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Sheet 01	STARTPAGE
Sheet 02	General IMORTANT Things
Sheet 03	site location
Sheet 04	persp.front left
Sheet 05	internal views
Sheet 06	elevations cad with roof
Sheet 07	window opening directions and
Sheet 08	electric plan and finishes
Sheet 09	shower details
Sheet 10	shower construction details
Sheet 11	floorplan cad with bracing
Sheet 12	Stud spacing and fixings
Sheet 13	foundation
Sheet 14	foundation site measure
Sheet 15	top view cad and color
Sheet 16	Sections color
Sheet 17	Sections CAD
Sheet 18	window schedule and Lintel Sizes
Sheet 19	window flashing details
Sheet 20	windowflashing details top windows
Sheet 21	Framework Middle wall
Sheet 22	Framework big window and Gallery
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Sheet 24	wall and roof flashings
Sheet 25	H1/AS1 and risk matrix
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Reason for Amendement:

The customer ordered a BlockHouse from a Christchurch company , which imports them from Chech republic. The Christchurch company is now bankrobbed and my customer lost a lot of money. As the foundation is already build and approved, I designed now a house following 3604 and engineer input on the same footprint. All walls are in the same place as before .



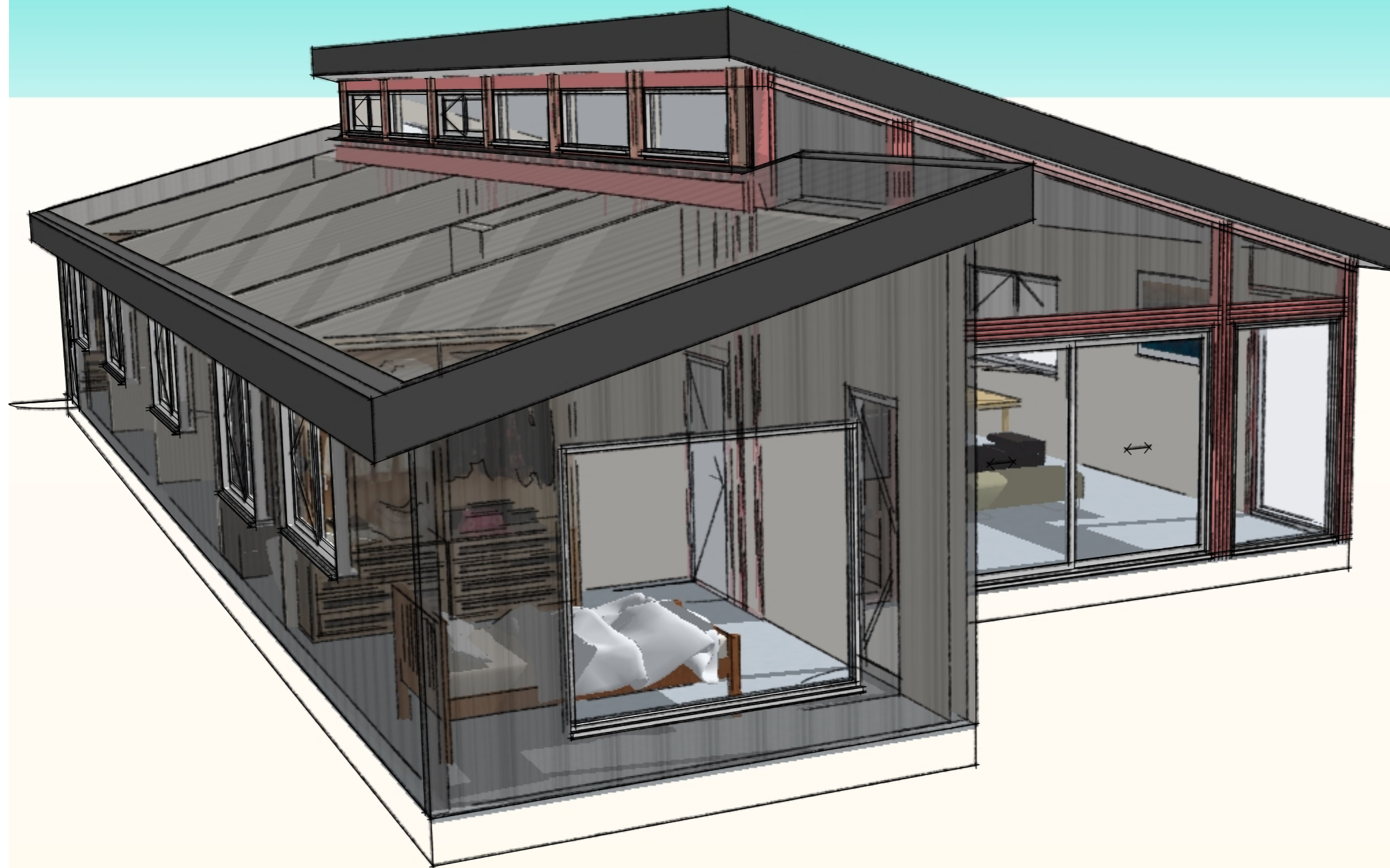
DesignWorx



LBP.:106952

Author:
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Nelson 7010
0211 53 96 00
dirk@craftworx.co.nz

Date Created: 02.07.2023
Date modified: 19.09.2023



Rafters will be 290 x 45 H1.2 to fit insulation.

All **Window** dimensions on the window Schedule are Box Sizes , meaning The Trim or Frame size will be 20 mm bigger each side, a window of 1000 x 800 in the window schedule will need a framing opening of 1040 x 840 . Doors don't require 20 mm on the bottom. Windows will be UPVC windows , double glazed , lowE from NK windows, Christchurch

Cladding and roofing will be 5-rib (Roofdeck) in a darker colour on cavity with castellated battens.

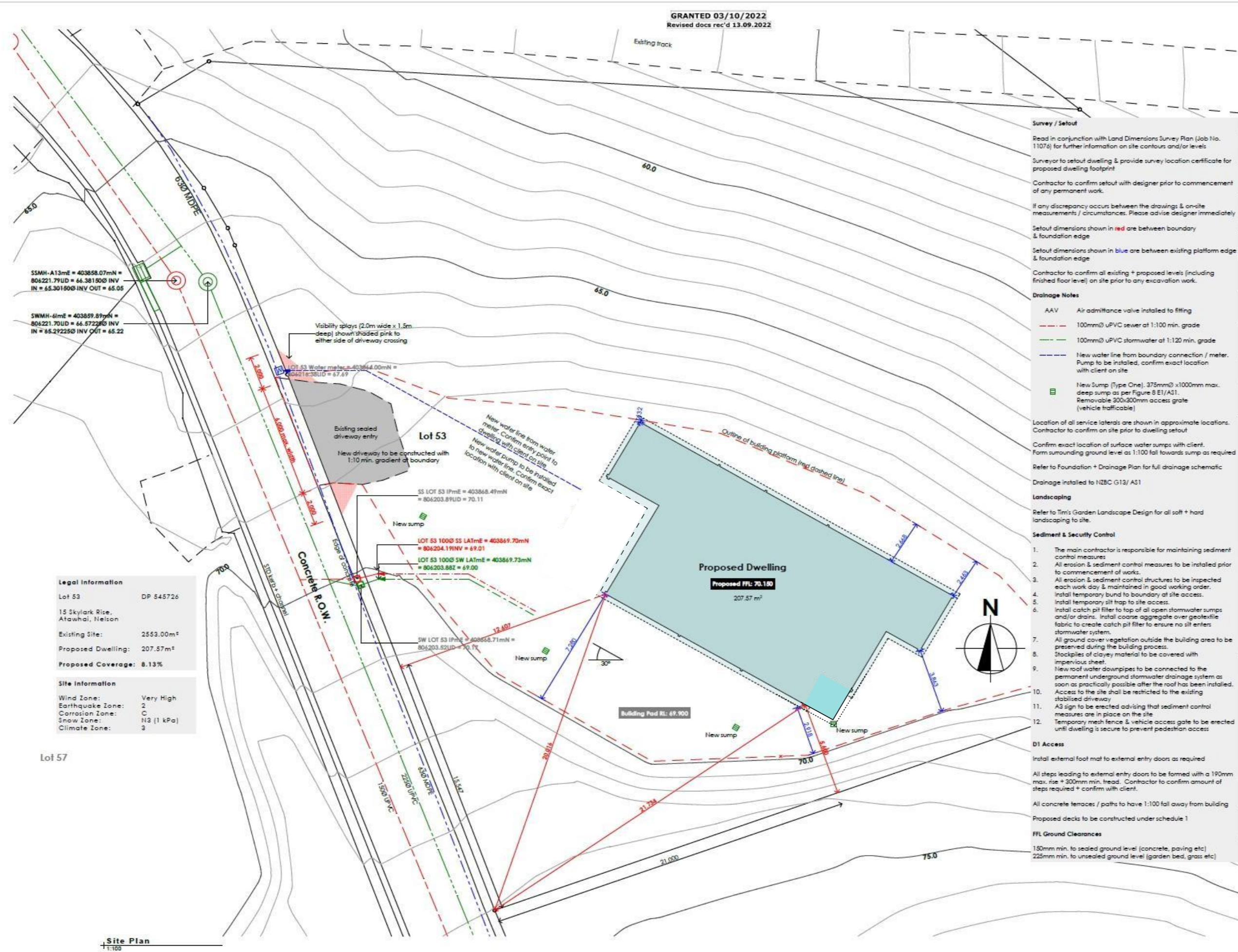
Foundation is already done, and inspected Rib raft concrete foundation with polished concrete finish throughout, all services in place .

If you require updated plans or any other question, please contact me.

Dirk Heffter 0211 53 96 00
enjoinery.construction@gmail.com

GRANTED 03/10/2022
Revised docs rec'd 13.09.2022

BC220342 Nelson City Council



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- Read in conjunction with Land Dimensions Survey Plan
- If in doubt, please ask
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Survey / Setout
 Read in conjunction with Land Dimensions Survey Plan (Job No. 11076) for further information on site contours and/or levels
 Surveyor to setout dwelling & provide survey location certificate for proposed dwelling footprint
 Contractor to confirm setout with designer prior to commencement of any permanent work.
 If any discrepancy occurs between the drawings & on-site measurements / circumstances. Please advise designer immediately
 Setout dimensions shown in red are between boundary & foundation edge
 Setout dimensions shown in blue are between existing platform edge & foundation edge
 Contractor to confirm all existing + proposed levels (including finished floor level) on site prior to any excavation work.

Drainage Notes
 AAV Air admittance valve installed to fitting
 100mm uPVC sewer at 1:100 min. grade
 100mm uPVC stormwater at 1:120 min. grade
 New water line from boundary connection / meter. Pump to be installed, confirm exact location with client on site
 New Sump (Type One), 375mm x 1000mm max. deep sump as per Figure 8 E1/A31. Removable 300x300mm access grate (vehicle trafficable)
 Location of all service laterals are shown in approximate locations. Contractor to confirm on site prior to dwelling setout
 Confirm exact location of surface water sumps with client. Form surrounding ground level as 1:100 fall towards sump as required
 Refer to Foundation + Drainage Plan for full drainage schematic
 Drainage installed to NZBC G13/ AS1

Landscaping
 Refer to Tim's Garden Landscape Design for all soft + hard landscaping to site.

- Sediment & Security Control**
- The main contractor is responsible for maintaining sediment control measures
 - All erosion & sediment control measures to be installed prior to commencement of works.
 - All erosion & sediment control structures to be inspected each work day & maintained in good working order. Install temporary bund to boundary at site access.
 - Install temporary silt trap to site access.
 - Install catch pit filter to top of all open stormwater sumps and/or drains. Install coarse aggregate over geotextile fabric to create catch pit filter to ensure no silt enters stormwater system.
 - All ground cover vegetation outside the building area to be preserved during the building process.
 - Stockpiles of clayey material to be covered with impervious sheet.
 - New roof water downpipes to be connected to the permanent underground stormwater drainage system as soon as practically possible after the roof has been installed.
 - Access to the site shall be restricted to the existing stabilised driveway
 - A3 sign to be erected advising that sediment control measures are in place on the site
 - Temporary mesh fence & vehicle access gate to be erected until dwelling is secure to prevent pedestrian access

D1 Access
 Install external foot mat to external entry doors as required
 All steps leading to external entry doors to be formed with a 190mm max. rise + 300mm min. tread. Contractor to confirm amount of steps required + confirm with client.
 All concrete terraces / paths to have 1:100 fall away from building
 Proposed decks to be constructed under schedule 1

FFL Ground Clearances
 180mm min. to sealed ground level (concrete, paving etc)
 225mm min. to unsealed ground level (garden bed, grass etc)

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01	Cover Sheet
02	Site Plan
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10	Sections
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13	Window + Door Details
14	Electrical + Finishes Plan
15	Shower Details

Drawing Scale A1 Size
 Half Scale at A3
 I.e. 1:100 at A1 = 1:200 at A3

Part Lot:	53
DP:	545726
Wind Zone:	Very High
EQ Zone:	2
Corrosion Zone:	D
Snow Zone:	N3 (1 kPa)
Climate Zone:	3

Developed Drawings - Engineer	22.08.2022
Working Drawings - Client	27.08.2022
Building Consent Application	06.06.2022
Building Consent RFI	16.06.2022
Building Consent RFI (Engineer)	05.09.2022
Building Consent RFI	13.09.2022

Date	13.09.2022
Job No.	1112
Sheet No.	Revision
02	02
of 15	
Site Plan	

Legal Information

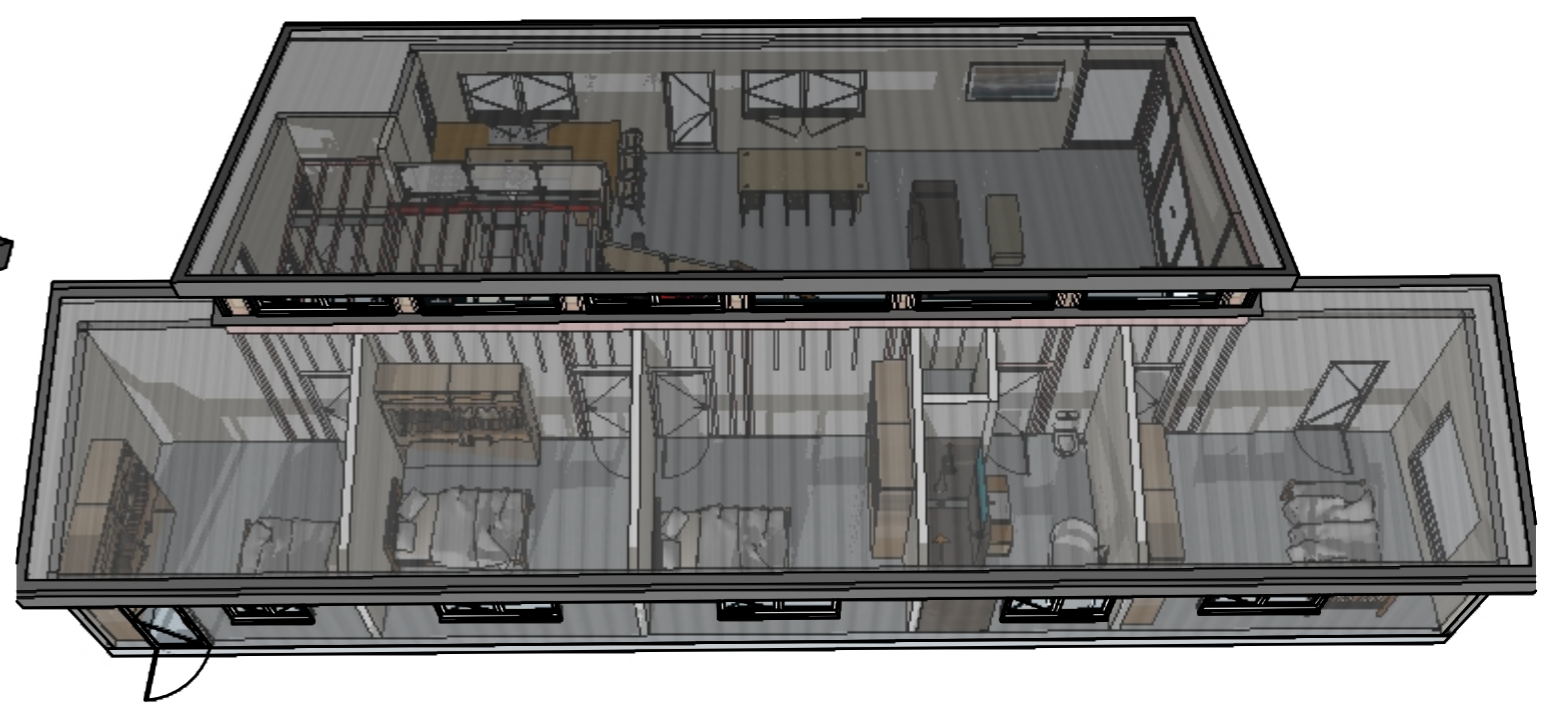
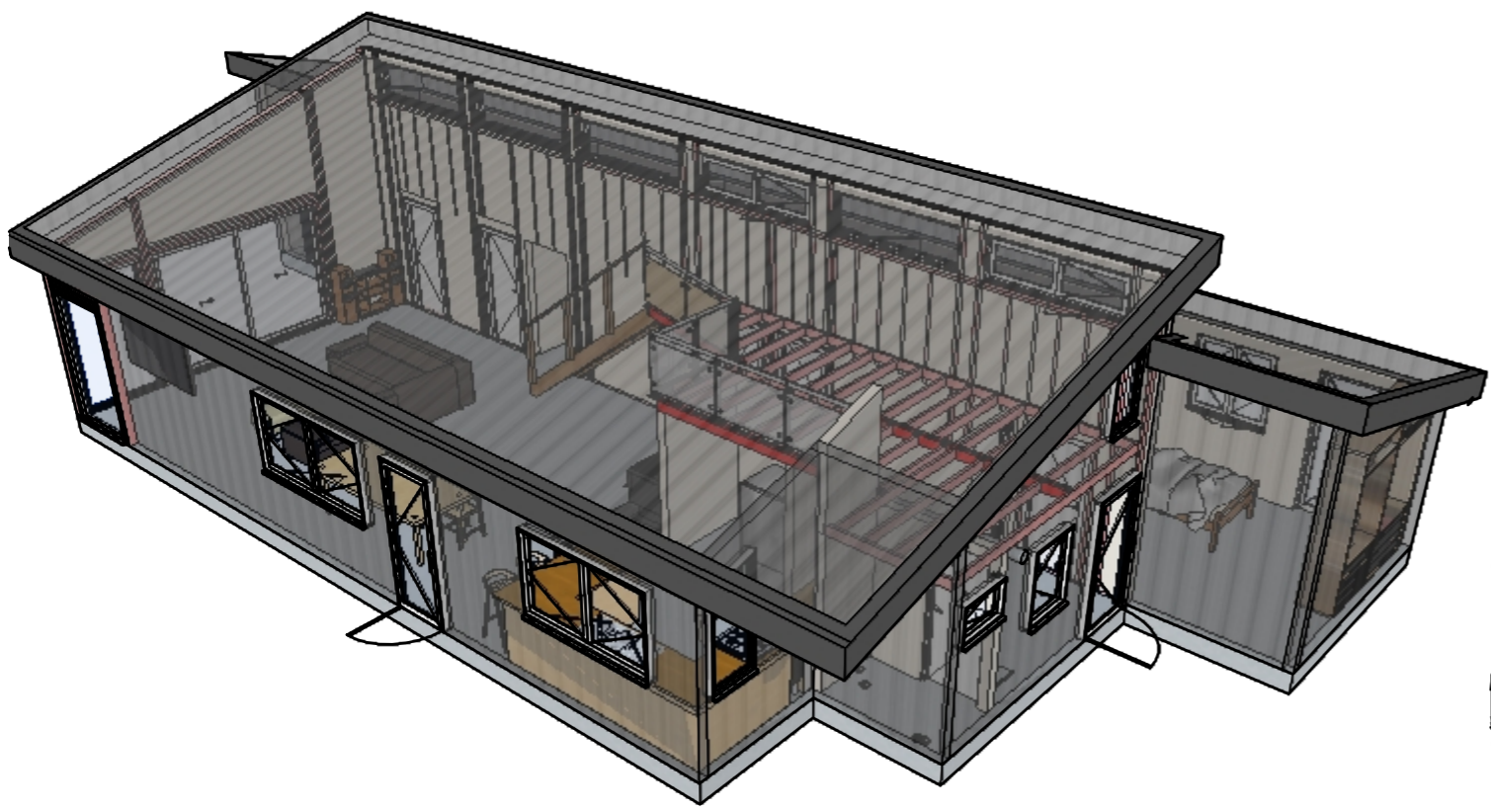
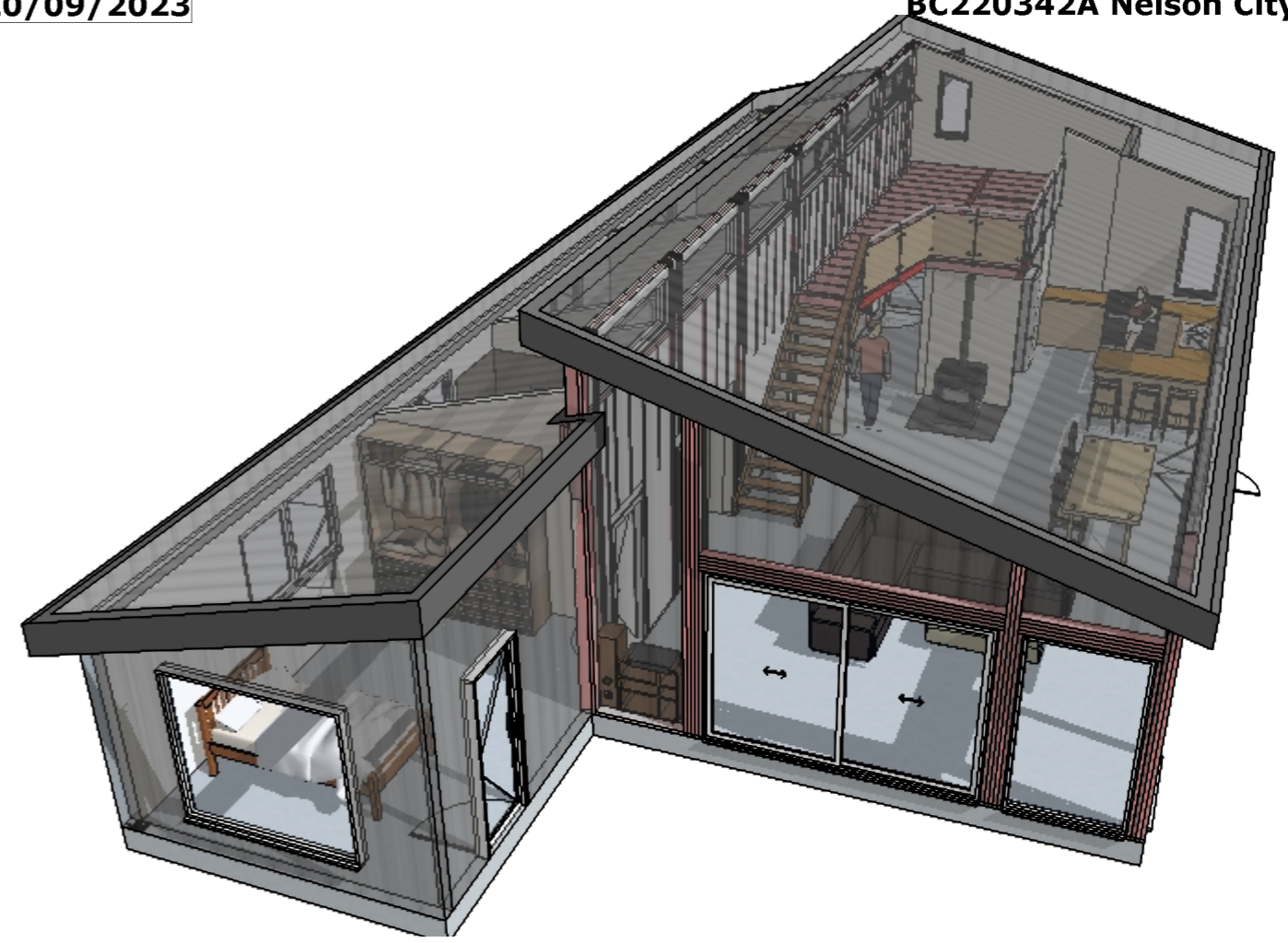
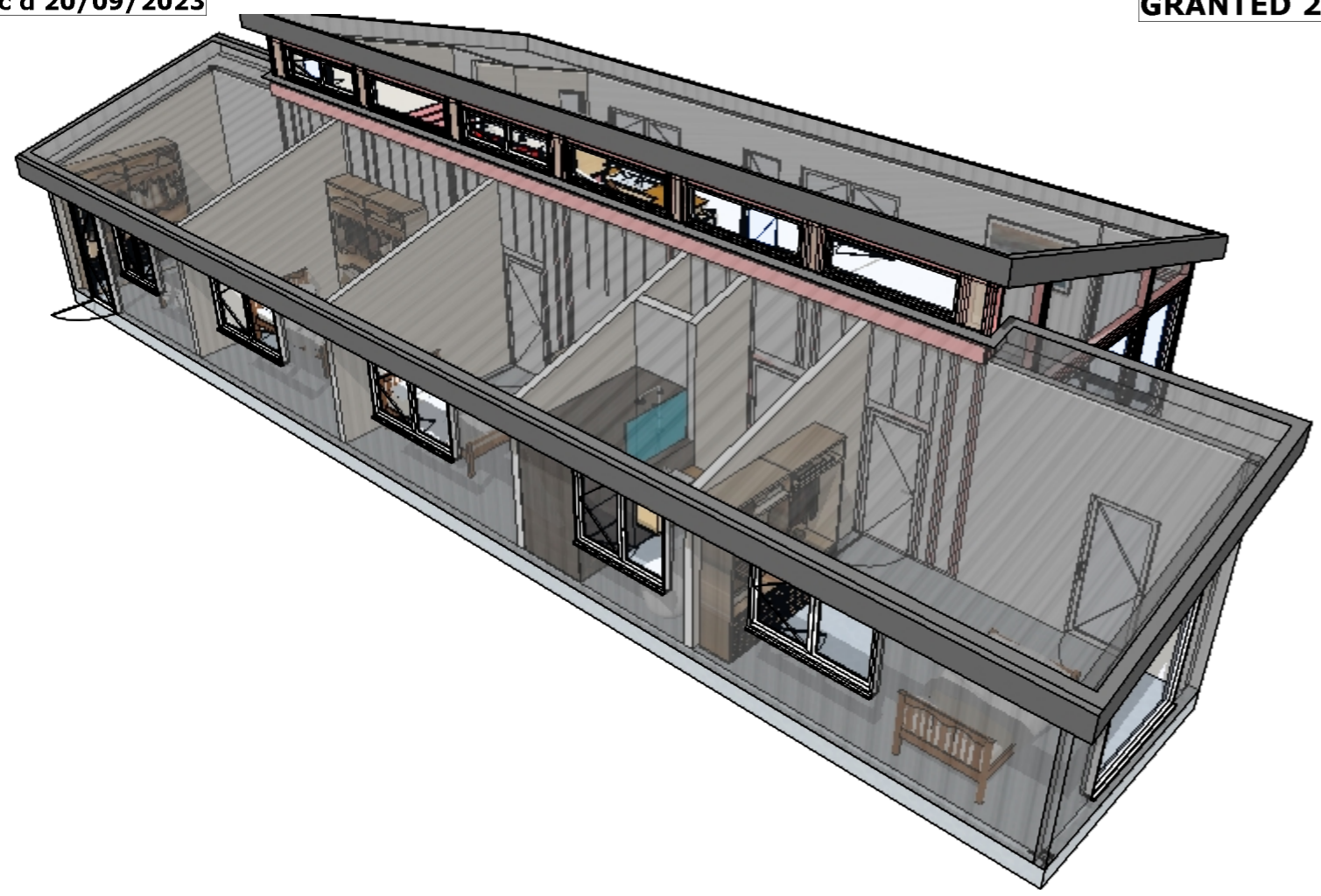
Lot 53 DP 545726
 15 Skylark Rise, Atawhai, Nelson
 Existing Site: 2553.00m²
 Proposed Dwelling: 207.57m²
 Proposed Coverage: 8.13%

Site Information

Wind Zone: Very High
 Earthquake Zone: 2
 Corrosion Zone: C
 Snow Zone: N3 (1 kPa)
 Climate Zone: 3

Lot 57

Site Plan
 1:100





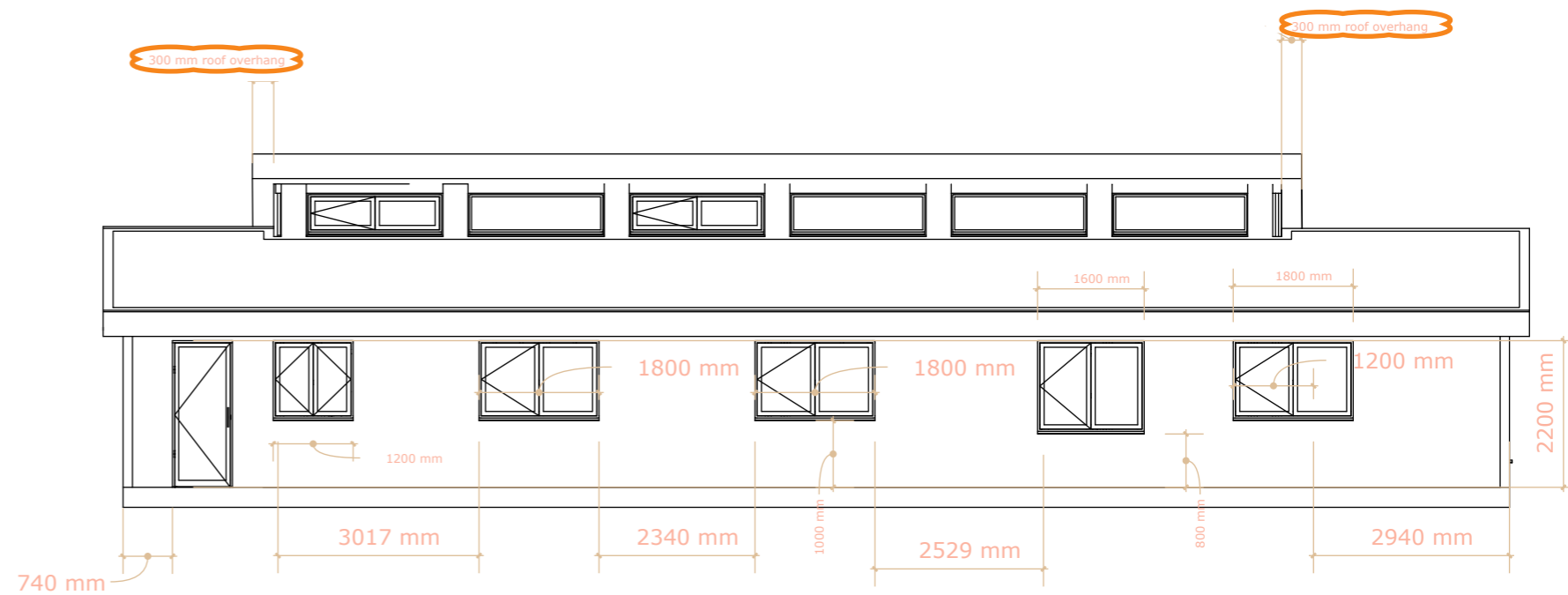
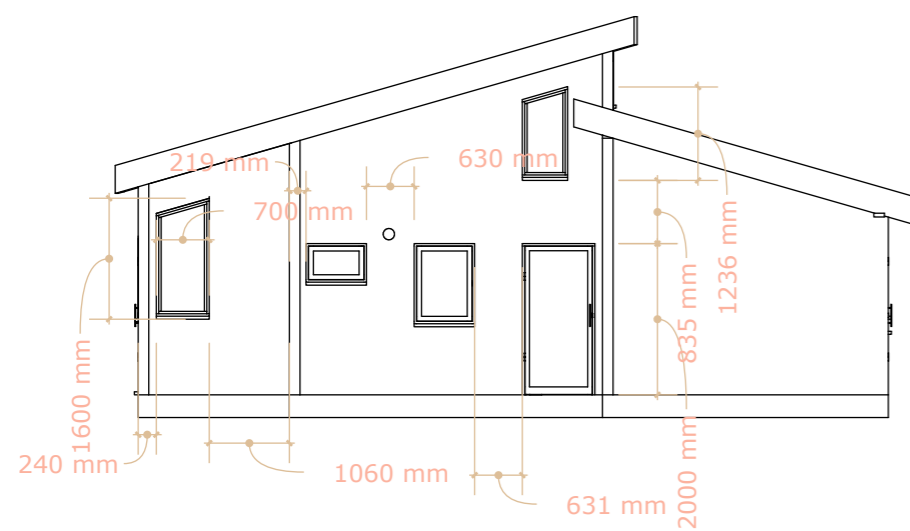
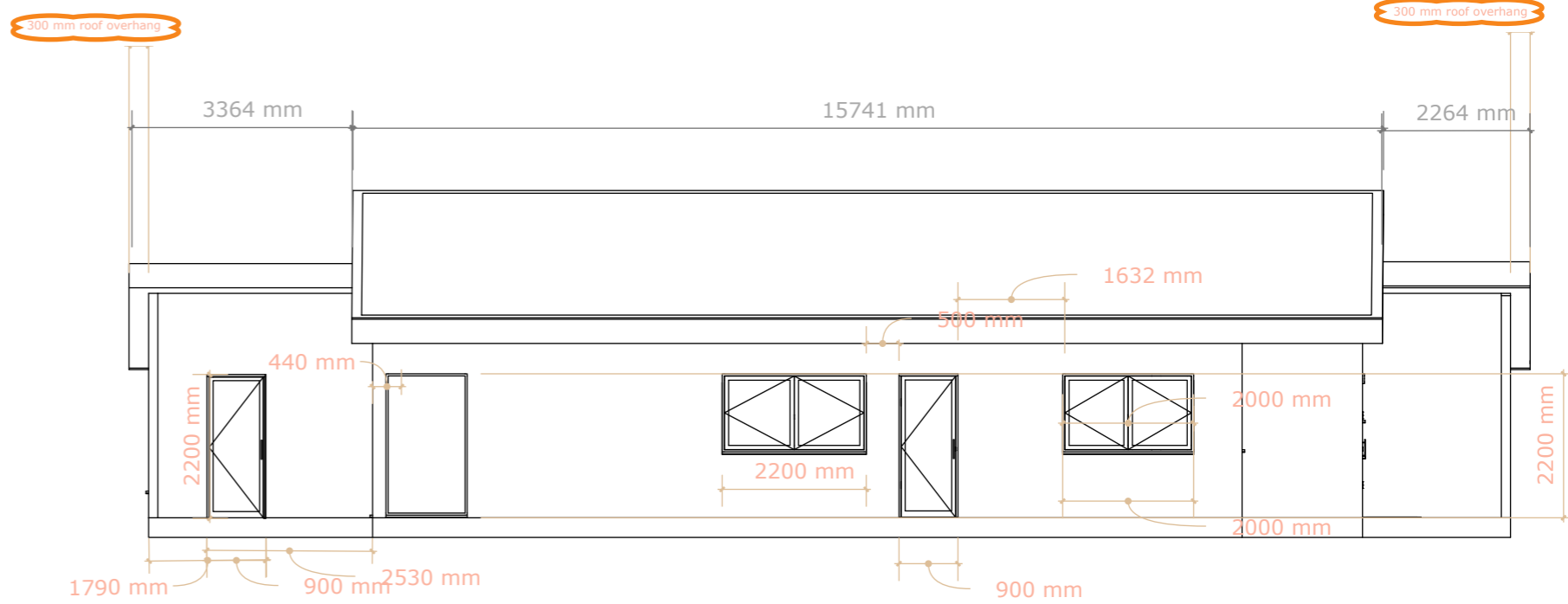
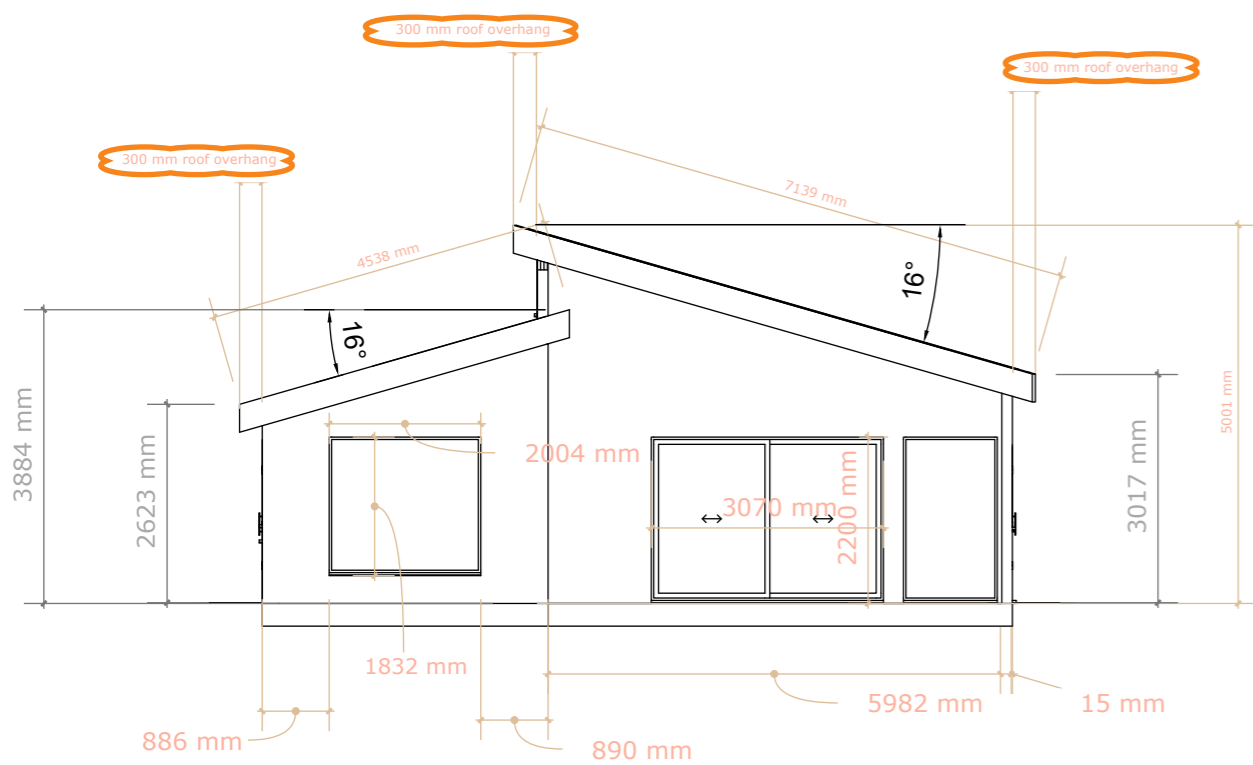
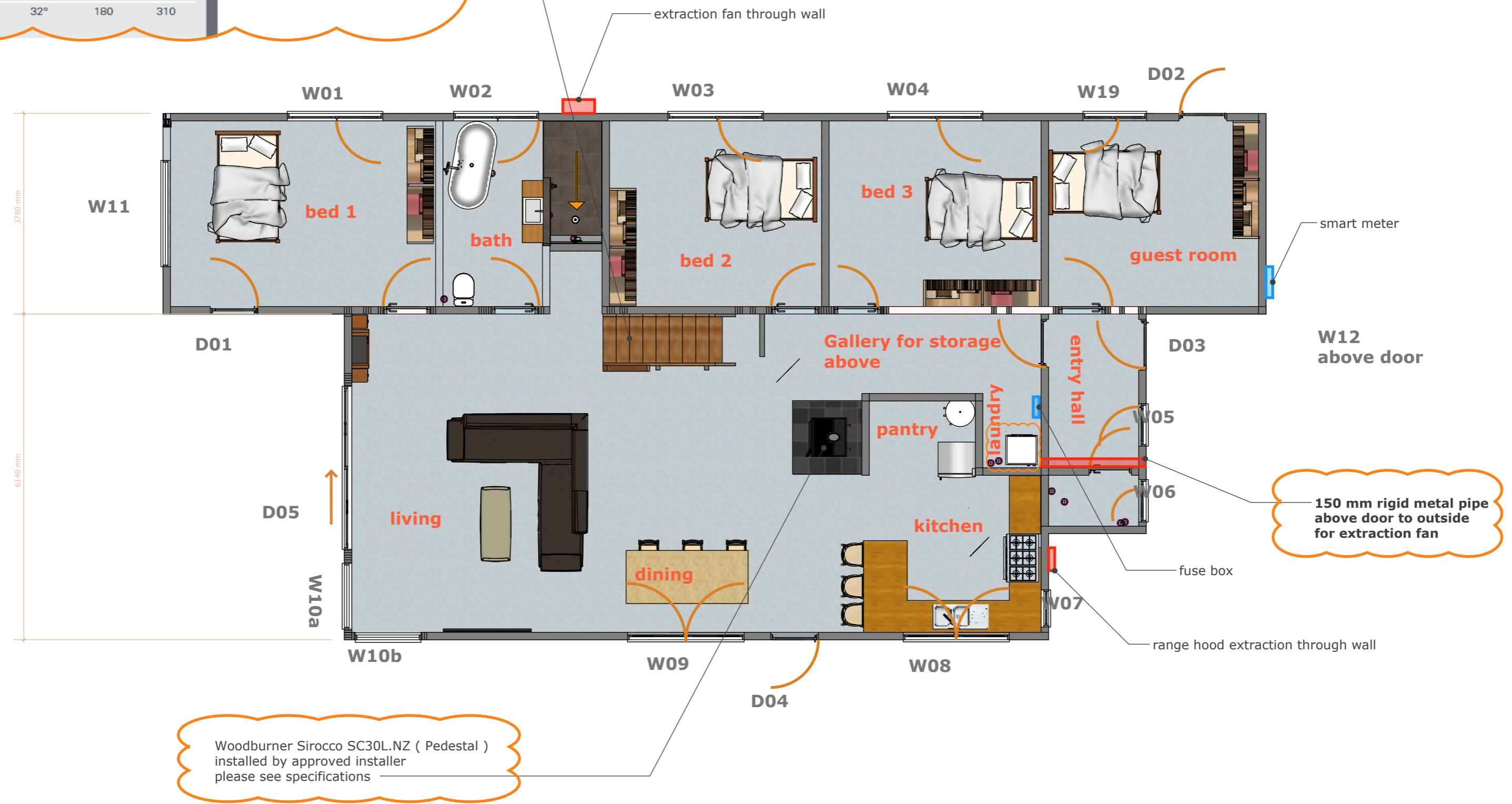


Table 6: Design Limits for Stairs
Paragraphs 4.1.1, 4.1.4 a), 4.4.2, 4.5.1 a) and Figure 17

Stair	Maximum pitch	Maximum riser height (mm)	Minimum tread (mm)
Service, minor private	47°	220	220
Secondary private	41°	200	250
Common and main private	37°	190	280
Accessible	32°	180	310

Tread 250 mm, raiser 195 mm secondary private

Floor polished concrete throughout , in wet areas finished with OSMO concrete oil (see specs)



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Drawing Scale A1 Size
Half Scale at A3
i.e. 1:100 at A1 = 1:200 at A3

Proposed Dwelling
Euro Homes - Koelble
15 Skylark Rise
Atawhai
Nelson

Project Information	
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Date	13.09.2022
Job No.	1112
Sheet No.	Revision
14	
of 15	
Electrical + Finishes Plan	

13.09.2022
1112
Revision
14
of 15
Electrical + Finishes Plan

DANIEL HYNDMAN ARCHITECTURE
daniel@dha.nz | dha.nz

Daniel Hyndman Architecture Ltd
Unit 3, 27A Sir William Picketing Drive
Christchurch 8053
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Electrical Legend

Extract fan ducted through ceiling space & vented through roof and/or walls where shown. Allow for power supply. Flow rate to comply with G4/AS1:
- 50 L/s for cooktops +
- 25 L/s for showers / baths / laundry

Wall extract grill (refer to wall penetration detail). Ensure wall extract ducting is constructed with 100mmØ uPVC pipe. Weatherproof external wall grille to match paint colour of wall cladding

Extract duct from drier to exterior

New smart meter / distribution board

Ceiling mounted smoke alarm with 'hush' facility

Recessed LED dimmable downlights (zero insulation clearance required)

Pendant lighting

Recessed LED soffit downlight with motion sensor

Wall mounted light. Confirm height position with client on site

External spotlight with motion sensor

Television (aerial / SKY dish) output

Data socket

Double power point (switched)
Confirm height position with client on site

Weatherproof double power point (switched)
Confirm height position with client on site

Heated towel rail power point

Heated towel rail

Location of WIFI router

Ceiling fan

HWC Rheem Optima mains pressure electric hot water cylinder 293 litres - 2x2kW 91300025 - with hot water diverter

Power points shown in indicative locations, final numbers & positions to be confirmed with electrical contractor on site.

Proposed ceiling fittings may clash with exposed roof beams

Confirm number of power points to kitchen area with client (above and below bench)

Allow to install dedicated power outlets to gas califants, fridge, hobs, oven, kitchen extract, microwave, washing machine / dryer (if not shown).

Kitchen extract to have power for in line extract fan in ceiling space to serve extract hood. Install remote wall switch.

Confirm all electrical fittings colours, materials, model type etc with client prior to ordering

Kitchen fittings

Sink: Stainless steel sink
Hobs / Oven: Client selected gas hobs + electric oven

Kitchen finishes

Walls: Polyurethane sealer coat to timber walls (3x coats)
Kitchen Bench: High pressure laminate bench top
Bench Splashback: Client selected splashback (tiles or brushed stainless steel)
Kitchen Joinery: Low pressure laminate to all kitchen joinery doors / drawers / shelves
Hob Splashback: Brushed stainless steel plate screwed + glued to timber wall up to extract hood above. Extend 200mm min. past each side of hobs

Bathroom fittings

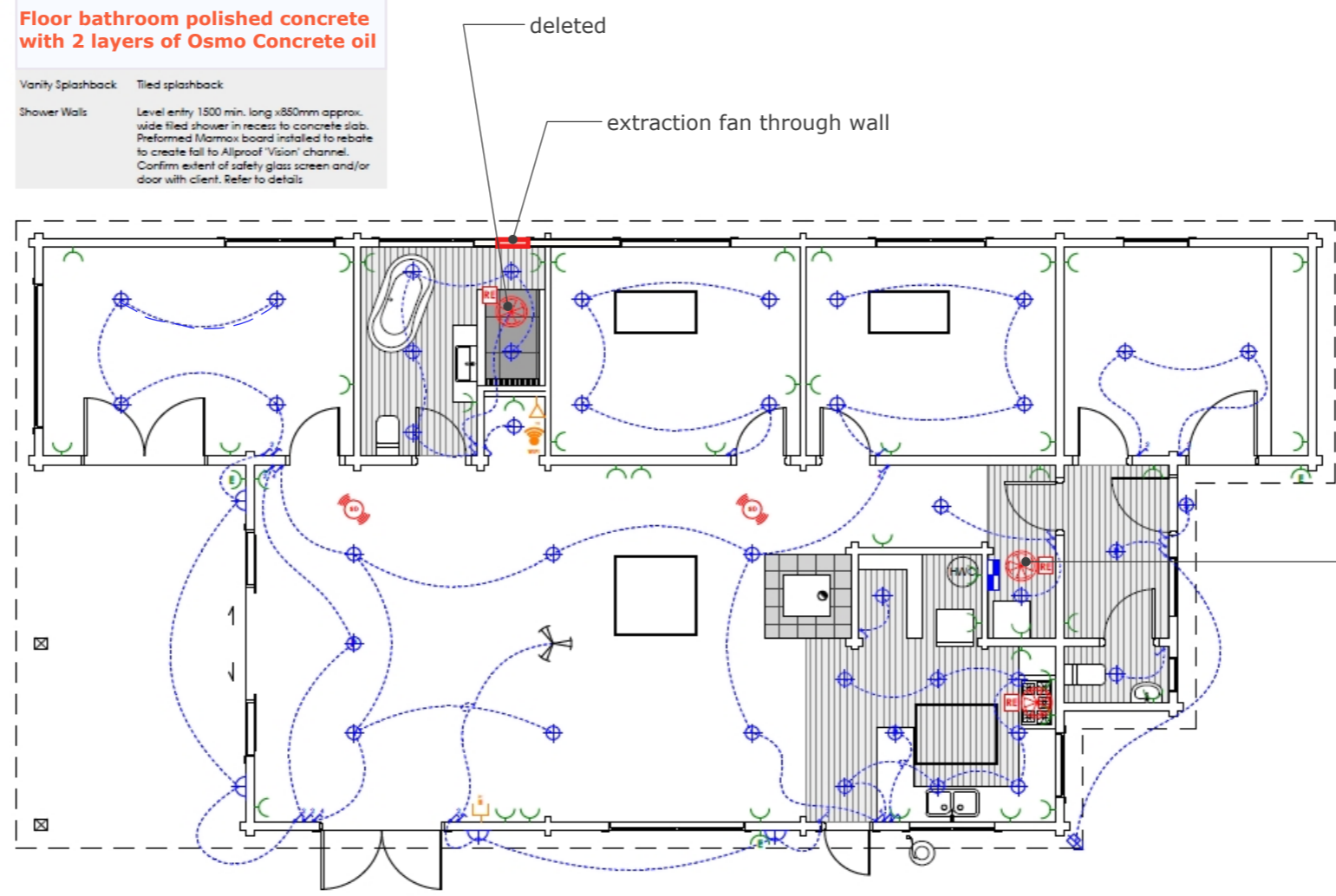
Shower Slide: Confirm with client
Shower Mixer: Confirm with client
Vanity: Confirm with client
WC: Confirm with client
Heater: Client selected fan heater
Extractor Fan: High level Vented ceiling extractor fan ducted to exterior over shower.

All fittings sealed to wall with MS Sikaflex sealant to fitting / wall junction

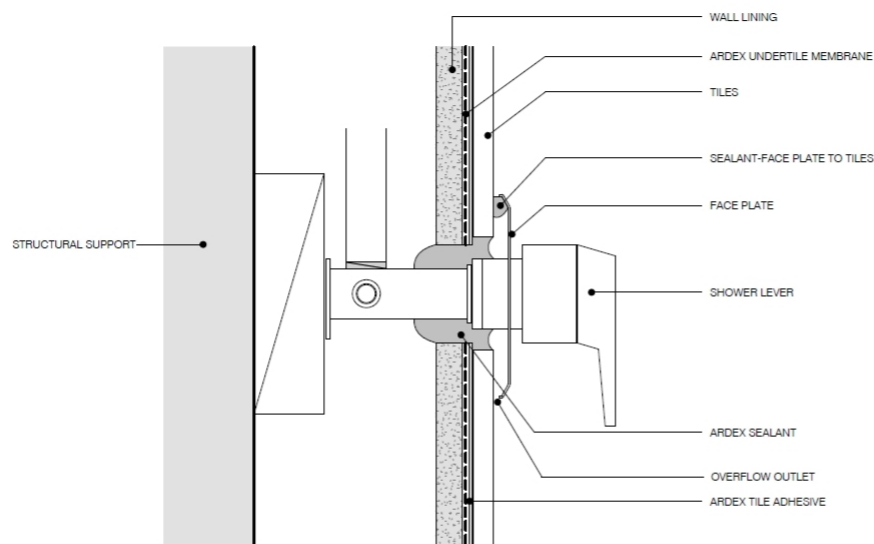
Bathroom finishes (Laundry finishes similar)

Vanity Splashback: Tiled splashback
Shower Walls: Level entry 1500 min. long x850mm approx. wide tiled shower in recess to concrete slab. Preformed Marmax board installed to rebate to create fall to Allproof 'Vision' channel. Confirm extent of safety glass screen and/or door with client. Refer to details

Kitchen / Bathroom / Laundry / WC flooring
Floor bathroom polished concrete with 2 layers of Osmo Concrete oil

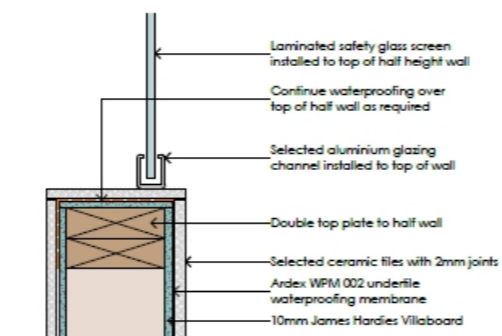


Electrical + Finishes Plan
1:50

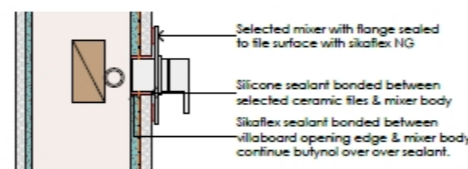


see also "GIB wet areas" and "ARDEX WPM 155 Rapid waterproofing" in Specifications

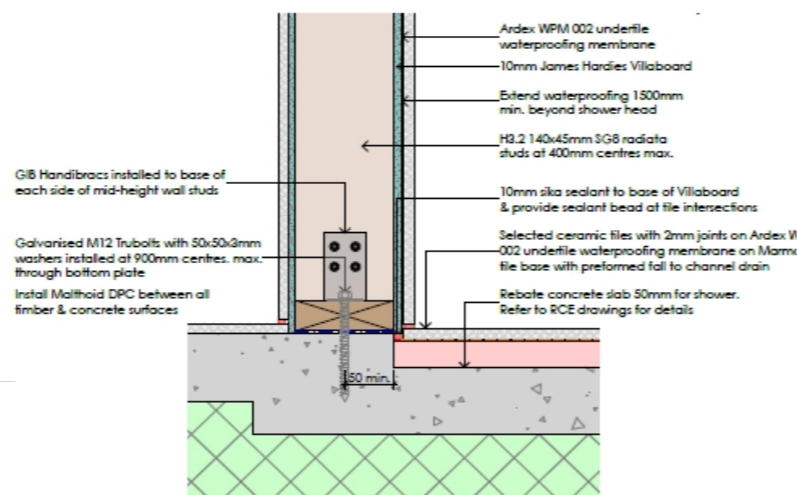
GRANTED 03/10/2022
Revised docs rec'd 13.09.2022



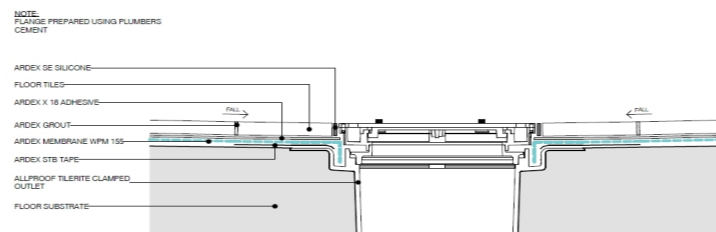
I-01 Half High Shower Wall Top



I-02 Half High Shower Wall Penetration



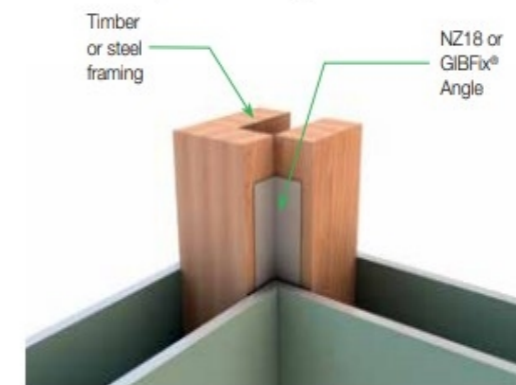
I-03 Shower Base / Half High Wall Junction



WET AREA WATERPROOFING TYPICAL MEMBRANE TERMINATION AT DRAINAGE FLANGE

METAL ANGLES FOR TILED INTERNAL CORNERS

- Prior to lining in tiled areas (shower cubicles and shower over bath only) the internal corners shall be reinforced with a minimum 32 x 32 x 0.55mm galvanised metal angle.
- Suitable GIB® metal angle options include:
 - GIB® Rondo® NZ18 metal angle, available length: 3.0m
 - GIBFix® Angle metal angle, available lengths: 2.4m and 2.7m
- Angles need to be temporarily held in place until secured by the lining fixings
- Minimum height of the metal angle is 1800mm



WATERPROOF MEMBRANE SYSTEMS

A waterproof membrane system must be applied to all lining materials used as a substrate for ceramic tiles in a shower or shower over a bath application, or any other tiled application exposed to frequent water splash.
For further information see p10.

Table 2: Recommended maximum tile weights

Maximum Tile Weights for GIB Aqualine®, GIB Toughline® Aqua or GIB Weatherline®			
Stud Centre (maximum)	Fasteners Centre (maximum)	Lining Thickness	Tile Weight
600mm	150mm	10mm	26kg/m ²
maximum	maximum	13mm	40kg/m ²

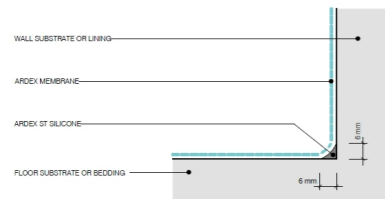
ADHESIVE AND GROUT WEIGHTS

The weight of adhesive and grout can vary depending on the type of tile and the installation process used. The maximum tile weights stated in table 2 are conservative and refer to the tile weight excluding grout and adhesive used. An additional 3kg/m² has been factored into tile adhesion testing on top of the above stated tile weights to account for adhesive and grout weight used during the installation of the tile.

WET AREA WATERPROOFING

TYPICAL SHOWER MIXER USING SEALANT

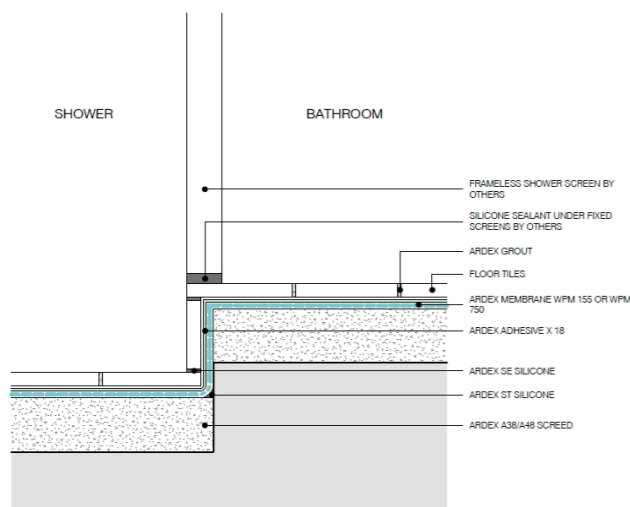
DWG NO. AWW-25
DATE 12.07.2022
SCALE 1:2 @ A4



WET AREA WATERPROOFING

BOND BREAKER - CLASS 3 MEMBRANE

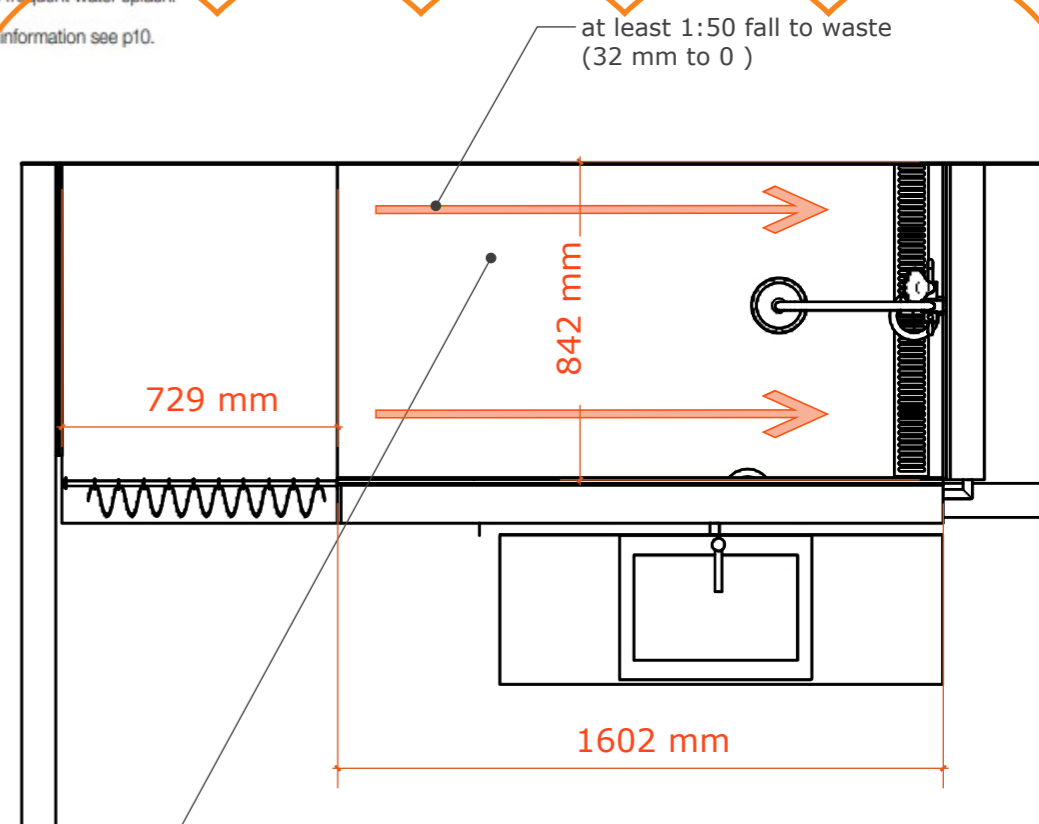
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DATE 30.04.2019
SCALE 1:1 @ A4



WET AREA WATERPROOFING

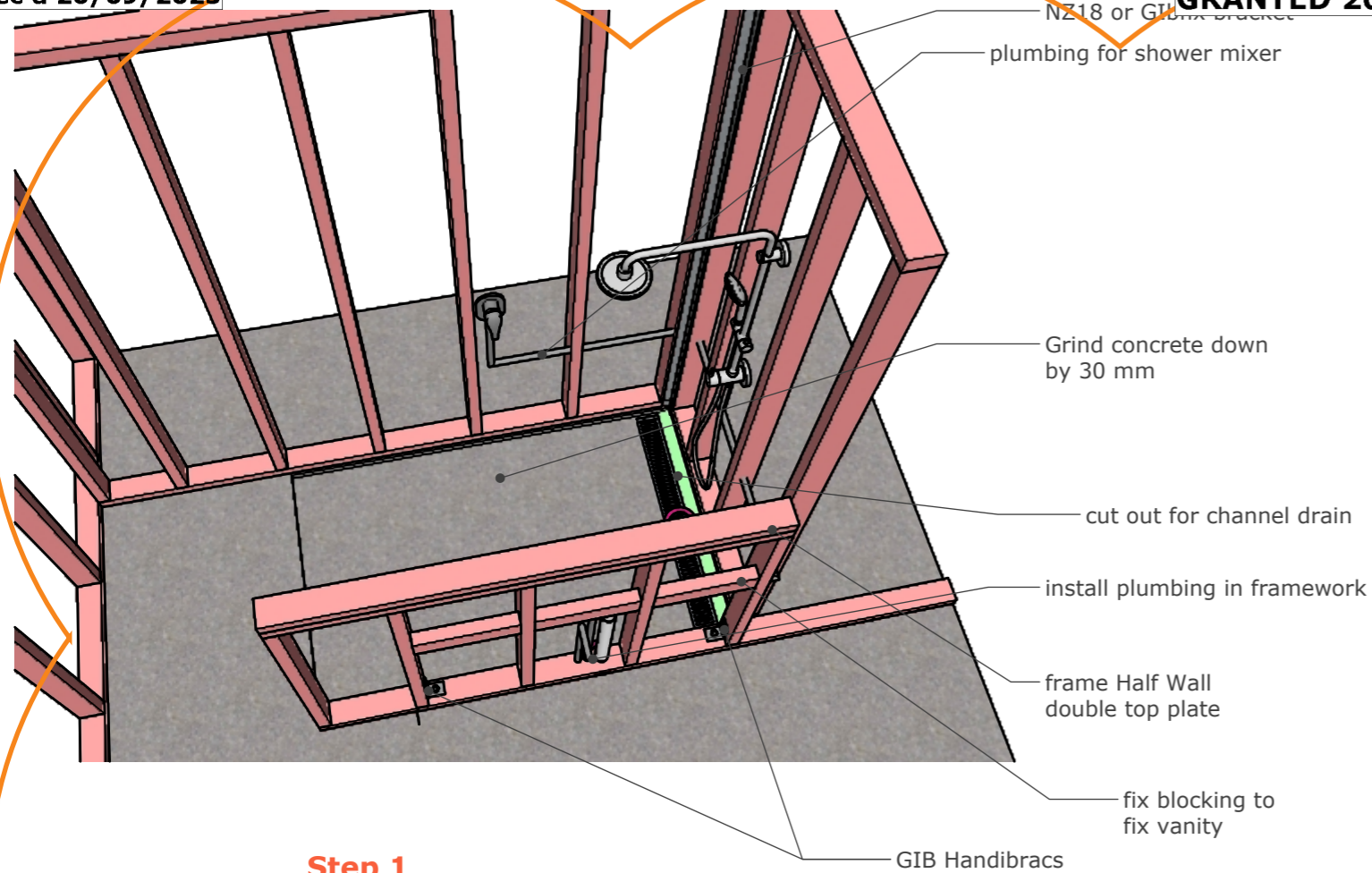
UNENCLOSED SHOWER - MEMBRANE BELOW TILE BED

DWG NO. AWW-09
DATE 30.04.2019
SCALE 1:2 @ A4

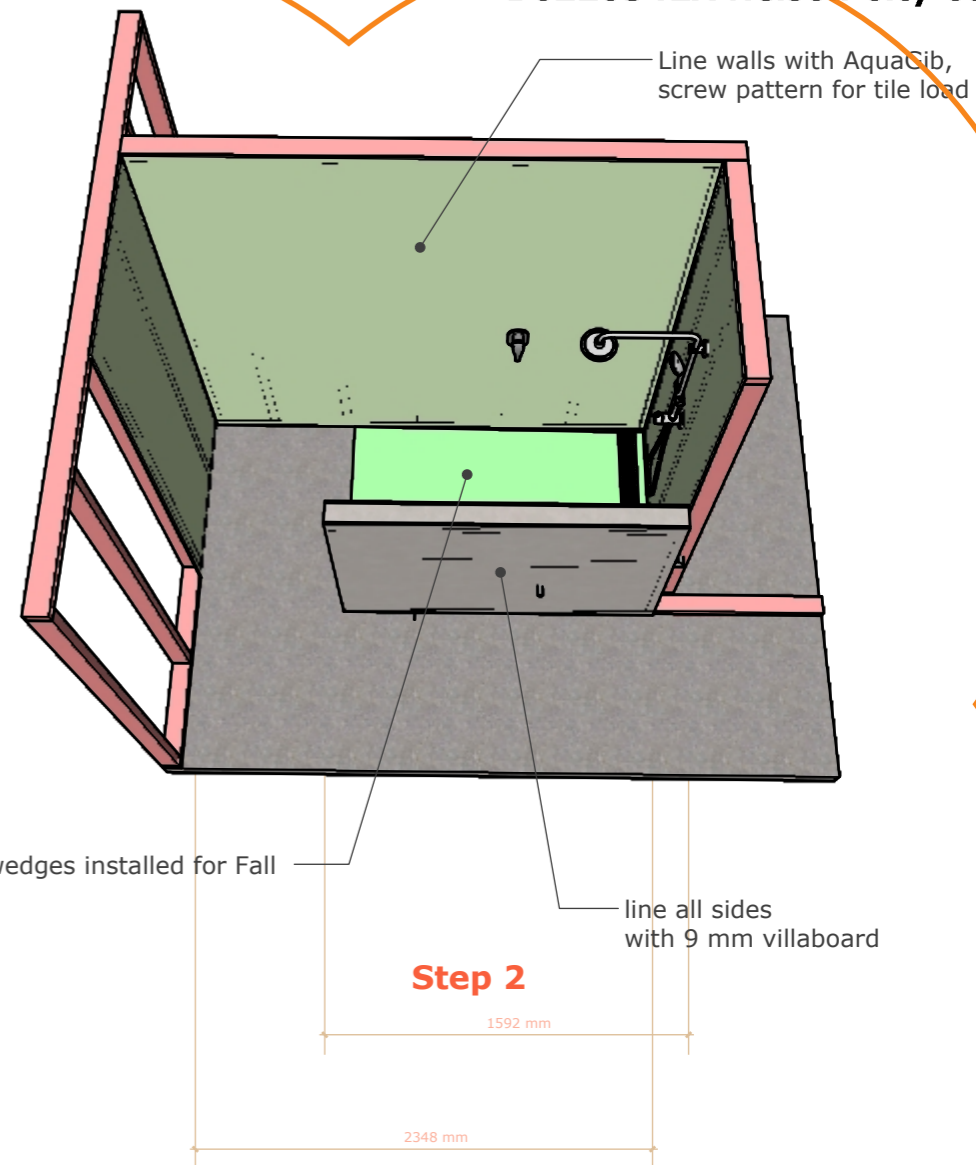


shower curtain fixed to Glass and wall





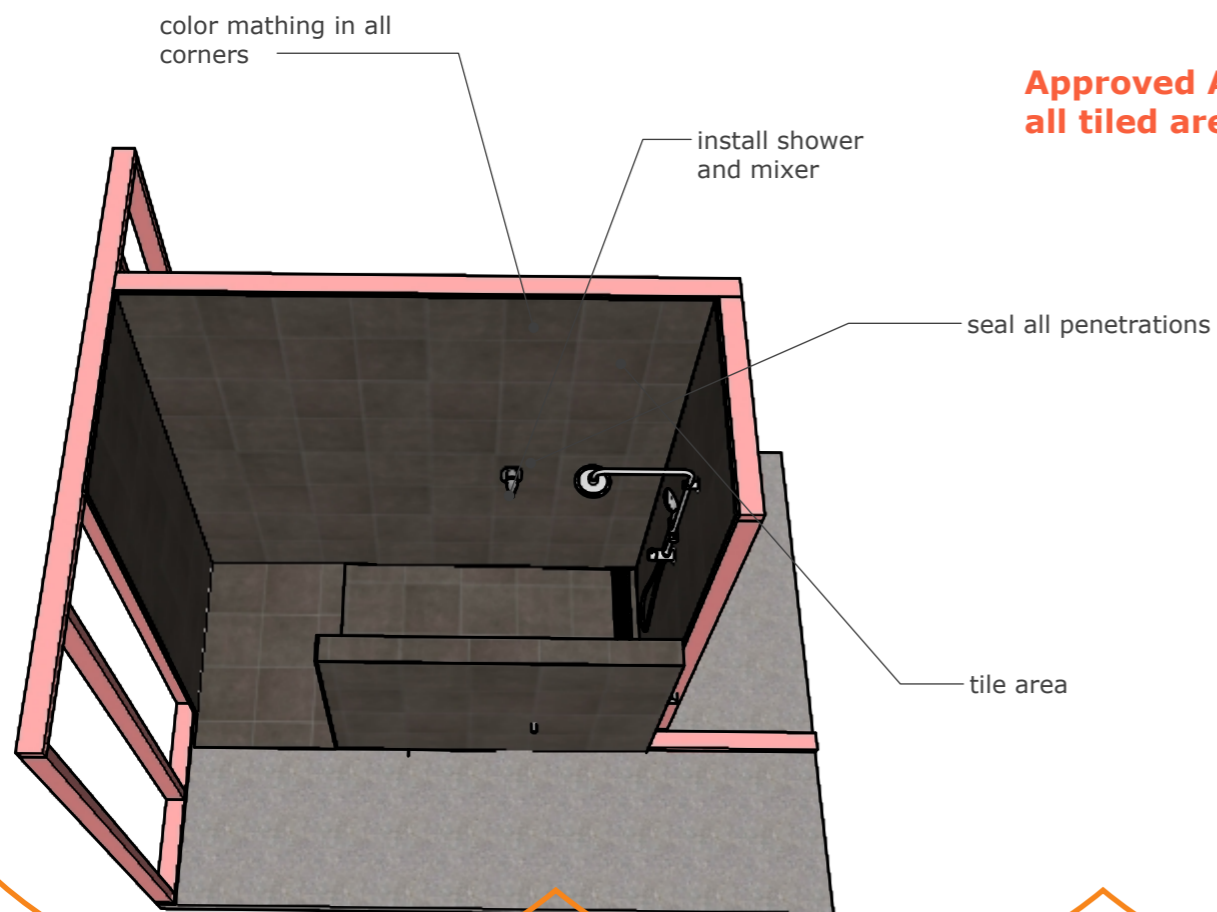
Step 1



Step 2

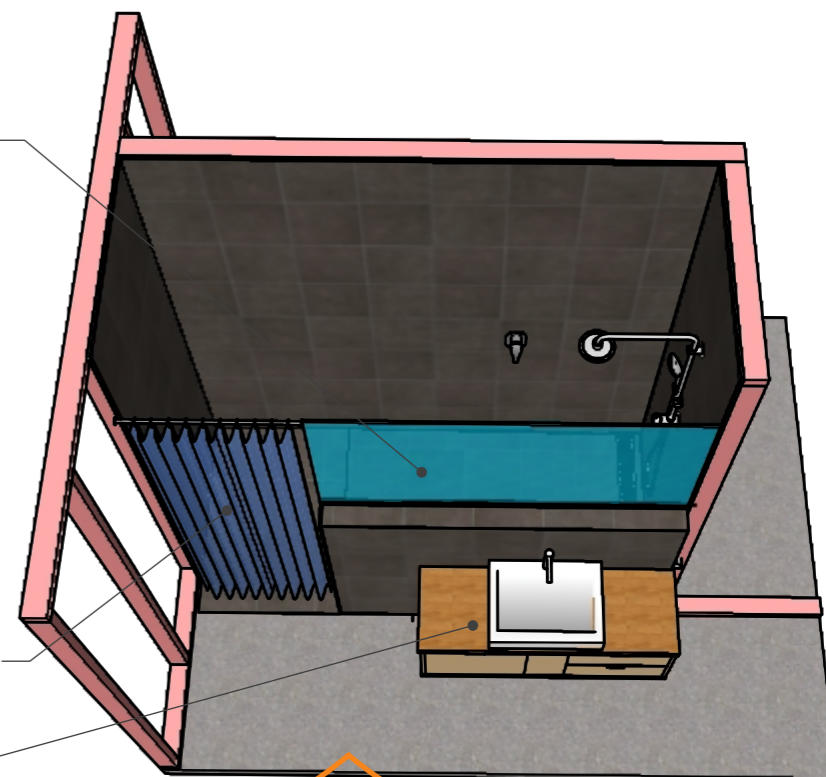
Step 3

Approved ARDEX Installer to waterproof all tiled area with ARDEX WPM 155 System

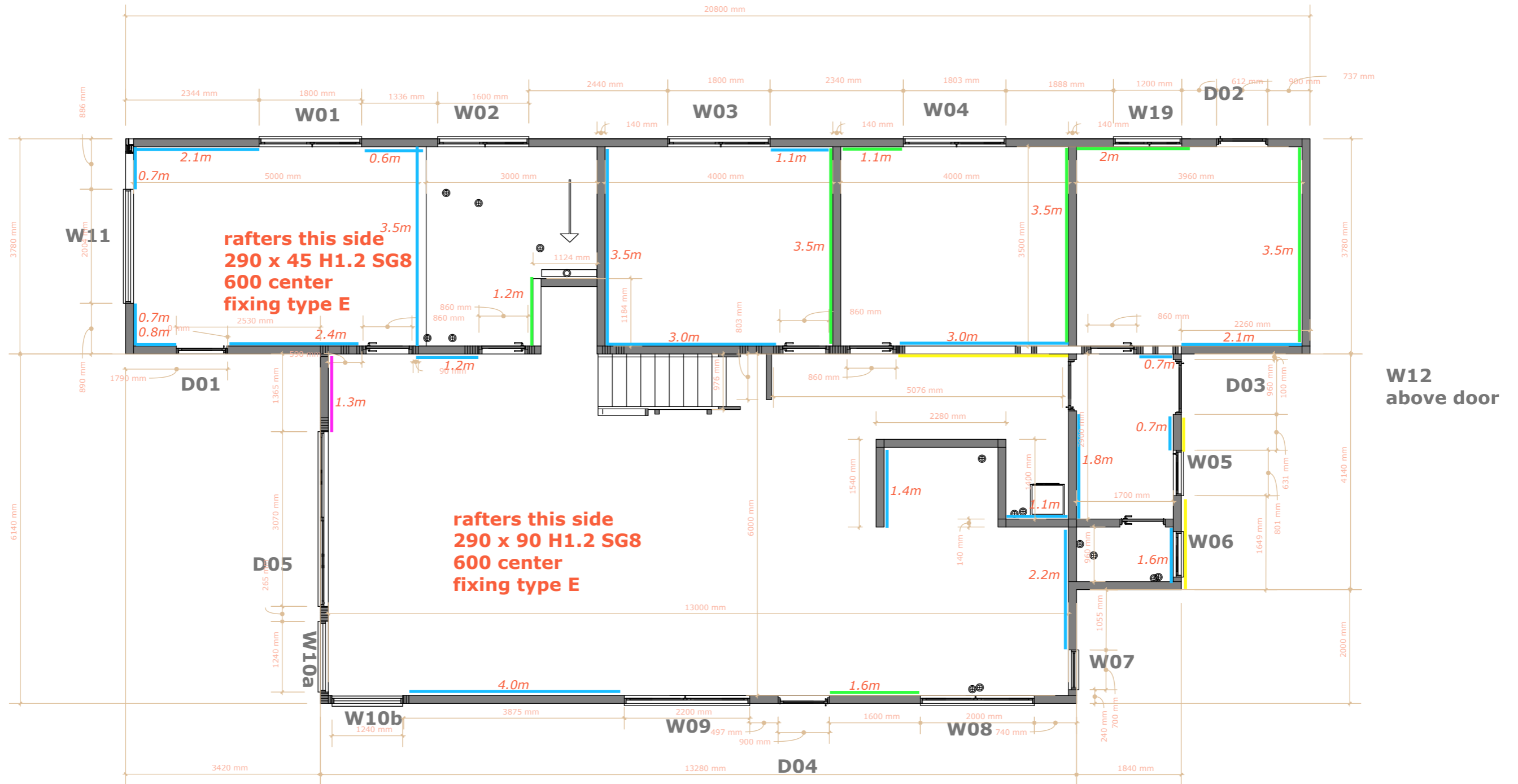


Step 4

install Glass panel (10 mm toughened) in Aluminium channel on silicon bead



Step 5



- BL1-H , braceline Gib one side, hold downs
- GL1-H , Standard Gib one side, hold downs
- BLP-H , braceline Gib one side, 7 mm structural ply other side ,hold downs
- SED, Details by engineer

all internal doors
1980x 820 mm sashes,
box size 860 x 2050

Rafter fixing Type E = 2/90x3.15 nails + 2 wire dogs (4.7 kN)



Wall underlay watergate plus
roof underlay covertec 403
DPM under bottom plate Supercourse 500

Bottom plate fixing 900 mm center 7kN BOWMAC screw bolt (refer to specifications)

Top plate fixing Studlock SL (2@ SL125 Studlock screws to each stud)

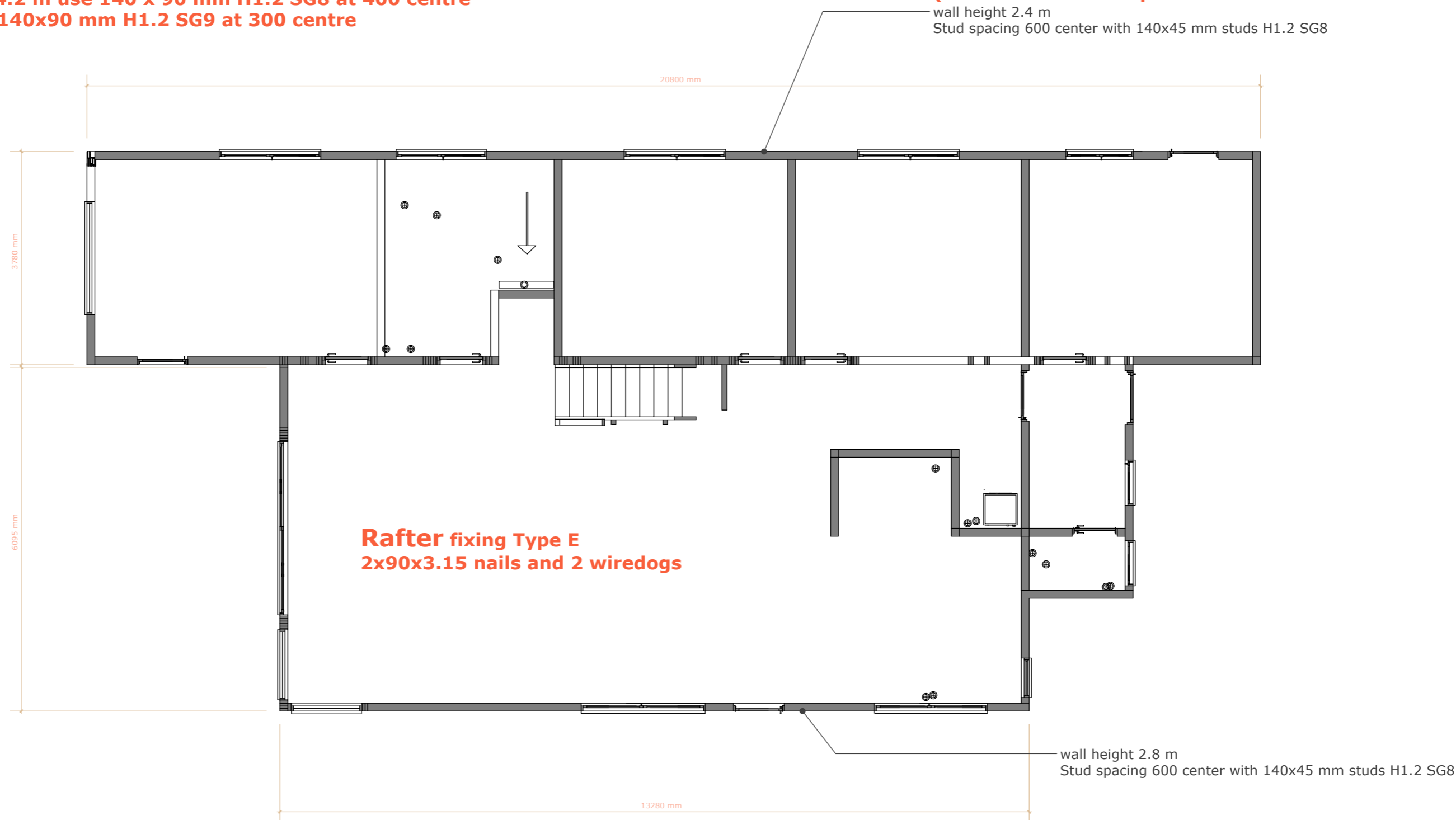
Lintel fixings Type H for lintels min.190 mm (6xStudlock SL170)

Type G for lintel min. 140 mm (4xStudlock SL125

Trimmer fixed with Studlock SL80 (refer to details in specifications

Studs shall be spaced 600 center when less than 3m,
over 3 m up to 4.2 m use 140 x 90 mm H1.2 SG8 at 400 centre
over 4.2 m use 140x90 mm H1.2 SG9 at 300 centre

wall height 2.4 m
Stud spacing 600 center with 140x45 mm studs H1.2 SG8



Insulation :

Roof: Knauf Earthwool R7.4 Skillion 265mm x 430mm x 1160mm

outside walls : Knauf Earthwool R4.1 Super High Density wall 140mm x 580mm x 1160mm

Inside walls : Knauf Earthwool R3.2 Basic 140mm x 580mm x 1160mm

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Drainage Notes

AAV Air admittance valve installed to fitting. Vents to terminate in roof space or joinery for access

DP 80mm Colorcoat 'Magnaflow' downpipe to terminate into uPVC pipe 100mm approx above ground. Install debris grate as required

MV 80mm uPVC main vent to terminate above roof. Refer to Roof Penetration Detail

IP Inspection / access point

GT Gully trap installed in site concrete with removable grate for cleaning / maintenance access

--- 100mmØ uPVC sewer at 1:100 min. grade
 --- 100mmØ uPVC stormwater at 1:120 min. grade
 --- Existing sewer line
 --- Existing storm water line

■ New Sump (Type One), 375mmØ x1000mm max. deep sump as per Figure 8 E1/A31. Removable 300x300mm access grate (vehicle trafficable)

Location of sewer + stormwater laterals are not shown, refer to Site Plan. Contractor to confirm location + invert levels of sewer + stormwater laterals on site prior to any work commencing

Drainage installed to NZBC G13

All drainage pipes to be uPVC

Pipe run lines are indicative, use 'Y' connections as required. Allow to record as-built drainage plan.

All drain junctions shall be swept connections using 45° bends

Pipe Sizing & Gradients (min.)

Sink	400	uPVC	1:40	gradient
Tub	400	uPVC	1:30	gradient
Shower	400	uPVC	1:40	gradient
Vanity	400	uPVC	1:30	gradient
Bath	400	uPVC	1:40	gradient
WC	800	uPVC	1:60	gradient
Main Vent	800	uPVC	n/a	

Water Notes

Confirm location of water pipe entry into dwelling from water meter. Confirm with client

All hot & cold water pipes to fittings to be 20mmØ to comply with Table 4 - G12 (NZBC document)

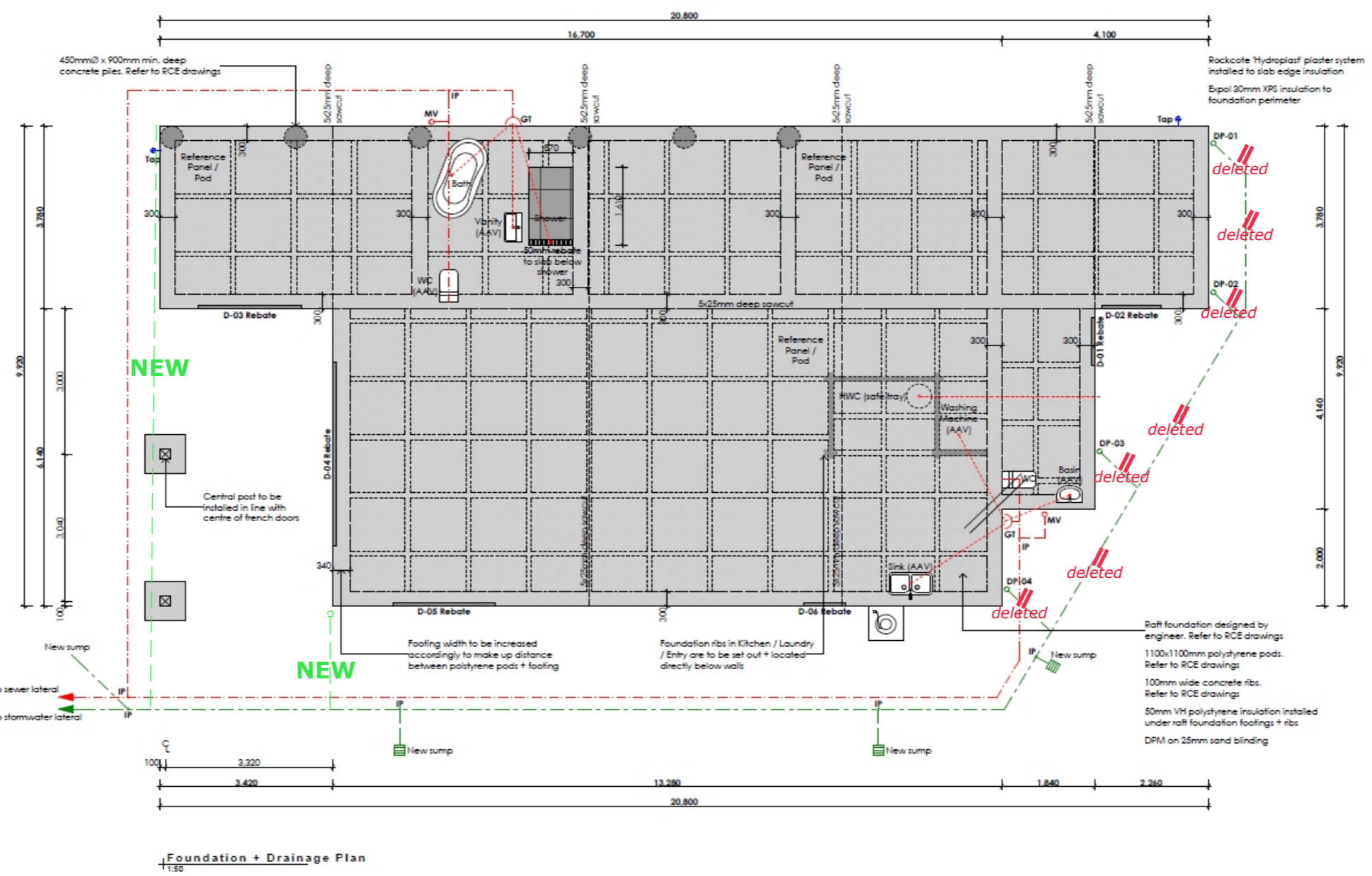
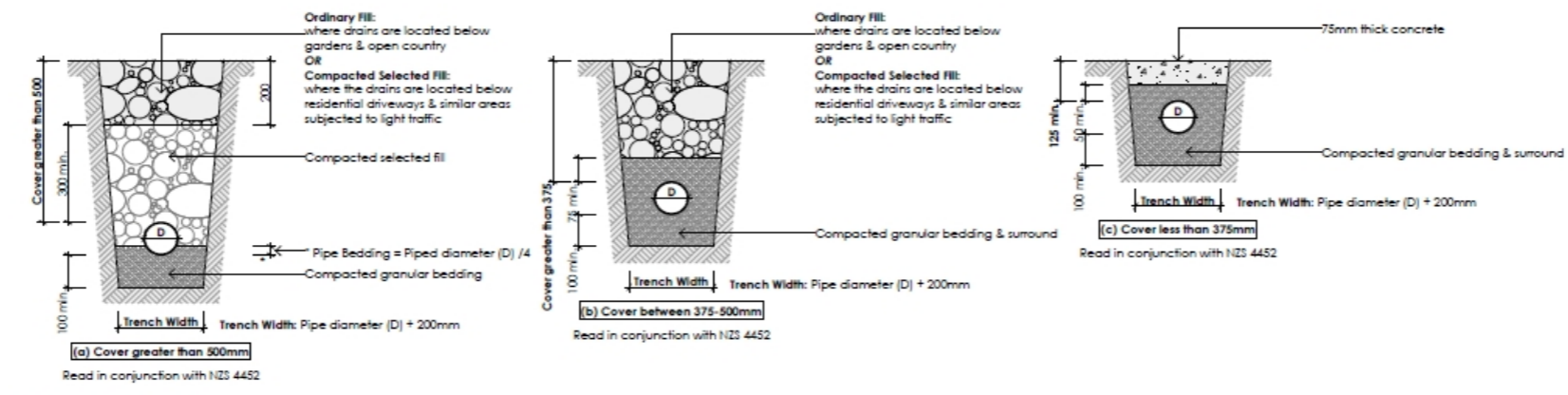
LPG

LPG bottles
 New 9kg LPG bottle on level concrete surface with chain restraints installed to location shown on Drainage Plan.

Install solid sheet cladding (James Hardie Hardiflex OR H3.2 treated plywood) to subfloor exterior behind LPG bottles for 1.50m min. each way from LPG bottles

LPG bottle clearances to achieve the minimum clearances:
 Opening Windows 150mm away
 Doors 1.0m away
 Open drains 1.0m away
 Ignition sources 1.5m away

Measurements taken from base of bottle



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04	Foundation + Drainage Plan
05	Hold Down Plan
06	Roof Framing Plan
07	Roof Plan
08	Roof Details
09	Sections
10	Sections
11	D/W Schedule
12	Wall Details
13	Window + Door Details
14	Electrical + Finishes Plan
15	Shower Details

Drawing Scale A1 Size
 Wall Scale at A3
 i.e. 1:100 at A1 = 1:200 at A3

Proposed Dwelling
 Euro Homes - Koelble
 15 Skylark Rise
 Atawhai
 Nelson

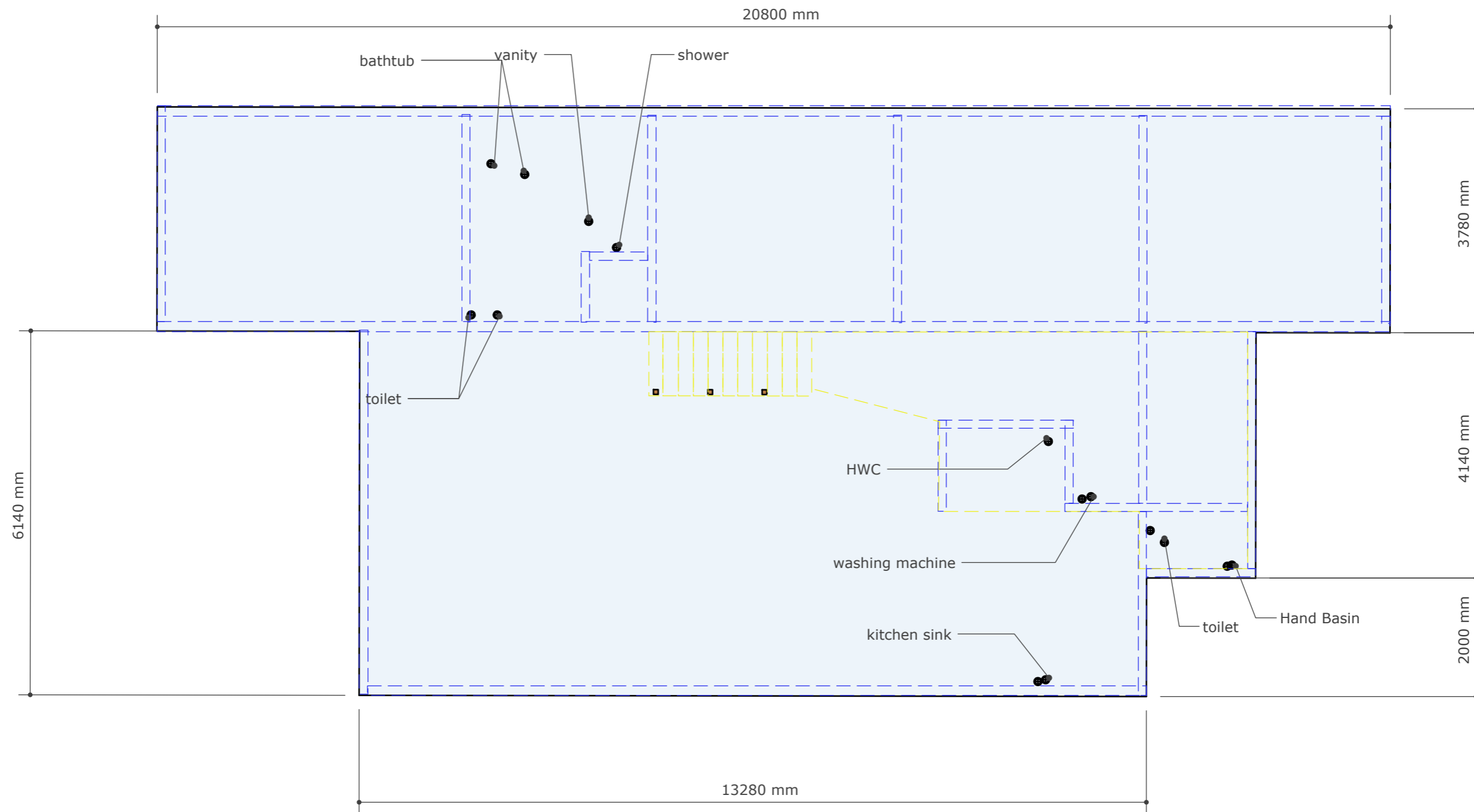
Part Lot:	53
DP:	S45726
Wind Zone:	Very High
EQ Zone:	2
Corrosion Zone:	D
Snow Zone:	N2 (1 kPa)
Climate Zone:	3

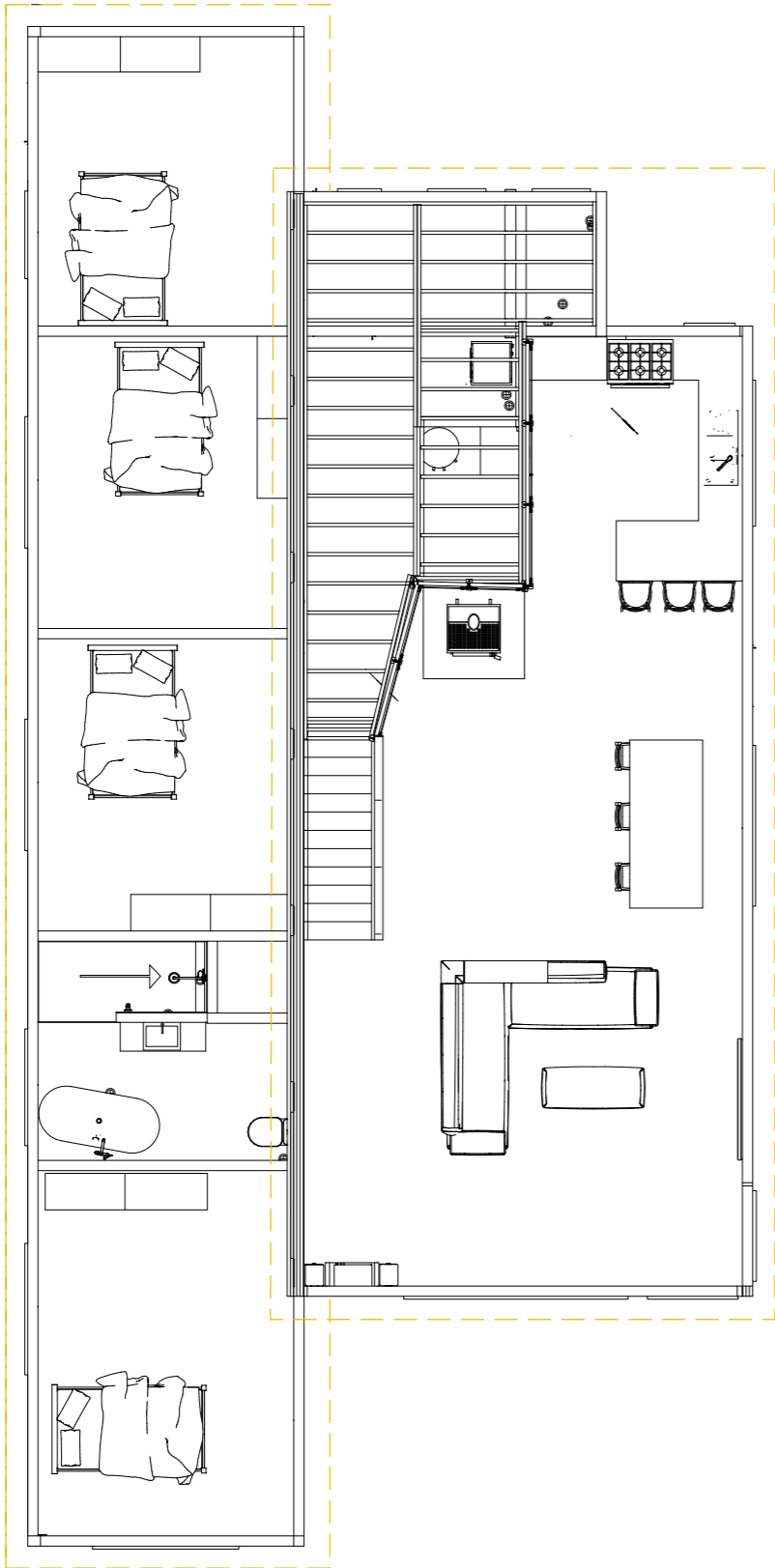
Developed Drawings - Engineer	22.03.2022
Working Drawings - Client	27.05.2022
Building Consent Application	04.04.2022
Building Consent RFI	14.08.2022
Building Consent RFI (Engineer)	05.09.2022
Building Consent RFI	13.09.2022

Date	13.09.2022
Job No.	1112
Sheet No.	04
of 15	
Foundation + Drainage Plan	

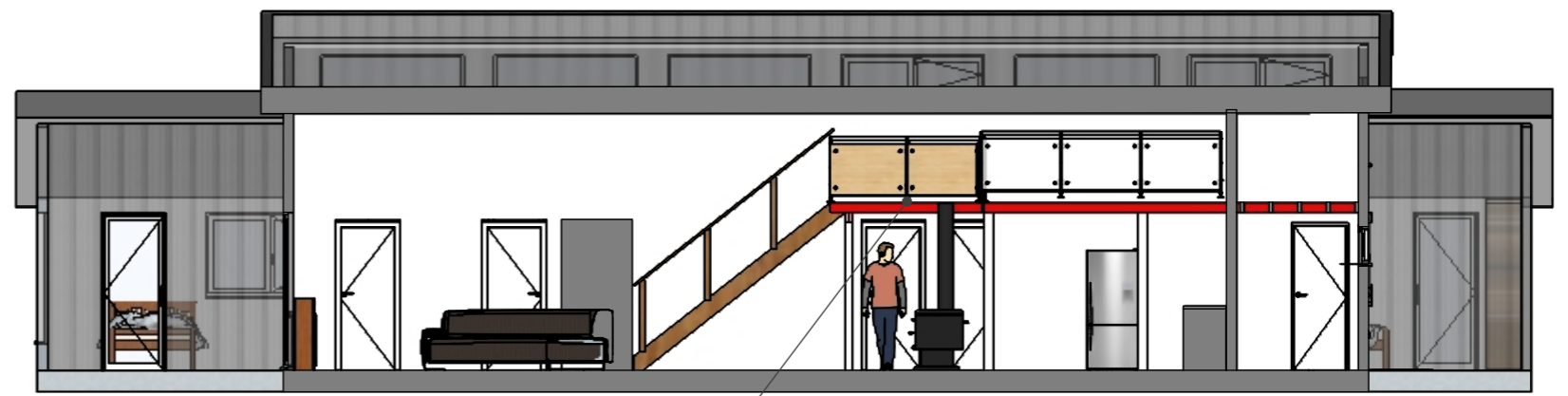
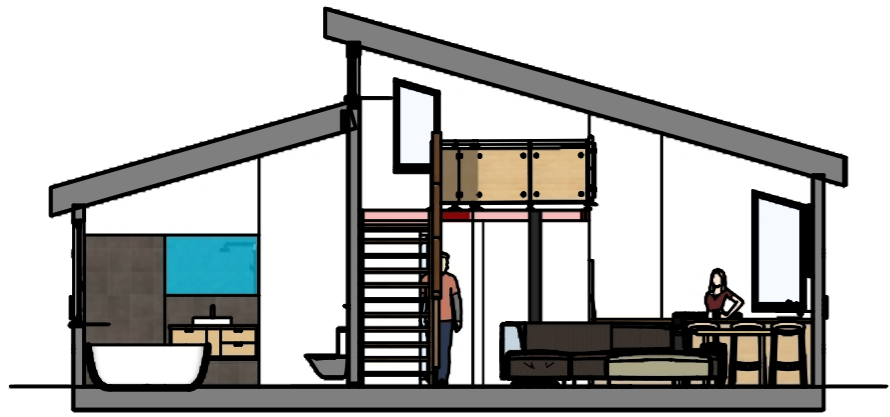
DANIEL HYNDMAN ARCHITECTURE
 daniel@dha.nz | dha.nz
 021 0816 8179

Daniel Hyndman Architecture Ltd
 Unit 3, 27A Sir William Pickering Drive
 Christchurch 8053

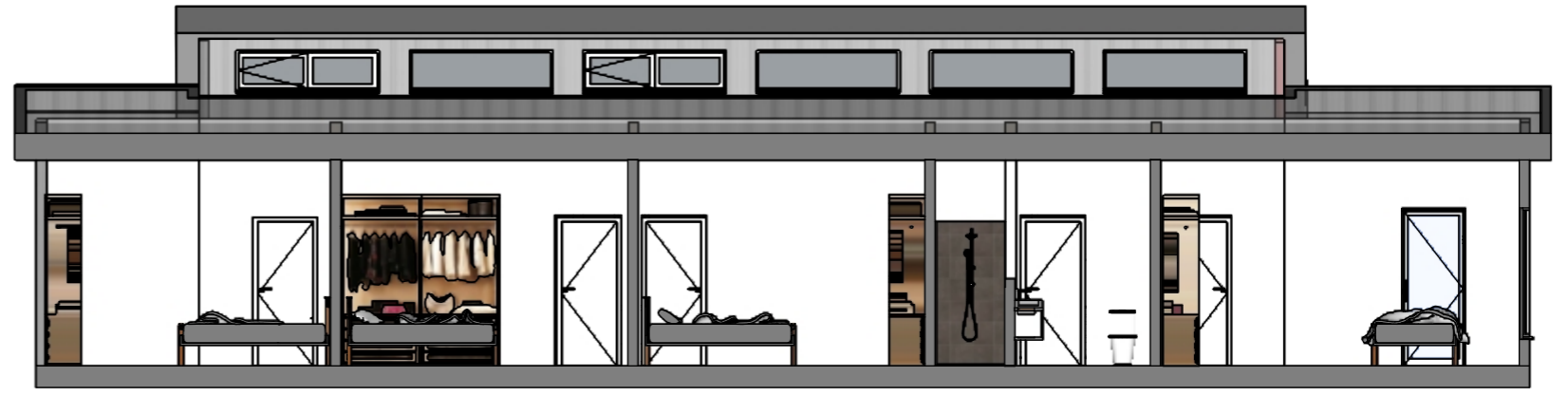
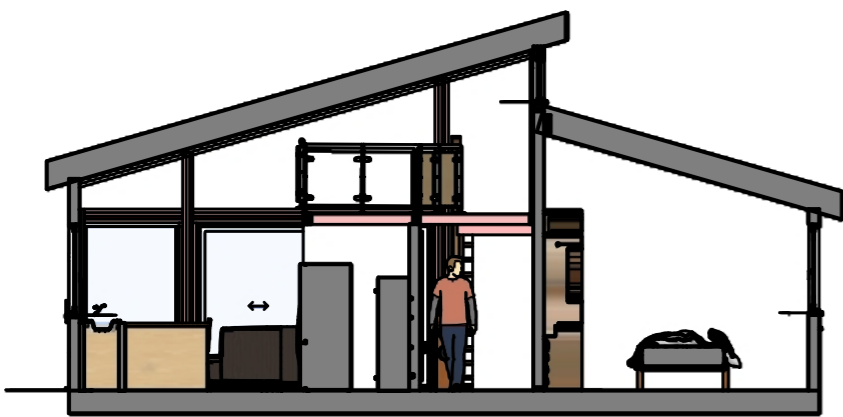


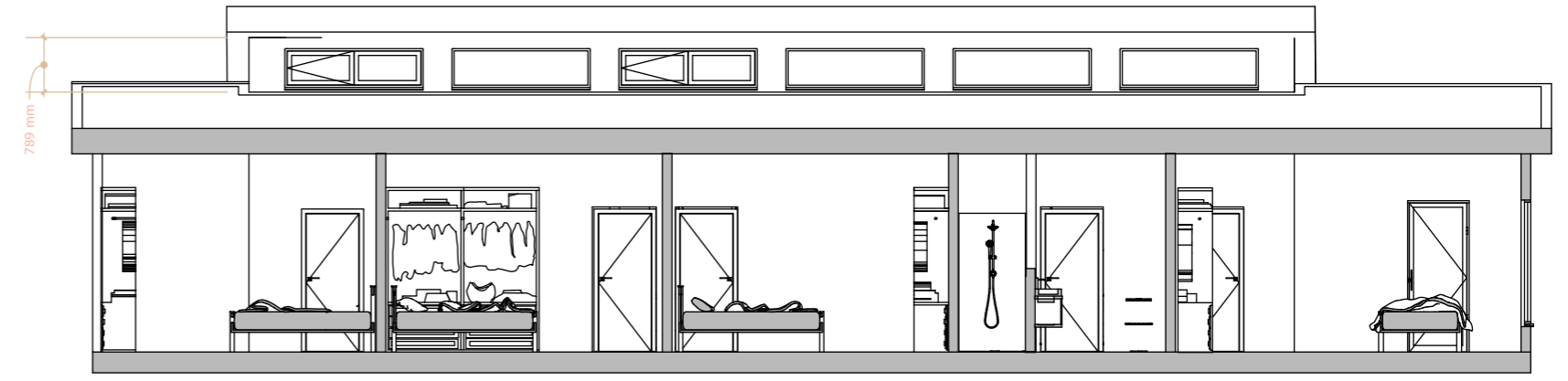
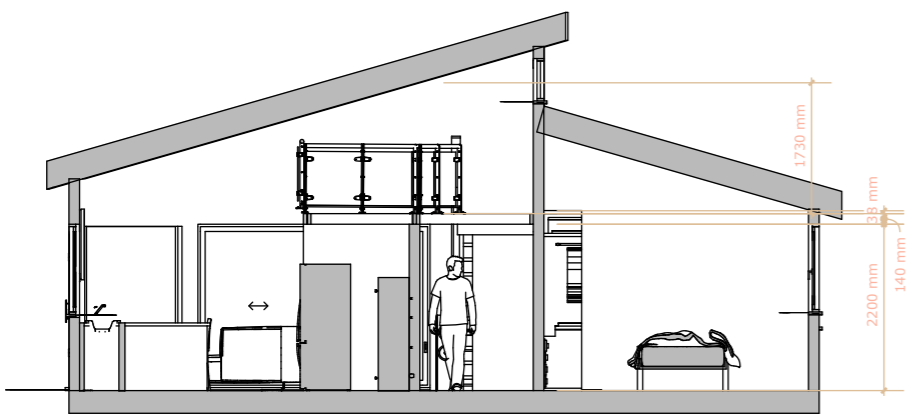
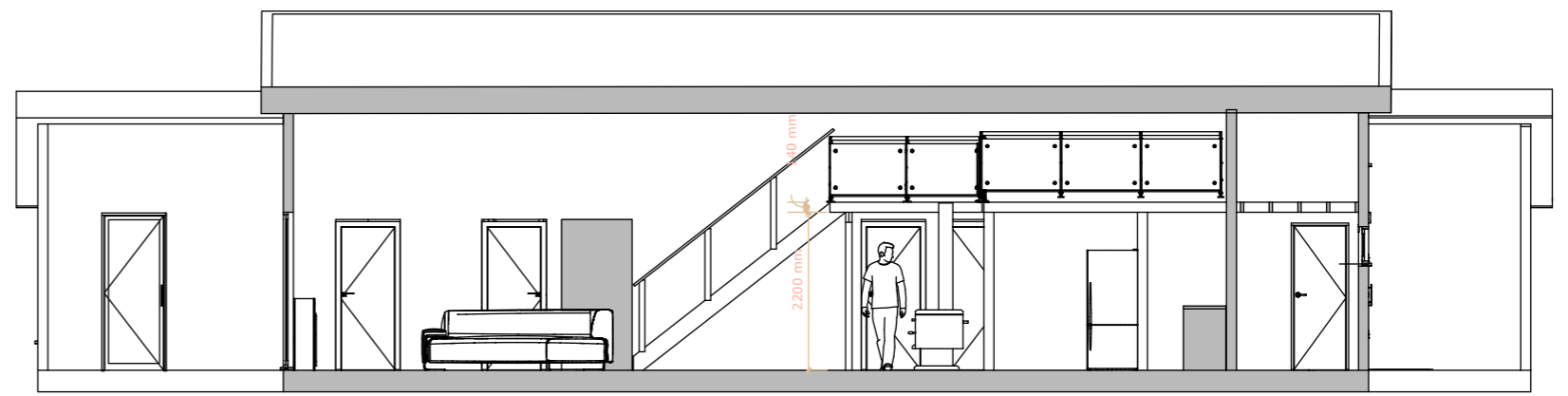
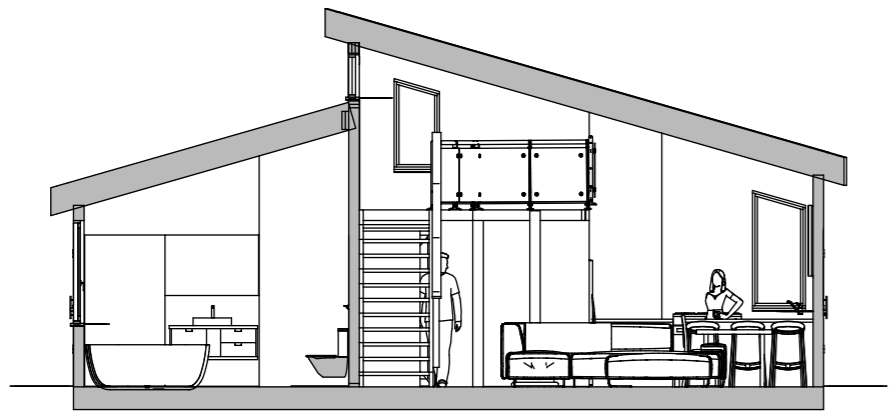


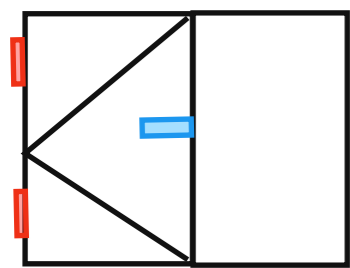
Diagonal roof bracing



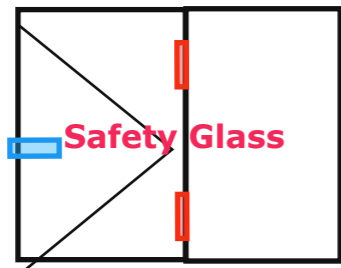
gallery sits on top of 2200 high internal walls



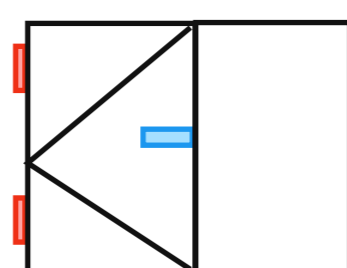




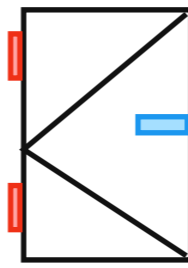
W01
1800 w x 1200 h
FFL to sill
1000 mm



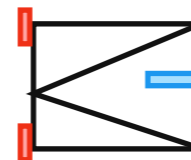
W02
1600 w x 1400 h
FFL to sill
800 mm



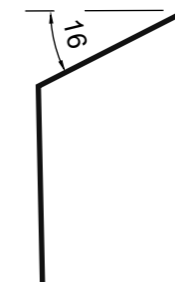
W03
1800 w x 1200 h
FFL to sill
1000 mm



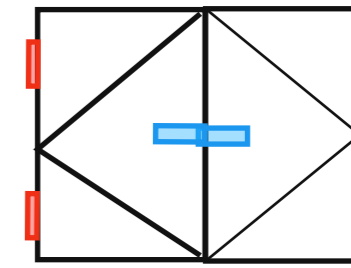
W04
800 w x 1000 h
FFL to sill
1000 mm



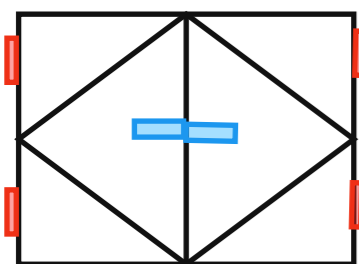
W06
800 w x 550 h
FFL to sill
1450 mm



W07
700 w x 1400/1600 h
FFL to sill
1000 mm



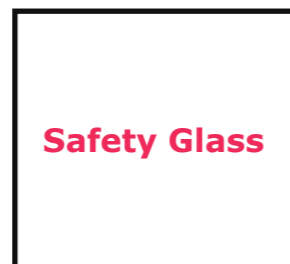
W08
2000 w x 1200 h
FFL to sill
1000 mm



W09
2200 w x 1200 h
FFL to sill
1000 mm



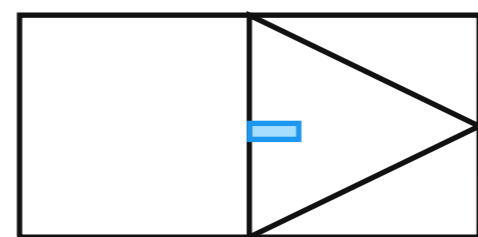
W10a and W10b
1240 w x 2200 h
FFL to sill
0 mm



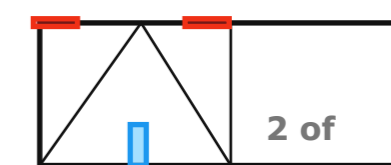
W11
2000 w x 1800 h
FFL to sill
400 mm



W12
above door
600 w x 980/ 1230 h
FFL (Galley) to sill
500 mm

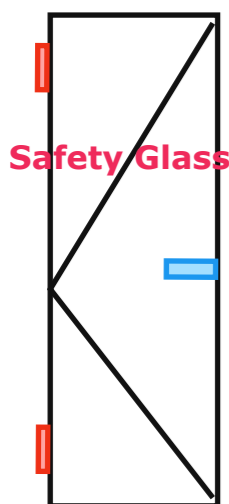


W19
1200 w x 1200

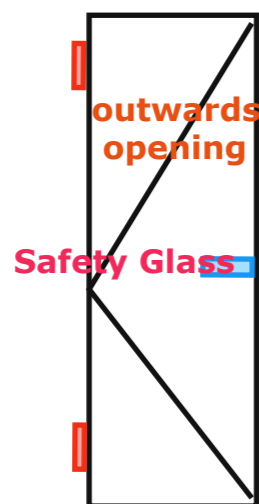


W13-18
Windows above roof 6 off
2000 w x 600 h

All windows and doors seeing from outside
All windows and doors inward opening ,
if not specified as outward opening



D01
900 w x 2200 h



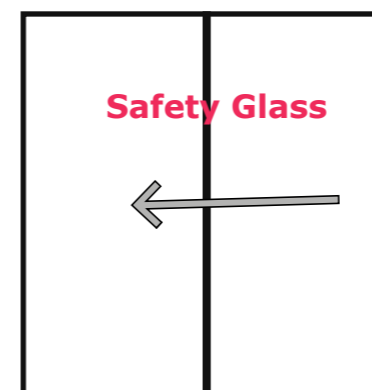
D02
900w x 2200 h



D03
959 w x 2000 h

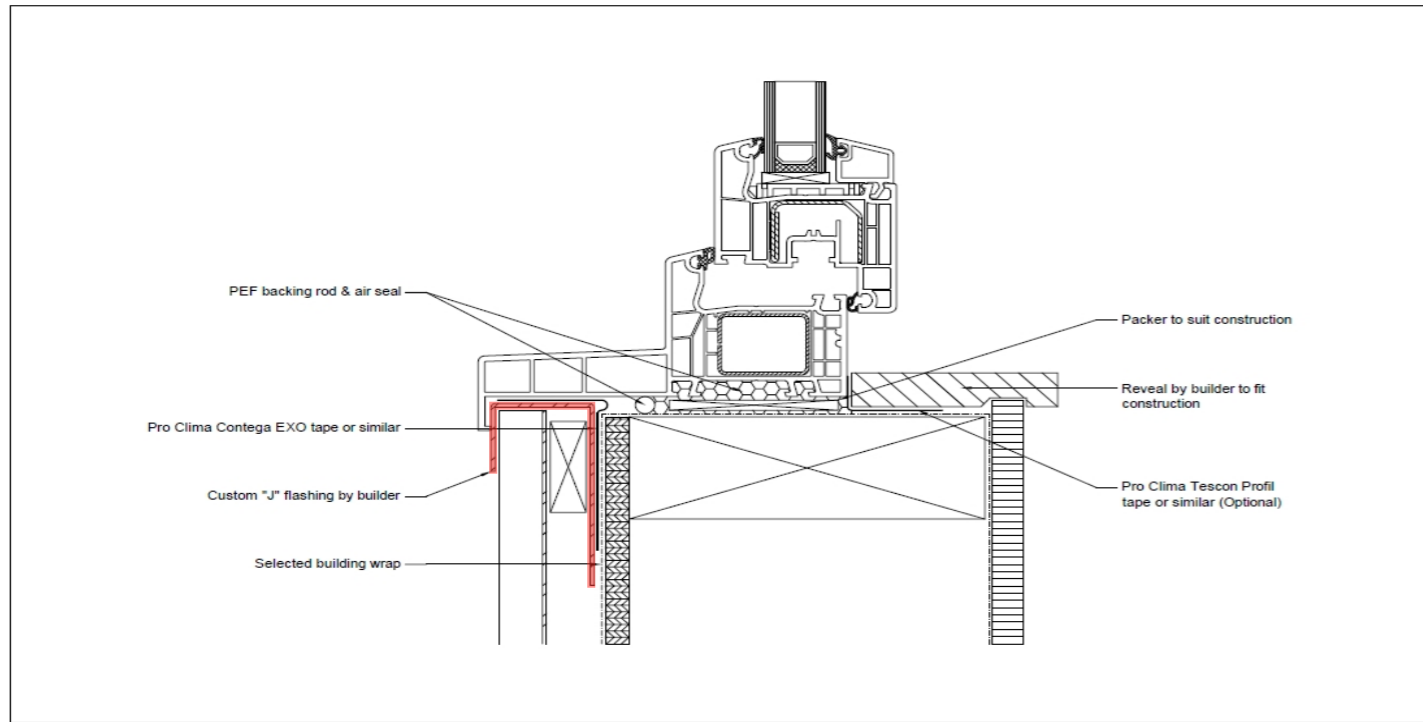


D04
900 w x 2200 h



D05
3070 w x 2200 h

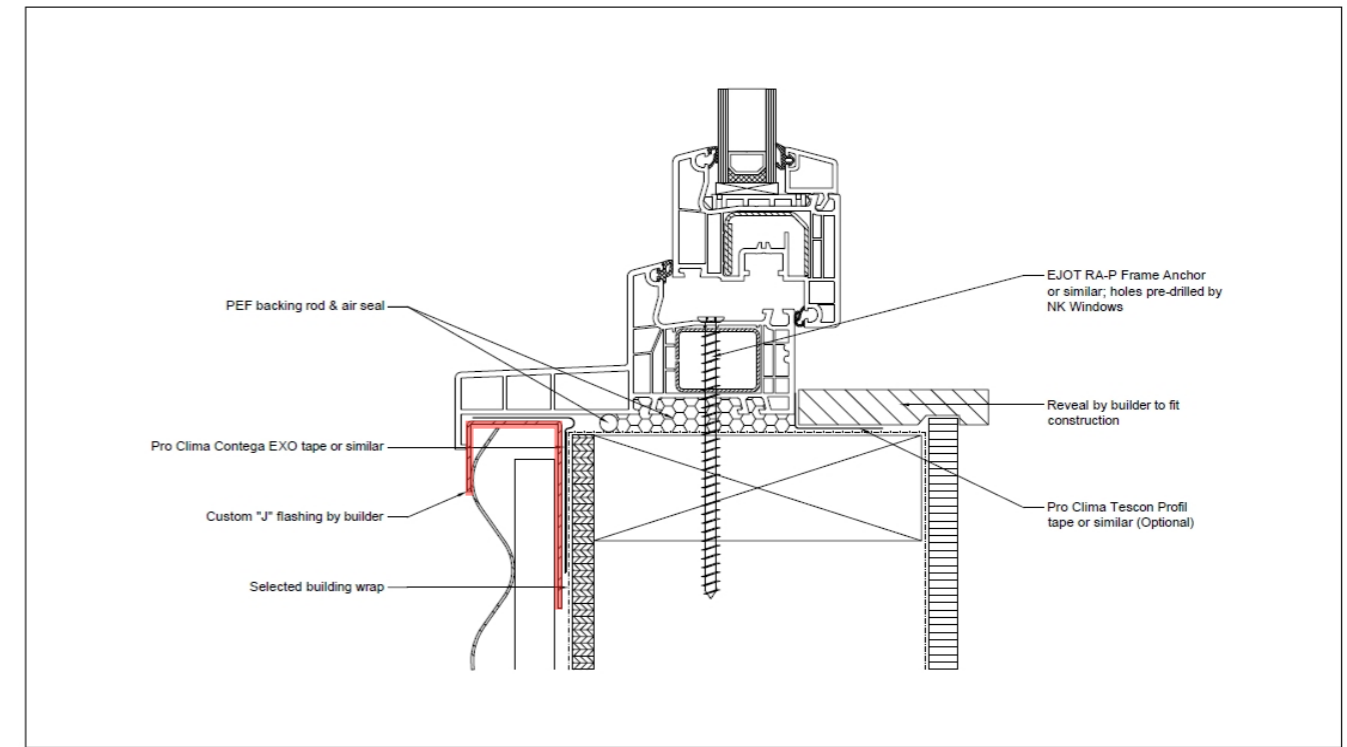
Window or door	Loaded dimension of Lintel	Window width	Lintel size (H1.2 SG8)
w1	1.9	1.2	90 x 90
w2	1.9	1.6	140x90
w3	1.9	1.8	140 x 90
w4	1.9	1.8	140x90
w5	1	0.6	90x90
w6	1	0.8	90x90
w7	1	2	140x90
w8	3.1	2	190x90
w9	3.1	2.2	190x90
w10	3.1	1.2	140x90
w11	1	2	140x90
d1	1	1	90x90
d2	1.9	1.4	90x90
d3	1	1	90x90
d4	3.1	0.9	90x90
d5	eng.	3.5	refer to engineer
w19	1.9	1.2	90x90



Inwards Opening Window Sill

DISCLAIMER: All details are for indicative purposes only. Installation methods should comply with manufacturers recommendations and relevant NZ Building Code regulations & Standards.
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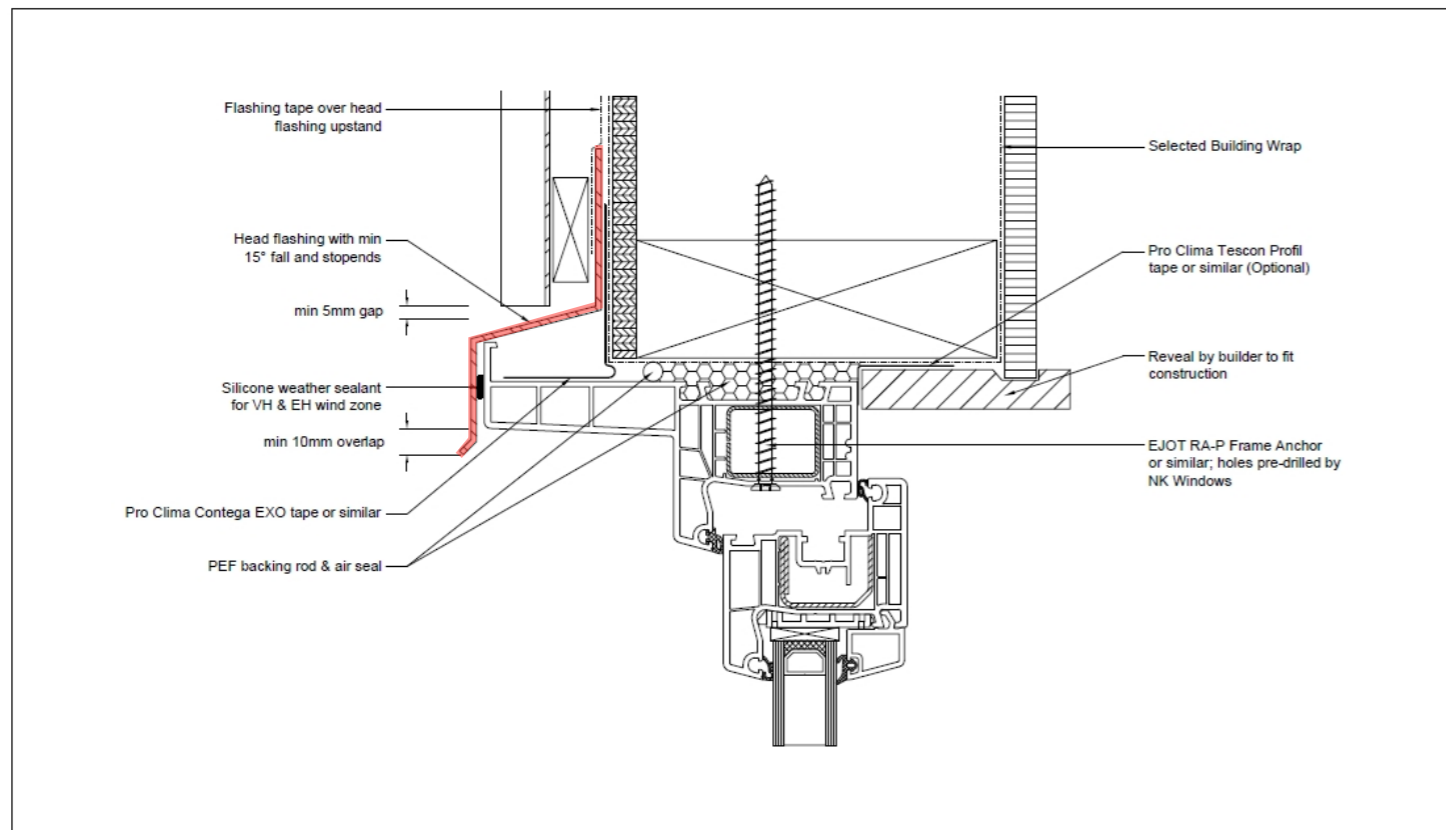
System: Aluplast Ideal 4000
 Cladding: Profiled Metal
 Version: 1.00, DEC19
 Scale: 1 : 2
 Code: 4NBPMWBWDI



Inwards Opening Window Jamb

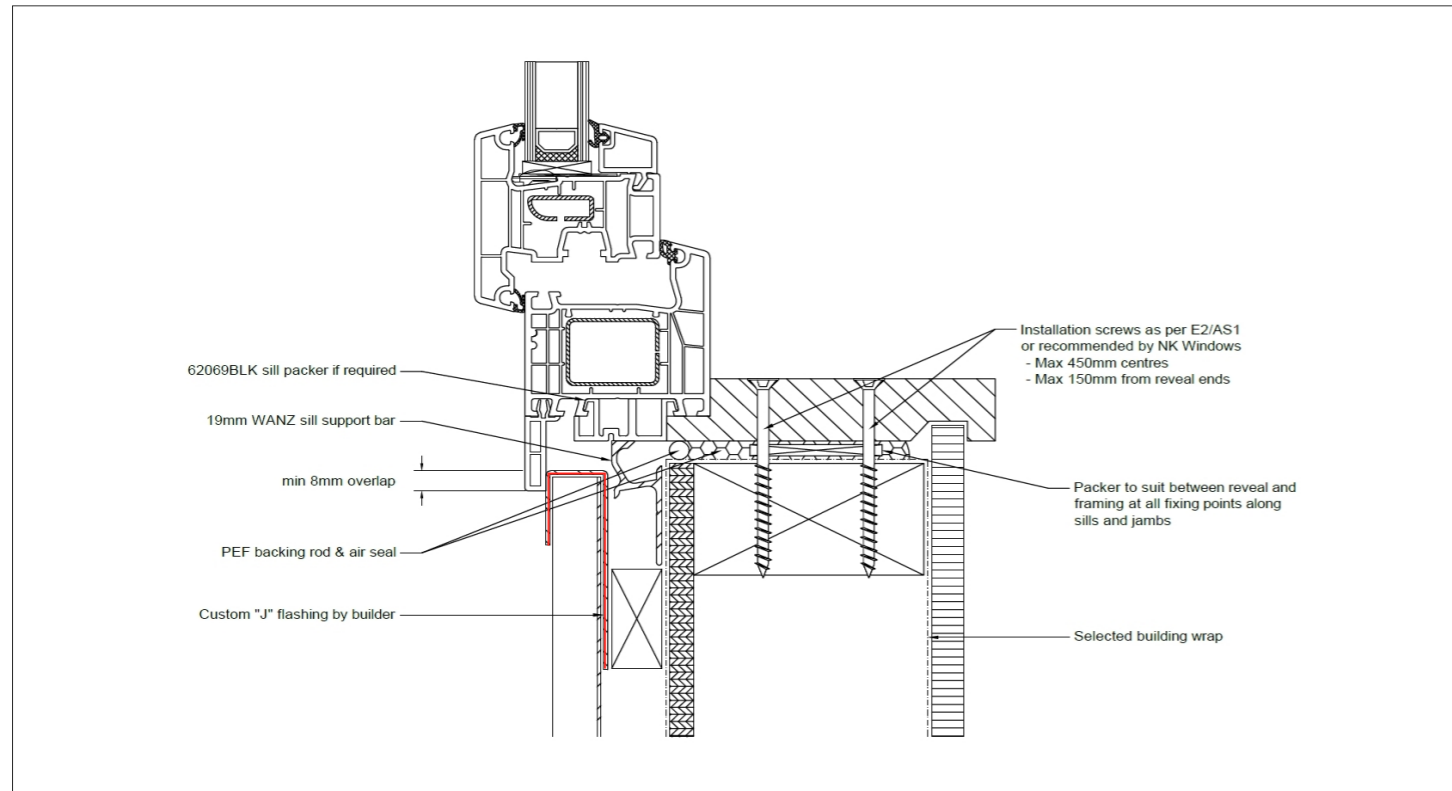
System: Aluplast Ideal 4000
 Cladding: Profiled Metal
 Version: 1.00, DEC19
 Scale: 1 : 2

Flashing details all windows and doors except w13-18 (next page)



Inwards Opening Window Head

System: Aluplast Ideal 4000
 Cladding: Profiled Metal
 Version: 1.00, DEC19

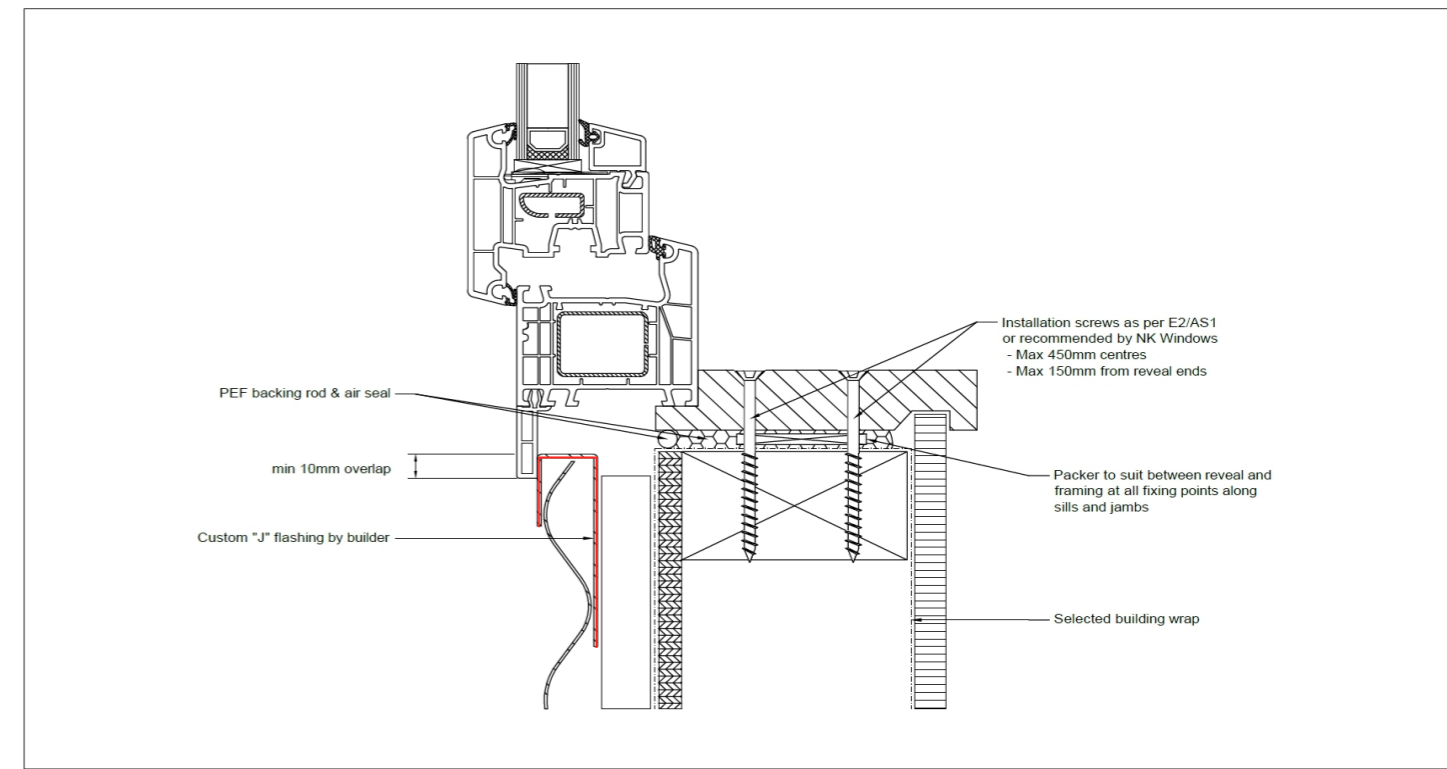


Outwards Opening Window Sill

System: Aluplast Ideal 4000
 Cladding: Vertical Profiled Metal
 Version: 1.00, JUL19
 Scale: 1 : 2
 Code: 4NBPMRWDO



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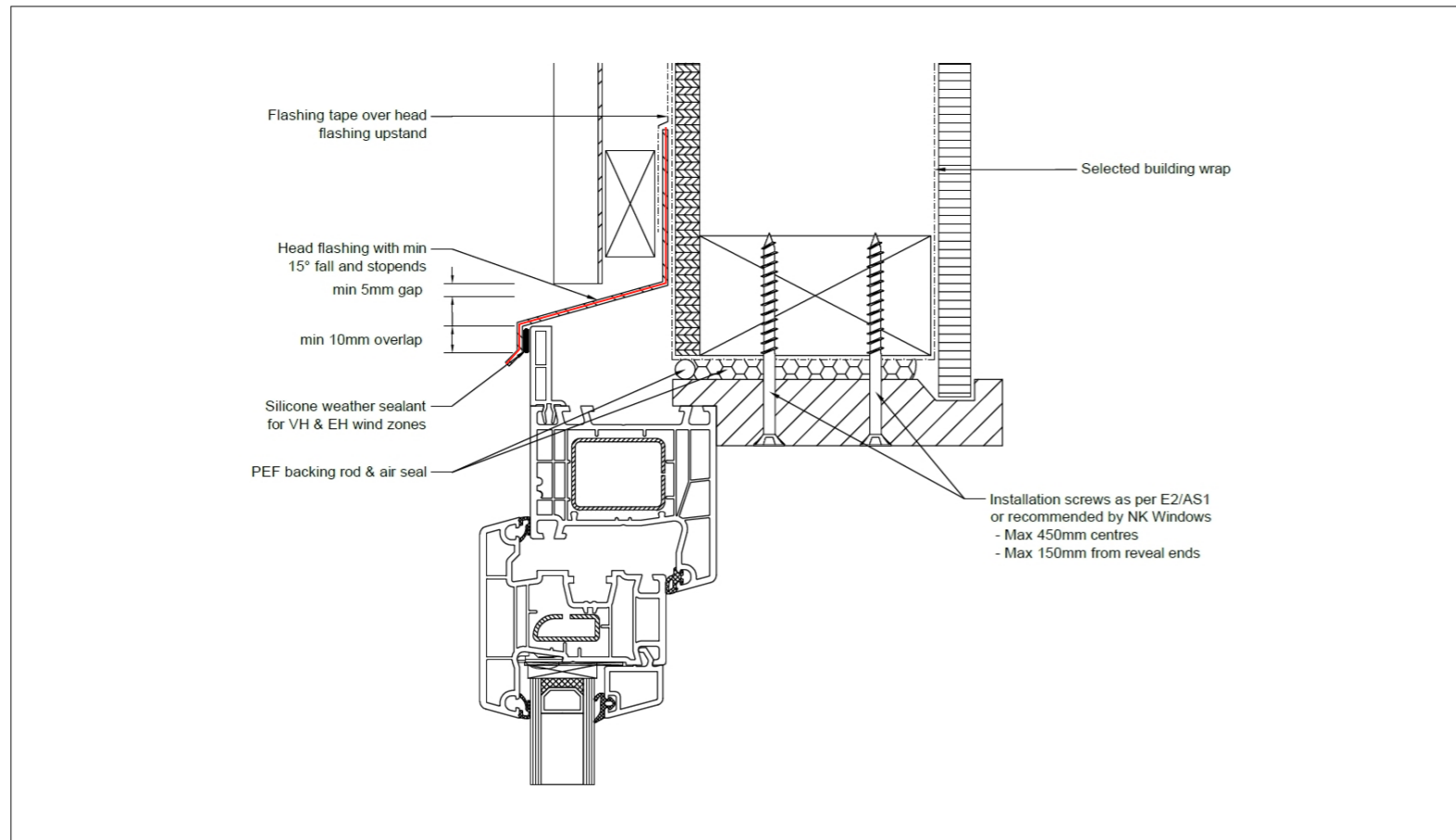


Outwards Opening Window Jamb

System: Aluplast Ideal 4000
 Cladding: Vertical Profiled Metal
 Version: 1.00, JUL19
 Scale: 1 : 2
 Code: 4NBPMRWDO



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Outwards Opening Window Head

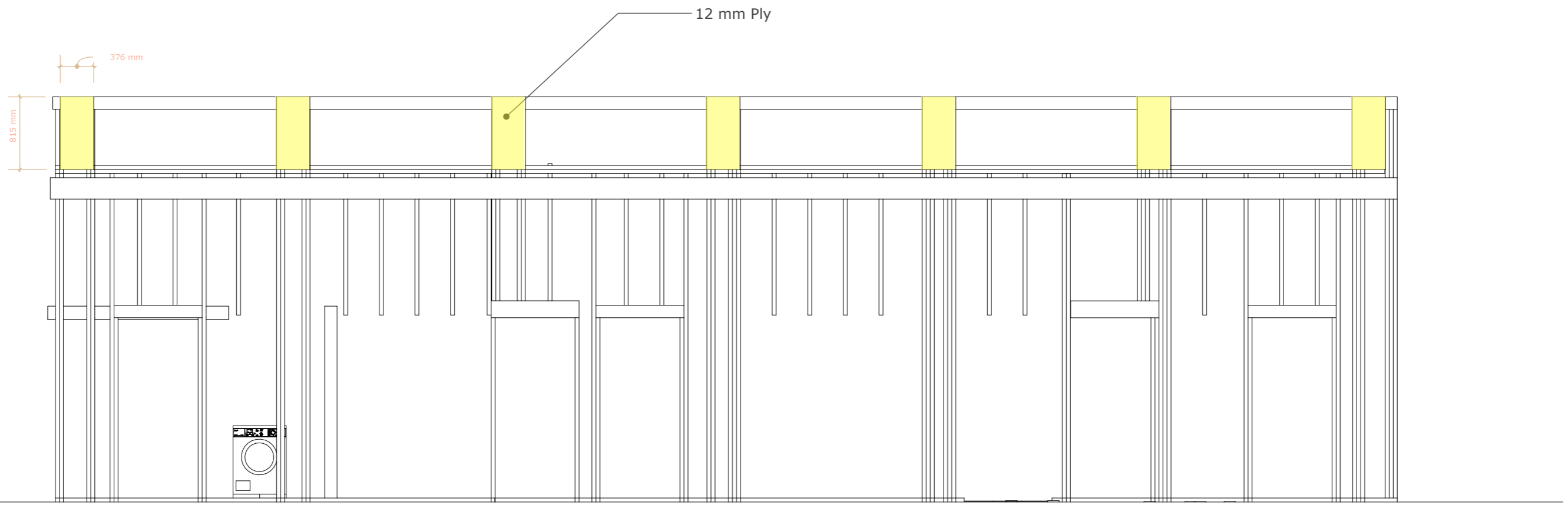
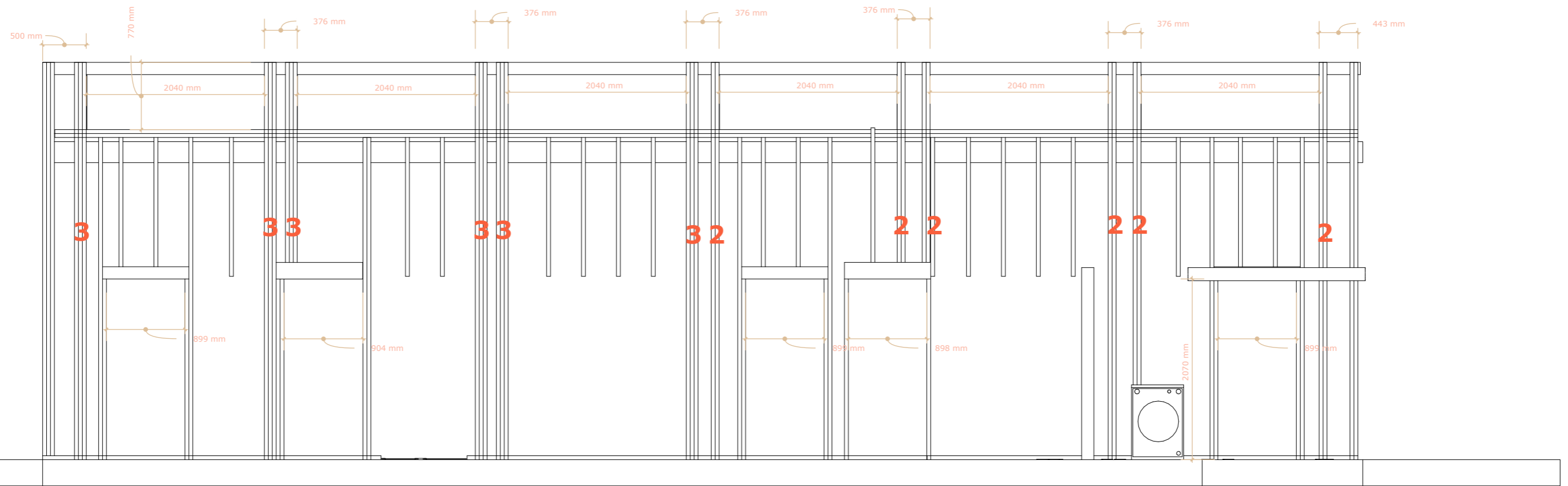
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 Cladding: Vertical Profiled Metal
 Version: 1.00, JUL19
 Scale: 1 : 2
 Code: 4NBPMRWDO

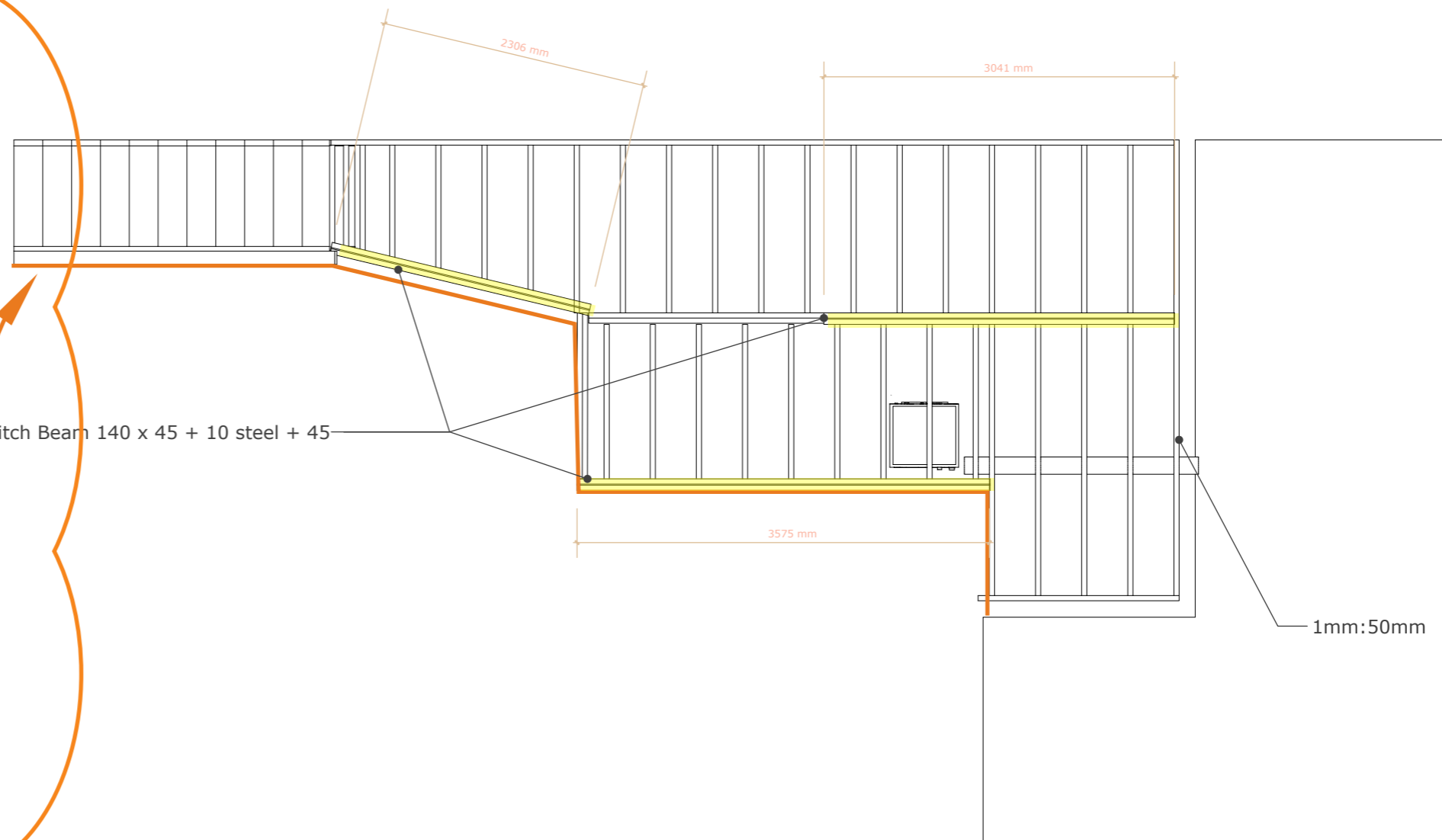
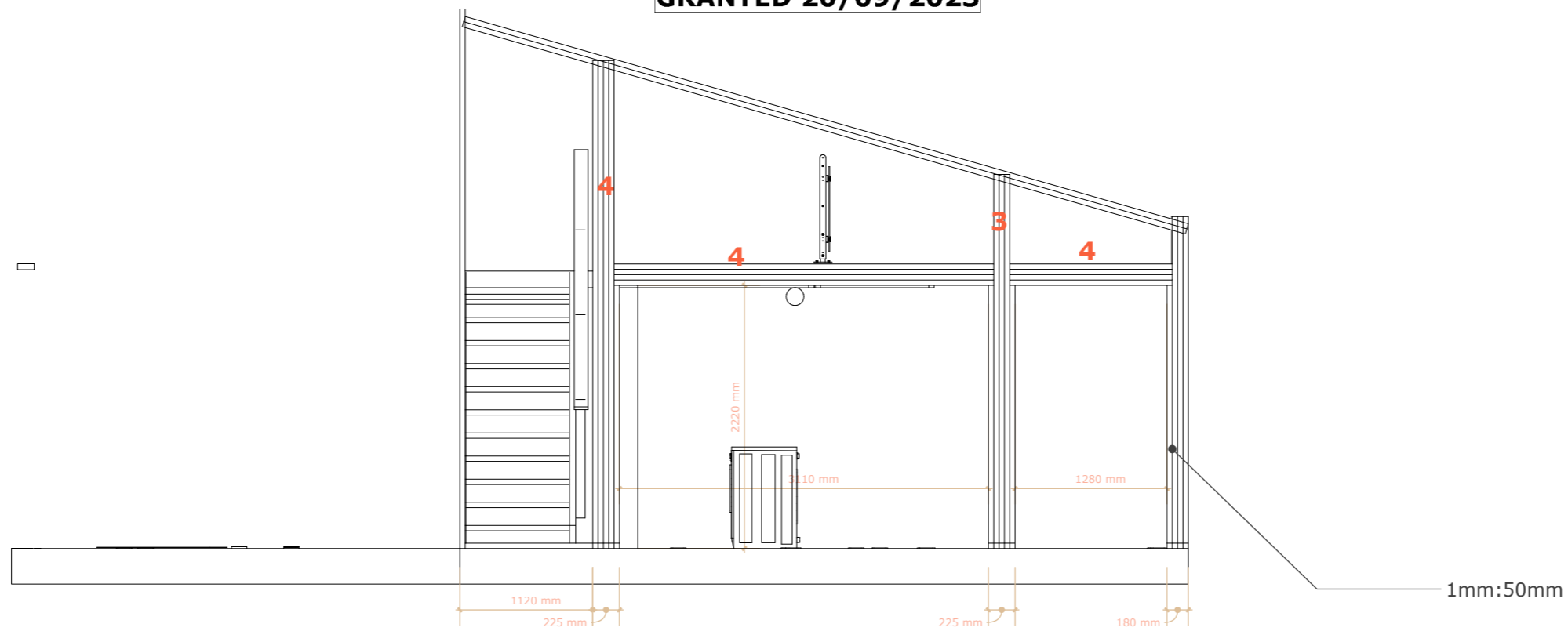


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Flashing window13 - 18





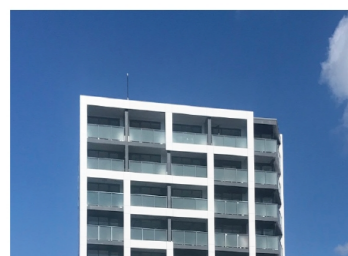
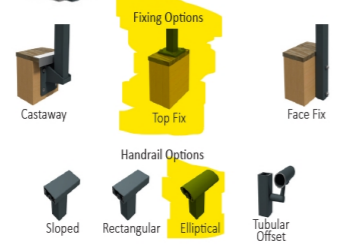


Clearspan Vista Balustrade

A traditional glass balustrade fully enclosed in a powder coated aluminium frame. Suitable for a broad range of applications including residential, commercial, external, internal, and pool fencing this balustrade system is super versatile and manufactured as a pre-assembled product meaning fast and easy installation.

Features

- Large range of glass options available
- Suitable for Pool fencing (F9)
- Tough powdercoated finish in your choice of colour*
- High quality T5/T6 aluminium and stainless steel fasteners
- Available to suit a range of substrates
- Designed and made in New Zealand



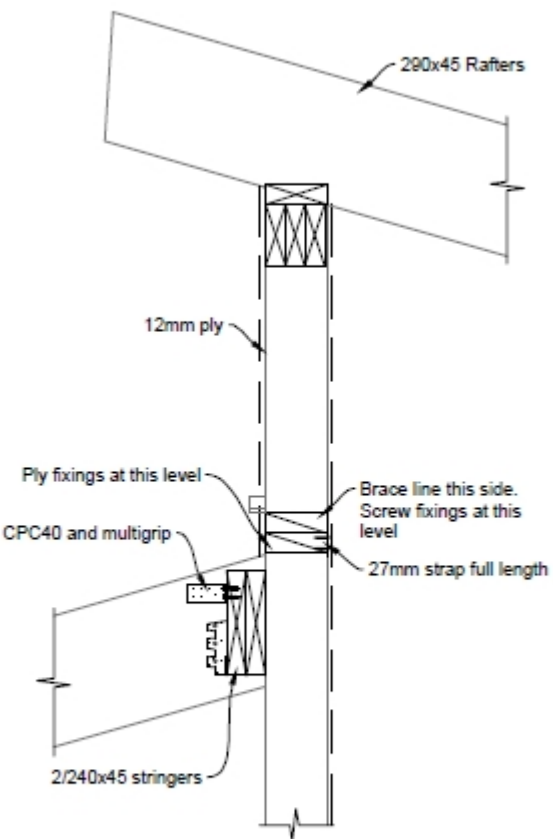
Balustrade for Gallery storage place in Specifications " Clearspan or Clearview top fixed to timber "

**Purlins (75 x 45 mm H1.2)
fixing Type D 3.45 kN
2 blue screws
max.purlin crs. 900 mm**

**Thermacraft Covertec 401
self supporting underlay**

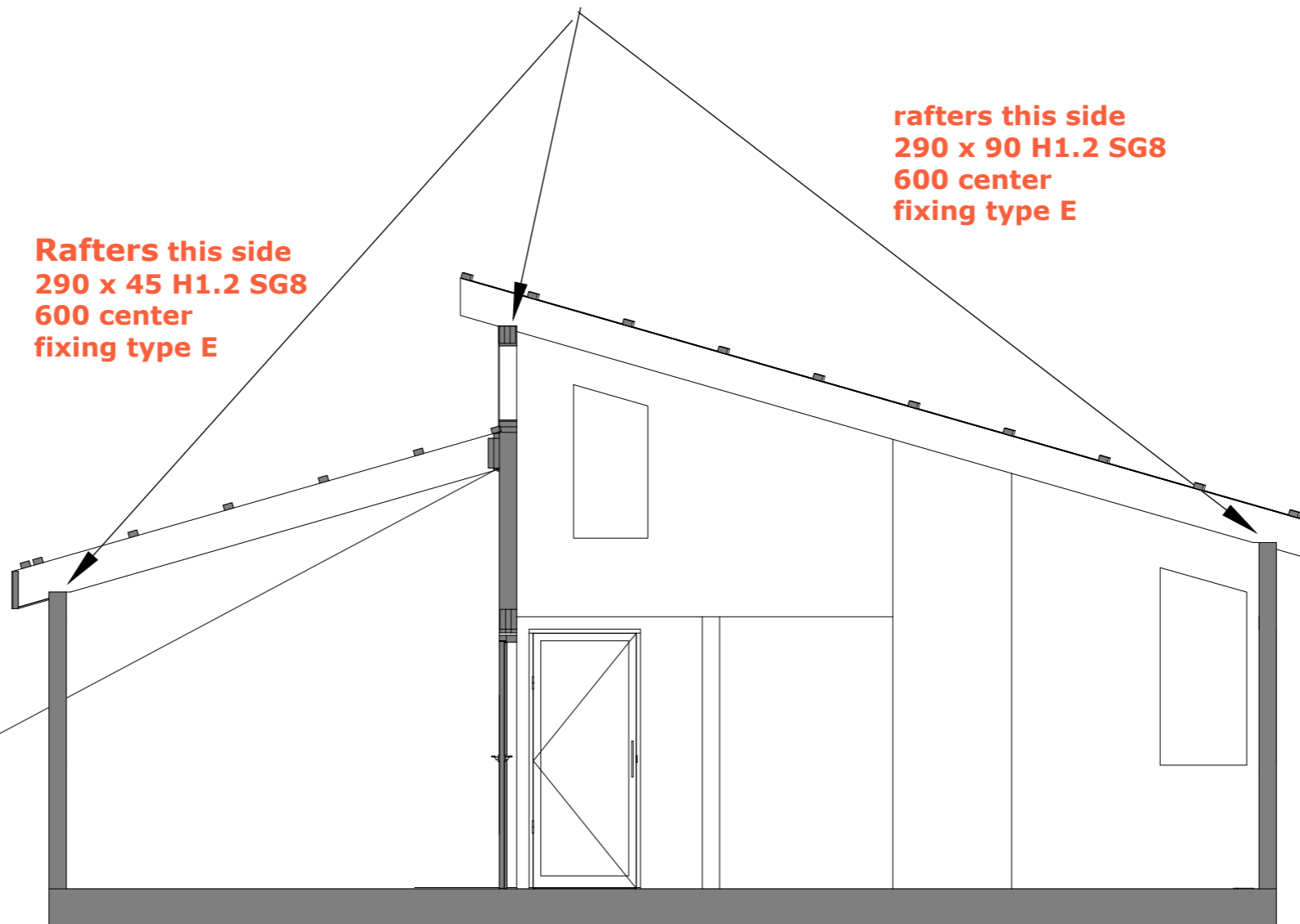
5-Rib Colorsteel 0.4 mm MAXX for all walls and roof

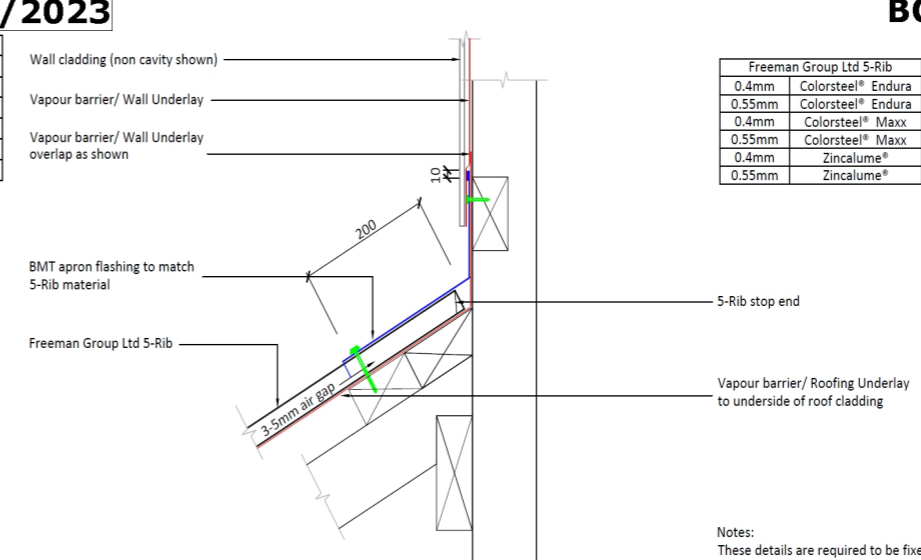
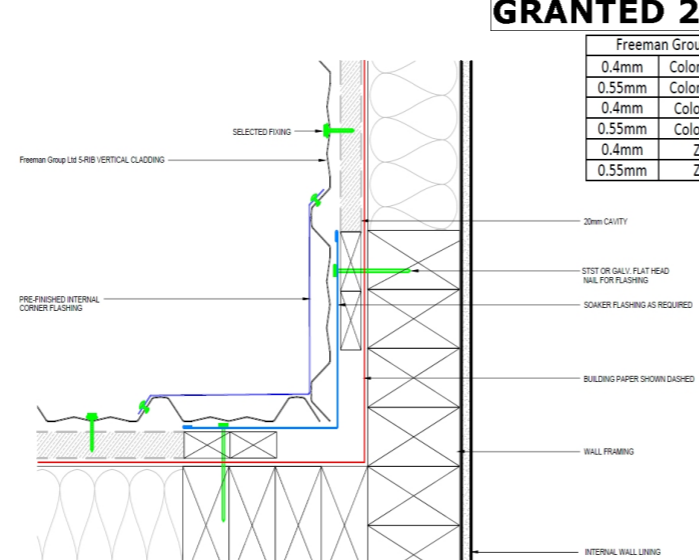
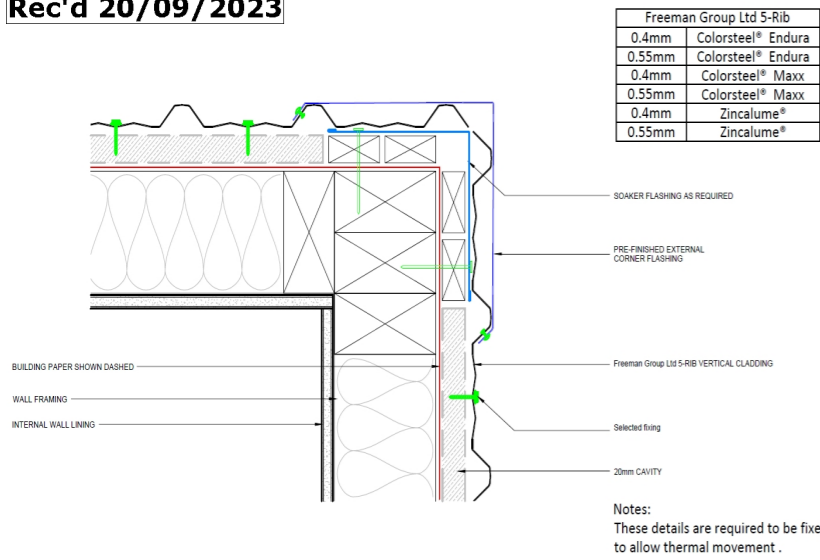
**Birdsmouth
Rafter fixing Type E
2x90x3.15 nails and 2 wiredogs**



Detail from Engineer plan

SE03
S03 Scale 1:10

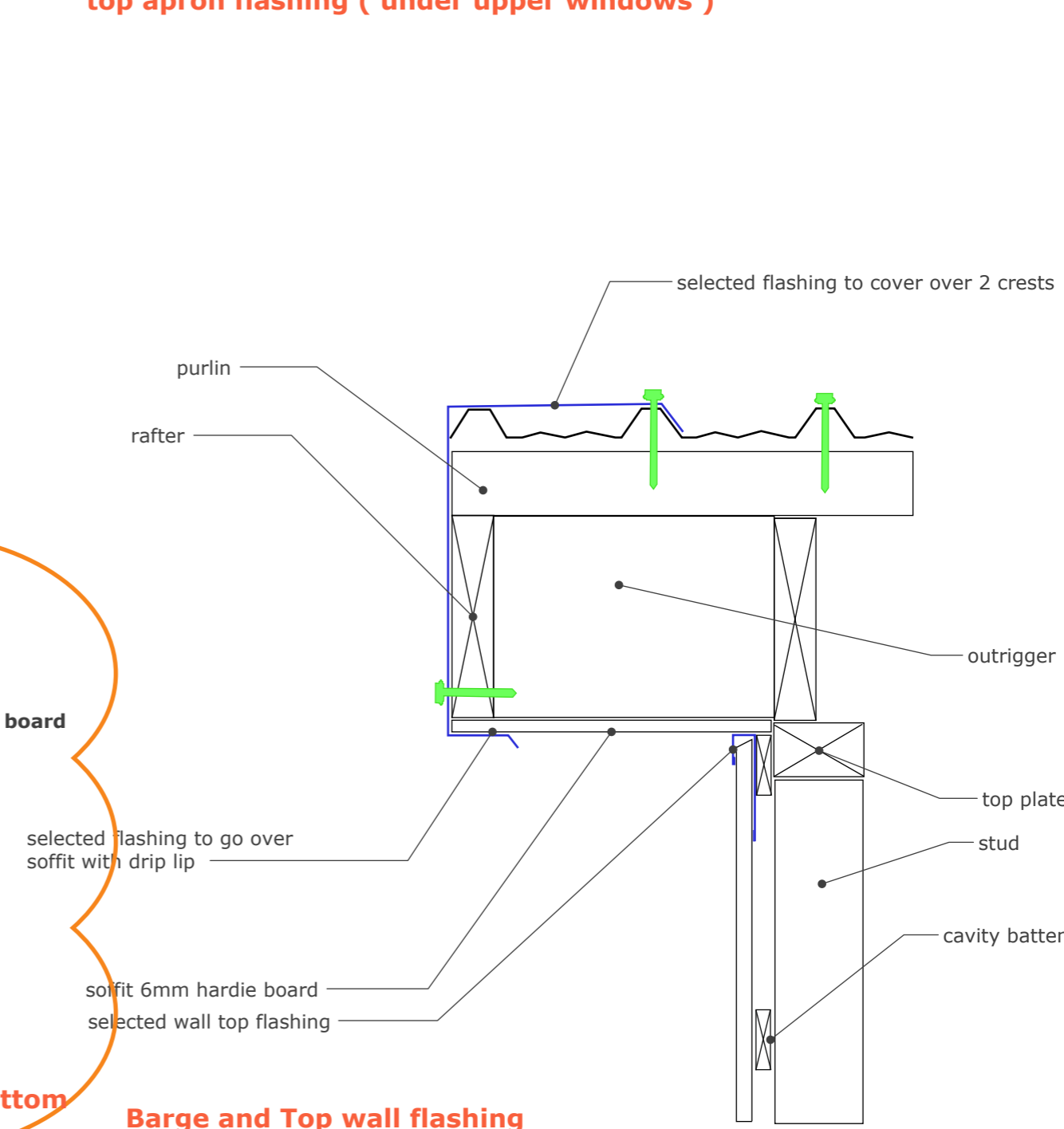
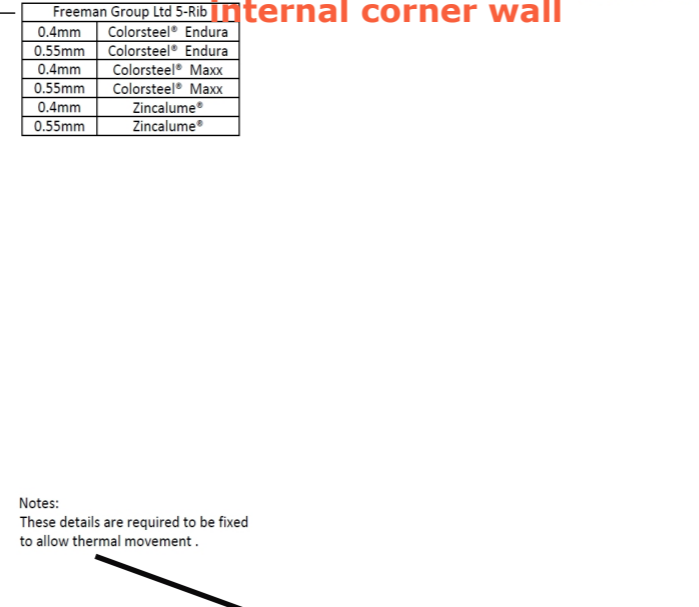
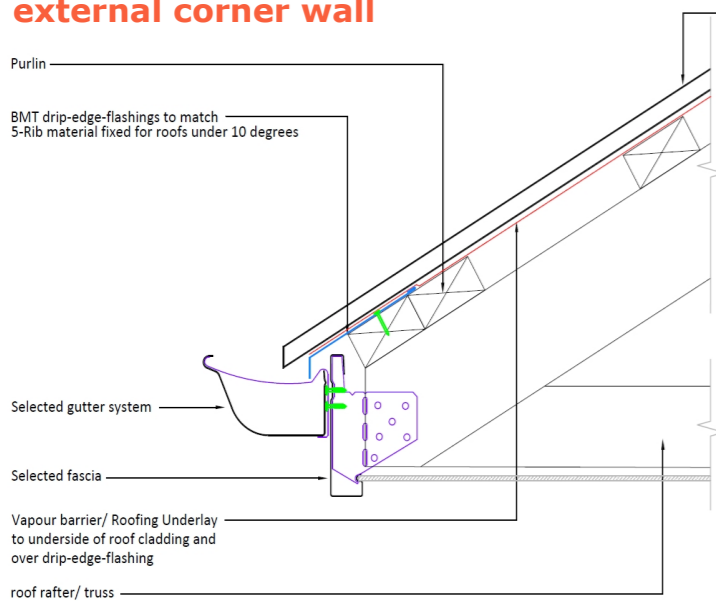




external corner wall

internal corner wall

top apron flashing (under upper windows)



Drip edge Flashing

Soffit wall junction Top

Soffit wall junction bottom

Barge and Top wall flashing



H1/AS1 5th Edition Calculation Method Spreadsheet

Version: 4 May 2023

Client
Project name
Address
Designer Dirk Heffter
Date 30-08-23
Territorial Authority Nelson City **Climate Zone** 3
When submitted Before 2 November 2023 **Application** Housing

Proposed Building		
Element	Area (m ²)	Proposed Building Heat Loss (W/K)
Slab-on-ground_Floors	167.0	104.4
Other_Floors	0.0	0.0
Roof	172.0	23.2
Skylights	0.0	0.0
Walls	160.0	39.0
Glazing (in walls & doors)	(16.7% of total wall area) 32.0	41.6
Doors (opaque)	0.0	0.0
	531.0	Total 208.2

Reference Building		
Element	Area (m ²)	Reference Building Heat Loss (W/K)
Slab-on-ground Floors	167.0	111.3
Other_Floors	0.0	0.0
Total Roof (includes skylight area)	172.0	26.1
Walls (70% of total wall area)	134.4	67.2
Glazing allowance (30% of total wall area)	57.6	125.2
	531.0	Total 329.8

Comparison of proposed building against the reference building

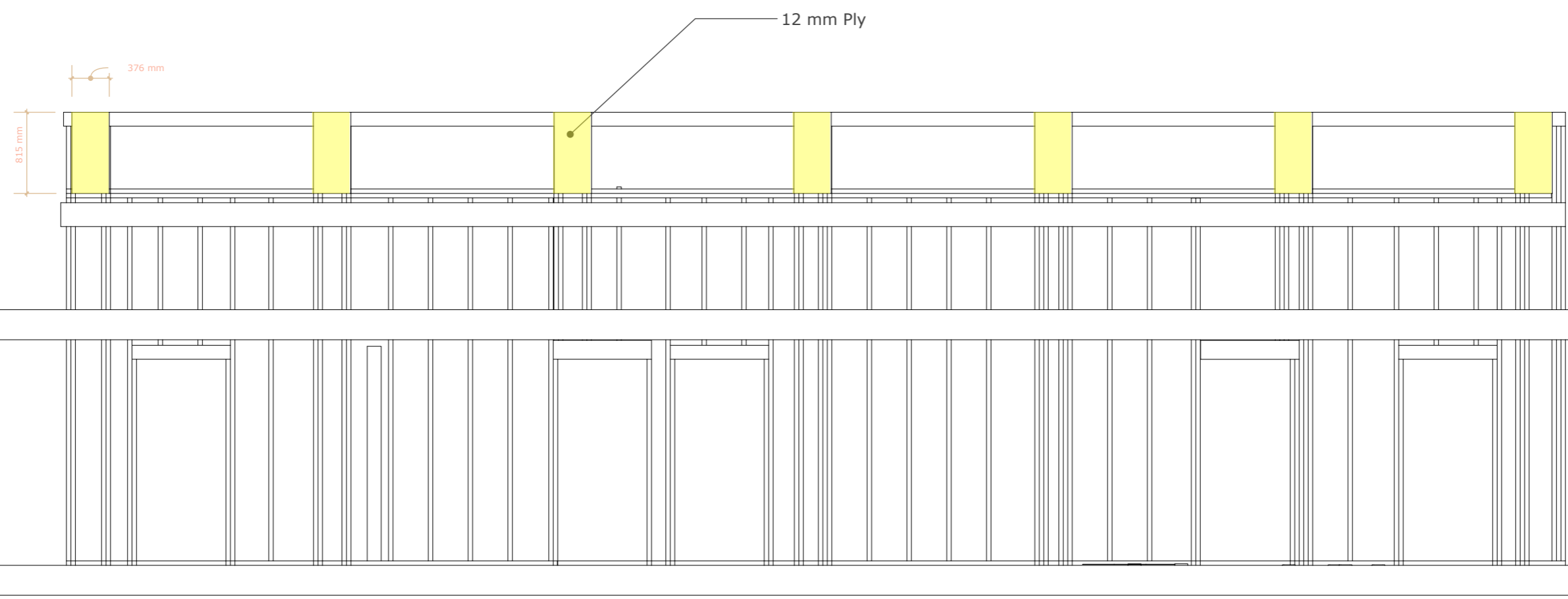
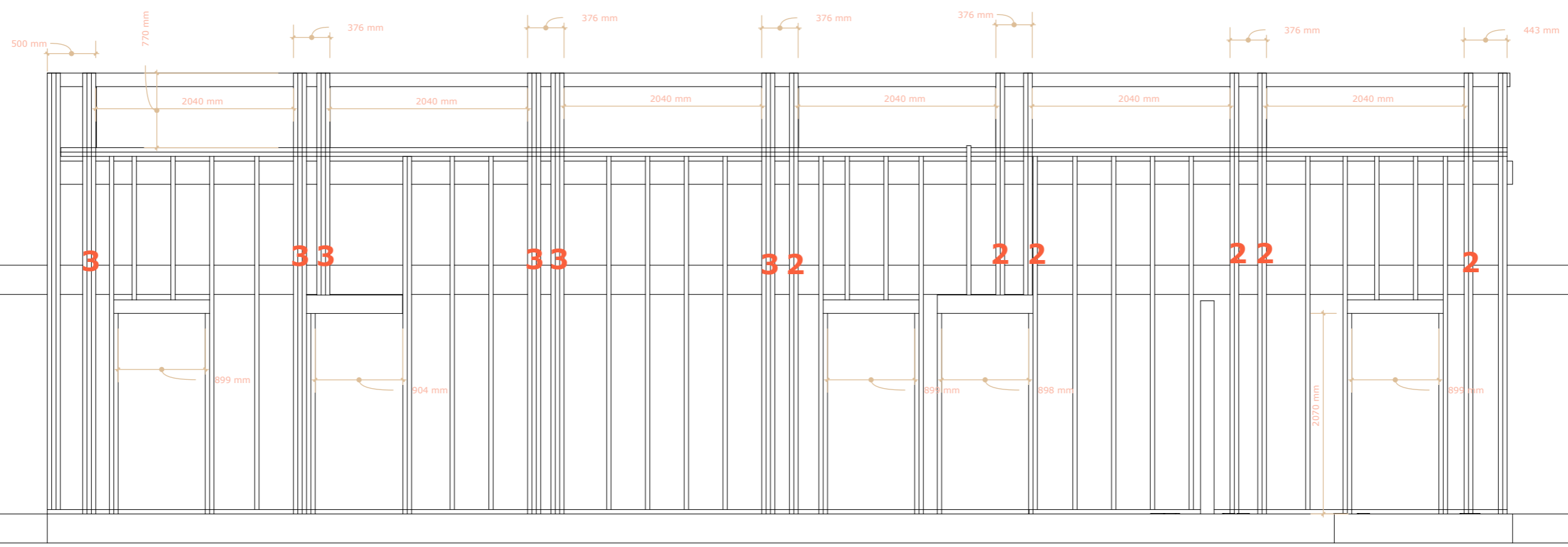
PASS

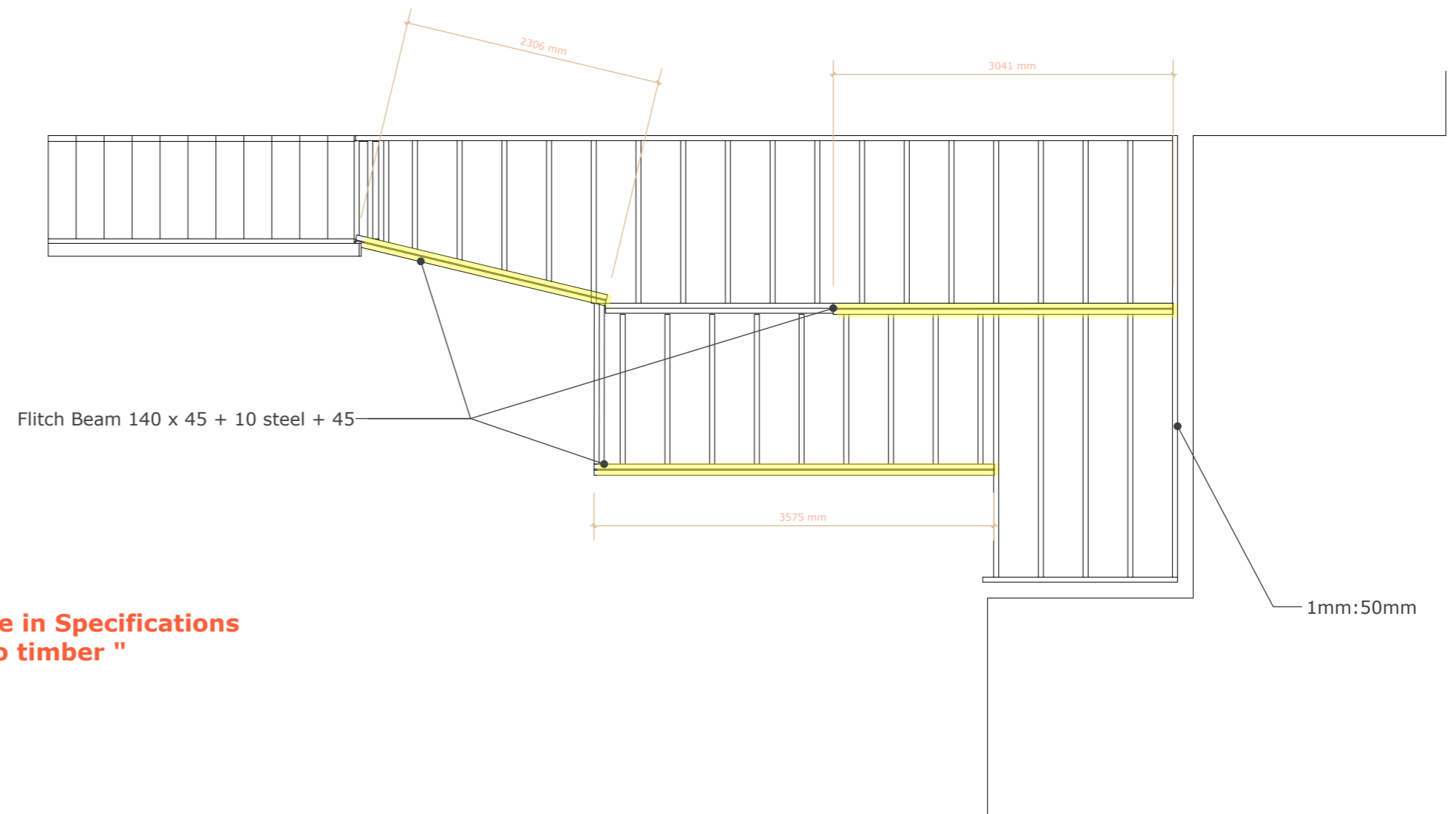
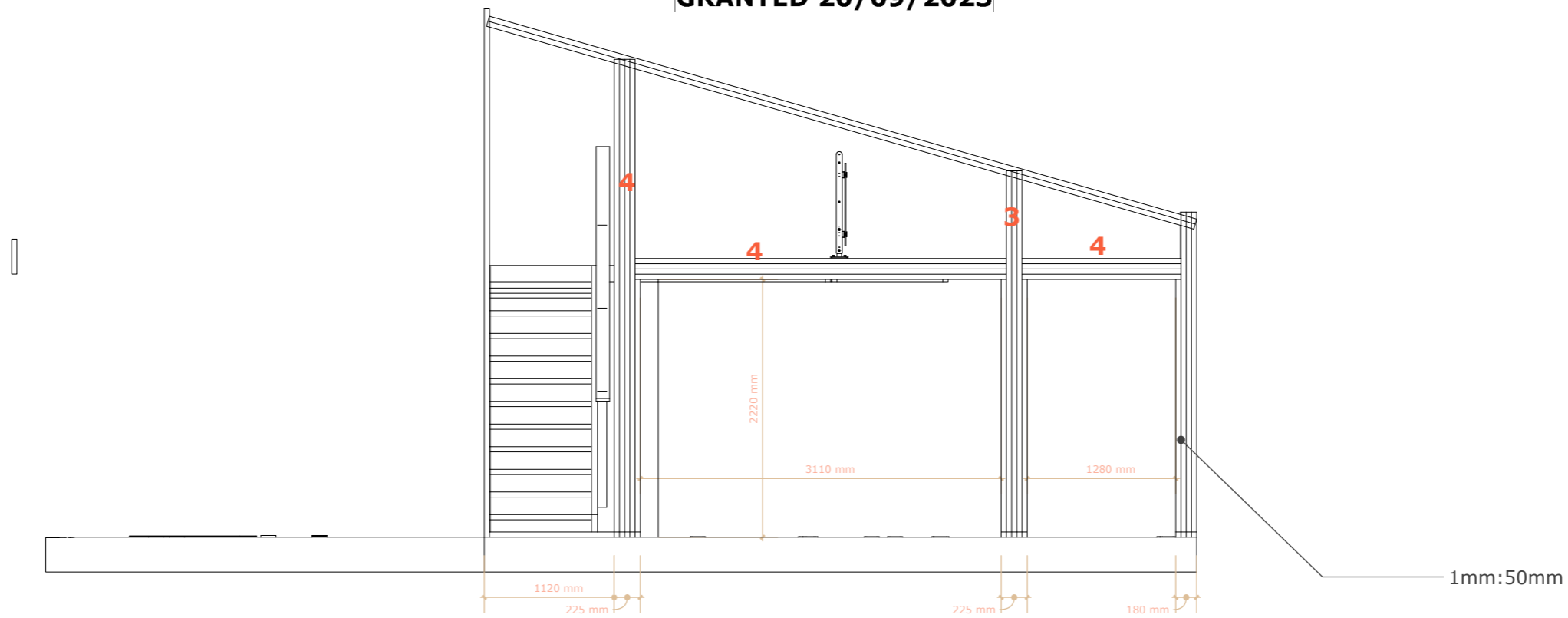
Element type	Description	Embed ID	Area (m ²)	Construction R-value (m ² .K/W)	Heat Loss (W/K)	Errors
1 Slab-on-ground_Floors	rib raft	No	167.0	1.6	104.4	
2 Other_Floors		No				
3 Roof	Glasswool	No	172.0	7.4	23.2	
4 Walls	Glasswool	No	160.0	4.1	39.0	
5 Glazing (in walls & doors)		No	32.0	0.77	41.6	
6 Doors (opaque)		No	0.0	0.77	0.0	

Risk Matrix					
Wall Type: Standard					
Risk Factor	Low	Med.	High	Very High	Score
Wind (NZS3604)	0	0	1	2	2
Storeys	0	1	2	4	0
R/W Intersection	0	1	3	5	5
Eaves Width	0	1	2	5	2
Complexity	0	1	3	6	1
Deck Design	0	2	4	6	0
Total Risk Score: medium					10

Risk Matrix created by Design Navigator








**Balustrade for Gallery storage place in Specifications
" Clerspan or Clearview top fixed to timber "**

Project No.: ???? Safety in Design - Risk Matrix

This Template can be used to identify unusual hazards not controlled by normal practises. Update the risks to reflect those in the project using the register



Likelihood level	Likelihood description	CONSEQUENCE					Risk Score	Risk level	ACTION
		1 Insignificant (No treatment required)	2 Minor (First Aid treatment only, contained at site)	3 Moderate (Medical treatment, short or long term disability)	4 Major (Extensive injuries, Permanent disability)	5 Catastrophic (Fatal eg. loss of life)			
4	Very likely Expected in most circumstances	3	8	12	16	20	15 to 20	Critical	ACT NOW - do something about the risks immediately. Requires immediate action. Redesign to eliminate or reduce risk.
3	Likely Event likely to occur at most circumstances	3	6	9	12	15	10 to 14	High	Highest management action is required, responsibilities specified. Redesign as far as reasonably practicable and alert others of any residual risk.
2	Possible Event may occur at some times	2	4	6	8	10	5 to 9	Moderate	Manage by specific monitoring or response procedures, with management responsibility specified. Redesign if reasonably practicable.
1	Unlikely Occurrence is conceivable, but not expected to occur	1	2	3	4	5	0 to 4	Low	Manage by routine procedures, unlikely to need specific application of resources.

Using the risk matrix -example

1	Determine the hazard	Heavy vehicles on site. Potential risk of vehicles hitting personnels working on site
2	Evaluate the risk level with no controls	Consequence: catastrophic, likelihood: likely, Risk score: 15 (Critical)
3	Implement design control	Provide separate designated access to heavy vehicles
4	Review Risk level	Consequence: catastrophic, likelihood: Unlikely, Risk score: 5(Moderate)

RISK MANAGEMENT

Step 1	Identify the Hazards
Step 2	Assess the level of risk for each hazard
Step 3	Control by Using the hierarchy of controls

Hierarchy of controls

Most effective	1 Eliminate Eliminate the hazard, remove it completely from the workplace. If this is not reasonably practical, then...
	2 Minimise Substitute the hazard (wholly or partly with safer alternative)
	3 Isolate the hazards Using physical barriers, time or distance. Use engineering controls adapt tools or equipments to reduce the risk.
	4 Use administrative controls Develop methods of work, processes and procedures
Least effective	5 Use personal Protective equipment (PPE) This is the last option after you have considered all the other options for your workplace

Project: _____

Address: _____

Project No	Design discipline	Engineering	Office Location	33 Forests Road, Stoke
Prepared by	Sanjeev Raturi	Designer		
Checked by	Michael Youngusband	Director		
Approved by	Michael Youngusband	Director		

- Proposed dwelling on an existing foundation slab.
- Specific bracing design of the house (two sections, one with a storage area) and associated connections in complicated areas (the intersection area of the rooves specifically)
 - Specific lintel above the sliding door and supporting posts.
 - Communication to ensure we are all agree with the proposed structure before we commence the detailing stage of our documents.
 - PS1 (Producer Statement 1);
 - Schedule of Inspections letter
 - PS4 upon completion of final inspection and payment

Note, as the foundations are already constructed this is out of our scope, however we need to ensure the specific proposed structure does not impose loads too large for this foundation.

Project No.: ???? Definitions

Ref No.	Reference number for each item	Residual Risk Score	Remaining risk score after application of design control measures
Activity	An identified activity associated with construction work	Residual Risk Level	Remaining Risk level after application of design control measures
Hazard	An object, substance or a set of circumstances with the potential to cause harm	Design Control Measure	Control measure employed by the designers to control the risk
L	Likelihood of risk	Document/drawing reference	Reference to additional documentation detailing the control measure
C	Consequence of risk	Further suggested control Measure	Details of additional control measures which may be employed to further reduce the residual risk, but which are out of the control of the designer and are therefore suggestions only
Risk score	Risk score = likelihood (L) x consequence (C)		
Risk Level	Risk classification based on risk score (Refer risk matrix)		

Note: This Hazard Table is not a standalone document and all PCBUs (Person conducting a Business or Undertaking) should carry-out their own assessment.

HAZARDS

Ref.	Activity	Hazard	Risk score			Risk Level			Design Control Measure	Document Reference	Residual Risk Score			Residual Risk Level			Further suggested control measures
			L	C	LxC	Low	High	Critical			L	C	LxC	Low	High	Critical	
Design																	
1.1	Access and egress for vehicles	Vehicle traffic potential reversing within site area and out onto loop road	1	3	3	Low			Design out requirement to reverse with potential reversing of vehicles only in parking spaces - designed with compliant aisle widths as per AS/NZS 2890:2004		1	3	3	Low			
1.2	Pedestrian public access to site and main entrance	Risk to pedestrians from interaction with vehicle traffic	1	4	4	Low			Designating pedestrian footpaths and separate footpath		1	4	4	Low			
1.3	Non slip materials on floor surfaces in areas exposed to weather or dedicated wet areas	Risk to pedestrians from interaction with vehicle traffic	1	2	2	Low			Design and specify non slip surfaces where required		1	1	1	Low			
1.4	Provide adequate lighting for intended tasks in the structure	Risk from tripping or falling	1	3	3	Low			Appropriate lighting lux levels designed for all spaces -Electrical Engineer		1	3	3	Low			
1.5	Designing adequate access widths	Provide adequate width to access routes for movement of people, egress and movement of equipment	1	3	3	Low			Design sufficient corridor widths for movement of occupants and equipment, egress routes as per Fire Engineer's report. External ramps and steps as per accessibility report.		1	3	3	Low			
1.6	Specification of safer materials and finishes	Risk to workers and public health & wellbeing through exposure	1	3	3	Low			Consider the specification of safer materials and finishes, e.g. low VOC paints, polyester insulation		1	1	1	Low			
1.7	Roof access safety system -cleaning & maintenance	Risk from falling	1	4	4	Low			Mitigate roof access with external plant at ground level. Consider access to clean/maintain skylights, roof cowl/louvers and gutters		1	1	1	Low			
1.8	Service valves location and accessibility	Safe access	1	3	3	Low			Accessible/hatches for servicing equipment		1	2	2	Low			
1.9	Overhead glazing	Injury risk below from breakage	1	3	3	Low			Treatment of glass - toughened/safety glass		1	1	1	Low			
Construction																	
2.1	Site hazards: protecting the public	Unauthorised public access onto site during construction and falling hazards Risk to public health, exposure to risks on site to machinery and plant	1	5	5	Moderate			Requires site areas to be defined, identified and isolated. Ensure Contractor has worksite fenced off from the public, boundary secure after hours, prevention of unauthorised access such as ladders, roadworks to have barriers, safety protection measures from falling material, clear signage warning of dangers, all plant immobilised to prevent unauthorised use.		1	4	4	Low			
2.2	Access on site	Identify site hazards such as trip hazards, safety from falling, falling material	1	5	5	Moderate			Ensure access routes in good condition and clearly signposted, site is tidy and materials stored safely, suitable edge protection where people could fall, holes protected with clearly marked and fixed covers to prevent falls, safety protection measures from falling material Site safe passports required for all personnel entering the site. Retaining wall construction to ensure safe batters achieved or temporary retaining to be provided. Provide adequate space behind walls to allow for tanking		1	5	5	Moderate		Contractor site management plan required	
2.3	Existing services	Hazards from existing services such as electrical cables, gas mains, overhead power lines may cause injury and obstruction	1	5	5	Moderate			Locate and identify accurately routes and depths of existing services present on site and reroute or isolate to prevent harm from them		1	5	5	Moderate		Contractor site management plan required	
2.4	Adjoining areas: Clearance required for construction equipment and techniques	Risk of contact and damage with adjacent structures, services, trees. Risk of damage from vibration.	1	4	4	Low			Site areas to be defined and identified. Height limitations established. Accessibility and loads of plant required for construction.		1	4	4	Low		Contractor site management plan required	

Refer Sheet S01 for Inspection Schedule

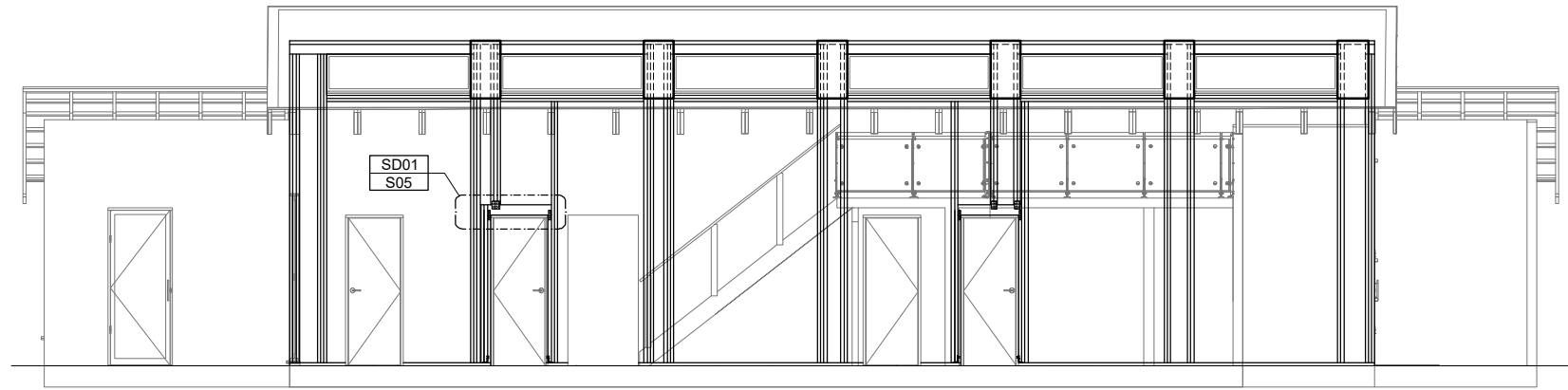
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LEGAL DESCRIPTION: Lot 53 DP 545726		CREATED: 10-07-2023		
PROJECT No: 1574		DRAWN BY: CvL		
		DESIGNED BY: DM		
		APPROVED BY: MY		

Health and Safety

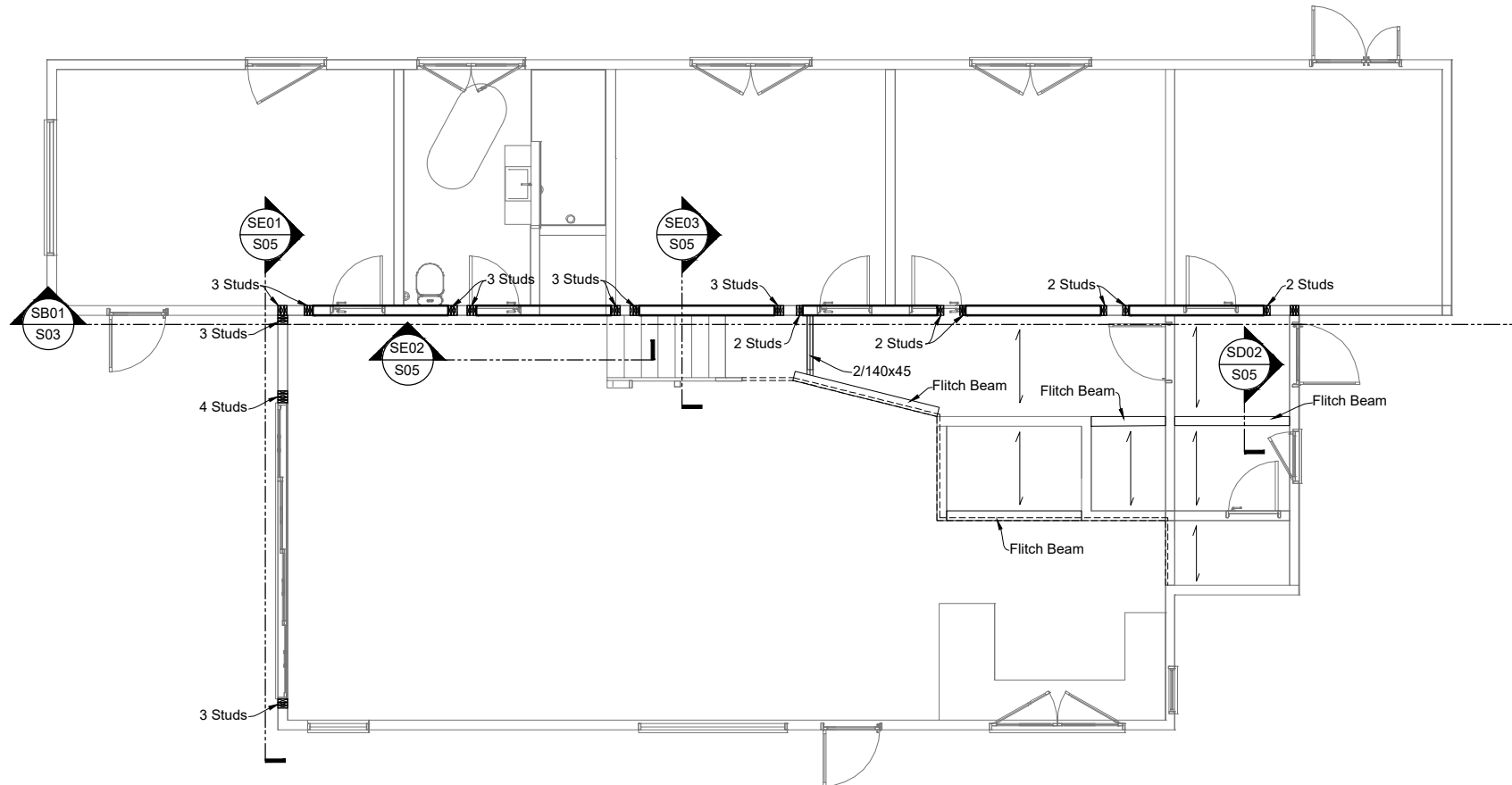
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STRUCTURAL ENGINEER:			
 MY CONSULTING ENGINEERS LIMITED 33 FORESTS ROAD STOKE NELSON 7011 TEL: 03 970 2502 www.myconsulting.nz			
APPOINTED ARCHITECT:			
 DesignWorx LBP.110002			

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PRELIMINARY



SB01
S03 Scale 1:50



Ground Floor Plan

FOUNDATION NOTES:

- DO NOT SCALE OFF THESE DRAWINGS
- ALL CONCRETE WORK SHALL COMPLY WITH THE REQUIREMENTS OF NZS3109:1997
- CONCRETE SHALL BE:
 - SLABS AND FOOTINGS N25 (25MPa)
 - TOTY SLAB N10 (10MPa)
- MAXIMUM SLUMP TO BE 100mm UNLESS NOTED OTHERWISE
- CONCRETE FINISHES SHALL BE:
 - SLABS U3
 - EXPOSED FOOTINGS F4
- CONCRETE COVER:
 - 25mm MIN. INTERIOR
 - 40mm MIN. EXTERIOR
 - 75mm MIN. IN CONTACT WITH GROUND
- ALL REINFORCEMENT SHALL COMPLY WITH AS/NZS4671:2001 (HD BARS SHALL NOT BE RE-BENT)
- ENGINEER TO INSPECT PRIOR TO POURING CONCRETE. ENGINEER REQUIRED 24 HOURS NOTICE BEFORE ANY VISIT.
- WEATHERTIGHT CONCRETE SHALL:
 - HAVE A MINIMUM SPECIFIED 28 DAY CONCRETE STRENGTH OF 30 MPa
 - HAVE A WATER/CEMENT RATIO (w/c) RATIO (by weight) NO GREATER THAN 0.50
- REFER ARCH FOR UNDERFLOOR HEATING AND SERVICE LOCATIONS
- SAWCUT WITHIN 24 HOURS OF CONCRETE PLACEMENT
- REFER ARCHITECT FOR POLISHED CONCRETE FINISH SPECIFICATIONS

STRUCTURAL NOTES:

- DIMENSIONS TO BE CONFIRMED ON SITE PRIOR TO FABRICATION. DO NOT SCALE OFF THESE DRAWINGS OTHERWISE
- ALL WELDS TO BE 6MM FILLET UNLESS NOTED OTHERWISE
- ALL M12 BOLTS TO BE GRADE 4.6. ALL M16 BOLTS TO BE GRADE 8.8 UNLESS NOTED OTHERWISE.
- ALL STEEL PLATES TO BE 10MM THICK UNLESS NOTED OTHERWISE.
- STEEL GRADES:
 - PLATES 300MPa OR OTHERWISE NOTED
 - HOT ROLLED STEEL SECTIONS 300MPa
 - HOLLOW SECTIONS 350MPa OR 450MPa UNLESS NOTED OTHERWISE
- ALL WELD ELECTRODES TO BE 48XX OR W50X
- ALL INTERNAL STRUCTURAL STEEL TO BE PAINTED WITH SYSTEM DESIGNATION AS/NZS2312:AKL6 BEFORE DELIVERY TO SITE. ANY AREAS DAMAGED TO BE MADE GOOD UPON INSTALLATION.
- ALL EXTERNAL STEEL TO BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH SYSTEM DESIGNATION AS/NZS2312:HDG800. ANY AREAS DAMAGED TO BE MADE GOOD UPON INSTALLATION.
- ALL BOLTED TIMBER CONNECTIONS TO HAVE 50X50X3MM WASHER ADJACENT TO TIMBER
- ALL TIMBER TO BE MSG8 UNLESS SPECIFIED OTHERWISE
- TIMBER CONNECTIONS NOT SPECIFIED TO BE IN ACCORDANCE WITH NZS3604. TIMBER SIZES NOT SPECIFIED REFER TO ARCHITECT
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THE STRUCTURE IS ADEQUATELY SUPPORTED DURING CONSTRUCTION
- ENGINEER TO INSPECT ALL STEEL CONNECTIONS PRIOR TO CLOSING IN. ENGINEER REQUIRED 24 HOURS NOTICE BEFORE ANY VISIT
- RESPONSIBILITY OF CONTRACTOR TO IDENTIFY ANY UNDERGROUND SERVICES PRIOR TO EXCAVATION.
- REFER ARCHITECT FOR ALL WATERPROOFING

ABBREVIATION LIST:

FFL	Finished Floor Level
TOS	Top of Slab
TOF	Top of Footing
BOF	Bottom of Footing
SC	Saw Cut
CJ	Control Joint

Refer Sheet S01 for Inspection Schedule

REV	DESCRIPTION	BY	APP	DATE
P1	Preliminary	CvL	MY	12-07-2023
LEGAL DESCRIPTION: Lot 53 DP 545726		CREATED: 10-07-2023		
PROJECT No: 1574		DRAWN BY: CvL		
		DESIGNED BY: DM		
		APPROVED BY: MY		

PROJECT NAME AND ADDRESS:

n

DRAWING TITLE:

Ground Floor Plan

SCALE:	original A1 1:100 at A3	DRAWING No:	REV No:
	1:50	S03	P1

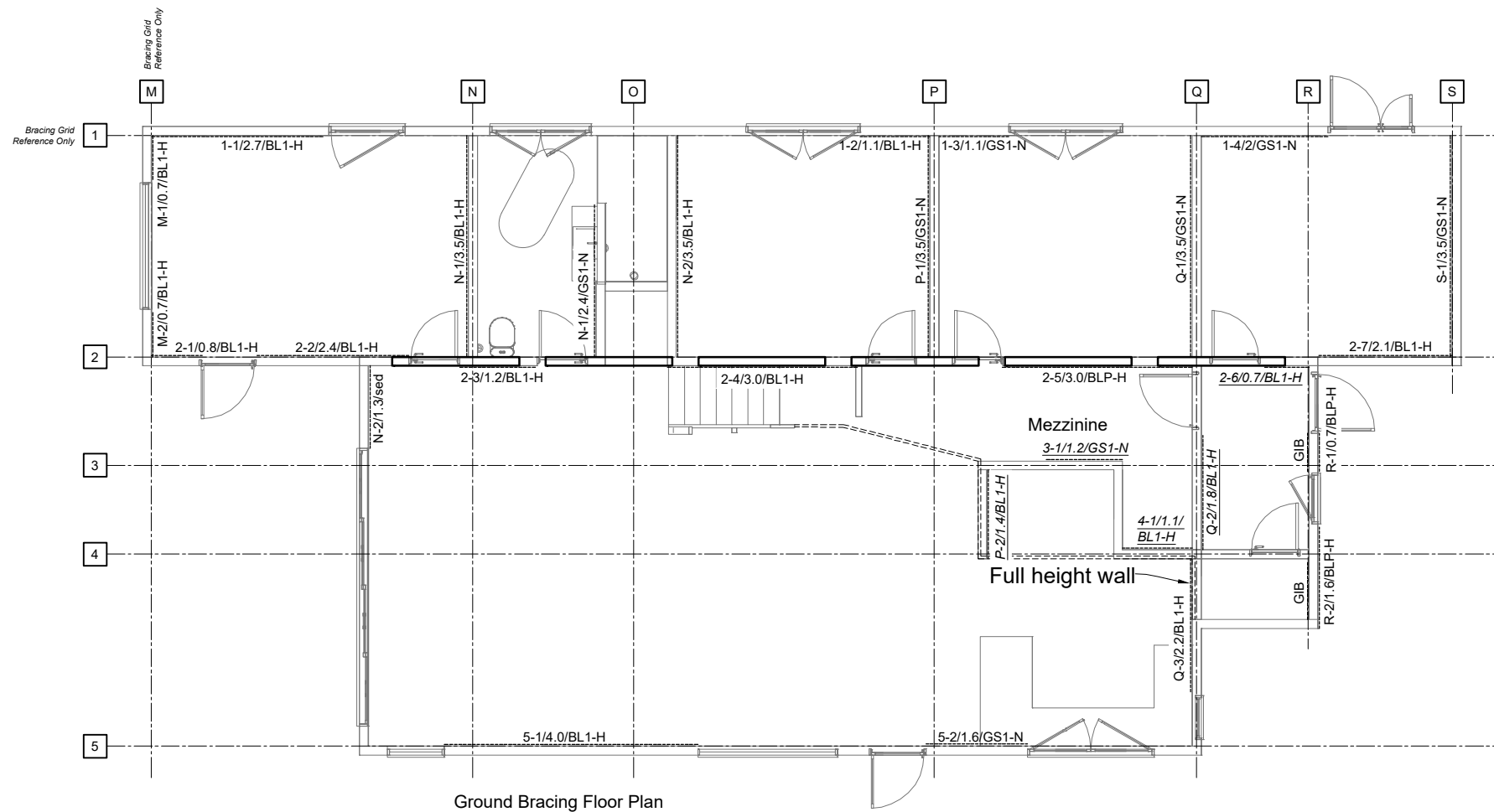
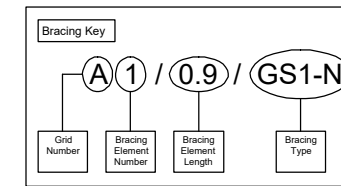
STRUCTURAL ENGINEER:
 MY CONSULTING ENGINEERS LIMITED
 33 FORESTS ROAD
 STOKE
 NELSON 7011
 TEL: 03 970 2502
 www.myconsulting.nz

APPOINTED ARCHITECT:
 DesignWorx
 LBP.1100002
 THE COPYRIGHT OF THIS DRAWING REMAINS WITH MY Consulting Engineers Ltd

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PRELIMINARY

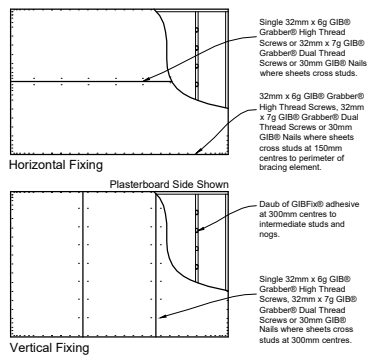
All levels/dimensions are to be confirmed on site before commencing any work. This applies to all trades. DO NOT SCALE off these drawings.



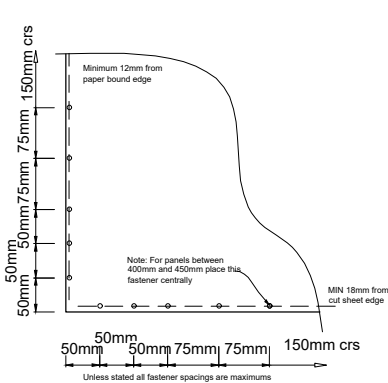
Ground Bracing Floor Plan

Refer Sheet S01 for Inspection Schedule

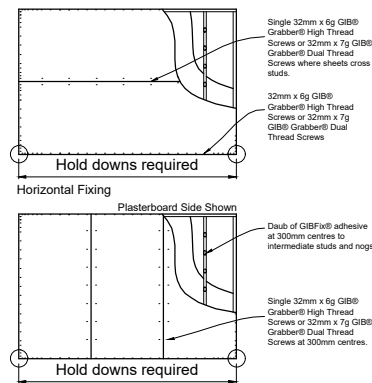
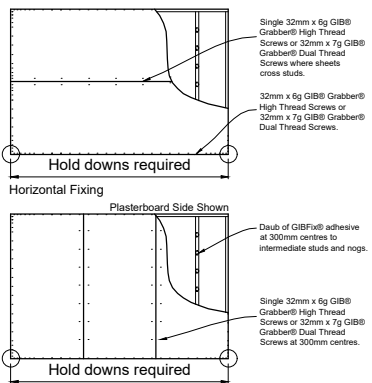
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P1	Preliminary	CvL	MY	12-07-2023
LEGAL DESCRIPTION: Lot 53 DP 545726		CREATED: 10-07-2023		
PROJECT No: 1574		DRAWN BY: CvL		
PROJECT NAME AND ADDRESS:		DESIGNED BY: DM		
		APPROVED BY: MY		



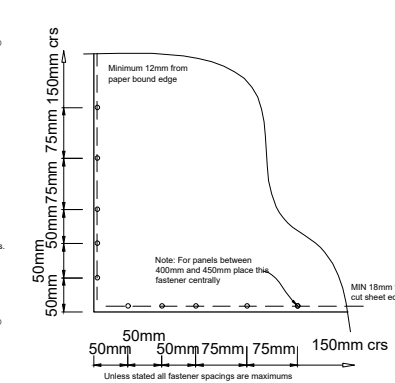
GS1-N
Any 10mm or 13mm GIB® Standard plasterboard to one side only



BL1-H
10mm or 13mm GIB Braceline® to one side only, with Hold downs



BLP-H
10mm or 13mm GIB Braceline® to one side of the frame plus minimum 7mm structural plywood manufactured to AS/NZ 2269.0:2012 to the other side, with Hold downs



NOT FOR CONSENT INFORMATION ONLY

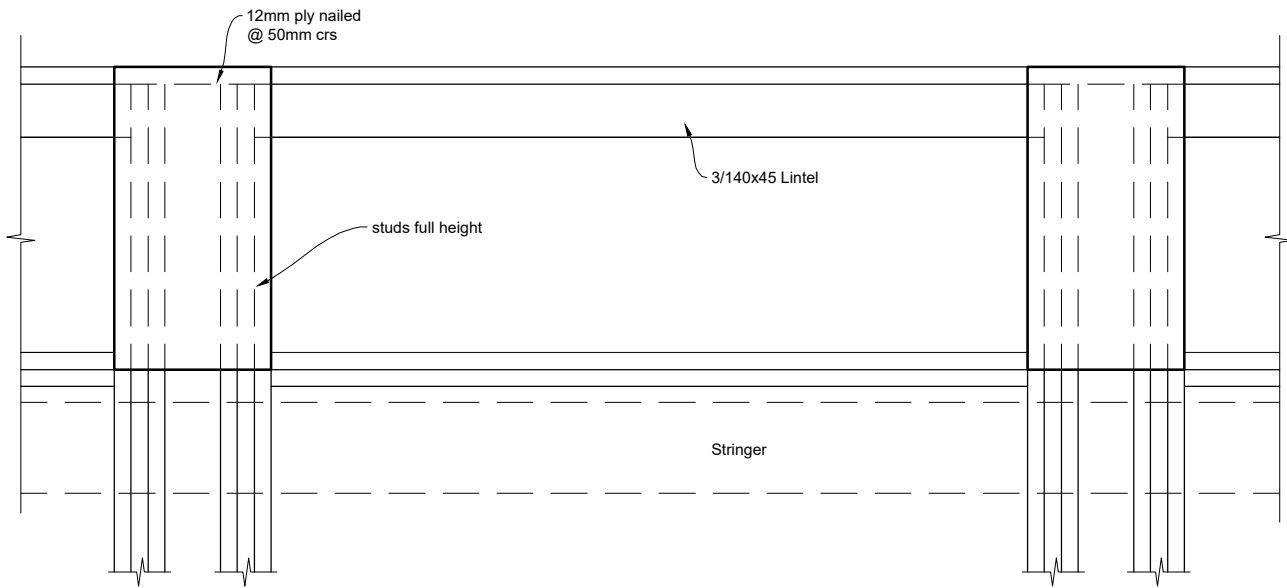
PRELIMINARY

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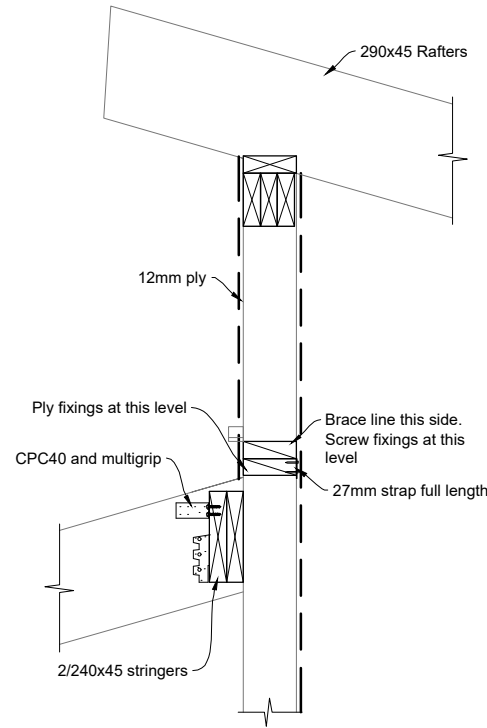
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STRUCTURAL ENGINEER:
MY CONSULTING ENGINEERS LIMITED
33 FORESTS ROAD
STOKE
NELSON 7011
TEL: 03 970 2502
www.myconsulting.nz

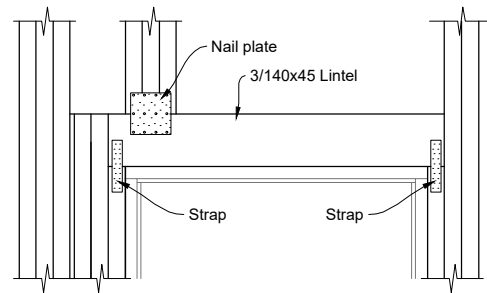
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LBP.110002



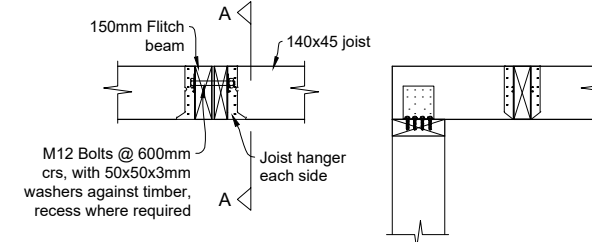
SE02
S03 Scale 1:10



SE03
S03 Scale 1:10



SD01
S04 Scale 1:10



SD02
S03 Scale 1:10

Section AA

FOUNDATION NOTES:

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 - EXPOSED FOOTINGS F4
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 - 75mm MIN. IN CONTACT WITH GROUND
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 - B. HAVE A WATER/CEMENTITIOUS (w/c) RATIO (BY WEIGHT) NO GREATER THAN 0.50
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 - HOLLOW SECTIONS 350MPa OR 450MPa UNLESS NOTED OTHERWISE
- ALL WELD ELECTRODES TO BE 48XX OR W50X
- ALL INTERNAL STRUCTURAL STEEL TO BE PAINTED WITH SYSTEM DESIGNATION AS/NZS12463 BEFORE DELIVERY TO SITE. ANY AREAS DAMAGED TO BE MADE GOOD UPON INSTALLATION.
- ALL EXTERNAL STEEL TO BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH SYSTEM DESIGNATION AS/NZS12463. ANY AREAS DAMAGED TO BE MADE GOOD UPON INSTALLATION.
- ALL BOLTED TIMBER CONNECTIONS TO HAVE 50X50X3MM WASHER ADJACENT TO TIMBER
- ALL TIMBER TO BE MSG8 UNLESS SPECIFIED OTHERWISE
- TIMBER CONNECTIONS NOT SPECIFIED TO BE IN ACCORDANCE WITH NZS3906. TIMBER SIZES NOT SPECIFIED REFER TO ARCHITECT
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ABBREVIATION LIST:

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TOS	Top of Slab
TOF	Top of Footing
BOF	Bottom of Footing
SC	Saw Cut
CJ	Control Joint

Refer Sheet S01 for Inspection Schedule

P1	Preliminary	CvL	MY	12-07-2023
REV	DESCRIPTION	BY	APP	DATE
LEGAL DESCRIPTION:	Lot 53 DP 545726	CREATED:	10-07-2023	
PROJECT No:	1574	DRAWN BY:	CvL	
		DESIGNED BY:	DM	
		APPROVED BY:	MY	

PROJECT NAME AND ADDRESS:

DRAWING TITLE:

Super Structure Details

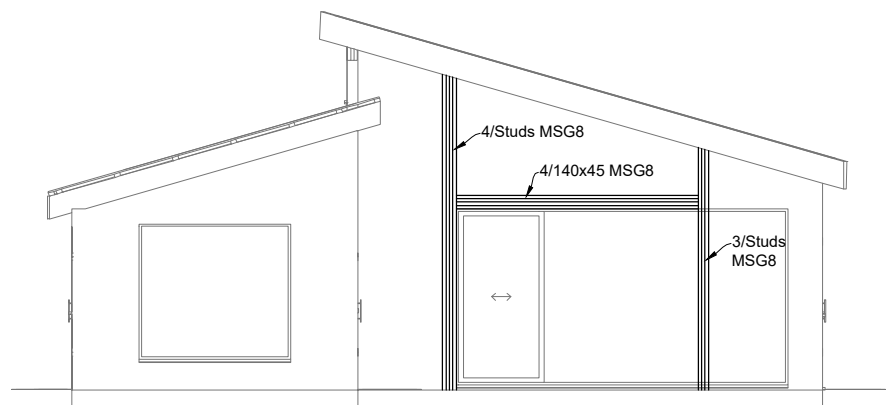
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STRUCTURAL ENGINEER:

MY CONSULTING ENGINEERS LIMITED
 33 FORESTS ROAD
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 TEL: 03 970 2502
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APPOINTED ARCHITECT:

DesignWorx
 LBP.1106962



SB01
S05 Scale 1:50

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INFORMATION ONLY

PRELIMINARY

All levels/dimensions are to be confirmed on site before commencing any work. DO NOT SCALE off these drawings.



H1/AS1 5th Edition Calculation Method Spreadsheet

Version: 4 May 2023

Client
Project name
Address
Designer Dirk Heffter
Date 30-08-23
Territorial Authority Nelson City **Climate Zone** 3
When submitted Before 2 November 2023 **Application** Housing

Proposed Building		
Element	Area (m ²)	Proposed Building Heat Loss (W/K)
Slab-on-ground_Floors	167.0	104.4
Other_Floors	0.0	0.0
Roof	172.0	23.2
Skylights	0.0	0.0
Walls	160.0	39.0
Glazing (in walls & doors)	(16.7% of total wall area) 32.0	41.6
Doors (opaque)	0.0	0.0
	531.0	Total 208.2

Reference Building		
Element	Area (m ²)	Reference Building Heat Loss (W/K)
Slab-on-ground Floors	167.0	111.3
Other_Floors	0.0	0.0
Total Roof (includes skylight area)	172.0	26.1
Walls (70% of total wall area)	134.4	67.2
Glazing allowance (30% of total wall area)	57.6	125.2
	531.0	Total 329.8

Comparison of proposed building against the reference building PASS

		HIG 6th Ed				
Element type	Description	Embed ID	Area (m ²)	Construction R-value (m ² .K/W)	Heat Loss (W/K)	Errors
1 Slab-on-ground_Floors	rib raft	No	167.0	1.6	104.4	
2 Other_Floors		No				
3 Roof	Glasswool	No	172.0	7.4	23.2	
4 Walls	Glasswool	No	160.0	4.1	39.0	
5 Glazing (in walls & doors)		No	32.0	0.77	41.6	
6 Doors (opaque)		No	0.0	0.77	0.0	

Risk Matrix for 15 skylark					
Wall Type: Standard					
Risk Factor	Low	Med.	High	Very High	Score
Wind (NZS3604)	0	0	1	2	2
Storeys	0	1	2	4	1
R/W Intersection	0	1	3	5	0
Eaves Width	0	1	2	5	2
Complexity	0	1	3	6	1
Deck Design	0	2	4	6	0
Total Risk Score: low					6

Risk Matrix created by Design Navigator

