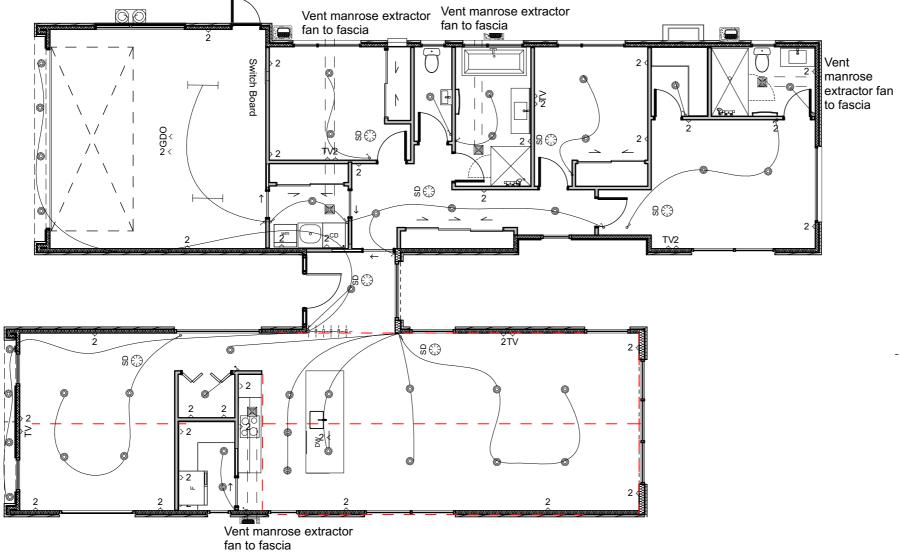
All Electrical work & Items are to comply with: NZBC F7/AS1, AS/NZS 3000, AS/NZS 3008, AS 3786, NZS 6401.

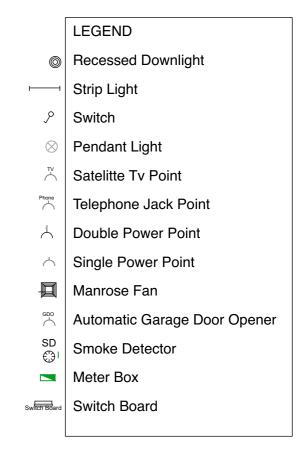
This layout is preliminary only - confirm final positioning & fitting allowance with client contract specifications.

SMOKE DETECTOR - approved interconnected smoke detectors required within any habitable space first alert or similar.

Electrical Safety Reg 2012, Only IC or IC-F Downlights to be Installed,

Down lights to be IC-RATED Type (max 1 per 5m2)







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SHEET TITLE:

SHEET

Electrical Plan

DRAWING SCALE: 1:100

TO BE GRADED SG8 AS PER 3604: 2011 SECTION 8. Beams/Lintels sizes shown are specified by Trussand frame manufacturer and must be confirmed by them.

They shall comply with NZS 3604:2011 SG8

Roof Framing: Trusses and ceiling joists are to be H1.2 treated pinus radiata timber framing.

T.P. = Top Plate

BRACING NOTES

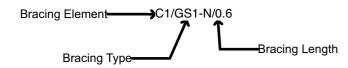
Where the distance between bracing lines at right angles to the plates is between 5.0m and 6.0m

GS1 - 0.4m minimum length Any 10 or 13mm gib board plasterboard fixed to one side

BL1-H - 0.4m minimum length 10 or 13mm GIB Braceline to one side only

EPB1 - 0.4m minimum length 7mm minimum H3.2 treated ECOply fixed to exterior side of wall framing, fixed according to manufacturers specifications

BRACING LEGEND



Each wall that contains one or more wall bracing elements shall be

connected at the top plate level, either directly, or through a framing member in the line of the wall, to external walls @

angles to it. Top plate fixing(s) of the capacity in tension or compression along the line of the wall bracing element are

follows:

shall verify all dimensions on site, before commencing any work. All dimensions are specified. All construction to comply with NZBC/NZS:3604 2011, alongside all current

For each wall containing wall bracing elements with a total

capacity of not more than 125 BU: to at least one such external wall by a fixing as shown in figure

8.16 of 6kN capacity (8.7.3.4 - NZS 3604:2011). For each wall containing wall bracing elements with a total

capacity of not more than 250 BU: to at least two external walls by

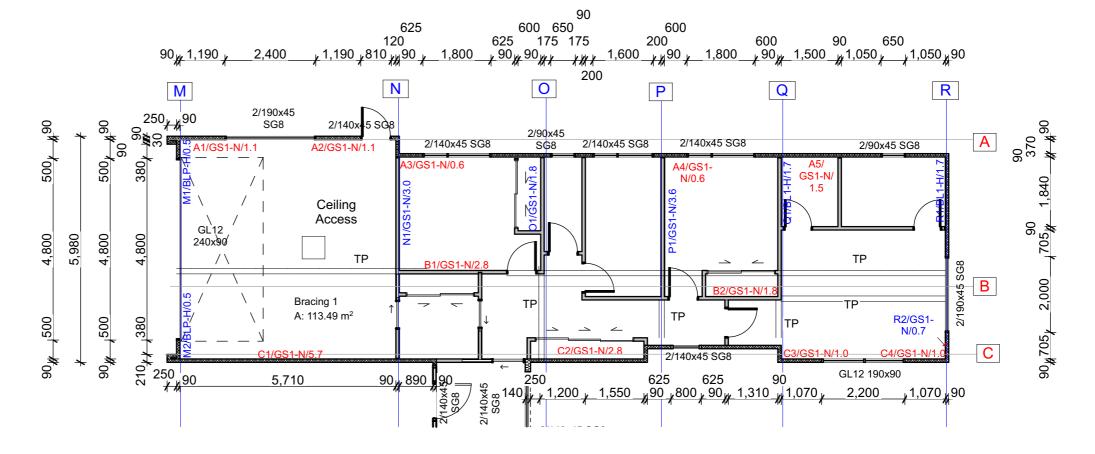
a fixing as shown in figure 8.16 of 6kN capacity (8.7.3.4 - NZS 3604:2011).

For each wall containing wall bracing elements with a total

capacity of more than 250 BU: to at least two external walls by

fixing as shown in figure 8.16 each having a rating of not less

2.4kN per 100 BU (8.7.3.4 - NZS 3604:2011).







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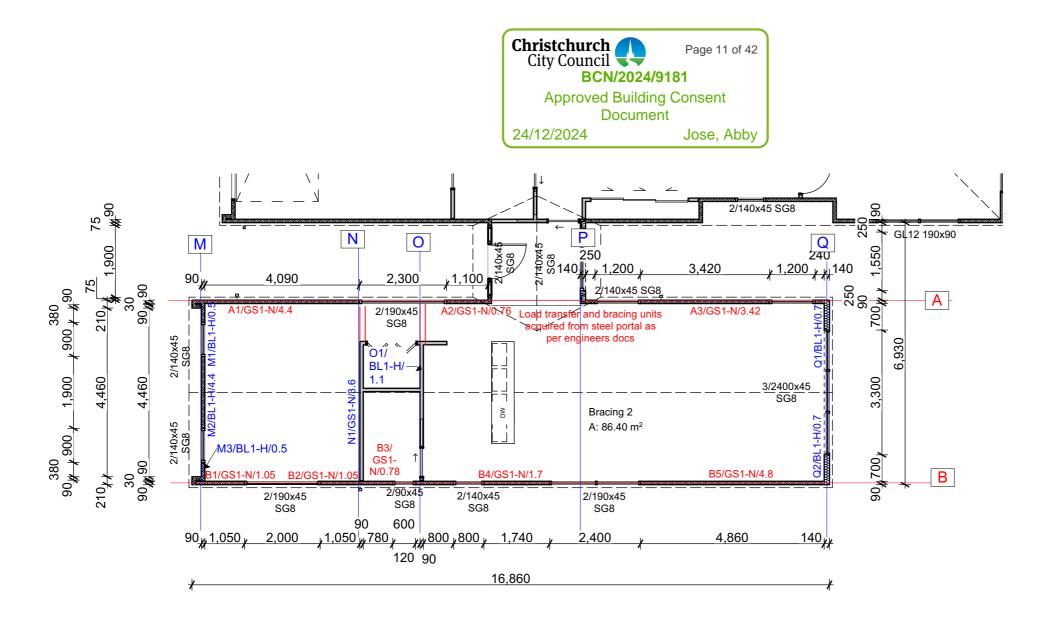
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SHEET TITLE:

SHEET

Bracing Plan

DRAWING SCALE: 1:100





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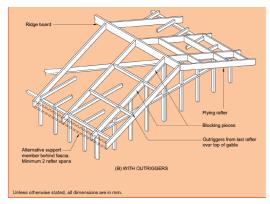
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Bracing Plan 2

DRAWING SCALE: 1:100



Outrigger size as per NZS 3604:2011, Table 10.9, 10.10, 70x45mm outrigger, spacing 900m with 600m Fixing type E 2/90 x 3.15mm skew nails + 2wire dogs. Alternative fixing capacity 4.7KN

Figure 10.16 - Gable verge framing (see 10.2.1.15)

NOTES

-Lintel Sizes: Truss manufacturers to size all lintels with special loads. (truss manufacturers lintel sizes take precedence over designers sizes (refer to truss manufacturers documentation)).

-Wall, lintel and truss fixings are also to be supplied.

Truss manufacturer to confirm foundation thickenings and supply if necessary relevant documentation for point loads and thickenings. Roof trusses at 900mm ctrs with H1.2 treated pinus radiata timber members. All dimensions shown are to framing. -Metal gutter to have minimum cross sectional area of 8700mm2

Note: Down pipes are to be as indicated 75x55mm (min.) (capacity of 55m2 of the floor plan) (Roof Pitch 25-35°).

-Colorsteel 5 Rib roofing fixed over self supporting building paper on 70x45 SG8 H1.2 pinus radiata timber purlins laid as per manufacturers specifications, on manufacturer

designed trusses @ 28 and 14 degree pitch at 80mm and 500mm, 400mm and 350mm (gable end) soffits

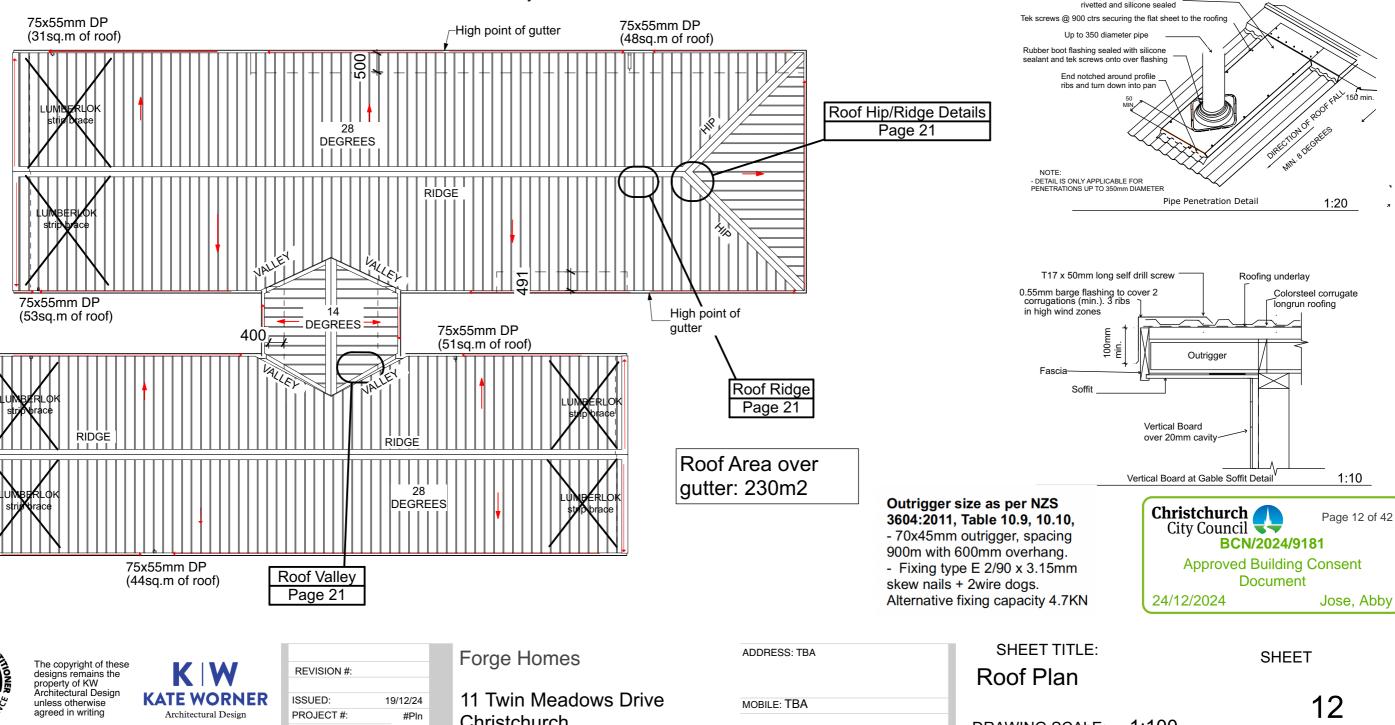
-End purlin spacing (eave and ridge) to be fixed at 600mm crs as per Table 11 NZBC E2/AS1. Type C2

-Refer to manufacturers documentation for roof bracing details, and any specific lintel requirements regarding girder trusses.

- Roof Framing: Trusses and ceiling joists are to be H1.2 treated pinus radiata timber framing

- R7.0 Ceiling Insulation

Valley boards - Radiata Pine H3.1 timber treatment





Christchurch



DRAWING SCALE: 1:100

Cover flashing extended up

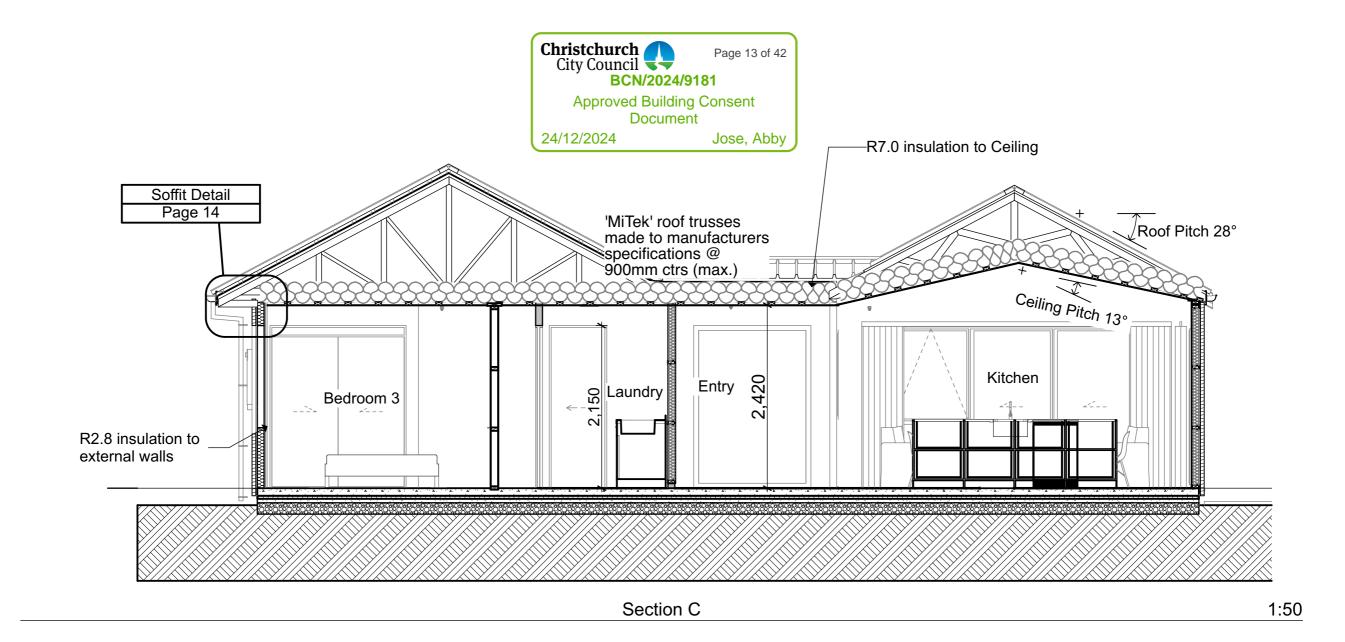
to ridge flashing 150mm min

Contractor shall verify all dimensions on site, before commencing any work. All dimensions are in millimetres unless otherwise specified. All construction to comply with NZBC/NZS:3604 2011, alongside all current standards alike.

CONSTRUCTION NOTES

- -It is the main contractors or surveyors responsibility to check and verify all dimensions and levels on site before commencement of work

- -Dimensioned measurements are to take precedence over scaling.
 -The territorial authority shall be notified of any changes made during construction.
 -All construction work is to conform to NZBC 1991 & amendments & NZS 3604:2011.
- -All timber fixed to concrete shall be separated from concrete with 'Malthoid' damp proof course.
- -Site measure all windows & external doors before manufacture.
 -All glazing to be in accordance with NZS 4223:2016. -These plans are to be read in conjunction with written specifications attached.
 -All timber treatments to be to NZS 3602:2011 & B1/AS1





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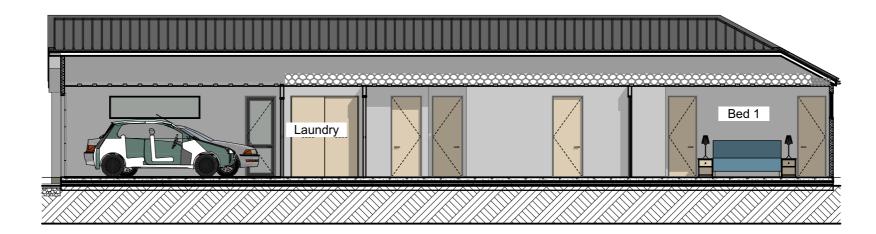
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Cross Section

DRAWING SCALE: 1:50

SHEET

13a



Cross Section C

1:100



Jose, Abby

Bulkhead dropping ceiling height to 2,400mm above kitchen cabinets,

pantry and study ares

14 of 42

nt

Section B

1:100

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Hall between kitchen -and lounge to continue

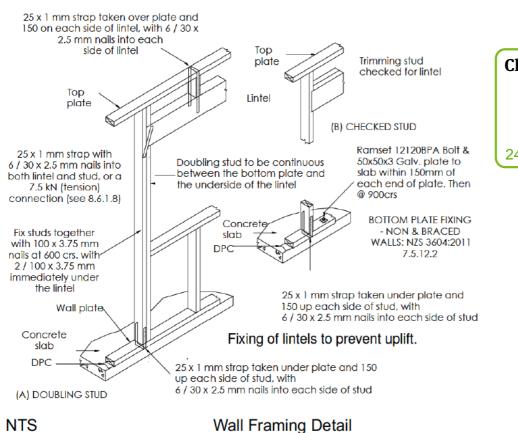
13 degree slope

SHEET TITLE:
Cross Section

DRAWING SCALE: 1:100

SHEET

13b



Roof Pitch 28° Colorsteel longrun roofing fixed on self supporting building paper over 70x45 H1.2 treated pinus radiata timber purlins fixed in accordance with manufacturers Christchurch City Council Page 15 of 42 specifications BCN/2024/9181 'MiTek' roof trusses made **Approved Building Consent** to manufacturers specifications Document @ 900mm ctrs (max) 24/12/2024 Jose, Abby R3.6 batts batts 500mm into R7.0 batts batts to roof space perimeter of roof space. Cut to suit between trusses. R3.6 batts to to allow a 25mm gap between roof perimeter. Cut to suit to insulation & underside of purlins allow a 25mm gap between Colorsteel insulation & underside of fascia & 140x35 H1.2 treated gutter pinus radiata timber 13mm gib-board screw fixed & glued to 70x35mm H1.2 pinus top plates radiata timber ceiling battens @ James Hardie soffit lining R2.8 Silicone beading - apply before painting board attached to 70x35 600mm ctrs (max) Insulation H1.2 pinus radiata timber batts to wall framing in accordance 10mm gib with manufacturers Resene Construction Systems board to walls specifications Insulated Facade System Reinforcing Mesh Approved beathable type wall underlay Vertical 50mm x 20mm battens 7 50 20 20mm cavity

Soffit Details

Tekton Building Underlay 10mm thick GIB-Board R2.8 Insulation Reinforcing Mesh Resene Construction Systems Insulated Facade System Timber framing Vertical Batten installed Bottom plate anchor by applicator Slab Level Starter Strip Flashing **SED** FOUNDATION Ground Level

0 0 0 Continuous Batten supplied and installed by the PEF Rod applicator (cavity to be closed off) MS Sealant Vertical Batten supplied Fastener and installed by the Reinforcing Mesh Integra Panel 50mm (20mm cavity) Building Underlay Resene Construction Systems Integra Facade System

cast-in M12 anchor bolt with DPC 50 mm min. between centreline

7.5.12.1 Cast-in anchors

Anchors shall be M12 bolts set within 150 mm of each end of the plate, spaced at a maximum of 1200 mm centres, bent to prevent turning and projecting sufficiently to allow a washer and fully threaded nut above the

(a) For internal and external walls, where the slab edge is formed with in-situ concrete, anchors shall be set not less than 90 mm into the concrete, maintaining a minimum edge distance of 50 mm.

Bottom Plate Connection

NTS

Foundation Detail

1:10

Soffit - Face Fixed Fascia

1:5

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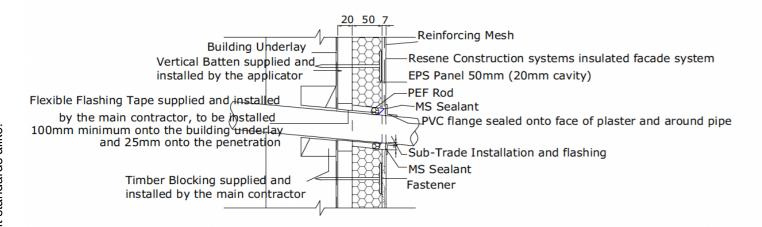
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DRAWING SCALE: 1:10

14

1:10



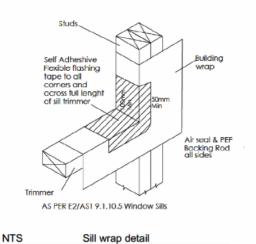
The responsibility for the penetration is the responsibility of the main contractor, where possible and practical use a flange.

It is important that there is adequate support for the penetration in the form of timber packing. The penetration should be angled slightly away from the dadding so any moisture is diverted away from the cladding.

Air Seal by the

Pipe Penetration Details





Building Underlay
Vertical Batten supplied and installed by applicator

Sill Flashing Tape supplied and installed by the main contractor

MS Sealant
Sticky Mesh
RCS EdgeSeal Flashing
Fastener

EPS Panel 50mm (20mm Cavity Resene Construction Systems Insulated Facade System

Allow a 25mm Gap between the back of the joinery and external facing timber framing to allow the sill flashing to fit.

Window Jamb Detail

Air Seal installed by the main contractor

MS Sealant

Sticky Mesh

RCS EdgeSeal Flashing

Resene Construction

Systems Insulated Facade system

EPS Panel 50mm(20mm Cavity)

Reinforcing Mesh

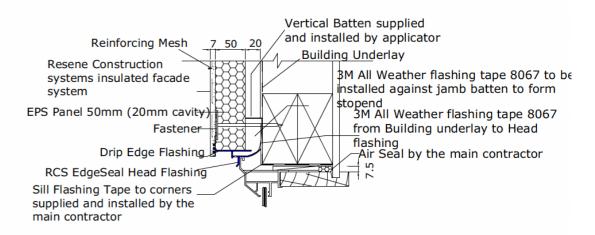
Vertical Batten

Supplied and installed

by Applicator

Allow a 25mm Gap between the back of the joinery and external facing timber framing to allow the sill flashing to fit.

Window Sill Detail



RCS EdgeSeal Head Flashing to extend past the aluminium window by 10mm

Window Head



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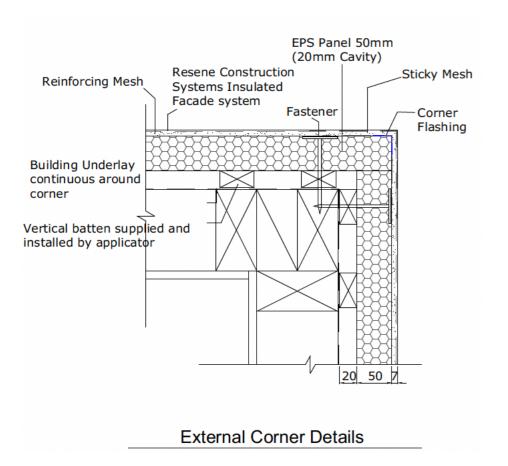
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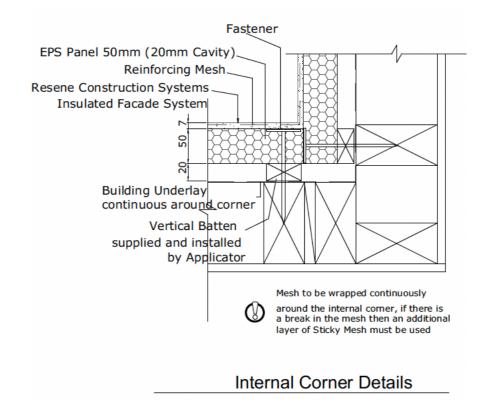
SHEET

Plaster Details

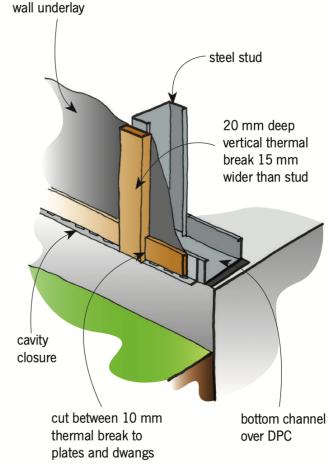
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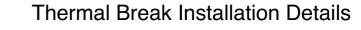
15





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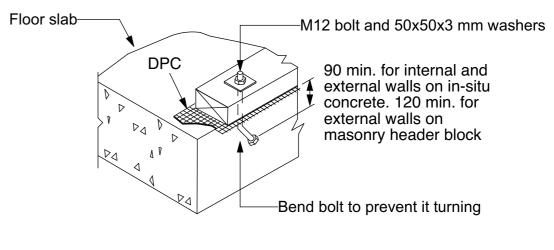
SHEET TITLE:

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Bottom Plate Fixing Detail



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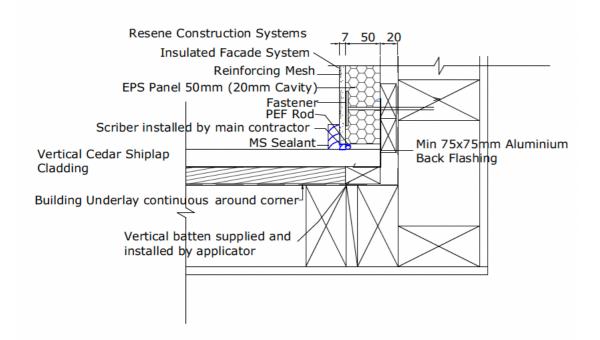
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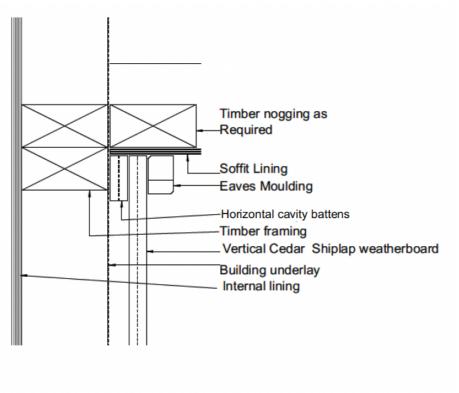


Internal Corner with Vertical Shiplap Detail

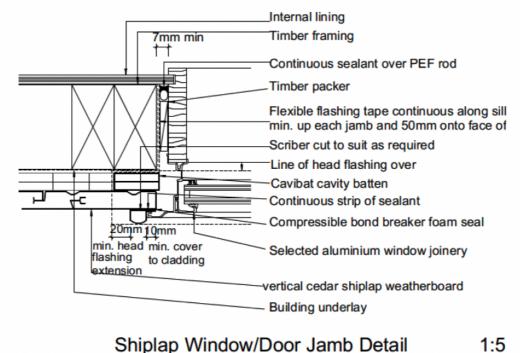
Continuous sealant over PEF rod _Timber framing Timber packer -Selected aluminium window joinery 8mm min. cover to cladding Flexible flashing tape continuous along sill 100mm min. up each jamb and 50mm onto face of underlay Provide window support as required by joinery Vertical Cedar Shiplap weatherboard 20mm horizontal cavity battens. H3.1 treated timber -Timber nogging as required Building underlay 10mm gib board lining

Shiplap Window Sill Detail

1:5







Shiplap Window/Door Jamb Detail

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SHEET TITLE:

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Vertical Shiplap Details

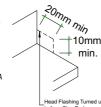
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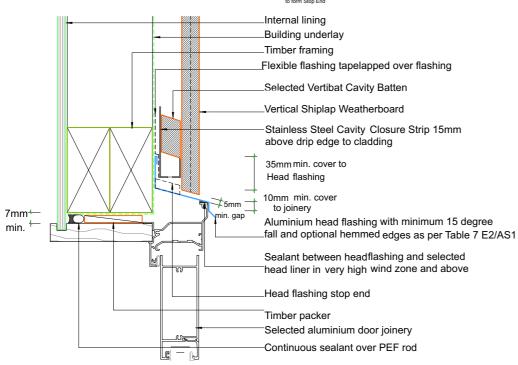
NOTES

- Use Grade 316 Stainless Steel Fixings. All weatherboard fixings pre-drilled maximum 1mm
- diameter smaller than the nail/screw gauge.

 All Hermpac timber products, cut ends and edges to be precoated as per Installation specifications.
- Where metal components may come in contact with the exposed face of the Accoya, please check
- to confirm if a bond break/separation barrier is required.

 For non-hemmed comer flashings, ensure a minimum 75mm cover to weatherboards beyond the point where BRANZ Bulletin 411 compliant weatherboard lap or rebate combinations terminate at
- Refer to NZBC Acceptable Solution E2/AS1 Table 21 for the separation requirements between CCA treated battens and metal flashings.
 - Prior to installation, refer to Accoya® Wood Information Guide V3.9.





Shiplap Window/Door head Detail

1:2

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Vertical Shiplap Details

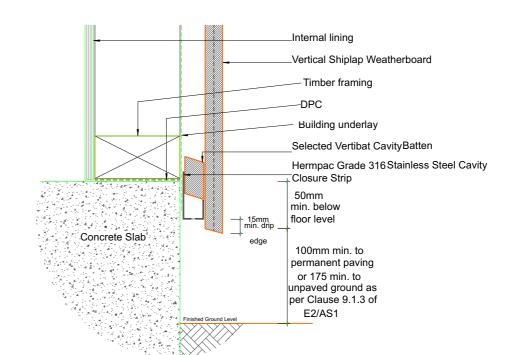
SHEET

19

DRAWING SCALE:



must also be used. Refer so NZBC Acceptable Solution E2/AS1 Table 21 for the separation requirements be reated battens and metal flashings. Prior to installation, refer to Accoya® Wood Information Guide V3.9.



Base of wall Cladding Detail

1:2

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BCN/2024/9181 **Approved Building Consent**

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Page 20 of 42

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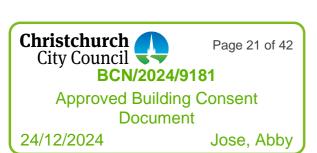
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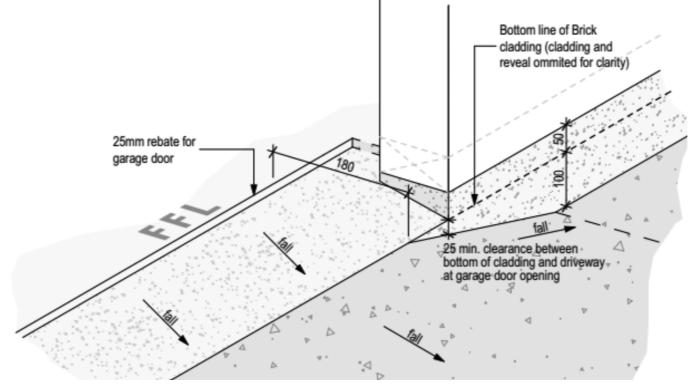


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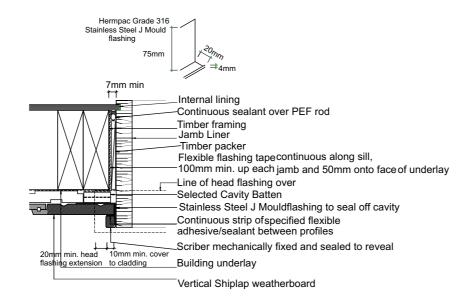
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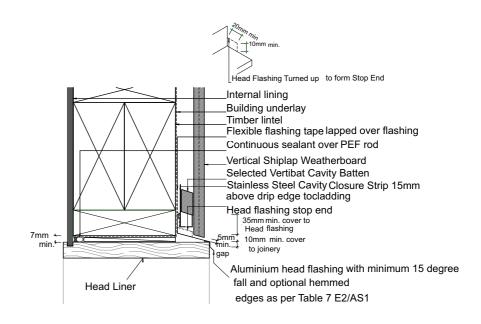




Garage Door Rebate



Garage Door Jamb Detail



Garage Door Head Detail



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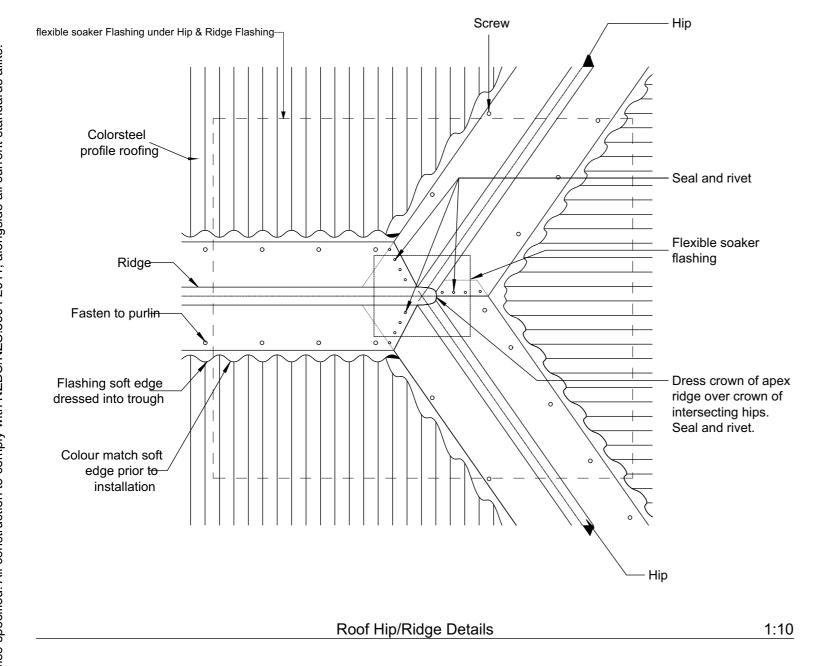
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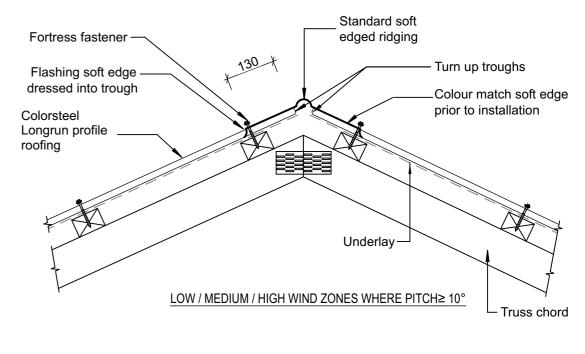
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Garage Details

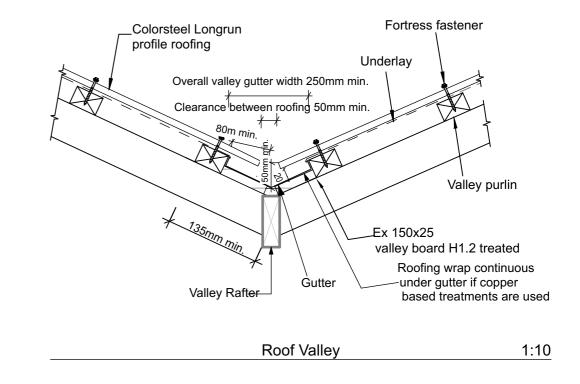
DRAWING SCALE:

SHEET





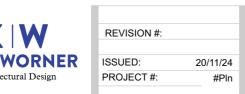
Roof Ridge





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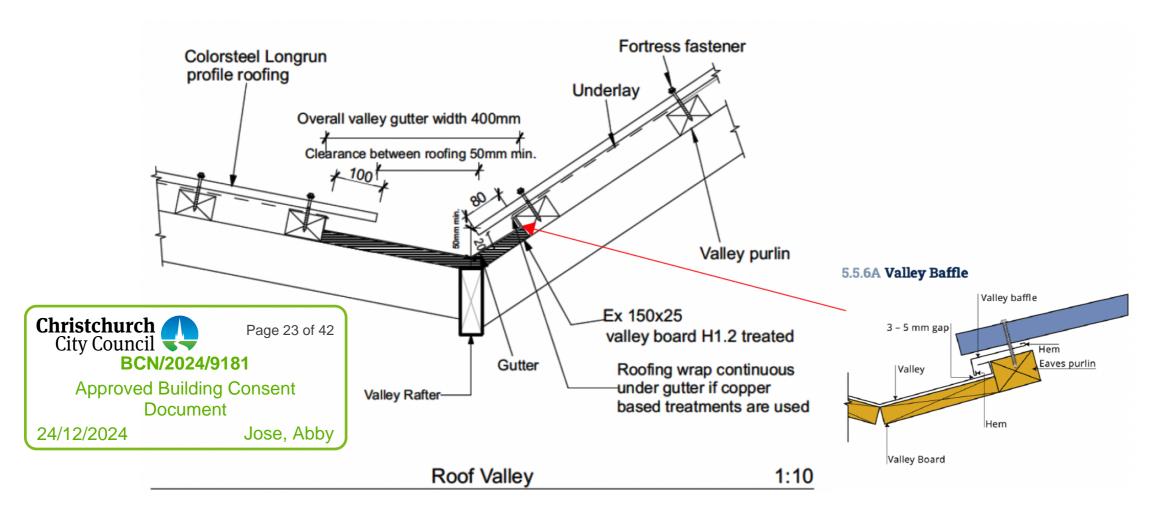
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Roof Details

DRAWING SCALE: 1:10

21

1:10



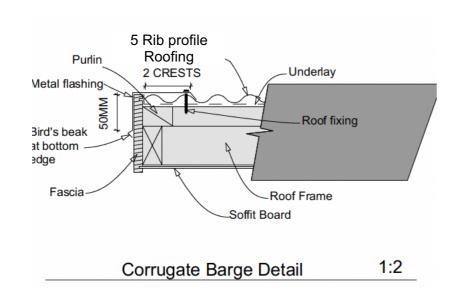


Table 10.10 - Purlins on their flat in all wind zones - SG 8 (see 10.2.1.16.1)

		Low Medium High					Vorus	Eutro biah		
span		w	Medium High			gn	Very	nign	Extra high	
	Spacing	Fixing	Spacing	Fixing	Spacing	Fixing	Spacing	Fixing	Spacing	Fixing
(mm)	(mm)	(type)	(mm)	(type)	(mm)	(type)	(mm)	(type)	(mm)	(type)
900	900	s	900	т	900	т	900	т	900	U
900	1200	Т	1200	т Т	1200	т Т	1050	U	900	U
900	1800	Т	1800	U	1400	U	1050	U	900	U
1200	1200	Т	1150	Т	800	Т	600	Т	500	Т
1200	1300	Т	1150	Т	800	т	600	Т	500	Т
1200	1700	Т	1450	U	1000	U	750	U	650	U
ype	Descripti	on					Alternat	ive fixing	capacity ((N)
	2/90 x 3.	15 gun nai	ls					0.8		
	1 / 10g se	lf-drilling s	crew, 80 m	m long			2.4			
	1 / 14g se	lf-drilling t	ype 17 scre	w, 100 mn		5.5				
	900 900 900 1200 1200 1200	Spacing (mm)	Spacing Fixing Fixing (mm) (mm) (type)	Spacing Fixing Spacing	Spacing Fixing Spacing Fixing	Spacing Fixing Spacing Fixing Spacing	Spacing Fixing Spacing Fixing Spacing Fixing	Spacing Fixing Spacing Fixing Spacing Fixing Spacing	Spacing Fixing Spacing Spacing Fixing Fixing Fixing Spacing Fixing Fixing	Spacing Fixing Fixing Spacing Fixing Spacing Fixing Spacing Fixing Fixing Spacing Fixing Spacing Fixing Spacing Fixing Spacing Fixing Spacing Fixing Fi



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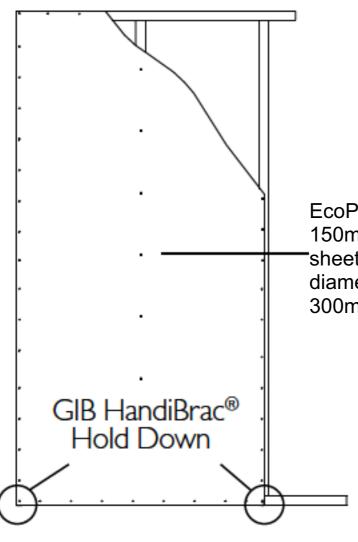
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SHEET TITLE: **Roof Details**

DRAWING SCALE:

SHEET



EcoPly fixed with 50x2.8mm nails at 150mm centres to perimeter of each sheet at no less than 7mm or 3 fastener diameters from sheet edge and at 300mm centres to intermediate studs

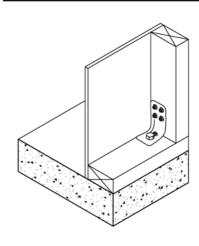
> Christchurch City Council Page 24 of 42 BCN/2024/9181 **Approved Building Consent** Document 24/12/2024 Jose, Abby

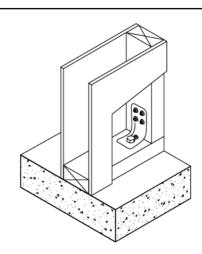
INSTALL STAINLESS STEEL FIXINGS TO ALL EXTERNAL CCA TREATED PLYWOOD **BRACING ELEMENTS**

Concrete Floor

External Walls

Internal Walls





Position GIB HandiBrac® as close as practicable to the internal edge of the bottom plate

Position GIB HandiBrac® at the stud/ plate junction

Hold-down fastener requirements

A mechanical fastening with a minimum characteristic uplift capacity of 15kN or screw bolt supplied with the bracket



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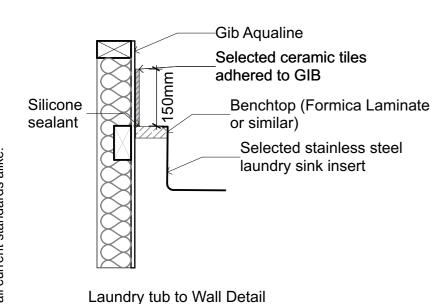
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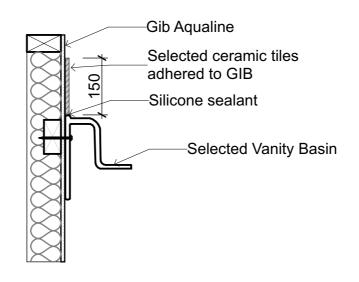
ADDRESS: TBA MOBILE: TBA #Contact E-mail jonroberts07@hotmail .com SHEET TITLE:

Gib Fixing Details

DRAWING SCALE:

SHEET

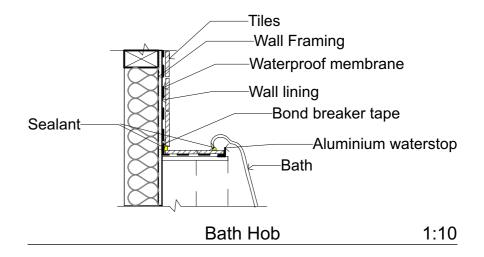




Vanity basin to Wall Detail

Waterproofing Detail

1:10







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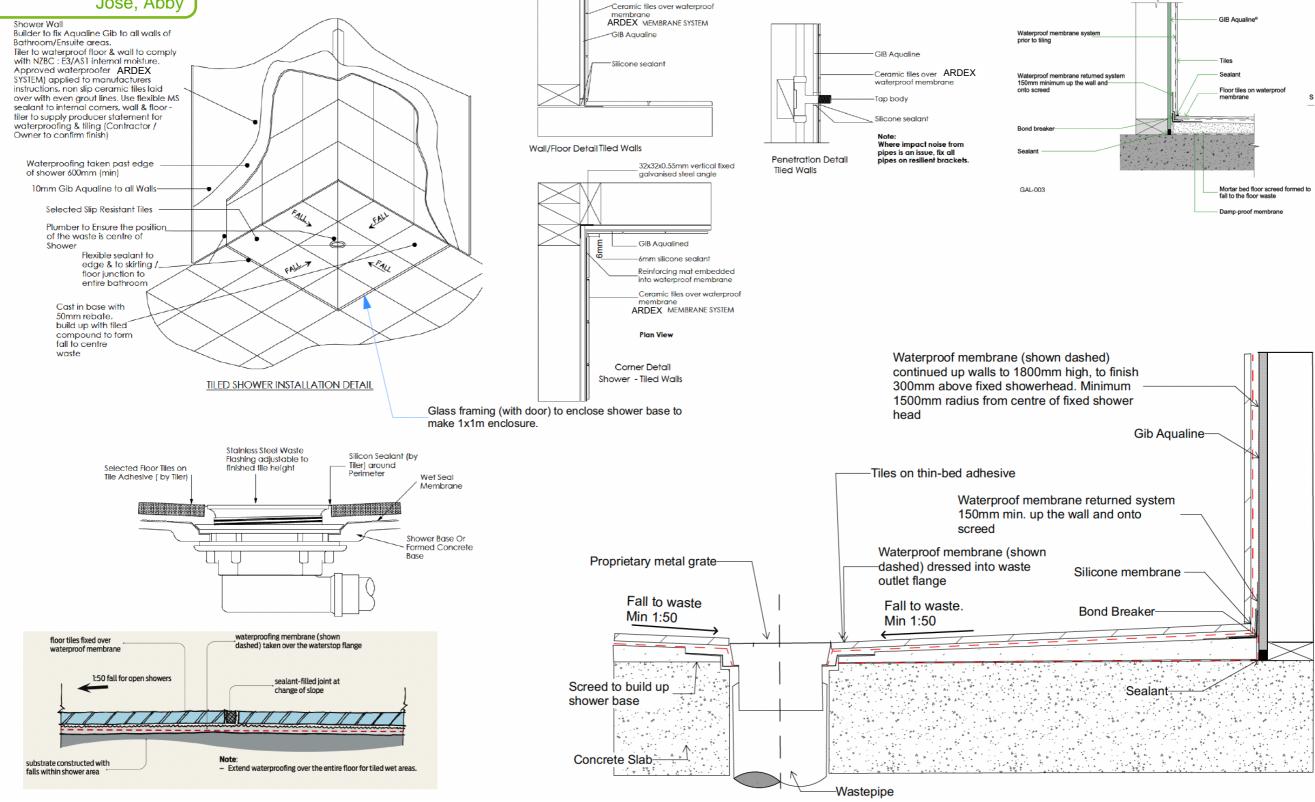
SHEET TITLE:

Bathroom Details

DRAWING SCALE: 1:10

SHEET

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SHEET TITLE: **Tiled Shower Details**

A: MORTAR UNDER CERAMIC FLOOR LINING JUNCTION

C: CER

DRAWING SCALE:

SHEET



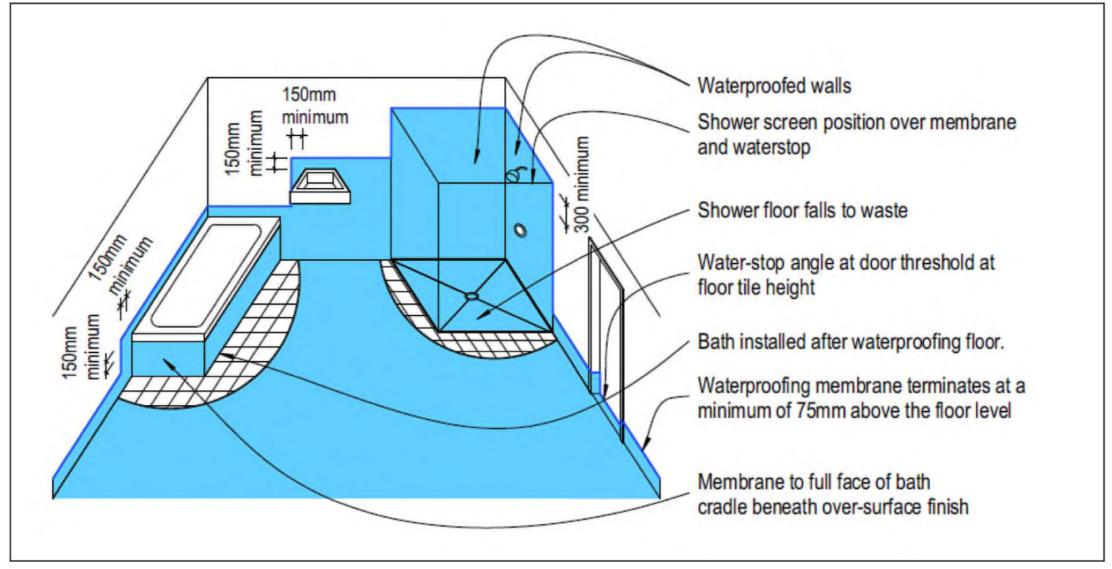


Figure 6: Typical extent of membrane in bathroom with hobless shower area











SHEET TITLE:

Bathroom/wet area

Details
DRAWING SCALE:

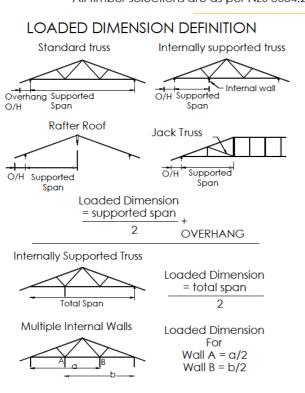
SHEET

WALL FIXING CHART

STUD TO TOP PLATE FIXING SCHEDULE (ALTERNATIVE TO NZS 3604:2011 TABLE 8.18)

NOTE:

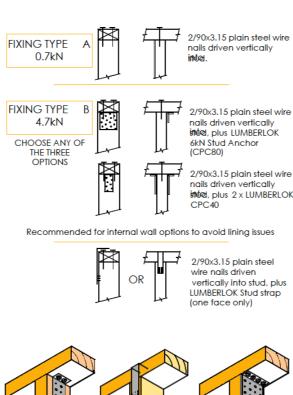
- All fixings are designed for vertical loads only Dead loads include the roof weight and standard ceiling weight of 0.20kPa. Refer to table 8.19, NZS3604:2011 for nailing schedule to resist
- These fixings assume the correct choice of rafter/truss to top plate connections have been made. Refer to the LUMBERLOK Truss Fixing Chart.
- Gable end wall top plate/stud connections where the adjacent rafter/truss is located within 1200mm of gable end wall with a maximum verge overhang of 750mm, requires fixing type A as shown below.
- All Fixings assume top plate thickness of 45mm maximum.
- Wall framing arrangements under girder trusses are not covered in this schedule.
- All timber selections are as per NZS 3604:2011

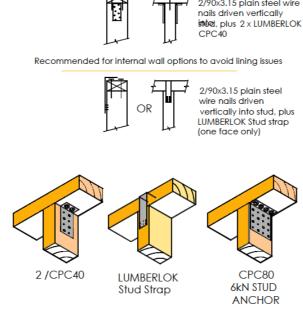


SELECTION CHART FOR FIXING LOADS - TOP PLATE TO STUD

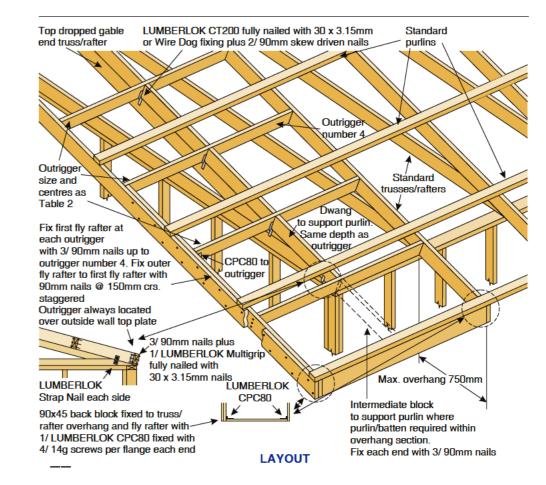
Loaded	Loaded	Loaded		Lig	ght Ro	oof			Hec	avy R	oof	
Dimension	Dimension	Dimension		Wi	nd Zc	ne			Wir	nd Zo	ne	
300mm	400mm	600mm	L	М	Н	VH	EH	L	M	Н	VH	ΕH
3.0	2.3	1.5	Α	Α	В	В	В	Α	Α	В	В	В
4.0	3.0	2.0	Α	Α	В	В	В	Α	Α	В	В	В
5.0	3.8	2.5	Α	В	В	В	В	Α	Α	В	В	В
6.0	4.5	3.0	Α	В	В	В	В	Α	Α	В	В	В
7.0	5.3	3.5	Α	В	В	В	В	Α	Α	В	В	В
8.0	6.0	4.0	Α	В	В	В	В	Α	Α	В	В	В
9.0	6.8	4.5	В	В	В	В	В	Α	Α	В	В	В
10.0	7.5	5.0	В	В	В	В	В	Α	Α	В	В	В
11.0	8.3	5.5	В	В	В	В	В	Α	Α	В	В	В
12.0	9.0	6.0	В	В	В	В	В	Α	Α	В	В	В

FIXING OPTIONS





Christchurch Page 28 of 42 City Council BCN/2024/9181 **Approved Building Consent Document** 24/12/2024 Jose, Abby



Gable Verge Details

Suitable for walls supporting roof members @ 600, 900 or 1200mm crs.

Wind Zones L, M, H, VH, EH, as per NZS 3604:2011



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KATE WORNER Architectural Design

REVISION #: ISSUED: 20/11/24 PROJECT #: #PIn

Forge Homes

11 Twin Meadows Drive Christchurch

ADDRESS: TBA MOBILE: TBA #Contact E-mail jonroberts07@hotmail .com SHEET TITLE:

SHEET

Stud and Lintel Fixings

27

DRAWING SCALE:

WALL FIXING CHART

LINTEL FIXING SCHEDULE

(ALTERNA TIVE TO NZS 3604:2011 TABLE 8.14 & FIGURE 8.12)

SELECTION CHART FOR LINTEL FIXING

	Lintel	Loaded		Liç	ght F	Soc
	Span	Dimension		W	ind Z	Zon
		See Fig 1.8 NZS 3604:2011	L	М	Н	VH
	0.7	2.0	Е	Е	Е	Е
		3.0	Е	Е	Е	F
		4.0	Е	Е	F	F
e e		5.0	Ε	F	F	F
Lintel drop		6.0	Ε	F	F	G
_	0.9	2.0	Е	Е	Е	F
		3.0	Е	Е	F	F
		4.0	Е	Е	F	F
		5.0	Е	F	F	F
Jd		6.0	Е	F	F	G
Jd	1.0	2.0	Ε	Е	Е	F
		3.0	Е	Е	F	F
		4.0	Е	F	F	F
⊨		5.0	Е	F	F	G
E D D		6.0	Ε	F	F	G
<u>p</u>	1.2	2.0	Е	Е	F	F
		3.0	Е	Е	F	F
		4.0	Е	F	F	G
		5.0	Е	F	F	G
		6.0	F	F	G	G

DEFINITIONS

Lintel span dimension point

oubling or understu

Sill or Header

Top plate

Bottom

Number of studs

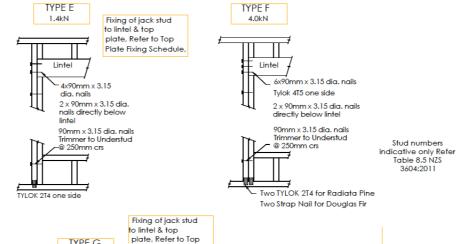
studs

indicative onl

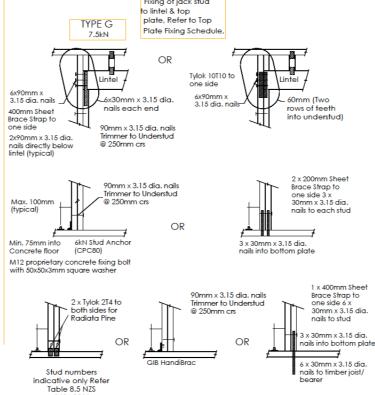
LINILLTIAINO											
Lintel	Loaded		Liç	ght F	Roof			Hec	ıvy I	Roof	
Span	Dimension		W	ind i	<u>Zone</u>	;					
	See Fig 1.8 NZS 3604:2011	L	M	Н	VH	EH	L	M	Н	VH	EH
0.7	2.0	Е	Е	Е	Е	F	Е	Е	Е	Е	Е
	3.0	Е	Е	Е	F	F	Е	Е	Е	Е	F
	4.0	Е	Е	F	F	F	Ε	Е	Е	F	F
	5.0	Е	F	F	F	G	Е	Ε	F	F	F
	6.0	Ε	F	F	G	G	Ε	Ε	F	F	G
0.9	2.0	Ε	Е	Е	F	F	Ε	Е	Е	Е	F
	3.0	Е	Е	F	F	F	Е	Е	Е	F	F
	4.0	Е	Е	F	F	F	Ε	Е	F	F	F
	5.0	Е	F	F	F	G	Ε	Ε	F	F	F
	6.0	Ε	F	F	G	G	Ε	Ε	F	F	G
1.0	2.0	Ε	Ε	Е	F	F	Ε	Ε	Е	Е	F
	3.0	Е	Е	F	F	F	Е	Е	Е	F	F
	4.0	Е	F	F	F	G	Е	Е	F	F	F
	5.0	Е	F	F	G	G	Ε	Е	F	F	G
	6.0	Е	F	F	G	G	Ε	Ε	F	F	G
1.2	2.0	Е	Е	F	F	F	Е	Е	Е	F	F
	3.0	Е	Е	F	F	F	Е	Е	F	F	F
	4.0	Е	F	F	G	G	Е	Е	F	F	G
	5.0	Е	F	F	G	G	Е	Е	F	F	G
	6.0	F	F	G	G	Н	Ε	Ε	F	G	G

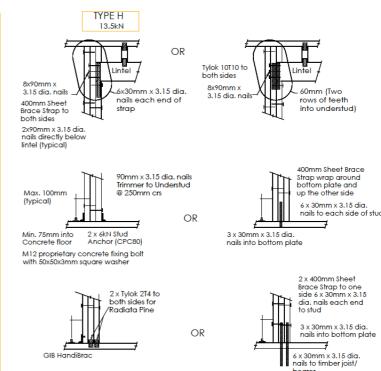
Lintel	Loaded		Liç	ght F	Roof			Hec	avy I	Roof	
Span	Dimension :		W	ind i	Zone			Wind Zone			
	See Fig 1.8 NZS 3604:2011	L	М	Н	VH	EH	L	М	Н	VH	EH
1.	2.0	Е	Е	F	F	F	Е	Е	Е	F	F
5	3.0	Е	F	F	F	G	Е	Ε	F	F	F
	4.0	Ε	F	F	G	G	Е	Ε	F	F	G
	5.0	F	F	G	G	Н	Е	Е	F	G	G
	6.0	F	F	G	Н	Н	Е	Е	F	G	Н
2.0	2.0	Е	F	F	F	G	Е	Е	F	F	F
	3.0	Е	F	F	G	G	Е	Е	F	F	G
	4.0	Е	F	G	G	Н	Е	E	F	G	G
	5.0	F	F	G	Н	Н	Е	Е	F	G	Н
	6.0	F	G	G	Н	Н	Е	F	G	Н	Н
2.4	2.0	Е	F	F	G	G	Е	Е	F	F	G
	3.0	F	F	G	G	Н	Е	E	F	G	G
	4.0	F	G	G	Н	Н	Е	Ε	F	G	Н
	5.0	F	G	G	Н	Н	Е	F	G	Н	Н
	6.0	F	G	Н	Н		Ε	F	G	Н	Н
3.0	2.0	Е	F	F	G	G	Е	Е	F	F	G
	3.0	F	F	G	Н	Н	Е	Е	F	G	Н
	4.0	F	G	G	Н	Н	Е	F	G	Н	н
	5.0	F	G	Н	Н	-	Е	F	G	Н	н
	6.0	F	G	Н	-	-	Ε	F	G	Н	-
3.6	2.0	F	F	G	G	Н	Е	Е	F	G	G
	3.0	F	F	G	Н	Н	Е	F	G	G	Н
	4.0	F	G	Н	Н	-	Е	F	G	Н	н
	5.0	F	G	Н	-	-	Е	F	G	Н	-
	6.0	G	Н	Н	-	-	Е	F	Н	-	-
4.2	2.0	F	F	G	G	Н	Е	Е	F	G	G
	3.0	F	G	Н	Н	-	Е	F	G	Н	Н
	4.0	F	G	Н	-	-	Е	F	G	Н	-
	5.0	G	Н	Н	-	-	Е	F	Н	-	-
	6.0	G	Н	-	-	-	Е	F	Н	-	-
4.5	2.0	F	F	G	Н	Н	Е	E	F	G	Н
	3.0	F	G	Н	Н	-	Е	F	G	Н	н
	3.4	F	G	Н	Н	-	Е	F	G	Н	
	4.0	F	G	Н	-	-	Е	F	G	Н	_
	5.0	G	Н	-	-	-	Е	F	Н	-	_
	6.0	G	Н	-	-	-	Е	F	Н	-	
4.8	2.0	F	F	G	н	н	Е	Е	F	G	Н
	3.0	F	G	Н	н		Ē	F	G	Н	н
	3.2	F	G	н	н		Ē	F	G	H	-:-
	4.0	F	G	н			Ē	F	Н	н	-
	5.0		Н	Н -		-	E	F	н		1
	6.0	G		-		-		F		-	-
	5.0	G	Н	-	-	-	Е	г	Н	-	-

LINTEL FIXING TYPES









NOTES:

Roof Tributary Area = approx. 1/2 x (Total roof area on girder and rafter trusses supported by lintel Assummed girder truss is at mid-span or middle third span of lintel Use similar fixings for both ends of lintels All other cases require specific engineering design

3604:2011

Forge Homes

Christchurch

ADDRESS: TBA MOBILE: TBA #Contact E-mail jonroberts07@hotmail .com

SHEET TITLE:

SHEET

28

Stud and LIntel Fixings

DRAWING SCALE:



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KATE WORNER Architectural Design

REVISION #:

20/11/24

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ISSUED:

PROJECT #:

11 Twin Meadows Drive

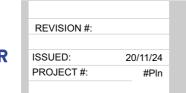
			All Openir	ngs Schedule)	
Full Element ID	Opening Name	Quantity	W x H Size	Sill height	2D Symbol	View from Side Opposite to Opening Side
D012	CI Tools Door	1	760×2,150	0		Opening Olde
D012	CI Tools Door	5	810×2,150	0	i i	
D013	CI Tools Door	1	760×2,150	0	i i	
D013	CI Tools Door	1	810×2,150	0		Ā
D013	Pocket Door 26	1	760×2,100	0		Ī
D013	Pocket Door 26	1	760×2,150	0	→ <u> </u>	Ī
D013	Pocket Door 26	1	810×2,150	0	→ -	Ī
D013	Pocket Door 26	1	860×2,150	0	→ <u>•</u>	Ī
D014	Sliding Folding Multi	1	1,350×2,150	0		
D015	Door with 2 Sidelight	1	1,900×2,150	0		
D025	CI Tools Garage Door	1	4,800×2,200	0		
D027	CI Tools Door	1	2,600×2,150	0		
D027	CI Tools Door	2	1,800×2,150	0		
D028	CI Tools Door	1	1,800×2,150	0		
W003	CI Tools Window	2	1,800×1,350	800		
W006	CI Tools Window	2	650×1,200	950		
W007	CI Tools Window	1	1,600×1,350	800	0 0 0	
W007	CI Tools Window	1	2,200×2,150	0	0 0 0	TI TI
W007	CI Tools Window	1	2,400×2,150	0		H
W007	CI Tools Window	1	3,300×2,150	0	<u> </u>	
W008	CI Tools Window	1	2,000×700	1,550	00	
W008	CI Tools Window	1	2,400×600	1,550		
W019	CI Tools Window	1	1,550×2,150	0		
W019	CI Tools Window	2	900×2,150	0		П
W020	CI Tools Window	1	2,000×2,150	0		Ē
W022	CI Tools Window	1	2,300×600	1,550	0 0	
W022	CI Tools Window	1	600×2,150	0		<u> </u>
W022	CI Tools Window	2	1,200×2,150	0		Ă
W022	CI Tools Window	2	800×2,150	0		Ē



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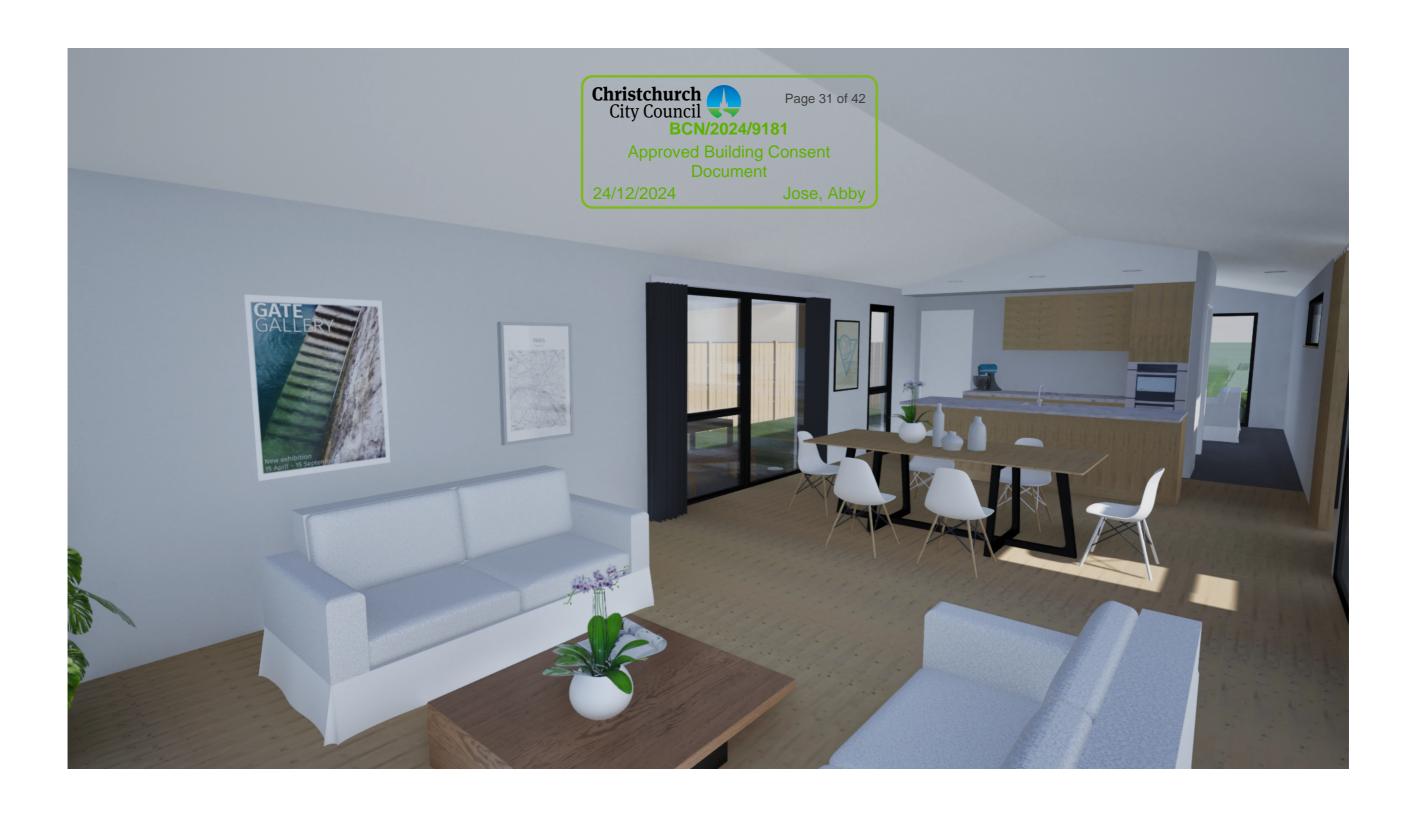


Forge Homes

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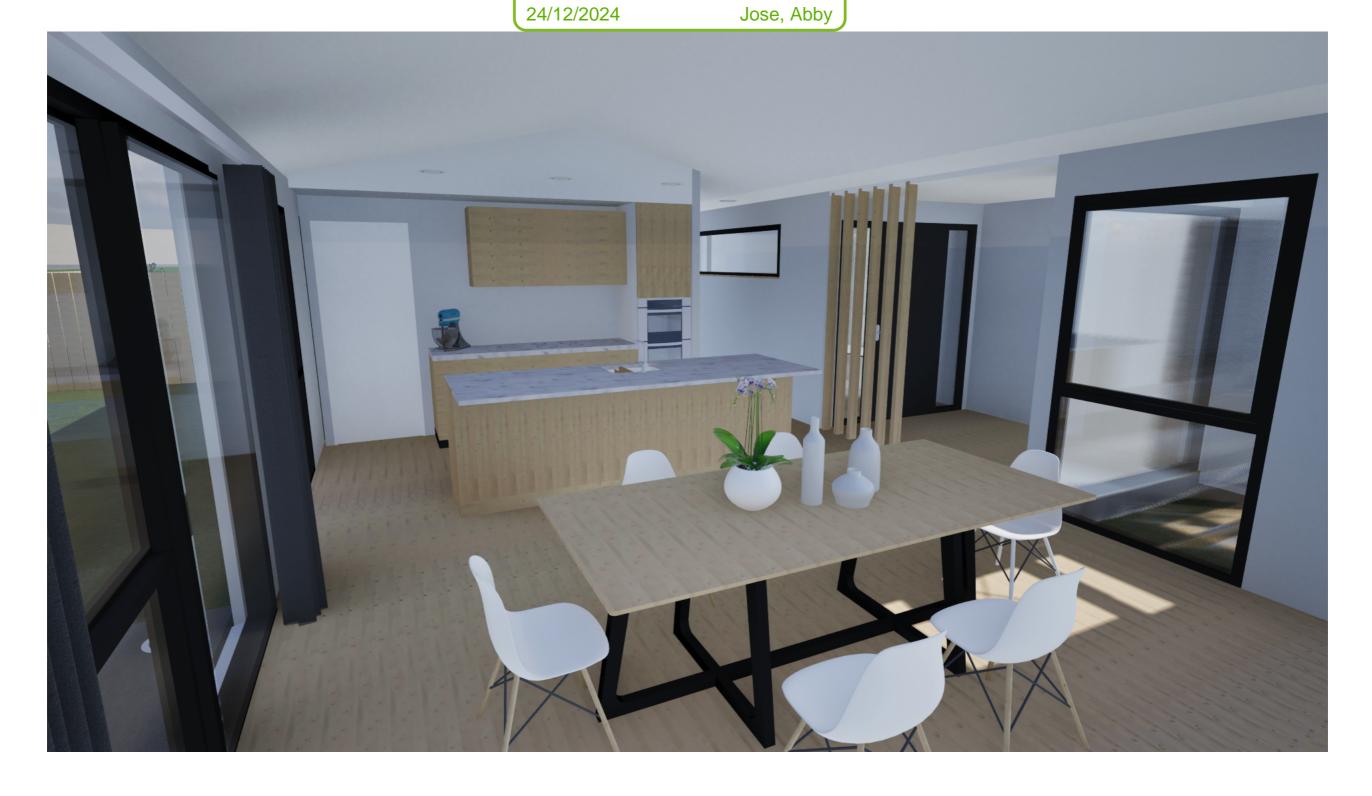
11 Twin Meadows Drive Christchurch

ADDRESS: TBA MOBILE: TBA #Contact E-mail jonroberts07@hotmail .com SHEET TITLE:

3D View

DRAWING SCALE:

SHEET





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3D View

DRAWING SCALE:

SHEET







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SHEET TITLE: Birdseye Floor Plan

DRAWING SCALE: 1:100

SHEET

Forge Homes Roberts House

11 Twin Meadows Drive, Casebrook, 8051

File Number 24008.065



STRUCTURAL DRAWINGS

Issue Register

Rev Date Description
- 30.10.24 For Consent

Sheet List

Sheet No.	Rev	Date Issued	Sheet Title
S1		30.10.24	General Notes
31	-	30.10.24	General Notes
S2	-	30.10.24	RibRaft Layout Foundation Plan
S3	-	30.10.24	RibRaft Details
S4	-	30.10.24	RibRaft Details
S5	-	30.10.24	RibRaft Details
S6	-	30.10.24	Typical Services Penetration Details
S7	-	30.10.24	Structural Details
S8	-	30.10.24	Structural Details



contractor shall verify all dimensions before commencing work

GENERAL

- · Do not scale. Refer any discrepancies to the Architect
- · These drawings are to be read in conjunction with the Architects drawings.
- The builder shall be responsible for any damage to works during construction.
- The sand blinding layer shall be 20mm min. & 50mm max. to aid levelling & to prevent rocking of pods.
- Vapour barrier to be 0.25mm (250 micron) polythene complying with NZS 4229 / NZS 3604.
- Finished ground level adjacent to slab to be protected from wind, water erosion and undermining.

FOUNDATIONS

- For assumed allowable bearing capacity refer to calculations/installer guide.
 Unless otherwise noted in documentation.
- If there is any doubt about the integrity of the material on which the slab is to be founded Supervising Engineer must be notified <u>immediately</u>.

CONCRETE

- All workmanship & materials to conform to NZS 3109, NZS 4210 & local authority regulations.
- Minimum covers to reinforcement:
 - Exposed to earth 75mm.
 - Protected by vapour barrier 50mm.
 - Not exposed to weather except for a brief period during construction 25mm.
- No holes or chases other than those specified are to be made in the slab without the approval of Engco.
- All concrete shall have 20mm nominal maximum aggregate size & 120mm slump & shall comply with NZS 3109.
- All concrete to be mechanically vibrated & carefully worked around the reinforcement & into the corners of the formwork.
- Ribraft make-up to be

100mm Floor Slab - 220mm pods (20MPa min. TC2 Dramix 4D 80/60 Fibre Mix) G500E SE-62 Ductile mesh on 50mm chairs

The design Fibre mix shall be supplied so that the residual flexural tensile stresses $f_{R,1}$ & $f_{R4,K}$ shall be 1.5 MPa & 1.0 MPa respectively.

REINFORCEMENT

- All reinforcing shall be New Zealand sourced and conform to AS/NZS 4671 :2001 in grade 300E or grade 500E.
- All bends to be made cold without fracture.
- All reinforcing shall be deformed type unless otherwise stated.
- Grade 500E deformed bars shall be designated 'H', Grade 300E deformed bars shall be designated 'D' and Grade 300E round bars shall be designated 'R'.
- All reinforcement to be fixed & tied where necessary in its specified position.
- Welding of steel is not permitted.
- Spacers:
- Edge at 1200mm ctrs (one on edge & two on corners, typically).
- Internal one on each side of pod (typically).
- All mesh shall comply with AS/NZS 4671 & shall conform with elongation requirements exceeding 10%.
- All mesh shall lap a minimum of 250mm (end extensions not included in lap length).

GEOTECHNICAL REFERENCE:

Refer: David Lovell-Smith

Foundation Soils Investigation

Ref. No: 20962 Dated: 14/04/2023 Bearing: 200kPa



INSPECTIONS

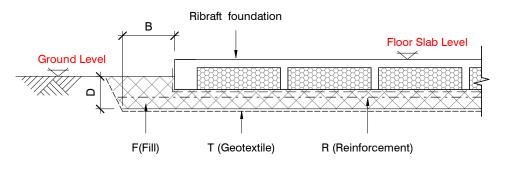
Inform ENGCO consulting 48 hours in advance of any inspections required for code compliance certification.

Contact ENGCO - Ph. 03 366 7955 & guote ENGCO Ref. No.

.........

INSPECTIONS REQUIRED

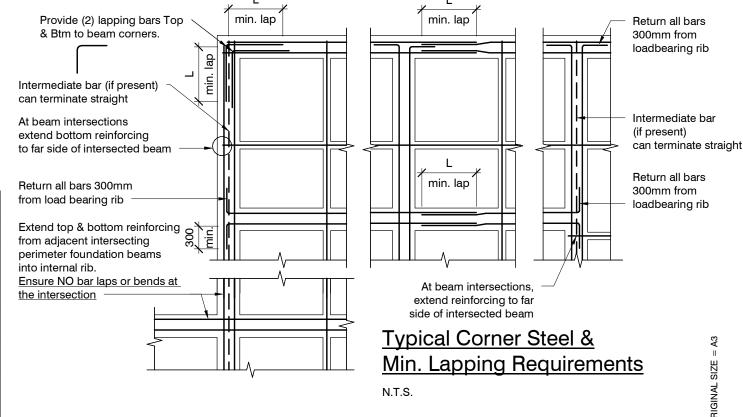
- 1. Confirm bearing at excavation by ENGCO
- Contractor to supply (4) N.D. Tests at finished compacted surface if depth of fill is greater than 400mm.
- 3. Pre-pour of slab by ENGCO



BUILDING PLATFORM

	BUILDING PLATFORM TABLE:			
В	600mm			
D	400-600 bgl (approx). Remove organic topsoil only.			
Т	N/A			
R	N/A			
F	AP40 or AP65 fill - 95% Dry Density. Compact in 150mm layers max.			

Refer Architectural drawings for Finished Floor Level

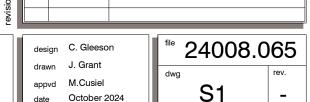


KIW

Roberts House

11 Twin Meadows Drive, Casebrook, 8051





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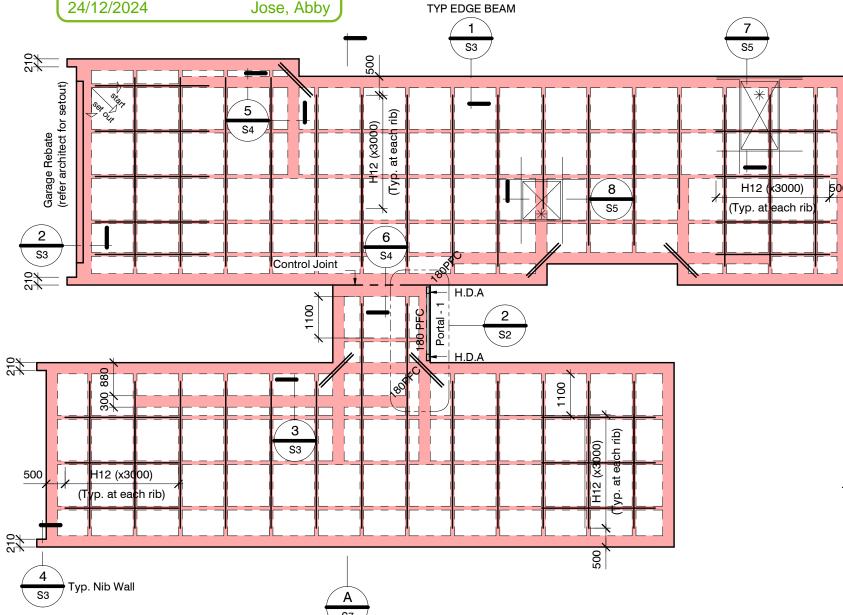
K | W
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Architectural Design

SLAB PLAN SETOUT:

Slab drawn to Architectural framing and DOES NOT ACCOUNT FOR ANY OVERHANG. Use Architectural drawings for any framing overhang information which may affect slab dimensions.

50mm shower rebate, maintain min. slab thickness Trim perimeter with H12. extending 750mm past (typ.) (or 300mm return) Refer to Architects drawings for setout dimensions

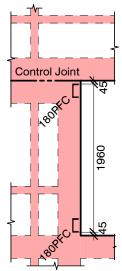


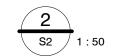


RIBRAFT FOUNDATION LAYOUT PLAN

1:100

Refer Architects drawings for slab dimensions





GENERAL NOTES:

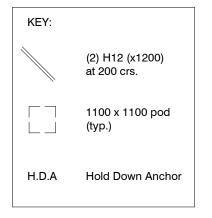
Locations shown of internal floor beam thickenings are indicative only. It shall be the responsibility of the Contractor to ensure that they are located centrally under the load bearing walls to which they pertain.

contractor shall verify all dimensions before commencing work

Under no circumstance should pipework for services be run longitudinally in 100mm ribs. Similarly they should not be run along perimeter foundations nor internal floor beam thickenings

Vertical or horizontal penetrations through the foundation edge beam or floor beam thickenings must be made through the middle third of the member. Vertical penetrations should not be made through 100 mm ribs.

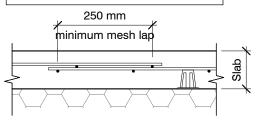
Refer to Architects drawings for floor slab, set downs, steps, rebates, holding down bolts, cast-in componentry and the like.



100mm Floor Slab - 220mm pods (20MPa min. TC2 Dramix 4D 80/60 Fibre Mix) G500E SE-62 Ductile mesh on 50mm chairs

The design Fibre mix shall be supplied so that the residual flexural tensile stresses $f_{R,1}$ & $f_{R4,K}$ shall be 1.5 MPa & 1.0 MPa respectively.

All Mesh shall lap a minimum of 250mm (end of extensions not included).



ſ	-	30.10.24	For Consent

office@engco.nz **Consulting Engineers**

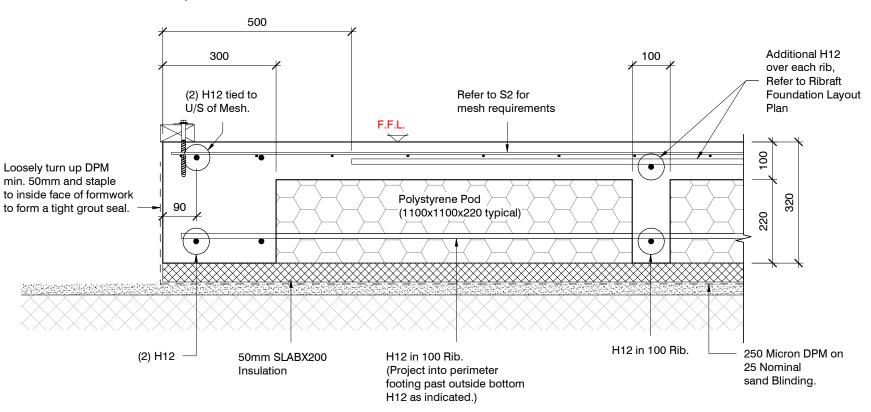


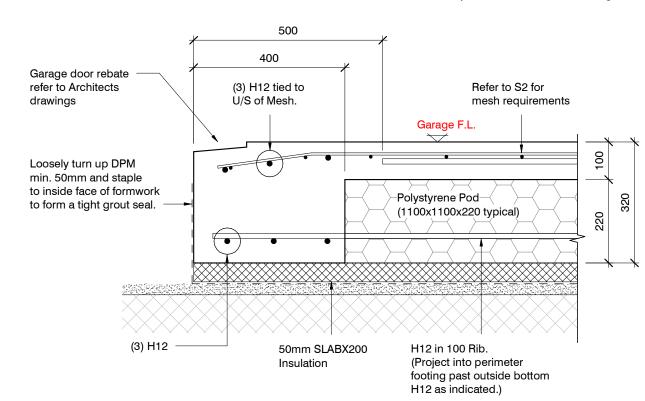
Roberts House

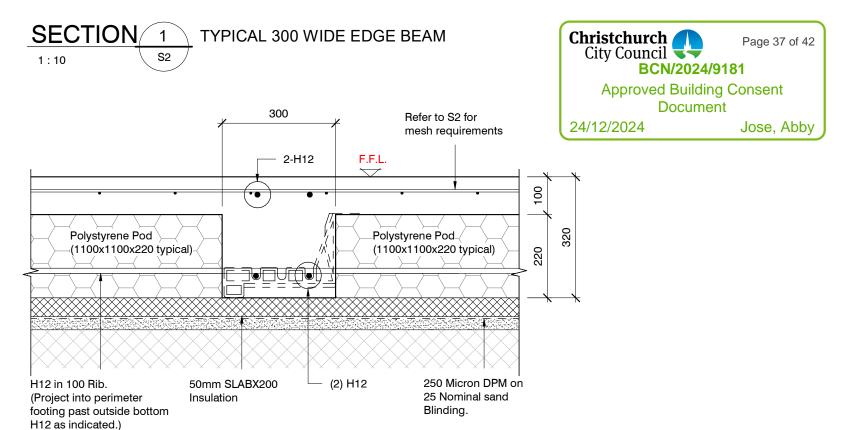
11 Twin Meadows Drive, Casebrook, 8051

RibRaft Layout Foundation Plan

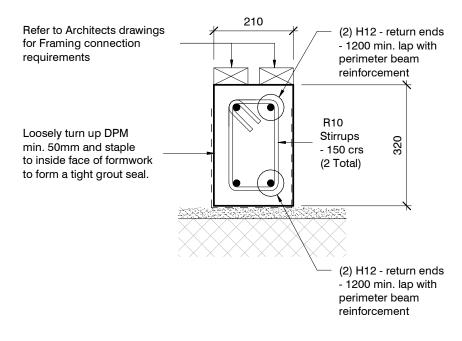
C. Gleeson J. Grant M.Cusiel appyd October 2024 24008.065 S2

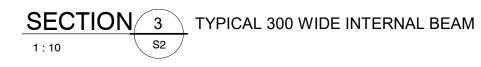














TYPICAL WING WALL

- 30.10.24 For Consent

ENGCO office@engco.nz office@engco.nz www.engco.nz



Roberts House

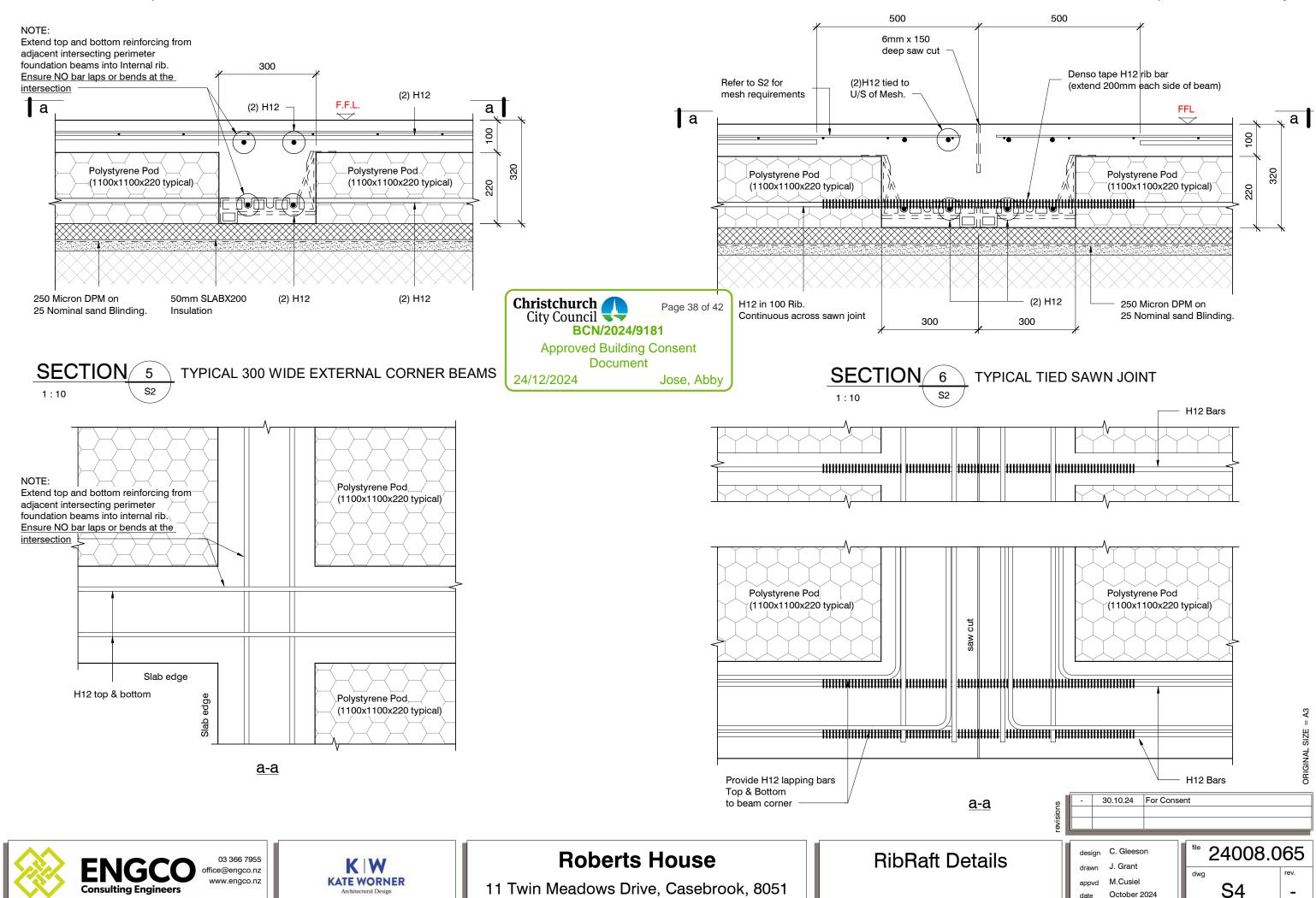
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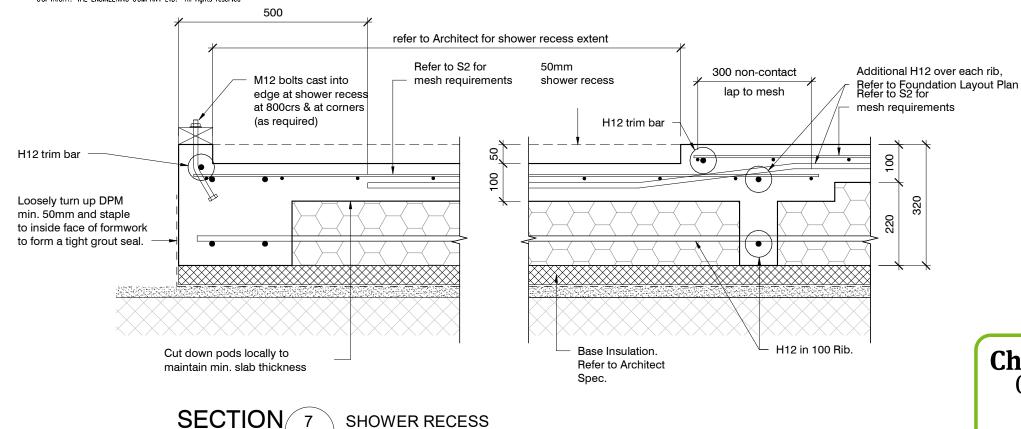
RibRaft Details

design C. Gleeson
drawn J. Grant
appvd M.Cusiel
date October 2024

24008.065

dwg S3 rev. -

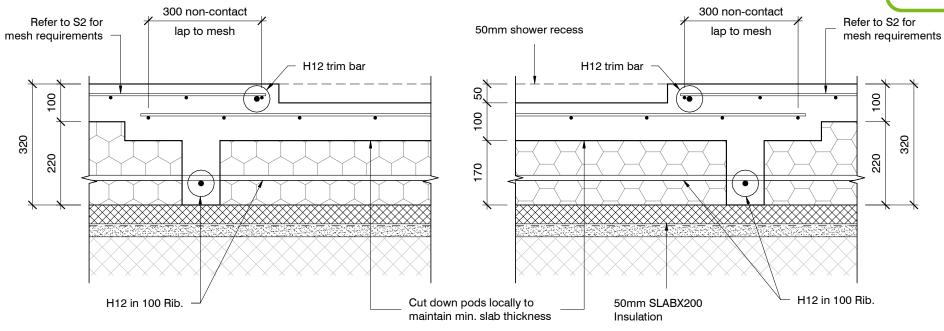


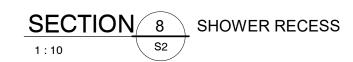


Christchurch
City Council
BCN/2024/9181

Approved Building Consent
Document
24/12/2024

Jose, Abby





S2

1:10





Roberts House

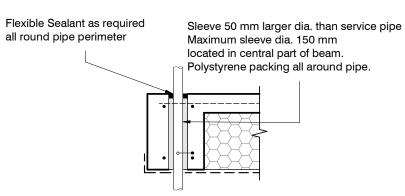
11 Twin Meadows Drive, Casebrook, 8051

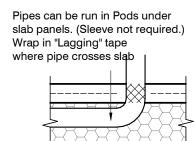
RibRaft Details

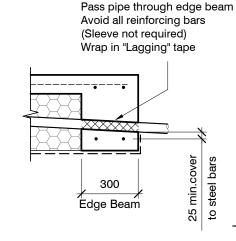
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		design C. Gleeson		file	2400	8.065
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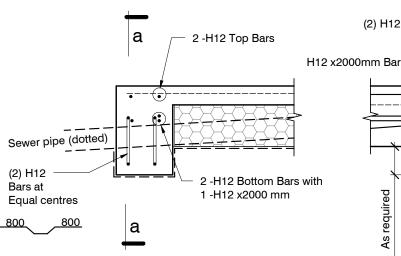
CHRISTCHURCH | NELSON | QUEENSTOWN

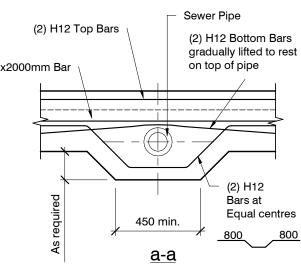
ORIGINAL SIZE = ,









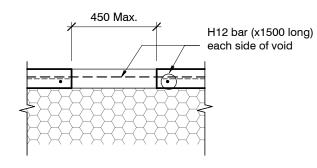


SLAB SERVICES PENETRATION DETAIL

PIPE NOTE:

No separation required where pipes are fully contained within slab. Sleeve all drains that pass through the base of the slab.

PENETRATIONS NOTE: Where penetrations through Floor Slab exceed 450 mm Square, Crack Control Bars will be required.



LARGE SLAB PENETRATION DETAIL

TYPICAL SECTION

LOCALISED DEEPENING OF FOUNDATION BEAM

RIBRAFT Pod

Deviate Bar to

concrete cover,

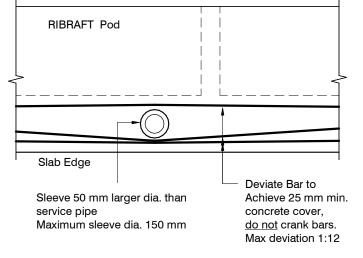
do not crank bars.

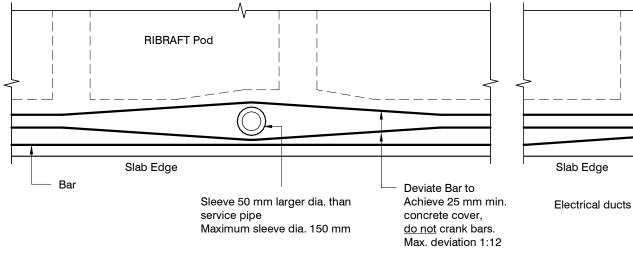
Max. deviation 1:12

Achieve 25 mm min.

TO ACCOMMODATE TOILET WASTE PIPE







Do not cut longitudinal reinforcement bars.

FOUNDATION SERVICES PENETRATION DETAILING.

Services shall not run along ribs or edge beams.





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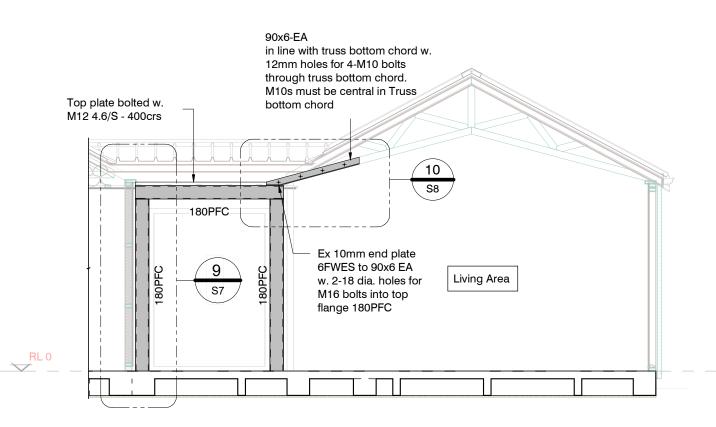
11 Twin Meadows Drive, Casebrook, 8051

Typical Services
Penetration Details



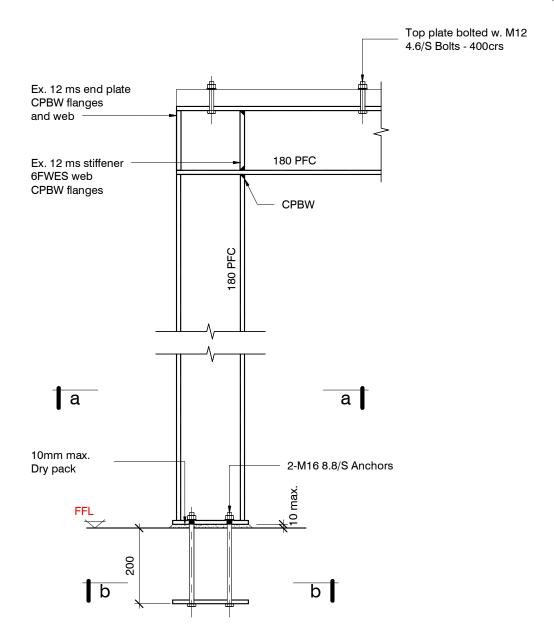
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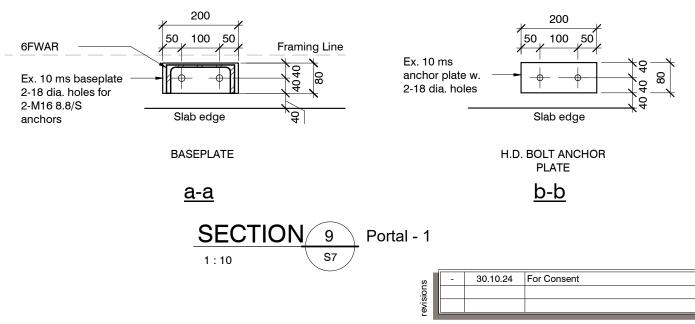
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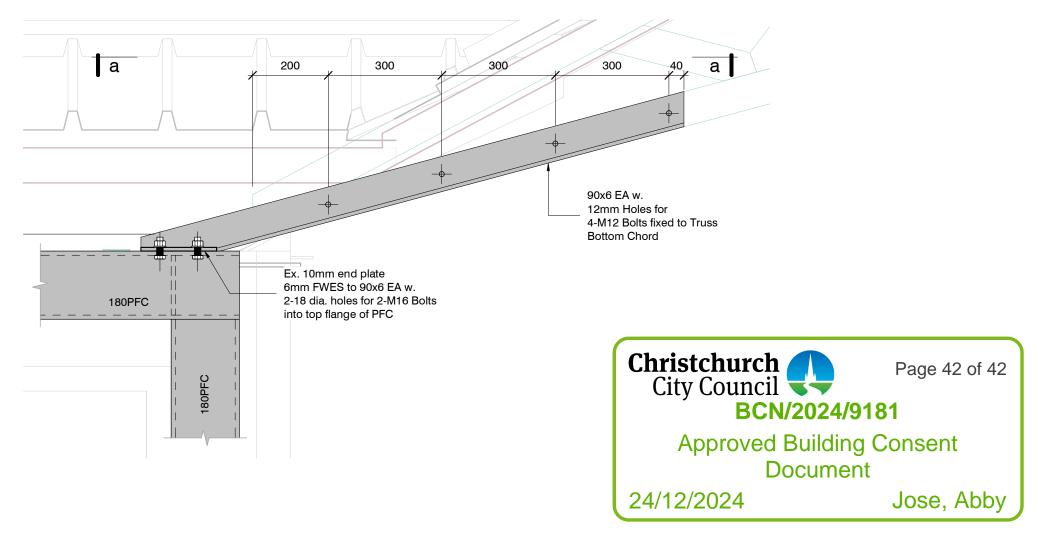
11 Twin Meadows Drive, Casebrook, 8051

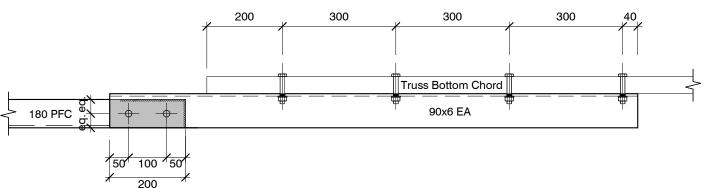
Structural Details

design C. Gleeson
drawn J. Grant
appvd M.Cusiel
date October 2024

24008.065

dwg S7 rev. -





<u>a-a</u>



- 30.10.24 For Consent





Roberts House

11 Twin Meadows Drive, Casebrook, 8051

Structural Details

 design drawn
 C. Gleeson
 J. Grant
 dwg
 rev.

 appvd date
 October 2024
 S8