

Approved building consent documents

Please note: A copy of the stamped approved documents must be available on site for all inspections.

Inspection bookings

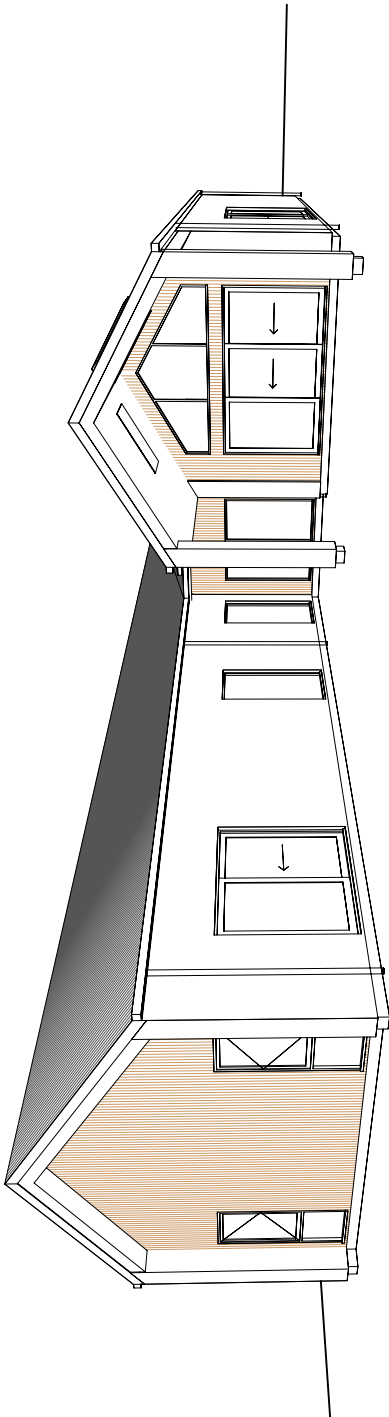
For building inspections and enquiries phone ContactUs on: 03 347 2800.

For current inspection timeframes see [Selwyn District Council - Building](#).

Note: where restricted building work is involved, you must provide the relevant LBP numbers for the work to be inspected at the time of booking the inspections.

Please ensure all work for inspection is ready the day before.

Incomplete work requiring re-inspection will incur an additional inspection fee.



PROPOSED RESIDENCE

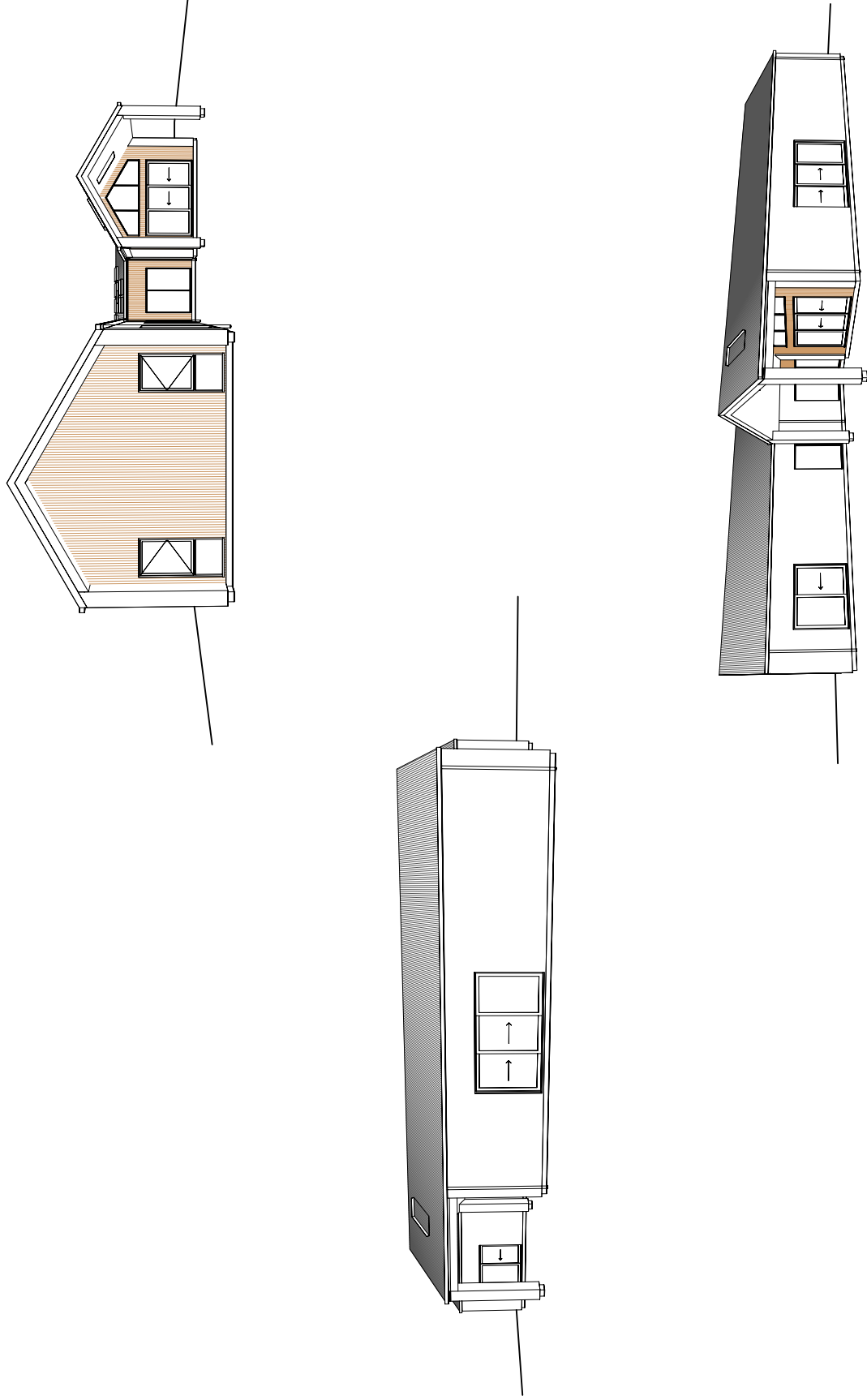
**Kelvin
Boyd**
Architectural Services Limited
196 Halkett Road, West Melton
Christchurch
PH: 0211790346
kaboyd@hotmail.com

PROPOSED HOUSE AT 4 CORRAVALLY RISE, WEST MELTON LOT: 748 DP:609617
798M², FOR BARRY & CO LIMITED, RC:26205

CONSENT PLANS				SHEET
DRAWN: KELVIN BOYD	DATE: SEP 2025	Scale in A3 size	1a	
REVISION NO.	REV: 21 APRIL 2026	AS SHOWN	SERIES OF	REF



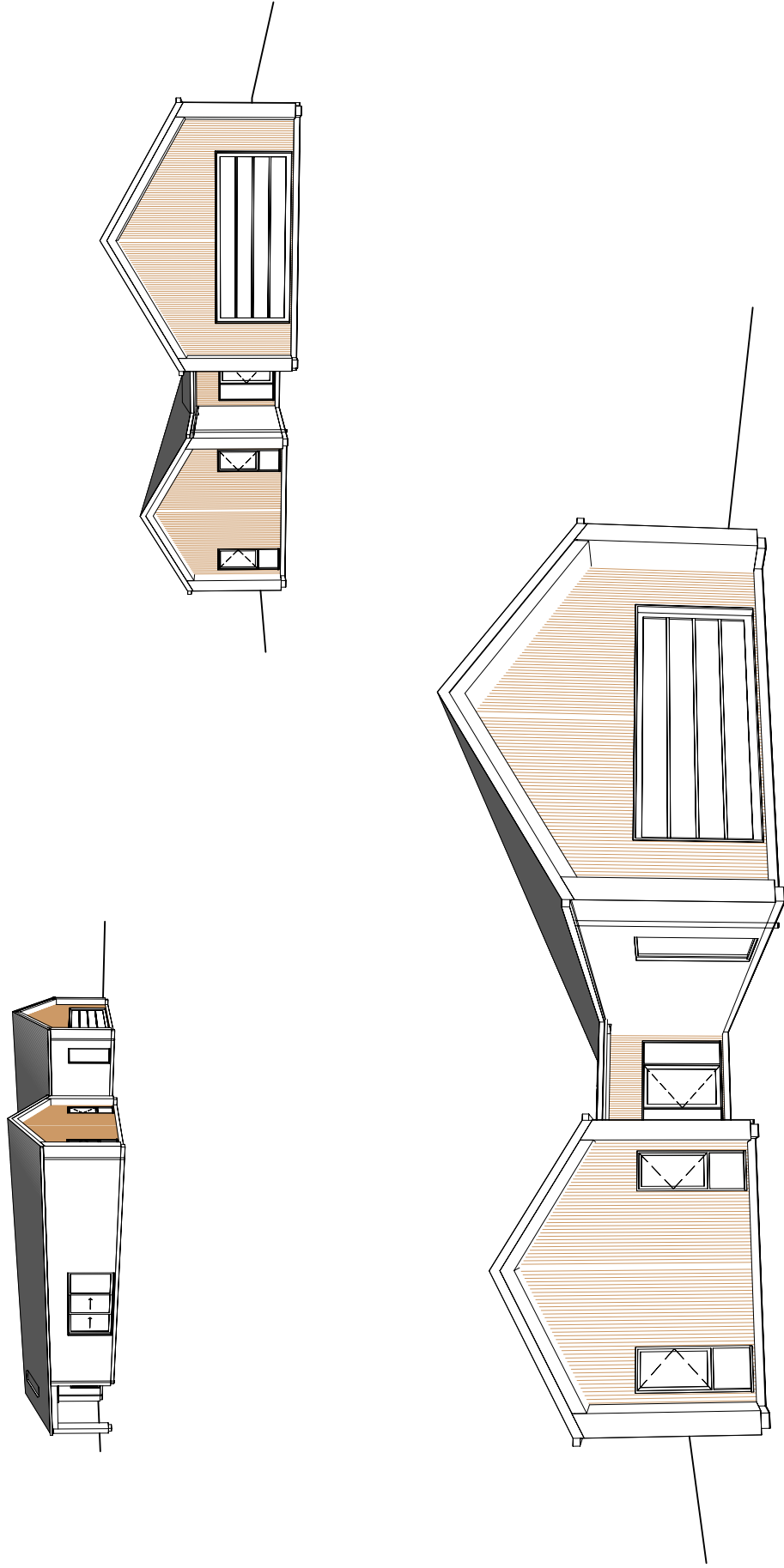
Notes:
1. BOUNDARIES SHOWN ARE
INDICATIVE ONLY AND
SUBJECT TO TITLE SURVEY



CONSENT PLANS				SHEET
DRAWN	DATE	SEP 2025	Scale in A3 size	1c
KELVIN BOYD	REV	21 APRIL 2026	AS SHOWN	
REVISION NO.				OF
				REF

PROPOSED HOUSE AT 4 CORRAVALLY RISE, WEST MELTON LOT: 748 DP:609617 798M ² , FOR BARRY & CO LIMITED, RC:26205	
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136 Halkett Road, West Melton Christchurch PH: 0211790346	
Kelvin Boyd Architectural Services Limited	
kabboyd@hotmail.com	



CONSENT PLANS				SHEET
DRAWN	DATE	SEP 2025	Scale in A3 size	1d
KELVIN BOYD	REV	21 APRIL 2026	AS SHOWN	
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Climate Zone: 5
Earthquake Zone: Zone 2
Exposure Zone: Zone B
Lee Zone: No
Rainfall Range: 40 - 50
Wind Region: A
Wind Zone: High

AREAS:

PROPOSED RESIDENCE: 281.8m²
PROPOSED ROOF AREA (over spouting): 342.6 m²
LAND: 798m²
SITE COVERAGE(including roof): 42.9%

SITE MANAGEMENT

Site is partially fenced.
Balance of site will be protected
with barriers with lockable gate at
entrance.

Install temporary work site fencing or
other site security features as required
to comply with NZBC F5/AS1 for site
security and protection of the public
and in accordance with the main
Contractors health and safety plan

NOTE:

- All framing and trusses to be SG8 grade timber
- Waterproofing system to all tiled shower floors and walls
- Shower floors to have a minimum fall of 1:50 towards the floor waste
- Glazing to shower screens to be safety glass complying with NZBC F2
- Non slip paving to all door access areas to comply with Table 2 of NZBC D1
- All wall linings adjacent to appliances and facilities to have painted or applied impervious coating to comply with NZBC G3
- All lining materials in areas exposed to water splash must be easily cleaned and meet the impervious performance as listed in Section 3.1.
- NZBC E3
- All artificial light sources must comply with NZBC G8. All down lights must be CA 80 compliant.

KEY

New Ø100mm sewer line 1:60 fall	---
New Ø100mm stormwater line 1:120 fall	---
Down Pipe	DP •
Gully trap	GT □
Overflow Relief Gully trap	ORGT □
Ø100mm main vent	MV •
Air admittance valve	AAV
Inspection point	IP

Waste Fittings

Kitchen waste pipe:	DN 50	gradient 1:40
Basin waste pipes:	DN 32	gradient 1:20
Shower waste pipes:	DN 40	gradient 1:40
Bath Waste pipes:	DN 40	gradient 1:40
WC waste pipes:	DN 100	gradient 1:60
Laundry tub waste pipes:	DN 40	gradient 1:30
stormwater pipes:	DN 100	gradient 1:60

Locations of laterals to be confirmed on site by drainlayer

NOTE:

ALL WASTE PIPES WITH A RUN TO GULLY TRAP
OF GREATER THAN 3.5M ARE TO BE FITTED
WITH AN AIR ADMITTANCE VALVE

HWC cylinders safe tray discharge pipes to include a vermin flap in accordance with NZBC G12/AS1

**Resource Consent # 265025
has been granted on 24/02/2026**

23/04/2026 tiffanv.cavanaugh

- All work shall comply with the New Zealand Building Code and all relevant and associated standards, codes and territorial authority by-laws including terms and conditions of the building consent and any resource consents issued for project.
- Architectural drawings are to be read in conjunction with the structural engineers drawings and vice versa.
- All proprietary items and materials shall be fixed, installed or applied in strict accordance with the manufacturers recommendations and specifications.
- All documentation must be read in full and completely understood before any works begin and any discrepancies or ambiguity shall be clarified with design LBP before any work commences
- The builder is responsible for the setting out of the works, the checking of all dimensions and levels on site, and the reporting of any discrepancies prior to commencement of work. Do not scale from these drawings.

NOTE :

**ALL ACCESS ROUTES (EXTERNAL & INTERNAL)
PROVIDED WITH ANTI-SLIP SURFACE TO D1/A51
TABLE 2. (EXCEPT SURFACE AREA INSIDE ENTRY
DOORS CONSIDERED DRY)
MAXIMUM 190MM RISERS TO BUILDING THRESHOLD
AND MINIMUM 280MM TREADS.
DECKS AND PAVING TO HAVE MIN SLIP
COEFFICIENT OF 0.4 WHEN WET**

SITE & DRAINAGE PLAN

SCALE 1:200

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798M², FOR BARRY & CO LIMITED, RG:26205

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REVISION NO.	REV. 21 APRIL 2026		REF	

2

Risk Factor	(Low) Score
Wind Zone	0
Number of Storeys	0
Roof/Wall Intersection Design	0
Eaves Width	0
Envelope Complexity	0
Deck Design	0

Total elevation area to 2.57m ceiling height 22.2m^2 (including glazing)
 Total glazing on street elevation = 7.0m^2
 Total glazing percentage = $7.0\text{m}^2 / 22.2\text{m}^2 = 31.5\%$



EAST ELEVATION
SCALE 1:100



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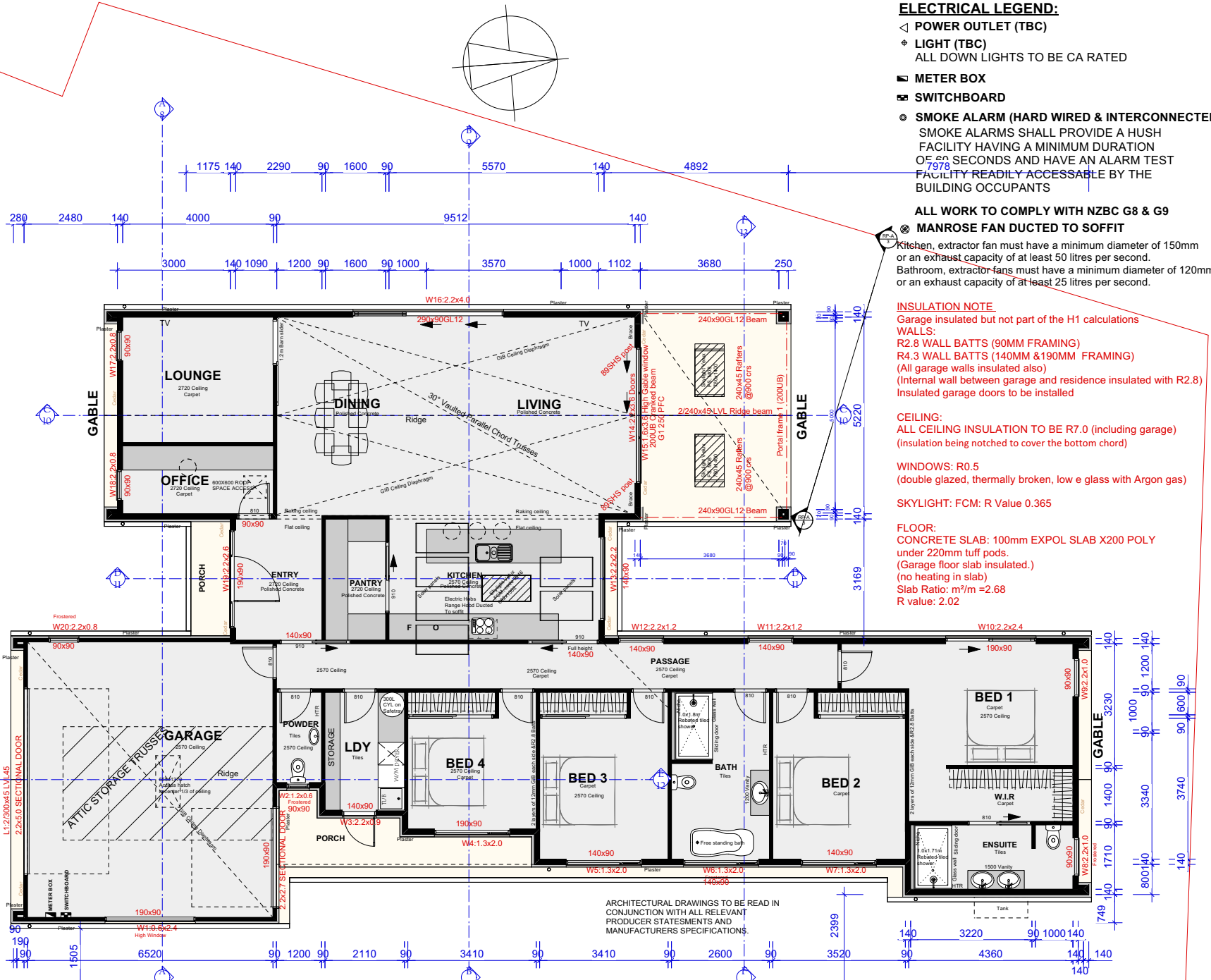
DRAWN		KELVIN MOYO	DATE	SEP 2025	Scale in A3 size	SERIES	OF
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GENERAL NOTES:
30° Vaulted Parallel Chord Trusses over Living room & Dining room
6x PV Solar panels
Stormwater storage tank
Sealed downpipes
Stormwater Soak pit
8° & 30° roof pitch, with gable
Plaster and Cedar cladding
Claddings on building wrap
2.570 & 2.720m stud heights
3x3 lights
Ducted heat pump
Gib Y ceiling diaphragm
Round ceiling battens @ 600mm crs (direct fixed)
(Tie in ceiling battens in Living/ Kitchen area)
All top plates to be double 45mm top plates
Polished concrete floor (not heated) in Living, Dining, Entry, Kitchen, Pantry
Polished concrete floor to be coated with SuperCURE Ultra Densifier & SuperSHIELD Stain Protector
30MPa floor slab concrete (Polished concrete)
Asph the Gib To All Wet Areas
Tiled shower with Glass walls
To shower, floor to have 1:50 fall to drain
Tie waterproofing : Sika, Davco k10
All internal doors to be 2200mm high

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FLOOR PLAN

SCALE 1:100



ELECTRICAL LEGEND:

- ◁ POWER OUTLET (TBC)
- ⬢ LIGHT (TBC)
- ALL DOWN LIGHTS TO BE CA RATED
- ⬢ METER BOX
- ⬢ SWITCHBOARD
- ⬢ SMOKE ALARM (HARD WIRED & INTERCONNECTED)
SMOKE ALARMS SHALL PROVIDE A HUSH FACILITY HAVING A MINIMUM DURATION OF 59 SECONDS AND HAVE AN ALARM TEST FACILITY READILY ACCESSABLE BY THE BUILDING OCCUPANTS

ALL WORK TO COMPLY WITH NZBC G8 & G9

- ⬢ MANROSE FAN DUCTED TO SOFFIT
Kitchen, extractor fan must have a minimum diameter of 150mm or an exhaust capacity of at least 50 litres per second.
Bathroom, extractor fans must have a minimum diameter of 120mm or an exhaust capacity of at least 25 litres per second.

INSULATION NOTE

Garage insulated but not part of the H1 calculations
WALLS:
R2.8 WALL BATTS (90MM FRAMING)
R4.3 WALL BATTS (140MM & 190MM FRAMING)
(All garage walls insulated also)
(Internal wall between garage and residence insulated with R2.8)
Insulated garage doors to be installed

CEILING:
ALL CEILING INSULATION TO BE R7.0 (including garage)
(insulation being notched to cover the bottom chord)

WINDOWS: R0.5
(double glazed, thermally broken, low e glass with Argon gas)

SKYLIGHT: FCM: R Value 0.365

FLOOR:
CONCRETE SLAB: 100mm EXPOL SLAB X200 POLY under 220mm tuff pods.
(Garage floor slab insulated.)
(no heating in slab)
Slab Ratio: m²/m = 2.68
R value: 2.02

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CONSENT PLANS

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CONTRACTOR SHALL CONFIRM ALL DIMENSIONS ON SITE PRIOR TO COMMENCING WORK

DO NOT SCALE DRAWINGS. IF IN DOUBT, REQUEST CLARIFICATION PRIOR TO COMMENCING WORK

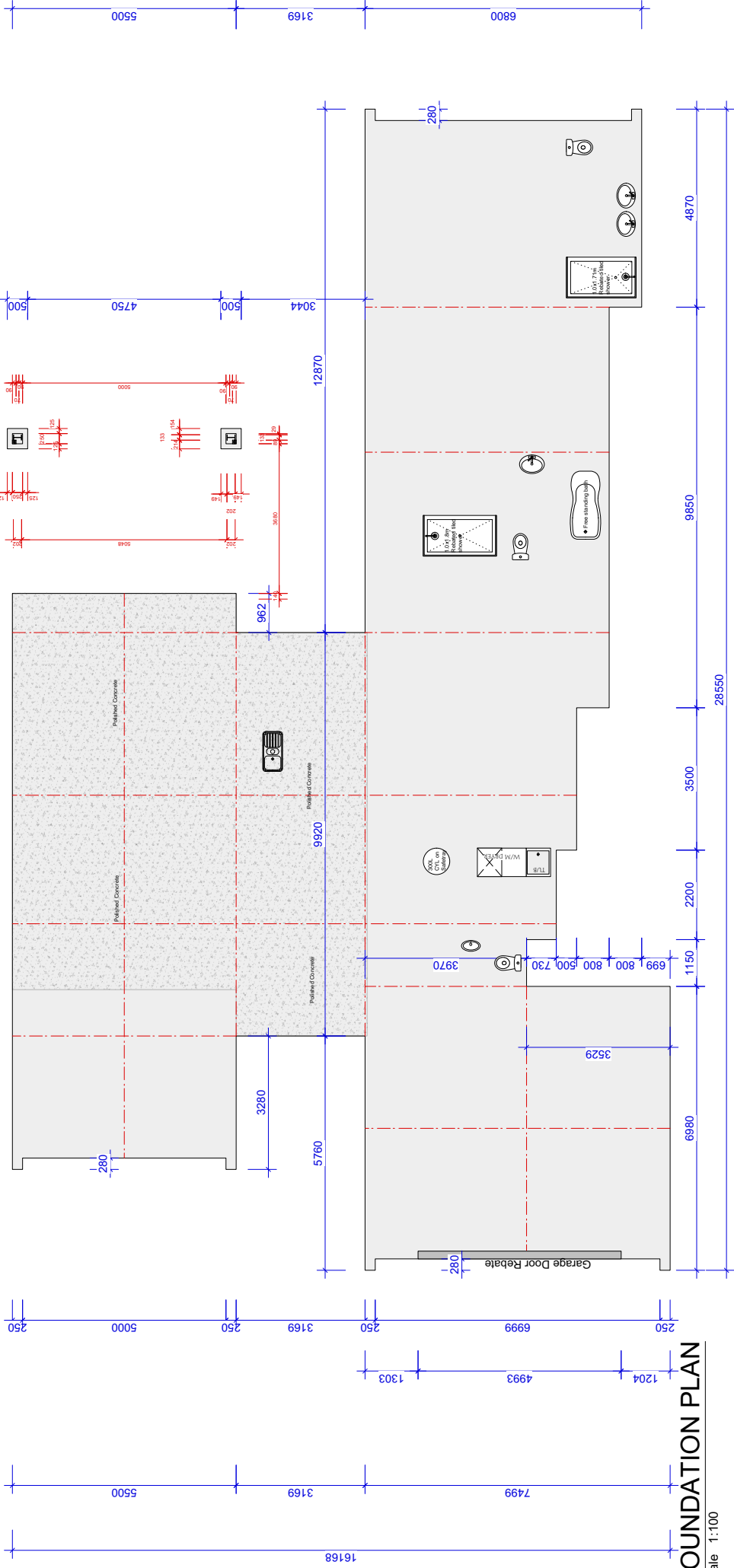


Polished Concrete see floor plan for locations



CONTRACTOR TO ENSURE SLAB EXTENDS UNDER EACH FLOOR TO CEILING WINDOW AND DOOR. REFER DETAILS ON WINDOW AND DOOR DETAIL SHEETS.

All concrete shall be standard 30MPa concrete min.



FOUNDATION PLAN

Scale 1:100

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CONSENT PLANS

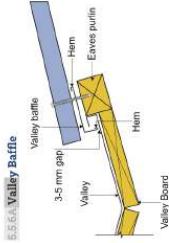
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SHEET 5

5.5.6 Asymmetrical Valleys

Where opposing roofs of different pitches discharge into a valley, an asymmetrical valley is required. As these have reduced cross-section area compared to a symmetrical valley at the same (lower) pitch, it is often necessary to increase the valley dimensions. Increasing the depth has the biggest effect on capacity. Greater depth can be gained by using 10 mm ply valley boards, standing purlins on edge, or filling valley boards flush with the rafter. The consequences that a deeper valley will have on the capacity of the gutter it discharges into must also be considered.

A valley baffle is required in all cases where a valley has a change of angle or when the difference in roof pitch exceeds 10°. Valley baffles are also helpful in wooded locations to minimise logging of debris under the roof eavesthing.



4.4. Minimum 150mm x 150mm x 15mm (15mm x 15mm x 15mm) for all other parts.

Project Name: _____

4.5. Corralvally Rise, West Melton

Site Address: _____

4.6. Corralvally Rise, West Melton

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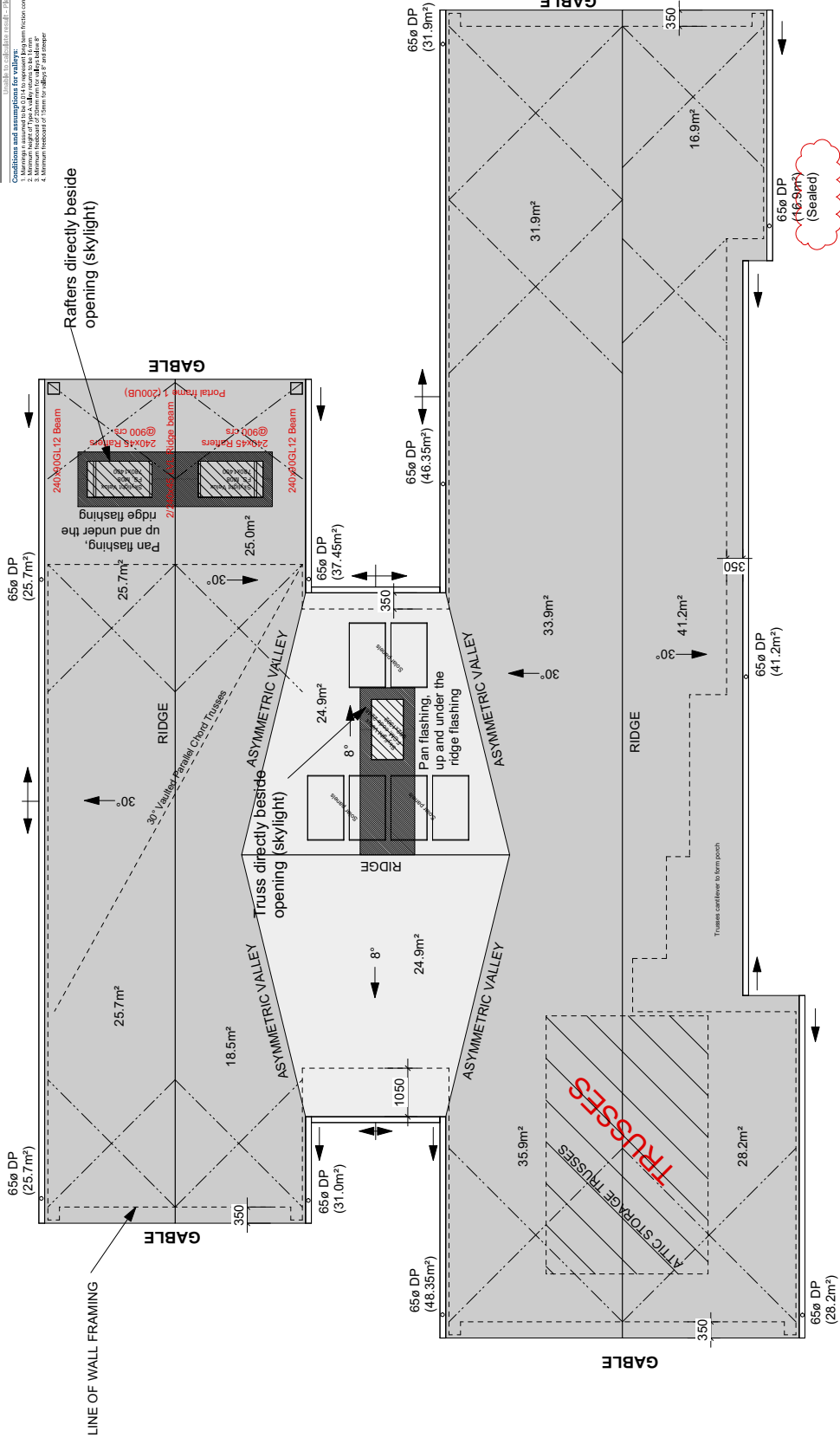
4.99. Corralvally Rise, West Melton

5.00. Corralvally Rise, West Melton

0.4 mm Trapezoidal colorsteel roofing on reinforced underlay on 70 x 45 purlins at 900 crs generally & 600 @ ends on 8° & 30° Nailplate trusses at 900 crs max

Spouting to be at the same height around the building

- Pair Metal Strip Roof Plane Bracing
- All eaves to have eave flashings installed
- Valley baffle's to be installed to all asymmetrical valleys



ROOF PLAN

SCALE 1:100

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CONSENT PLANS				SHEET	6
DRAWN	KELVIN BOYD	DATE	SEP 2025	Scale in A3 size	SERIES
REVISION NO.		REV	21 APRIL 2026	AS SHOWN	OF



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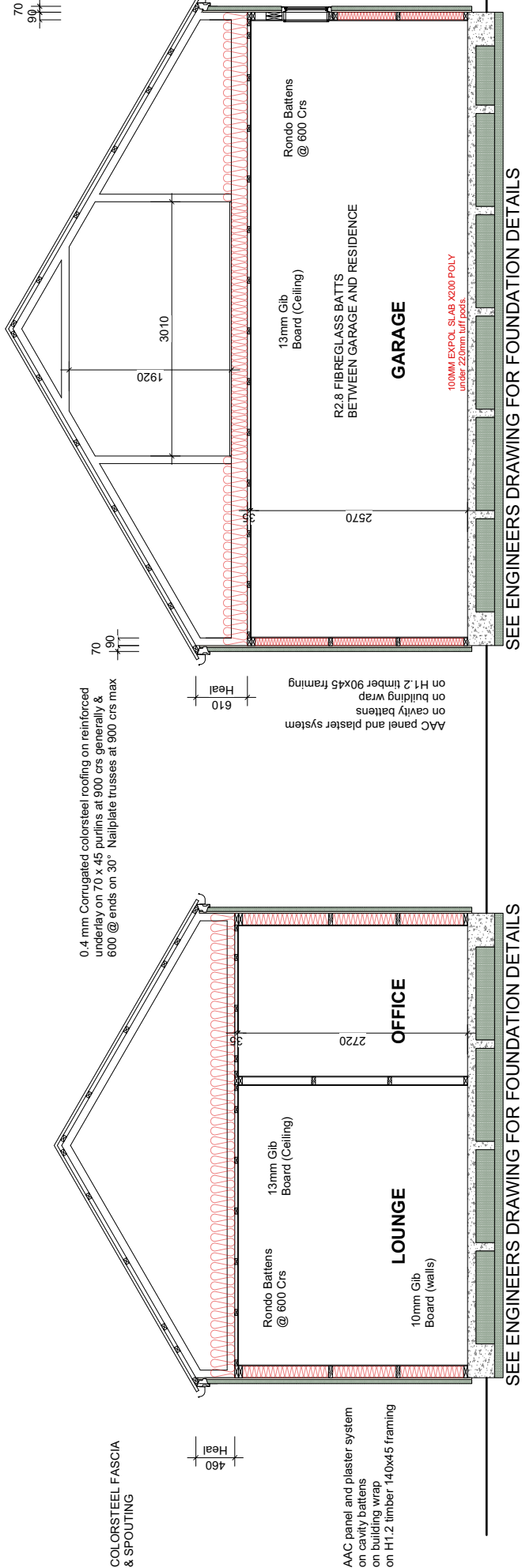
CONSENT PLANS				SHEET	7
DRAWN: KELVIN BOYD	DATE: SEP 2025	Scale in A3 size	SERIES	OF	
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NOTE:

- All framing and trusses to be SG8 grade timber
- Shower floors to have a minimum fall of 1:50 towards the floor waste
- Glazing to shower screens to be safety glass complying with NZBC F2
- Non slip paving to all door access areas to comply with Table 2 of NZBC D1
- All wall linings adjacent to appliances and facilities to have painted or applied impervious coating to comply with NZBC G3
- All lining materials in areas exposed to water splash must be easily cleaned and meet the impervious performance as listed in Section 3.1, NZBC E3
- All artificial light sources must comply with NZBC G6. All down lights must be CA 80 compliant.

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BUILDING ELEMENT	TREATMENT LEVELS
ALL TIMBER SHALL BE SG8 UNLESS OTHERWISE STATED	
ROOF FRAMING, TRUSSES, FLOOR AND CEILING JOISTS INTERIOR WALL FRAMING INCLUDING BOTTOM PLATES EXTERIOR WALL FRAMING PARAPETS SUB FLOOR FRAMING	H1.2 TREATED, PLANER GAUGED RADIATA PINE
CAVITY BATTENS REVEALS FOR ALUMINIUM JOINERY	H3.1 TREATED, PLANER GAUGED RADIATA PINE
CANTILEVERED DECK FRAMING	H3.2 TREATED, PLANER GAUGED RADIATA PINE
PILES AND OTHER STRUCTURAL IN GROUND MATERIAL	H5 TREATED, RADIATA PINE



CROSS-SECTION

SCALE 1:50

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STUD NOTE:

- STUD SPACING
LOAD BEARING EXTERNAL WALLS.
90X45 STUDS @ 400 CRS 2.400 - 2700MM
140X45 STUDS @ 600 CRS 0.000 - 3000MM
190X45 STUDS @ 400 CRS 3.000 - 3600MM
- STUDS IN INTERNAL LOAD BEARING WALLS
90X45 STUDS @ 600 CRS 0.00 - 3000MM
90X45 STUDS @ 300 CRS 3000 - 3600MM
- STUDS IN NON LOAD BEARING WALLS
90X45 STUDS @ 600 CRS 0.00 - 3000MM
- DWANGS TO BE @800 CRS FOR PLASTER CLADDING,
DWANGS TO BE @480 CRS FOR VERTICAL CEDAR CLADDING.
OTHERWISE DWANGS @900 CRS MAX

ALUMINIUM DOORS & WINDOWS

- ALUMINIUM DOOR & WINDOW FINISH SHALL BE **POWDERCOAT**
- COLOUR SHALL BE CONFIRMED WITH CLIENT PRIOR TO FABRICATION.
- CONFIRM ALL OPENING SIZES ON SITE PRIOR TO FABRICATION.
- ALL GLAZING TO BE ALLOWED IN **CLEAR DOUBLE GLAZED WITH ARGON GAS** LOW E GLASS, UNLESS STATED OTHERWISE.
- ALL ALUMINIUM JOINERY SHALL COMPLY WITH NZS 4211:1985.
- REFER ALSO TO THE FLOOR PLAN FOR OPENING DIRECTIONS.
- ALL JAMBS SHALL BE 25MM H3.1 TREATED PINUS RADIATA, GROOVED FOR WALL LININGS.
- ALL OPENING SASHES SHALL BE FITTED WITH **DOUBLE SNIB** HANDLES.
- WHERE OPENING SASHES ARE SHOWN AT FIRST FLOOR LEVEL, THESE SHALL HAVE RESTRICTOR STAYS TO ALLOW 100MM MAX OPENING.

SAFETY GLASS

- ALL GLAZING SHALL COMPLY WITH NZS 4223:2016.
- PANES SHOWN WITH 'SG' SHALL BE ALLOWED AS GRADE A SAFETY GLASS.

0.4 mm Corrugated colorsteel roofing on reinforced underlay on 70 x 45 purlins at 900 crs generally & 600 @ ends on 30° Nailplate trusses at 900 crs max

70
140

460

AC panel and plaster system
in cavity battens
on building wrap
on H1.2 timber 140x45 framing

70x35 Battens
@ 600 Crs

70x35 Battens
@ 600 Crs

Rondo Battens
@ 600 Crs

0.4 mm Corrugated colorsteel roofing on reinforced underlay on 70 x 45 purlins at 900 crs generally & 600 @ ends on 8° Nailplate trusses at 900 crs max

140

1150

Hardiflex Soffit Lining

Hardiflex Soffit Lining

Trusses cantilever to form porch

2720

2570

2570

LIVING

KITCHEN

PASSAGE

WARDROBE

BED 4

CROSS-SECTION

SCALE 1:50



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SHEET

9

SERIES
OF

SMOKE ALARM NOTE

Smoke alarms are a requirement under the New Zealand Building Code Acceptable Solutions C/AS1 and C/AS2 (for fire prevention) and F7/AS1 (for warning systems). Smoke alarms must have:

- a hush button to silence the alarm for at least 60 seconds
- a sound level that complies with NZS 4514:2021 Interconnected smoke alarms for houses – not less than 75 dBA at the sleeping position and not more than 100 dBA at 1.8 m height. (The standard can be downloaded for free.)

Acceptable Solutions C/AS1 and C/AS2 were amended in November 2023 with a 12-month transition period that will end in November 2024. They require interconnected smoke alarms in all new household units and homes where there are renovations that require a building consent, or a change of use. The Acceptable Solutions cite NZS 4514: 2021 for the installation of alarms. With interconnected alarms, when a smoke alarm detects smoke, all alarms will sound. Models that connect wirelessly are available.

Installation or replacing a hard-wired alarm must be done by a licensed electrician.

Some of the key points of the standard include:

The alarms must be in all bedrooms, living spaces, hallways and landings, and on each level of a multi-level home.

Where a kitchen is separated from living spaces and hallways by closable doors, an alarm suitable for kitchens (which may be a heat alarm) must be installed in the kitchen.

Where alarms are required, alarms must be mounted within 10 m of each other in any direction.

The alarms can be hard-wired or operated with a long-life (minimum 10-year) sealed and non-removable battery. Where hard wired they must be tested and certified by a licensed electrical worker.

The interconnection between the alarms can be wired or wireless and hard-wired alarms can be incorporated into a security system.

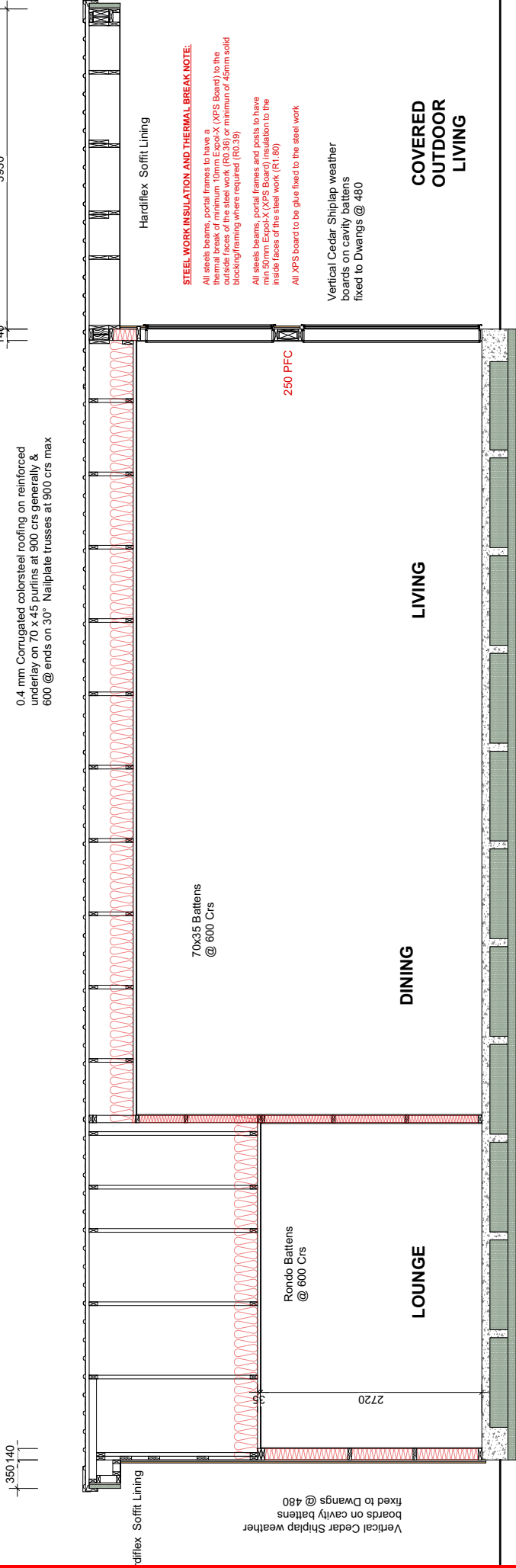
Interconnected smoke alarms

Following the feedback MBIE received during consultation, we have introduced interconnected smoke alarms as the minimum fire safety system in household units.

Interconnected smoke alarms work by sending a signal between the smoke detectors. If one smoke alarm detects a fire, all the smoke alarms in the home will sound an alarm. This update aims to bring New Zealand in line with the latest industry standards. We have cited NZS 4514:2021 which sets out the requirements for the installation, maintenance and commissioning of interconnected smoke alarms. Smoke detectors will need to be installed in all bedrooms, living spaces, hallways and landings and in multi-level dwellings there must be at least one smoke alarm on each level. The standard provides recommendations on different types of detectors that can be used in different areas of a house to avoid nuisance alarms (such as in a kitchen).

The standard also provides options for different power supplies and includes wired smoke alarms or wireless smoke alarms with long-life batteries. A hard-wired interconnected smoke alarm system can be installed during construction while the house is being wired.

The new acceptable solution can be used today and has a one-year transition period ending in November 2024. Until then, the previous acceptable solution can be used for new building work. Homes or buildings which are renovated or have a change in use will also have to consider compliance with new requirements. For existing buildings, battery-operated interconnected smoke alarms can be installed without the need to rewire the home. This is a cost-effective solution that saves lives.



CROSS-SECTION

SCALE 1:50

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PH: 0211790346
kabboyd@hotmail.com

PROPOSED HOUSE AT 4 CORRAVALLY RISE, WEST MELTON LOT: 748 DP:609617
798M², FOR BARRY & CO LIMITED, RC:26205

CONSENT PLANS

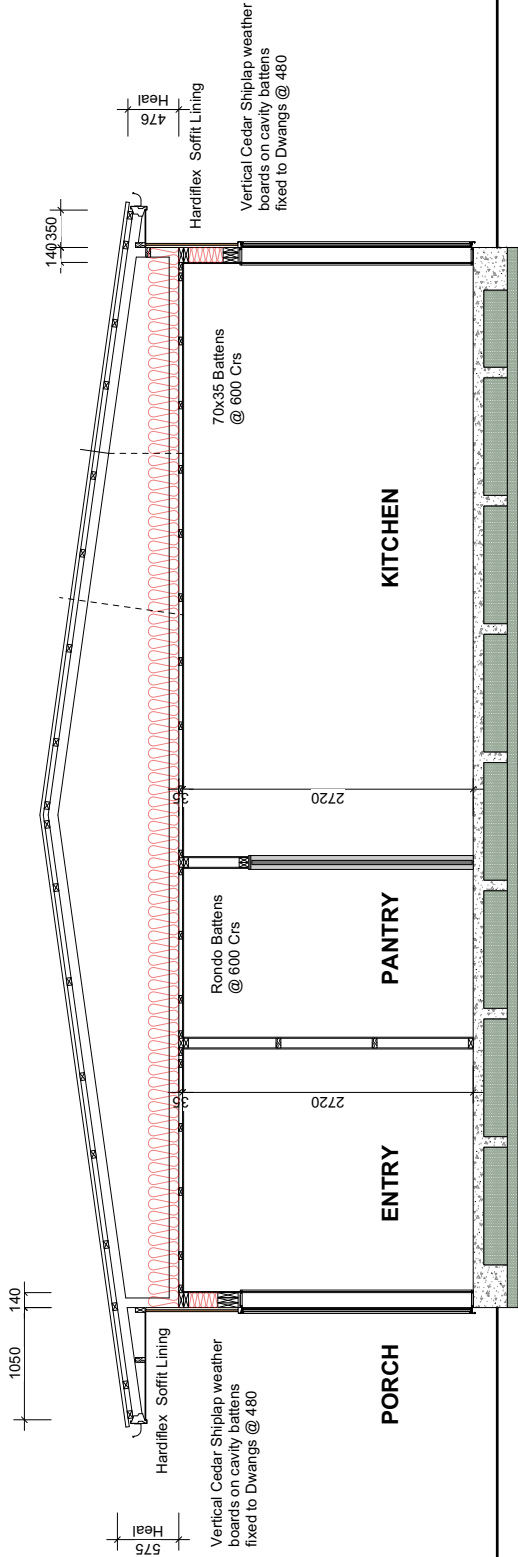
REVISION NO.	DATE	SERIES	AS SHOWN
DRAWN	REV. 21 APRIL 2026	Scale in A3 size	AS SHOWN
REVISED	SEP 2025	Scale in A3 size	AS SHOWN
REVISED	SEP 2025	Scale in A3 size	AS SHOWN

SHEET 10

NOTE

- THE ELECTRICIAN SHALL CONFIRM ACTUAL LIGHT & POWER POINT POSITIONS WITH THE CLIENT ON SITE.
- THE ELECTRICIAN SHALL INSTALL WIRING FOR DIGITAL TELEVISION SERVICE, SATELLITE DISH SUPPLIED AND INSTALLED BY SKY ON REQUEST OF THE CLIENT.
- SUPPLY AND INSTALL A ROOF MOUNTED UHF AERIAL IN LOCATION TO BE CONFIRMED.
- ALL DOWNLIGHTS SHALL BE 'CA80' RATED MINIMUM. ELECTRICIAN SHALL ENSURE NO CEILING INSULATION IS PLACED OVER RECESSED FITTINGS.
- SMOKE ALARMS SHALL COMPLY WITH NZBC E7/AS1. SHALL HAVE TEST AND BUSH FACILITIES. SHALL BE LOCATED NO MORE THAN 3.0M FROM EITHER SLEEPING SPACE DOOR AND WITHIN EACH SPACE THAT MUST BE PASSED THROUGH TO ACCESS A SAFE PLACE (OUTSIDE). ALARMS SHALL HAVE A MINIMUM REQUIREMENT. ADDITIONAL ALARMS ARE RECOMMENDED.
- THE ELECTRICIAN SHALL CO-ORDINATE WITH THE SECURITY & MEDIA SUB-CONTRACTORS FOR INSTALLATION AND POWER REQUIREMENTS FOR SECURITY & MEDIA SYSTEMS.
- THE ELECTRICIAN SHALL ENSURE ALL EXTRACT GRILLE TERMINATIONS ARE MOUNTED TO MATCH CLADDING/SOFFIT COLOUR.
- BATHROOM EXTRACT FANS SHALL INCLUDE A 2 MIN RUN ON FACILITY.
- BATHROOM EXTRACT FANS TO HAVE A MIN CAPACITY OF 80M3/HR.
- CLOSET DOOR TO BE SUPPLIED WITH TWO KEYRING REMOTES & ONE WALL MOUNTED REMOTE SWITCH.
- WALL SENSORS TO INCLUDE A DAYLIGHT CONTROL.
- CLOSET WIRE & INSTALL HEAT PUMPS.
- CLOSET WIRE FOR DATA TO ALL TELEVISION JACKPOINTS.
- CLOSET WIRE CABLE TO BE RUN BACK TO DINING JOINERY UNIT, TERMINATE AND LABEL.
- HEATED TOWEL RAILS TO HAVE PROGRAMMABLE TIMERS.
- LIGHT FITTINGS TO BE IP44 RATED IN BATHROOMS, IP65 WHERE IN SHOWER ENCLOSURES, IP34 EXTERIOR FITTINGS.
- WIRE FOR WATER HEATING UNIT (GAS HEATER/HOT WATER CYLINDER).
- DOWNLIGHTS TO BE SUPPLIED WITH ALUMINIUM CHANNEL & DIFFUSER.

0.4 mm Corrugated colorsteel roofing on reinforced underlay on 70 x 45 purlins at 900 c/s generally & 600 @ ends on 8" Nailplate trusses at 900 c/s max



CROSS-SECTION

SCALE 1:50

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PROPOSED HOUSE AT 4 CORRAVALLY RISE, WEST MELTON LOT: 748 DP:609617
798M², FOR BARRY & CO LIMITED, RC:26205

CONSENT PLANS

DRAWN	DATE	REV	SCALE	AS SHOWN
KELVIN BOYD	SEP 2025	21	A3 size	AS SHOWN
REVISION NO.	REV	21	APRIL 2026	REF

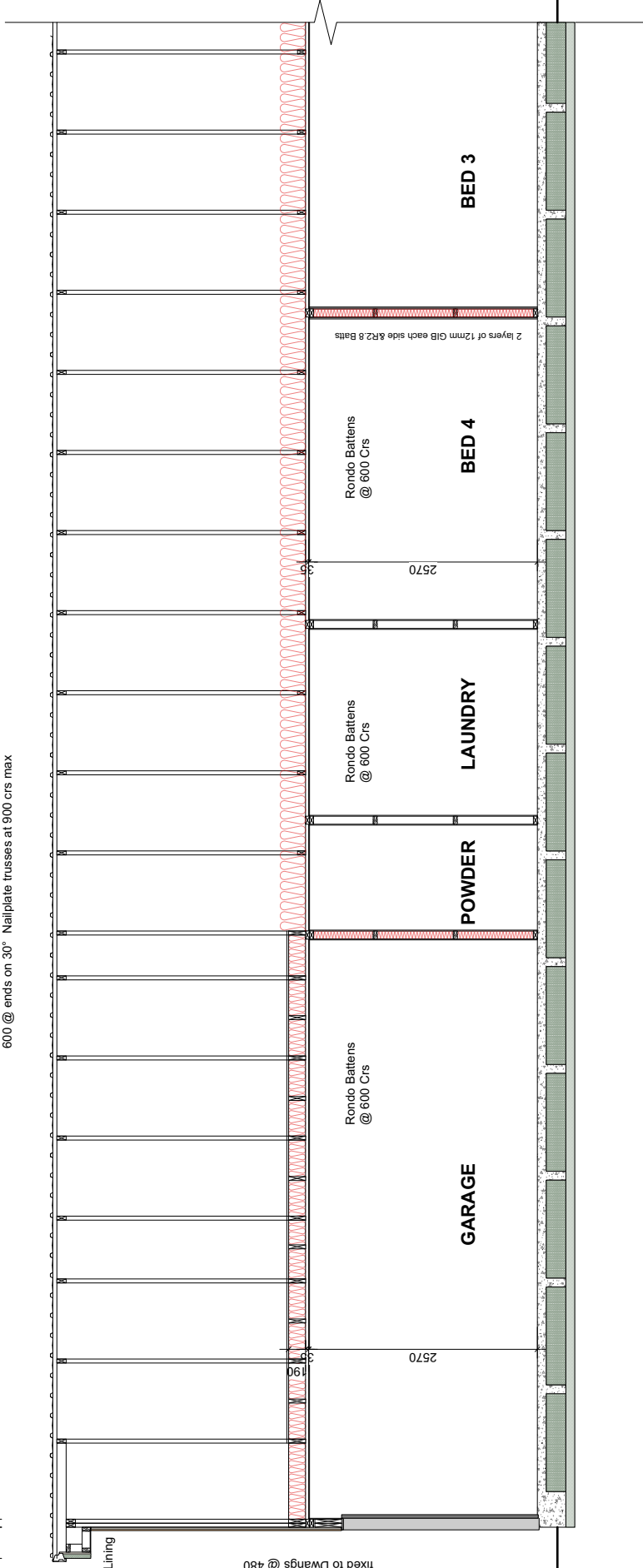
SHEET 11

350 90

Hardflex Soffit Lining

Vertical Cedar Shiplap weather
boards on cavity battens
fixed to Dwangs @ 480

0.4 mm Corrugated colorsteel roofing on reinforced
underlay on 70 x 45 purlins at 900 crs generally &
600 @ ends on 30° Nailplate trusses at 900 crs max



CROSS-SECTION



SCALE 1:50

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PROPOSED HOUSE AT 4 CORRAVALLY RISE, WEST MELTON LOT: 748 DP:609617
798M², FOR BARRY & CO LIMITED, RC:26205

CONSENT PLANS

DRAWN	DATE	SHEET	SCALE	AS SHOWN	REF
KELVIN BOYD	SEP 2025	12	A3 size	AS SHOWN	
REVISION NO.	REV. 21 APRIL 2026				



CROSS-SECTION

SCALE 1:50

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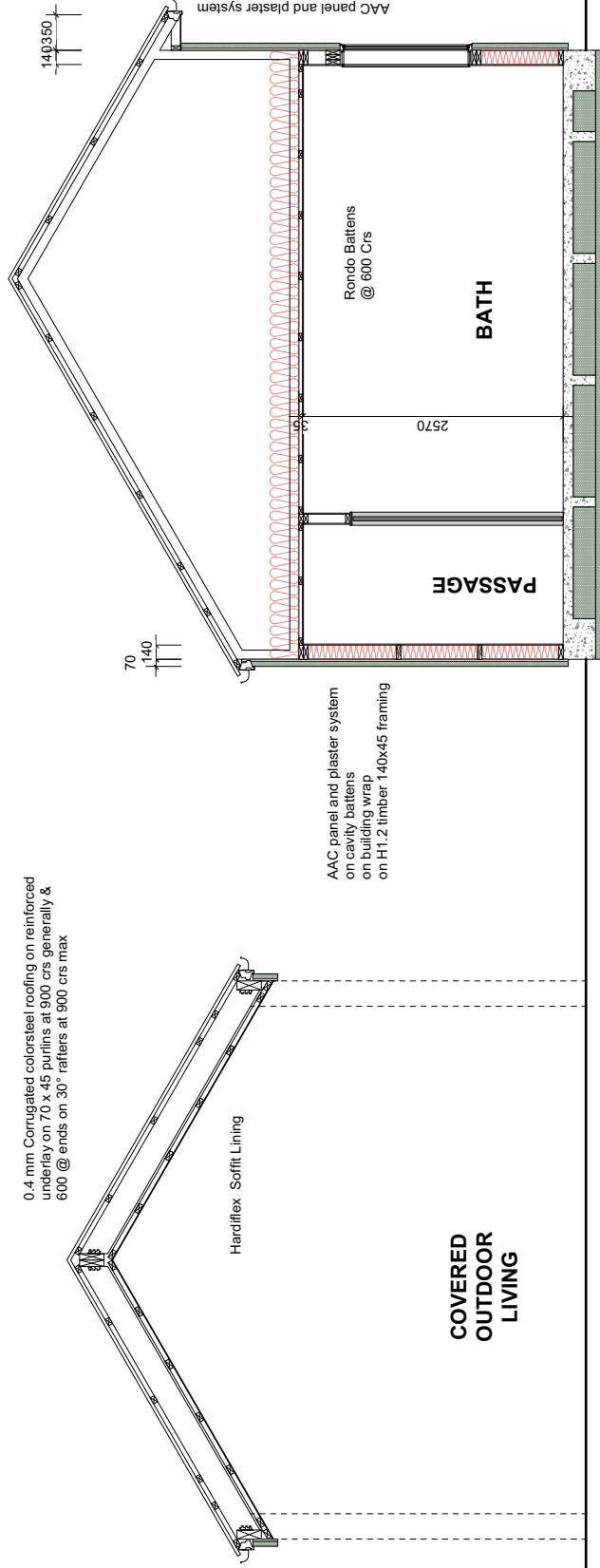
PROPOSED HOUSE AT 4 CORRAVALLY RISE, WEST MELTON LOT: 748 DP:609617
798M², FOR BARRY & CO LIMITED, RC:26205

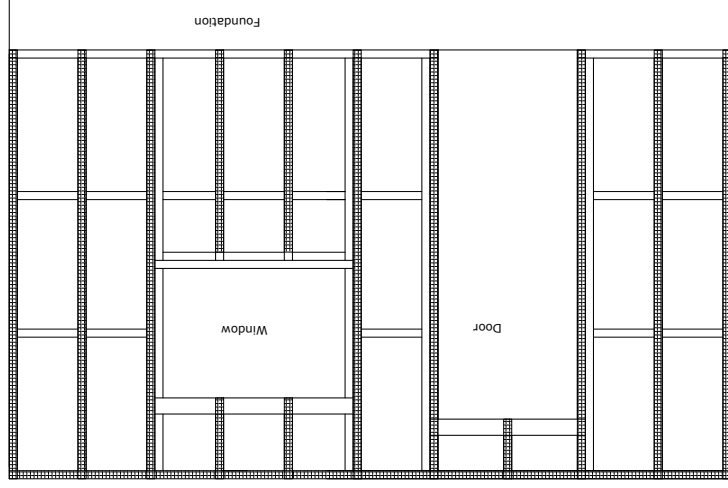
CONSENT PLANS

DRAWN	DATE	SHEET	SCALE	AS SHOWN	REF
KELVIN BOYD	SEP 2025	13	A3 size	AS SHOWN	OF
REVISION NO.	REV. 21 APRIL 2026				

0.4 mm Corrugated colorsteel roofing on reinforced underlay on 70 x 45 purlins at 900 crs generally & 600 @ ends on 30° Nailplate trusses at 900 crs max

0.4 mm Corrugated colorsteel roofing on reinforced underlay on 70 x 45 purlins at 900 crs generally & 600 @ ends on 30° rafters at 900 crs max





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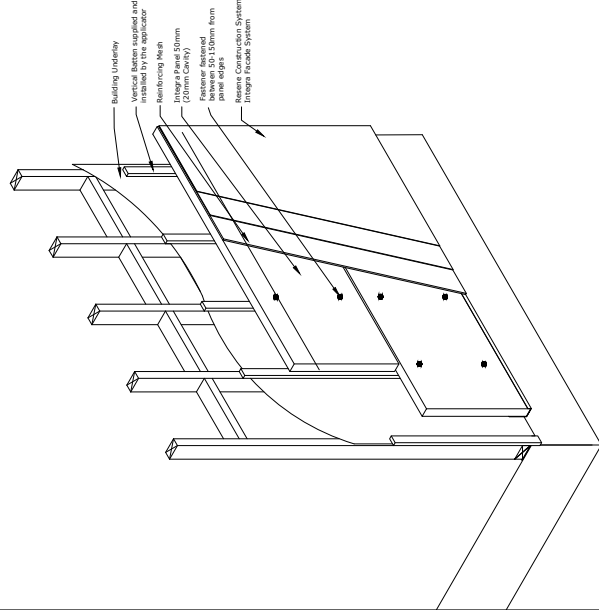


System	Integra Facade System
Substrate	Integra Panel 50mm (20mm Centre)
Drawing Name	Batten Layout (400mm Centre)

Scale
1 : 2 @ A4

Date
1 November

Sheet
10.01.01



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System
Integra Facade System

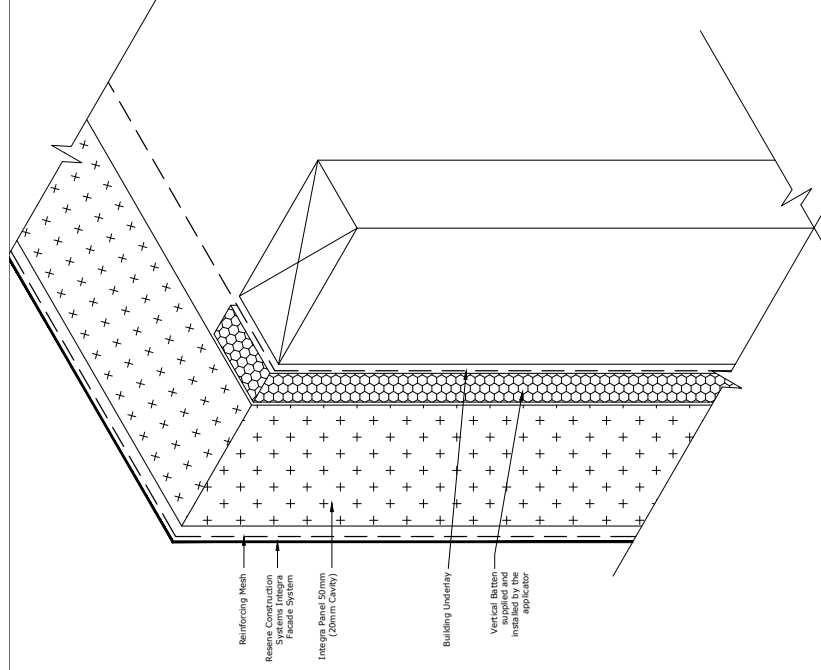
Substrate
Integra Panel 50mm (20mm Cavity)

Drawing Name
Isometric (400 Centers)

Scale
1 : 2 @ A4

Date
1 November 2017

Sheet
10.01.11



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System
Integra Facade System

Substrate
Integra Panel 50mm (20mm Cavity)

Drawing Name
Isometric Cross Section

Scale
1 : 2 @ A

Date
1 Novem

Sheet
10.01.20

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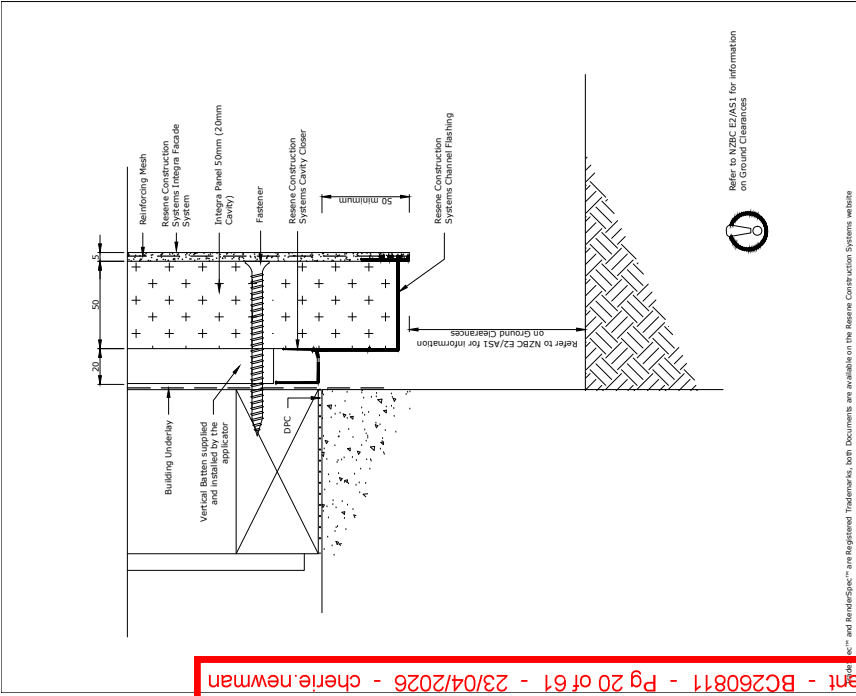
PROPOSED HOUSE AT 4 CORRAVALLY RISE, WEST MELTON LOT: 748 DP:609617
798M², FOR BARRY & CO LIMITED, RC:26205

CONSENT PLANS

DRAWN	KELVIN BOYD	DATE	SEP 2025
REVISION NO.		REV.	21 APRIL 2026

SHEET

SERIES	OF
REF	

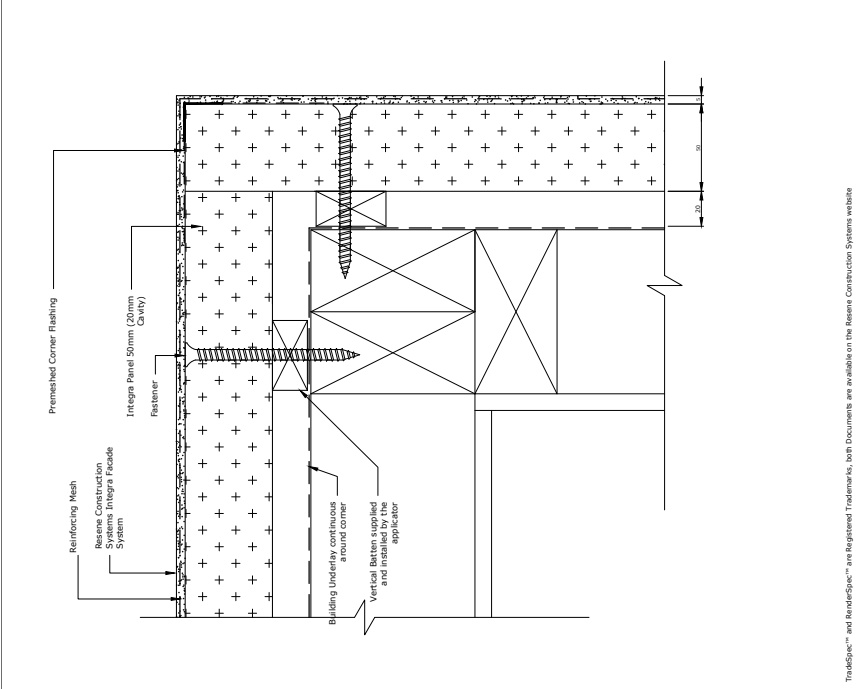


Resene Construction Systems

System: Integra Facade System
Subarea: Integra Panel 50mm (20mm Cavity)
Drawing Name: Foundation

Scale: 1 : 2 @ A4
Date: 1 October 2019
Sheet: 10.02.00

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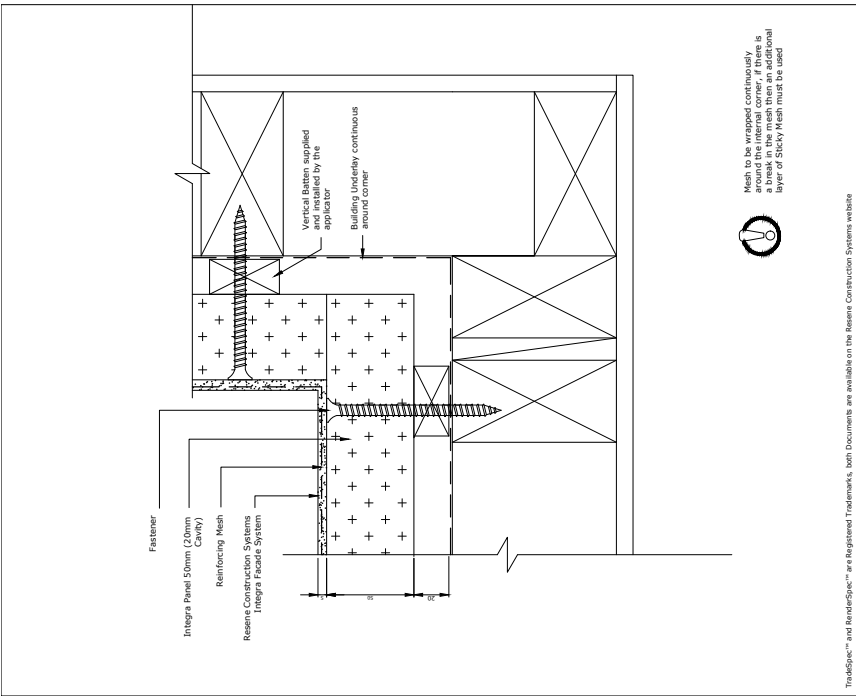


Resene Construction Systems

System: Integra Facade System
Subarea: Integra Panel 50mm (20mm Cavity)
Drawing Name: External Corner

Scale: 1 : 2 @ A4
Date: 1 November 2017
Sheet: 10.03.00

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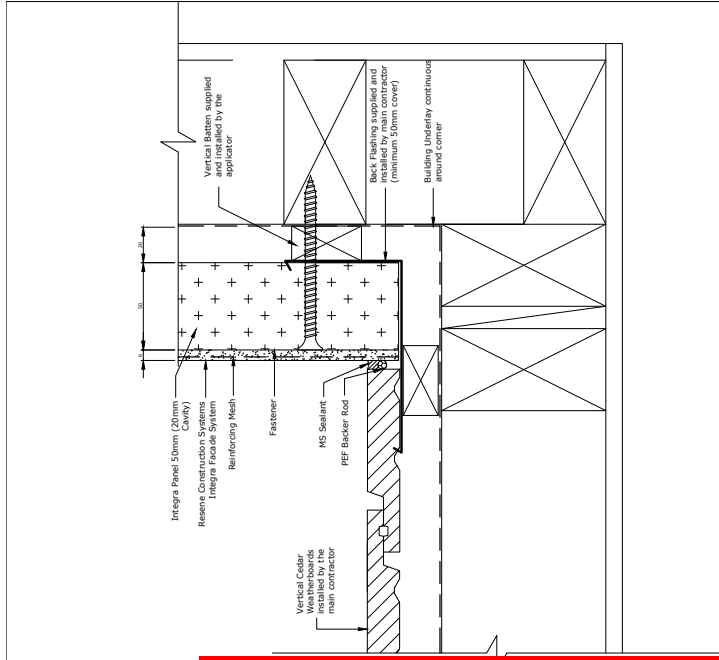


Resene Construction Systems

System: Integra Facade System
Subarea: Integra Panel 50mm (20mm Cavity)
Drawing Name: Internal Corner

Scale: 1 : 2 @ A4
Date: 1 November 2017
Sheet: 10.04.00

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Scale: 1 : 2 @ A4

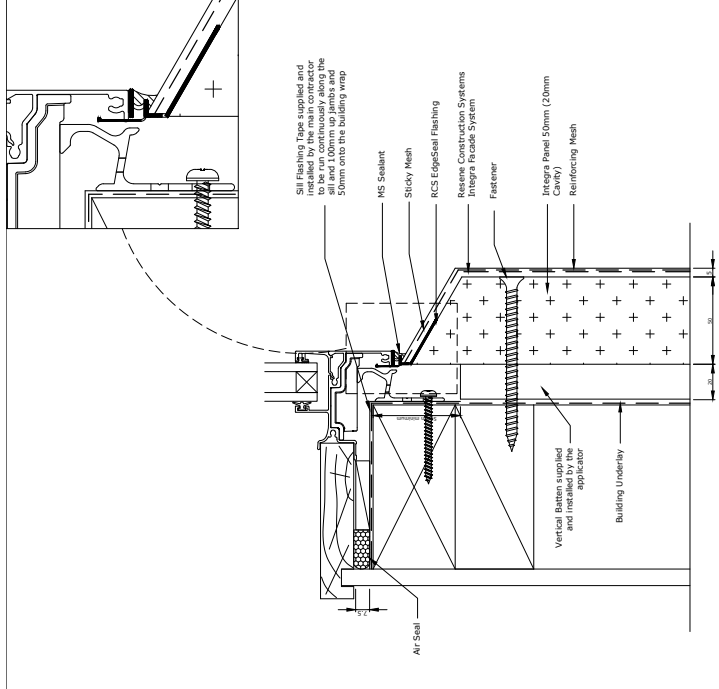
System: Integra Facade System

Substrate: Integra Panel 30mm (20mm Cavity)

Date: 6 June 2019

Sheet: 10.04.71

Drawing Name: Internal Corner with Vert Cedar Weatherboard - Option 2



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

The RCS EdgeSeal Flashing holds a patent for its innovative design - Patent # 582317

The RCS EdgeSeal Flashing holds a patent for its innovative design - Patent # 582317
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Construction Systems



Scale

1 : 2 @ A4

Date

1 November 2017

Sheet

10.05.00

System

Integra Facade System

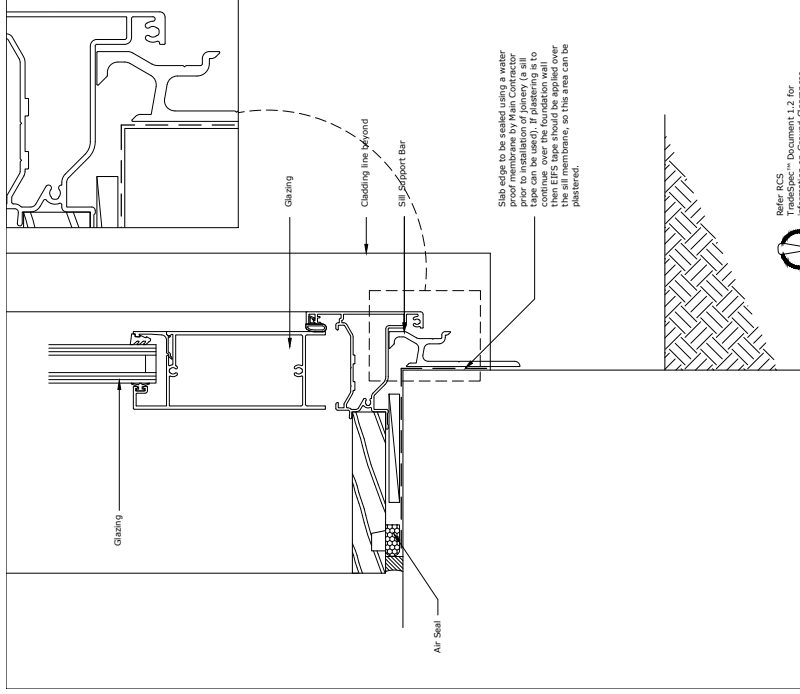
Substrate

Integra Panel 50mm (20mm Cavity)

Drawing Name

Window Sill

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Refer RCS
TradeSpec™ Document 1.2 for
Information on Ground Clearances

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Scale: 1 : 2 @ A4

System: Integra Facade System

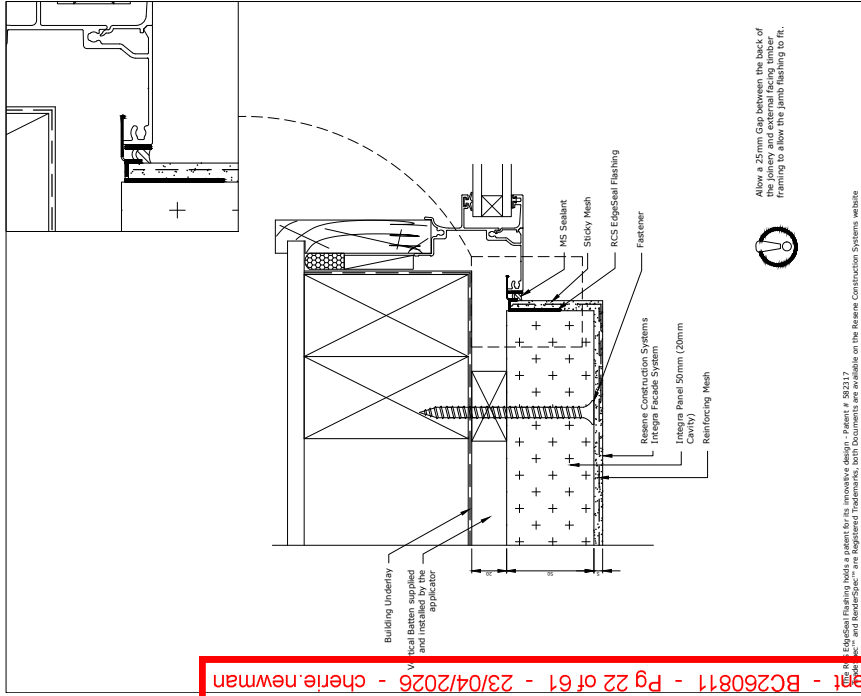
Substrate: Substrate

Date: 1 November 2017

Sheet: Sheet

Drawing Name: Door Sill - Option 1

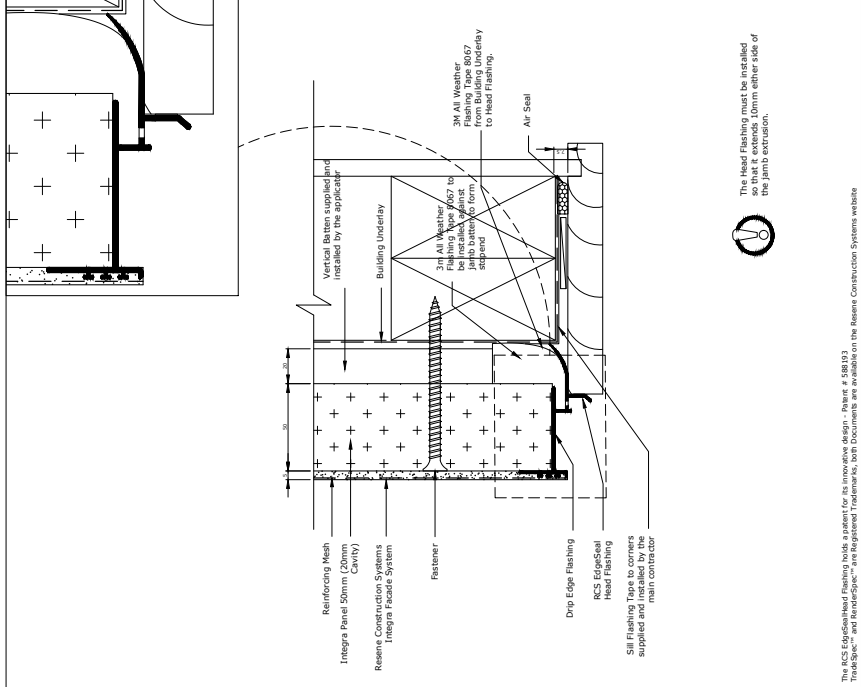
10.05.60



Resene Construction Systems

System: Integra Facade System
Substrate: Integra Panel 50mm (20mm Cavity)
Drawing Name: Window Jamb
Scale: 1 : 2 @ A4
Date: 8 August 2022
Sheet: 10.06.00

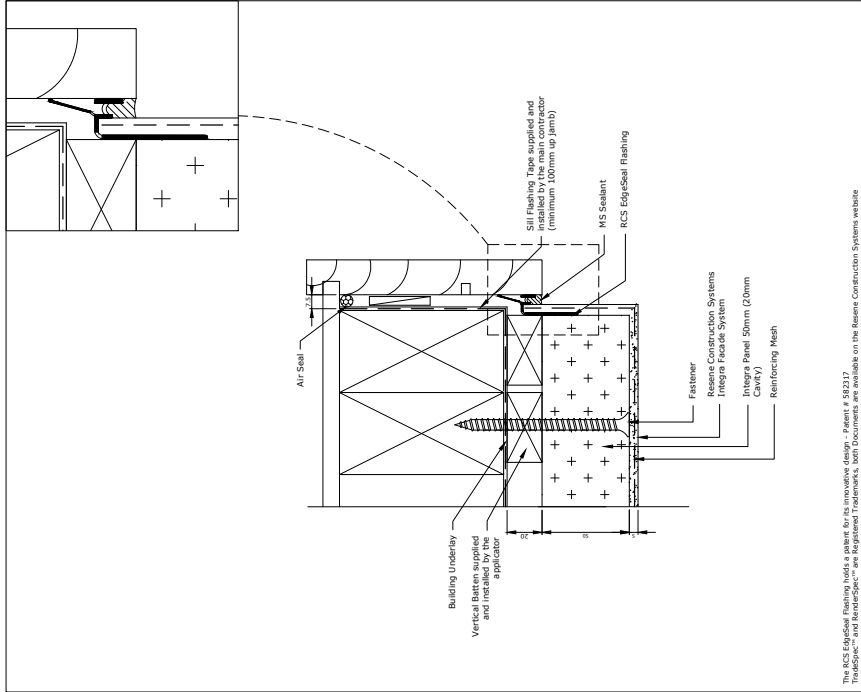
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Resene Construction Systems

System: Integra Facade System
Substrate: Integra Panel 50mm (20mm Cavity)
Drawing Name: Garage Door Head - Option 1
Scale: 1 : 2 @ A4
Date: 1 November 2017
Sheet: 10.07.50

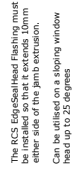
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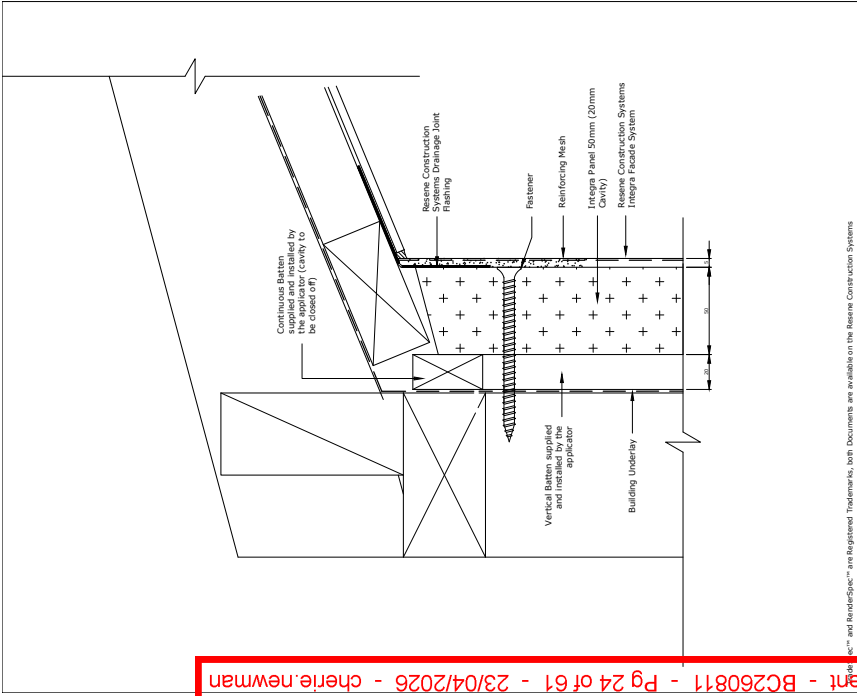
System: Integra Facade System
Substrate: Integra Panel 50mm (20mm Cavity)
Drawing Name: Garage Door Jamb - Option 1
Scale: 1 : 2 @ A4
Date: 1 November 2017
Sheet: 10.06.50

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System
Integra Facade System

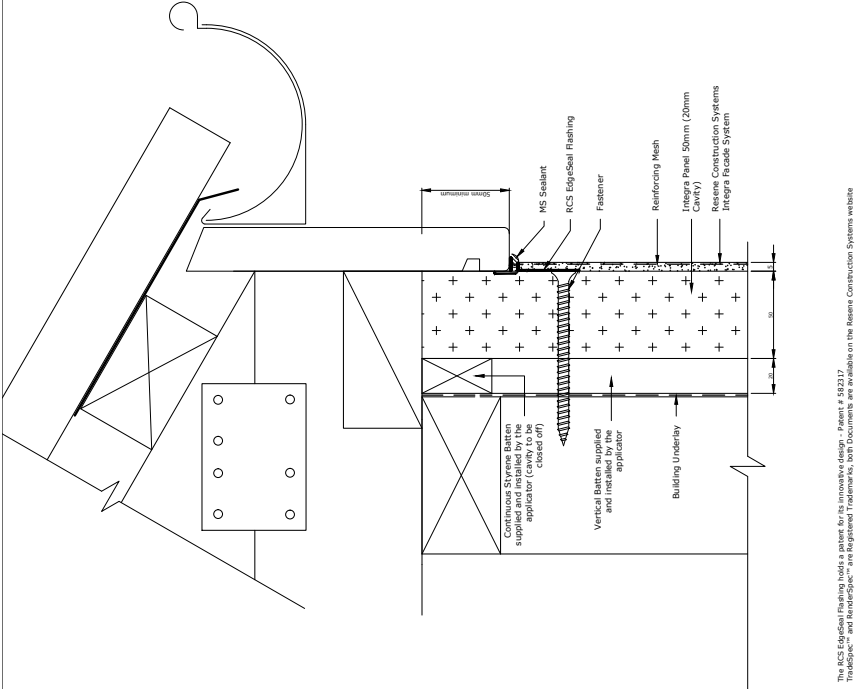
Subarea
Integra Panel 50mm (20mm Cavity)

Drawing Name
Raking Soffit - Option 2

Scale
1 : 2 @ A4

Date
8 August 2022

Sheet
10.08.31



The RCS Edgeside Flashing holds a patent for its innovative design - Patent # 592317
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System
Integra Facade System

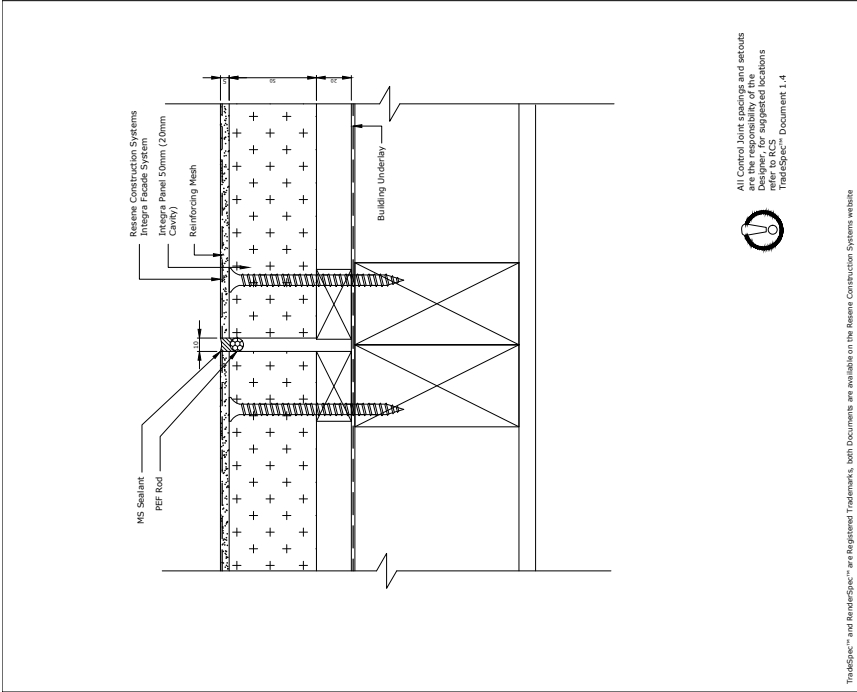
Subarea
Integra Panel 50mm (20mm Cavity)

Drawing Name
Face Fixed Fascia - Option 2

Scale
1 : 2 @ A4

Date
1 November 2017

Sheet
10.08.41



All Control Joint spacings and details
must be approved by the Building
Designer, for suggested locations
refer to RCS
TradeSpec Document 1.4

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System
Integra Facade System

Subarea
Integra Panel 50mm (20mm Cavity)

Drawing Name
Vertical Control Joint - Option 1

Scale
1 : 2 @ A4

Date
1 November 2017

Sheet
10.10.00

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kabboid@hotmail.com

**PROPOSED HOUSE AT 4 CORRAVALLY RISE, WEST MELTON LOT: 748 DP:609617
798M², FOR BARRY & CO LIMITED, RC:26205**

CONSENT PLANS

DRAWN KELVIN BOYD	DATE SEP 2025	Scale in A3 size AS SHOWN	SHEET 19
REVISION NO.	REV, 21 APRIL 2026	SERIES OF	REF

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Resene Construction Systems

System: Integra Facade System
Subarea: Integra Panel 50mm (20mm Cavity)
Drawing Name: Vertical Junction with Vertical Cedar Weatherboards
Scale: 1 : 2 @ A4
Date: 1 November 2017
Sheet: 10.10.90

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Resene Construction Systems

System: Integra Facade System
Subarea: Integra Panel 50mm (20mm Cavity)
Drawing Name: Pipe Penetration
Scale: 1 : 2 @ A4
Date: 1 November 2017
Sheet: 10.12.20

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Resene Construction Systems

System: Integra Facade System
Subarea: Integra Panel 50mm (20mm Cavity)
Drawing Name: Fan Vent
Scale: 1 : 2 @ A4
Date: 1 November 2017
Sheet: 10.12.21

Kelvin Boyd
Architectural Services Limited

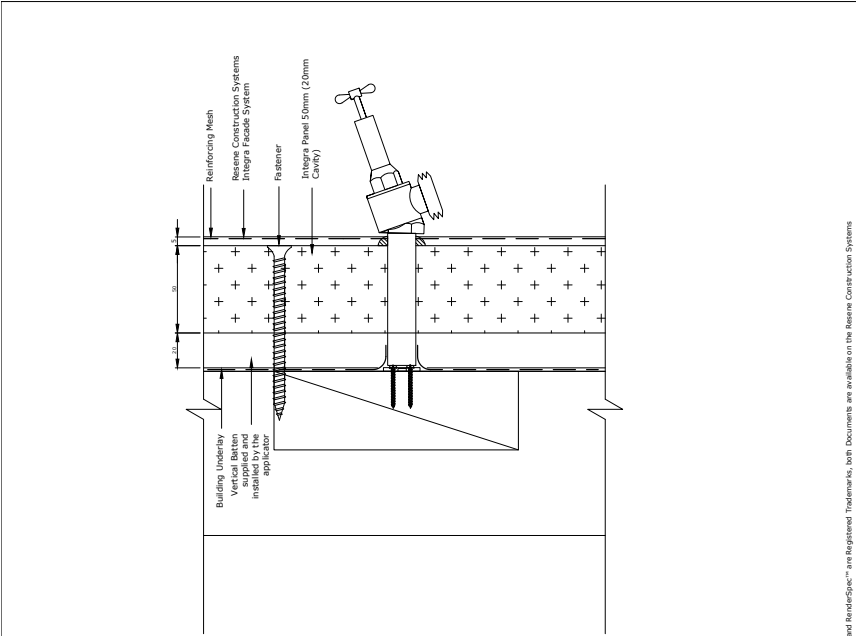
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kabboyd@hotmail.com

PROPOSED HOUSE AT 4 CORRAVALLY RISE, WEST MELTON LOT: 748 DP:609617
798M², FOR BARRY & CO LIMITED, RC:26205

CONSENT PLANS

SHEET 20

DRAWN: KELVIN BOYD	DATE: SEP 2025	Scale in A3 size
REVISION NO.	REV: 21 APRIL 2026	AS SHOWN
		SERIES OF REF



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System
Integra Facade System

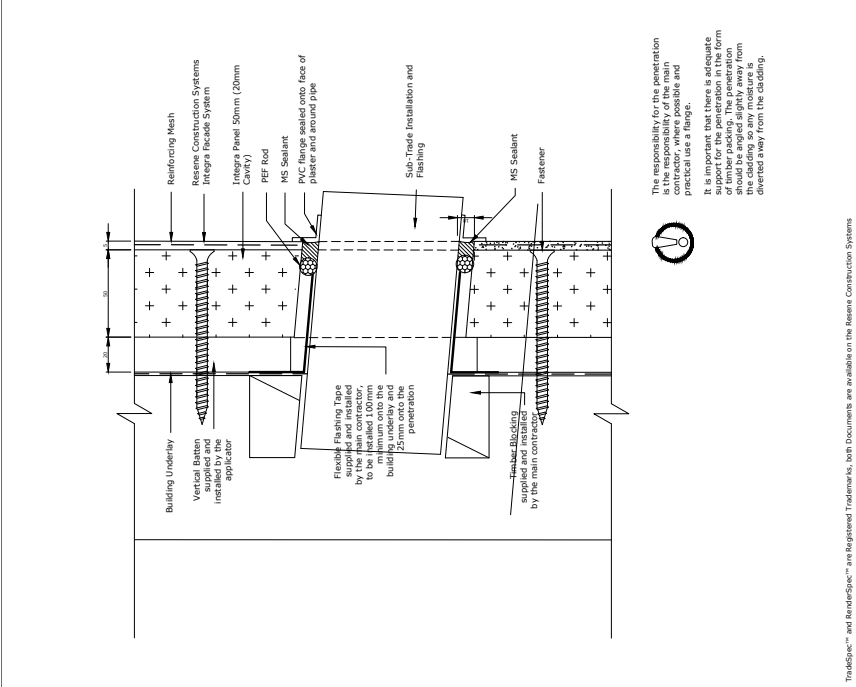
Subarea
Integra Panel 50mm (20mm Cavity)

Drawing Name
Tap Fitting Detail

Scale
1 : 2 @ A4

Date
1 November 2017

Sheet
10.12.22



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System
Integra Facade System

Subarea
Integra Panel 50mm (20mm Cavity)

Drawing Name
Headpump Penetration

Scale
1 : 2 @ A4

Date
1 November 2017

Sheet
10.12.25

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PROPOSED HOUSE AT 4 CORRAVALLY RISE, WEST MELTON LOT: 748 DP:609617
798M², FOR BARRY & CO LIMITED, RC:26205

CONSENT PLANS

SHEET 21

DRAWN KELVIN BOYD	DATE SEP 2025	Scale in A3 size AS SHOWN	SERIES OF
REVISION NO.	REV. 21 APRIL 2026	REF	

NOTES:

- All weatherboard fixings pre-drilled maximum 1mm diameter smaller than the nail/screw gauge.
- All Hermpac timber products, cut ends and edges to be pre-coated as per Installation Specifications.
- For non-hemmed corner flashings, ensure a minimum 75mm cover to weatherboards beyond the point where BRAVZ Bulletin 411 compliant weatherboard lap or rebate combinations terminate at the corner junction.
- The corner junction Zone and above, the 75mm cover requirement remains and hemmed edges must also be used.
- Refer to NZBC Acceptable Solution E2/AS1 Table 21 for the separation requirements between CCA and weatherboards.
- Prior to installation, refer to Hermpac Vertical Shiplap Installation Specifications.

Head Flashing Turned up to form Stop End

Herpac

hermpac.co.nz

SUBJECT TO CHANGE WITHOUT NOTICE

Cavity Fix Vertical Shiplap Weatherboard System

Garage Door Head Detail

HC-SHIP-220

DRAWING

1:2 @ A4

SCALE

01/11/2021

ISSUED DATE

CMNZ20036

NOTES:

- All weatherboard fixings pre-drilled maximum 1mm diameter smaller than the nail/screw gauge.
- All Hermpac timber products, cut ends and edges to be pre-coated as per Installation Specifications.
- For non-hemmed corner flashings, ensure a minimum 75mm cover to weatherboards beyond the point where BRAVZ Bulletin 411 compliant weatherboard lap or rebate combinations terminate at the corner junction.
- The corner junction Zone and above, the 75mm cover requirement remains and hemmed edges must also be used.
- Refer to NZBC Acceptable Solution E2/AS1 Table 21 for the separation requirements between CCA and weatherboards.
- Prior to installation, refer to Hermpac Vertical Shiplap Installation Specifications.

20mm min. head extension cladding

Herpac

hermpac.co.nz

SUBJECT TO CHANGE WITHOUT NOTICE

Cavity Fix Vertical Shiplap Weatherboard System

Garage Door Jamb Detail

HC-SHIP-222A

DRAWING

1:2 @ A4

SCALE

01/11/2021

ISSUED DATE

CMNZ20036

NOTES:

- All weatherboard fixings pre-drilled maximum 1mm diameter smaller than the nail/screw gauge.
- All Hermpac timber products, cut ends and edges to be pre-coated as per Installation Specifications.
- For non-hemmed corner flashings, ensure a minimum 75mm cover to weatherboards beyond the point where BRAVZ Bulletin 411 compliant weatherboard lap or rebate combinations terminate at the corner junction.
- The corner junction Zone and above, the 75mm cover requirement remains and hemmed edges must also be used.
- Refer to NZBC Acceptable Solution E2/AS1 Table 21 for the separation requirements between CCA and weatherboards.
- Prior to installation, refer to Hermpac Vertical Shiplap Installation Specifications.

30 x 35mm nail position

27mm rebate

25mm lap

2mm expansion \ contraction gap between Weatherboards

40 x 2.0mm Hermpac Stainless Steel Clinch Nail

75 x 3.25mm Hermpac Crown Head Annular Grooved Shank Nail (or as per E2/AS1 - Table 24)

Herpac

hermpac.co.nz

SUBJECT TO CHANGE WITHOUT NOTICE

Cavity Fix Vertical Shiplap Weatherboard System

General Detail

Cavity Fix, Stain Finish

HC-SHIP-410

DRAWING

1:2 @ A4

SCALE

2022

ISSUED DATE

CMNZ20036

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PROPOSED HOUSE AT 4 CORRAVALLY RISE, WEST MELTON LOT: 748 DP:609617
798M², FOR BARRY & CO LIMITED, RC:26205

CONSENT PLANS

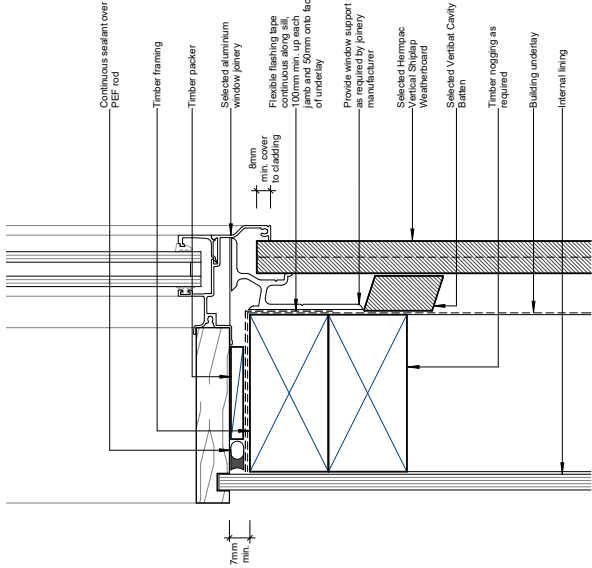
SHEET 23

DRAWN: KELVIN BOYD
DATE: SEP 2025
REVISION NO.

Scale in A3 size
AS SHOWN

SERIES OF
REF

- NOTES:**
- All weatherboard fixings pre-drilled maximum 1mm diameter smaller than the nail/screw gauge.
 - All Hermpac timber products, cut ends and edges to be pre-coated as per Installation Specifications.
 - For non-hemmed corner flashings, ensure a minimum 75mm cover to weatherboards beyond the point where BRAVZ Bulletin 411 compliant weatherboard lap or rebate combinations terminate at the corner/junction.
 - The corner/junction Zone and above, the 75mm cover requirement remains and hemmed edges must also be used.
 - Refer to NZBC Acceptable Solution E2/AS1 Table 21 for the separation requirements between CCA and weatherboard.
 - Prior to installation, refer to Hermpac Vertical Shiplap Technical Installation Specifications.



**Herpac**
hermpac.co.nz

Cavity Fix Vertical Shiplap Weatherboard System
Window Sill
Detail, Aluminium
Joinery

**CodeMark**
CERTIFIED
CMNZ20036

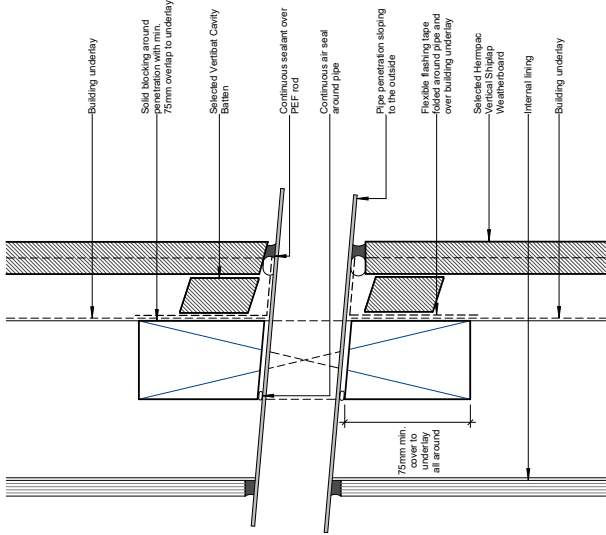
HC-SHIP-201
DRAWING

1:2 @ A4
SCALE

2022
ISSUED DATE

SUBJECT TO CHANGE WITHOUT NOTICE

- NOTES:**
- All weatherboard fixings pre-drilled maximum 1mm diameter smaller than the nail/screw gauge.
 - All Hermpac timber products, cut ends and edges to be pre-coated as per Installation Specifications.
 - For non-hemmed corner flashings, ensure a minimum 75mm cover to weatherboards beyond the point where BRAVZ Bulletin 411 compliant weatherboard lap or rebate combinations terminate at the corner/junction.
 - The corner/junction Zone and above, the 75mm cover requirement remains and hemmed edges must also be used.
 - Refer to NZBC Acceptable Solution E2/AS1 Table 21 for the separation requirements between CCA and weatherboard.
 - Prior to installation, refer to Hermpac Vertical Shiplap Technical Installation Specifications.



**Herpac**
hermpac.co.nz

Cavity Fix Vertical Shiplap Weatherboard System
Pipe Penetration
Detail

**CodeMark**
CERTIFIED
CMNZ20036

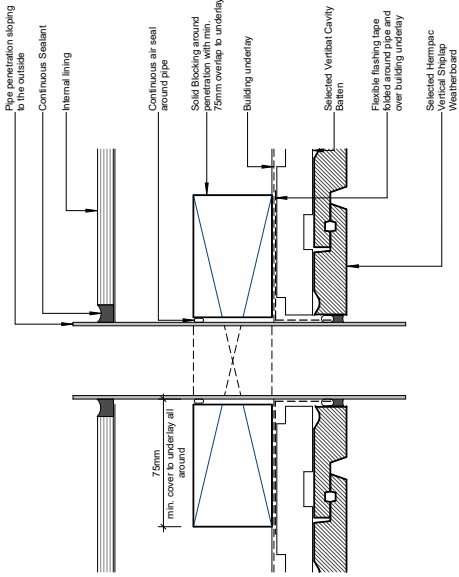
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DRAWING

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SCALE

2022
ISSUED DATE

SUBJECT TO CHANGE WITHOUT NOTICE

- NOTES:**
- All weatherboard fixings pre-drilled maximum 1mm diameter smaller than the nail/screw gauge.
 - All Hermpac timber products, cut ends and edges to be pre-coated as per Installation Specifications.
 - For non-hemmed corner flashings, ensure a minimum 75mm cover to weatherboards beyond the point where BRAVZ Bulletin 411 compliant weatherboard lap or rebate combinations terminate at the corner/junction.
 - The corner/junction Zone and above, the 75mm cover requirement remains and hemmed edges must also be used.
 - Refer to NZBC Acceptable Solution E2/AS1 Table 21 for the separation requirements between CCA and weatherboard.
 - Prior to installation, refer to Hermpac Vertical Shiplap Technical Installation Specifications.



**Herpac**
hermpac.co.nz

Cavity Fix Vertical Shiplap Weatherboard System
Pipe Penetration
Plan Detail

**CodeMark**
CERTIFIED
CMNZ20036

HC-SHIP-802
DRAWING

1:2 @ A4
SCALE

2022
ISSUED DATE

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kabboid@hotmail.com

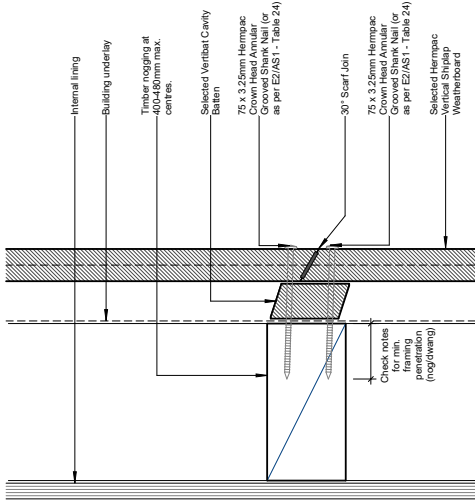
PROPOSED HOUSE AT 4 CORRAVALLY RISE, WEST MELTON LOT: 748 DP:609617
798M², FOR BARRY & CO LIMITED, RC:26205

CONSENT PLANS

DRAWN	KELVIN BOYD	DATE	SEP 2025	Scale in A3 size	AS SHOWN
REVISION NO.		REV	21 APRIL 2026		
SERIES	OF				
REF					

SHEET
24

- NOTES:**
- All weatherboard fixings pre-drilled maximum 1mm diameter smaller than the nail/screw gauge.
 - All Hermpac timber products, cut ends and edges to be pre-coated as per Installation Specifications.
 - For non-hemmed corner flashings, ensure a minimum 75mm cover to weatherboards beyond the point where BRAZAX Bulletin 411 compliant weatherboard lap or rebate combinations terminate at the corner/junction.
 - In the corner/junction Zone and above, the 75mm cover requirement remains and hemmed edges must also be used.
 - Refer to NZBC Acceptable Solution E2/AS1 Table 21 for the separation requirements between CCA and weatherboards.
 - Prior to installation, refer to Hermpac Vertical Shiplap Technical Installation Specifications.



- NOTE:**
- 1) Cut ends of scarf join must be well sealed with specified end sealer.
 - 2) Fix weatherboards either side of the scarf join.
 - 3) Check notes for rim framing penetration (nogging).
 - 4) Cut Head nail - 35mm minimum framing penetration.
 - 5) Staircap screw - 2mm minimum framing penetration.

**Herpac**
hermpac.co.nz
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Cavity Fix Vertical Shiplap Weatherboard System
Scarf Join Stair
Finish

HC-SHIP-413
DRAWING

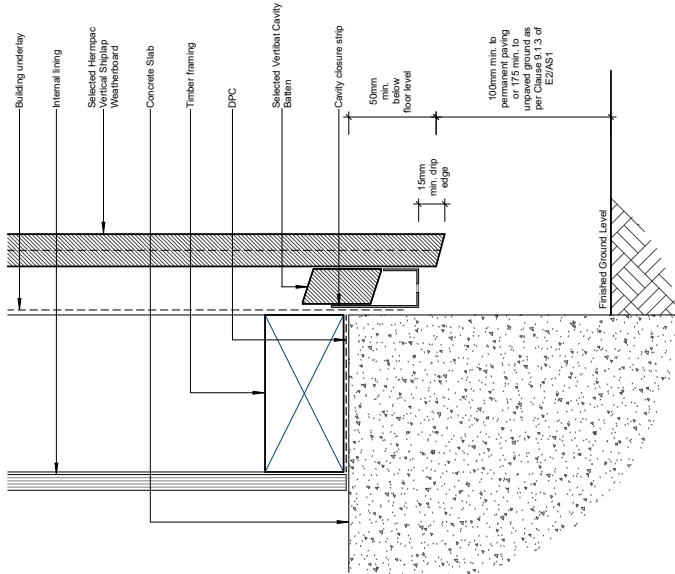
1:2 @ A4
SCALE

2022
ISSUED DATE

**CodeMark**
CERTIFIED
CMNZ20036

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hermpac.co.nz
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- NOTES:**
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 - All Hermpac timber products, cut ends and edges to be pre-coated as per Installation Specifications.
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 - Prior to installation, refer to Hermpac Vertical Shiplap Technical Installation Specifications.



**Herpac**
hermpac.co.nz
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Cavity Fix Vertical Shiplap Weatherboard System
Base of Wall,
Concrete

HC-SHIP-500
DRAWING

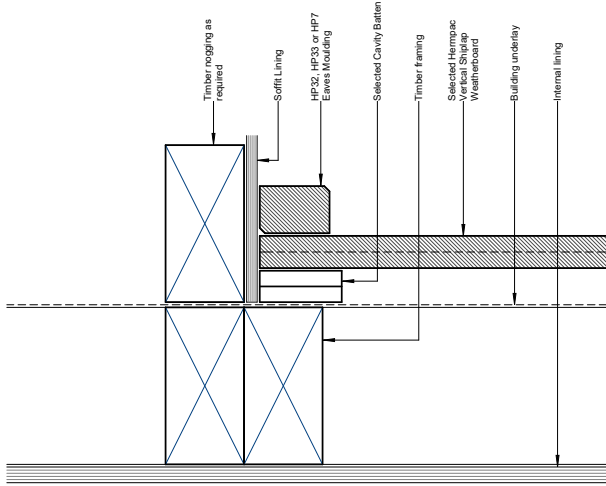
1:2 @ A4
SCALE

2022
ISSUED DATE

**CodeMark**
CERTIFIED
CMNZ20036

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 - In the corner/junction Zone and above, the 75mm cover requirement remains and hemmed edges must also be used.
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 - Prior to installation, refer to Hermpac Vertical Shiplap Technical Installation Specifications.



**Herpac**
hermpac.co.nz
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Cavity Fix Vertical Shiplap Weatherboard System
Soffit Detail,
Overhang

HC-SHIP-601
DRAWING

1:2 @ A4
SCALE

01/11/2021
ISSUED DATE

**CodeMark**
CERTIFIED
CMNZ20036

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hermpac.co.nz
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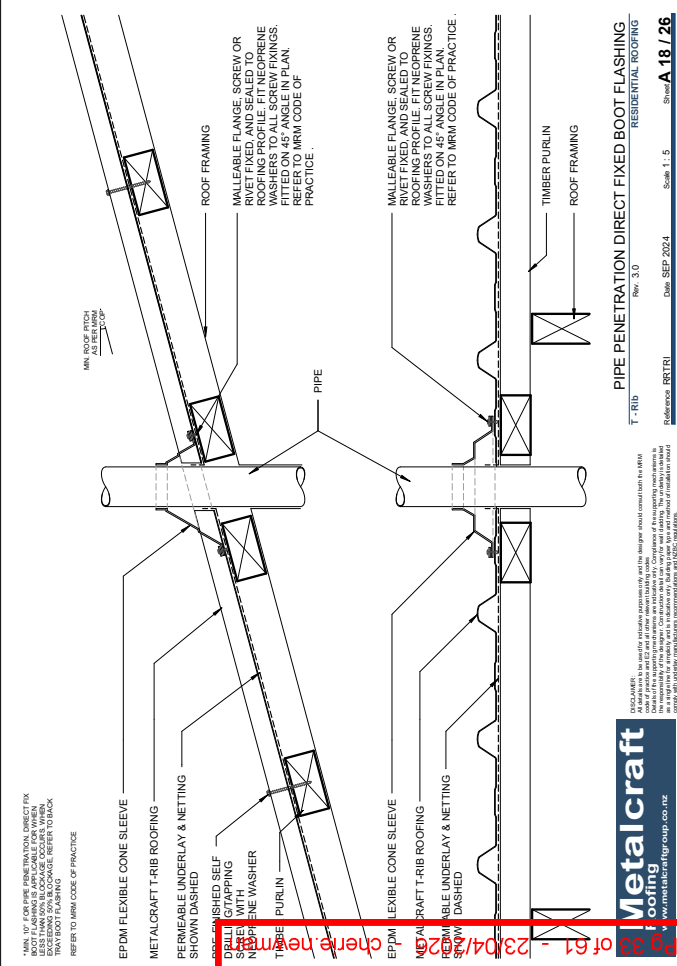
**Kelvin
Boyd**
Architectural Services Limited
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PH: 0211790346
kabboid@hotmail.com

PROPOSED HOUSE AT 4 CORRAVALLY RISE, WEST MELTON LOT: 748 DP:609617
798M², FOR BARRY & CO LIMITED, RC:26205

CONSENT PLANS

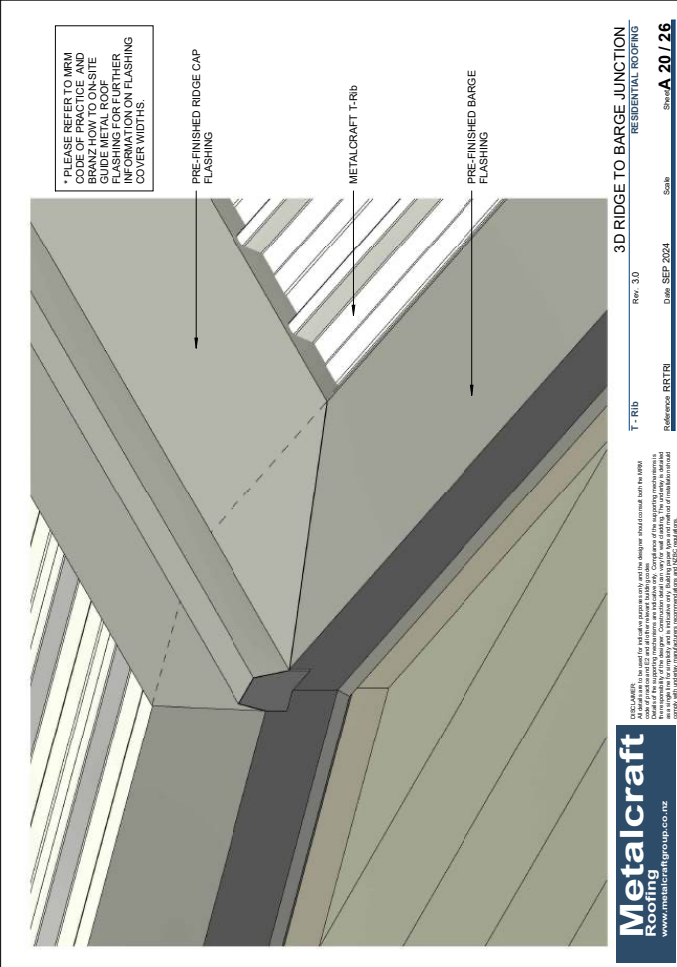
DRAWN: KELVIN BOYD
DATE: SEP 2025
REVISION NO.

SHEET 26
SERIES OF
AS SHOWN
REF



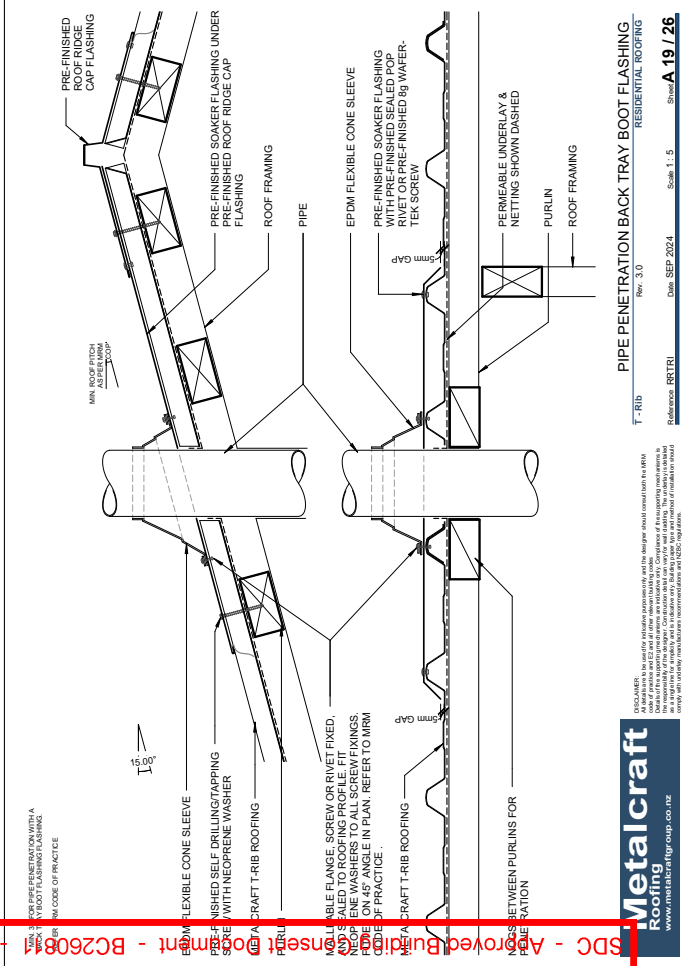
Metalcraft
Roofing
www.metalcraftgroup.co.nz

PIPE PENETRATION DIRECT FIXED BOOT FLASHING
Rev. 3.0
Date SEP 2024
Scale 1: 5
Sheet A 18 / 26
Reference: RTRTI



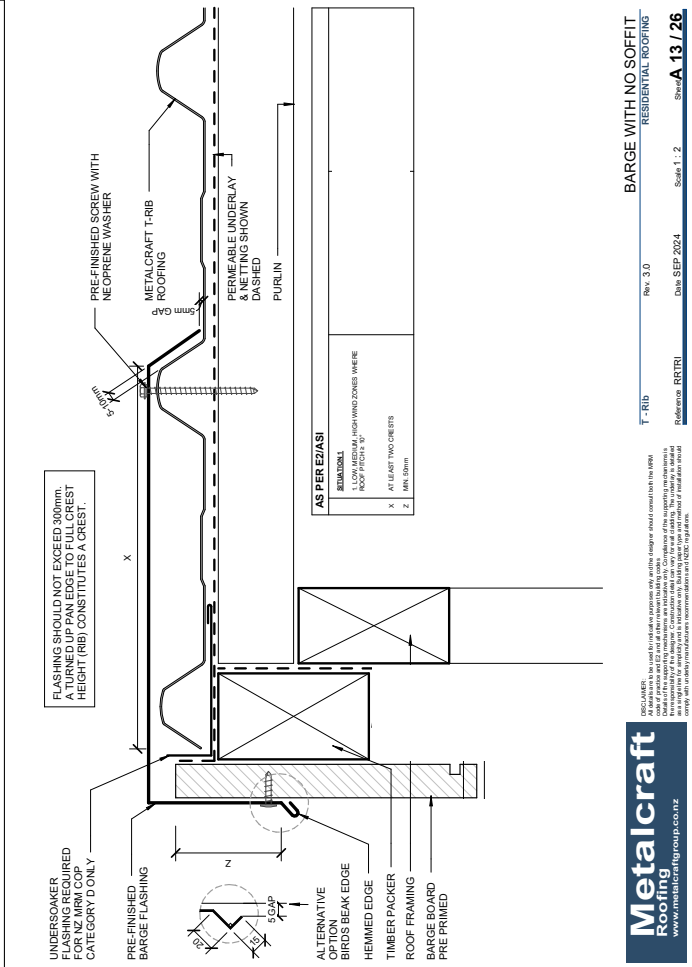
Metalcraft
Roofing
www.metalcraftgroup.co.nz

3D RIDGE TO BARGE JUNCTION
Rev. 3.0
Date SEP 2024
Scale 1: 5
Sheet A 20 / 26
Reference: RTRTI



Metalcraft
Roofing
www.metalcraftgroup.co.nz

PIPE PENETRATION BACK TRAY BOOT FLASHING
Rev. 3.0
Date SEP 2024
Scale 1: 5
Sheet A 19 / 26
Reference: RTRTI



Metalcraft
Roofing
www.metalcraftgroup.co.nz

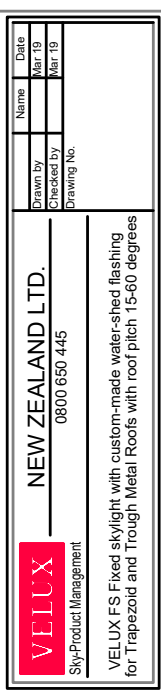
BARGE WITH NO SOFFIT
Rev. 3.0
Date SEP 2024
Scale 1: 2
Sheet A 13 / 26
Reference: RTRTI

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kabboy@hotmail.com

PROPOSED HOUSE AT 4 CORRAVALLY RISE, WEST MELTON LOT: 748 DP:609617
798M², FOR BARRY & CO LIMITED, RC:26205

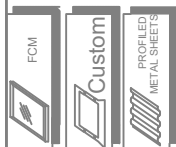
SHEET 28		CONSSENT PLANS	
DRAWN	KELVIN BOYD	DATE	SEP 2025
REVISION NO.		REV.	21 APRIL 2026
AS SHOWN		AS SHOWN	
Scale in A3 size		Scale in A3 size	
OF		OF	
REF		REF	

SDC - Approved Building Consent Document - BC260811 - Pg 34 of 61 - 23/04/2026 - cherie.newman

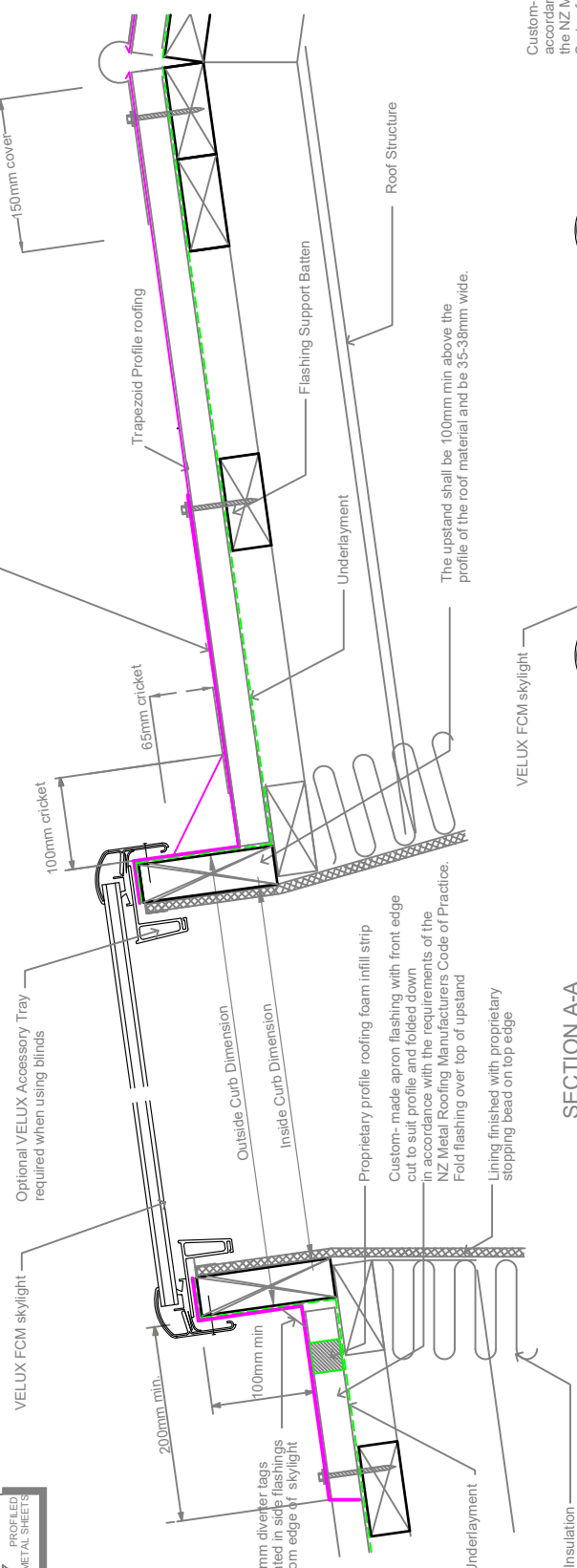


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kabboyd@hotmail.com

CONSENT PLANS		SHEET 29	
DRAWN	DATE	Scale in A3 size	SERIES
KELVIN BOYO	SEP 2025	AS SHOWN	OF
REVISION NO.	REV. 21 APRIL 2026	REF	



THIS DETAIL APPLIES TO METAL TRAPEZOID AND TROUGH ROOF PROFILES WITH ROOFPITCHES BETWEEN 3 AND 60 DEGREES.

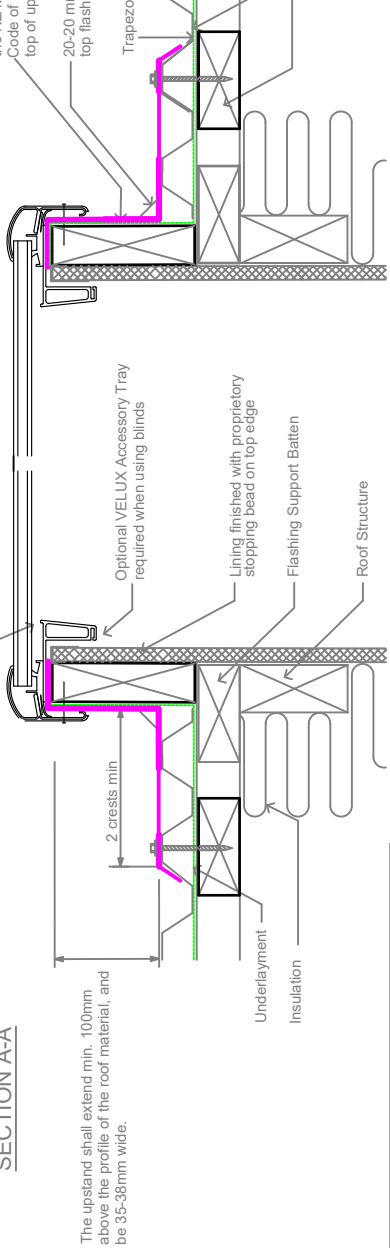


ELEVATION

Custom-made flashing in accordance with New Zealand Metal Roofing Manufacturers Code of Practice. Ensure all flashings meet the requirements for your projects' location.

Please note:
Below 15 degrees:- Any condensation that forms on the glass due to high humidity may drip

SECTION A-A



Custom-made flashing in accordance with the requirements of the NZ Metal Roofing Manufacturers Code of Practice. Fold flashing over top of upstand

20-20 mm diverter tags integrated in top flashing to top sides of skylight

Trapezoid Profile roofing

Optional VELUX Accessory Tray required when using blinds

Lining finished with proprietary stopping bead on top edge

Flashing Support Batten

Roof Structure

BRANZ APPRAISED CUSTOM WATER-SHED FLASHING

No cricket or diverter required when skylight is less than 600mm wide, and catchment less than 40 sqm. Custom flashings must be designed to meet the requirements set out in the latest version of the New Zealand Metal Roof and Wall Cladding Code of Practice, and shall be manufactured and installed by a specialist flashing contractor to the latest trade practices.

The flashing and installation must be guaranteed against weathertightness by the specialist flashing contractor. Insulation material meeting the requirements of NZBC/H1 is required in the cavities of the lightweight structure.

SECTION B-B



VELUX is a registered trademark

NEW ZEALAND LTD.

0800 650 445

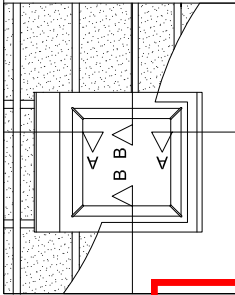
SkyProduct Management

VELUX Low Pitch Fixed Skylight in Trapezoidal Steel Roof with metal water-shed flashing (3-60 degrees)

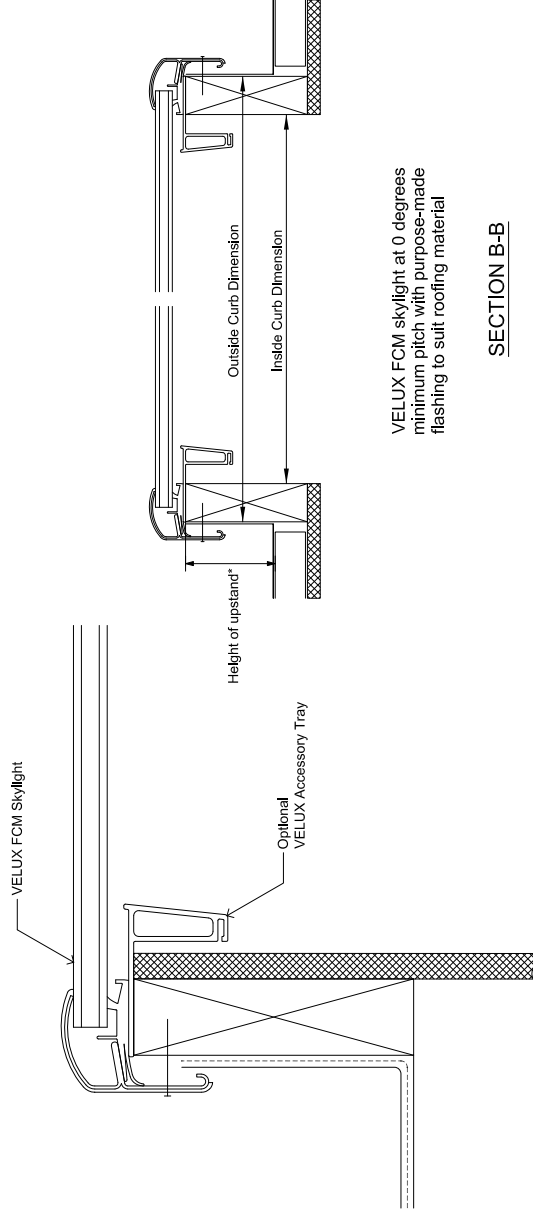
Drawn by	Name	Date
Feb 19		

Checked by	Drawing No.
Feb 19	

Please note:
Below 15 degrees:
- Any condensation that forms on the glass due to high humidity may drip
- Standing water and dirt left on the glass over time may cause smudging and corrosion on the glass



ELEVATION



VELUX FCM skylight at 0 degrees minimum pitch with purpose-made flashing to suit roofing material

SECTION B-B

* The upstand shall be the greater of 110 mm or the minimum requirements as set out in the Approved Document for New Zealand Building Code - External Moisture, clause E2

All flashing for FCM skylight are to be purpose-made to suit the roofing material, and subject to Approved Document for NZ Building Code - External Moisture, clause E2

PRODUCT DIMENSIONS		
METRIC UNITS (MILLIMETERS)		
SIZE	OUTSIDE CURB DIMENSION	INSIDE CURB DIMENSION
2222	649 x 649	572 x 572
2246	648 x 1257	572 x 1181
2270	648 x 1867	572 x 1791
3030	851 x 851	775 x 775
3434	952 x 952	876 x 876
4646	1257 x 1257	1181 x 1181

VELUX Sky-Product Management	NEW ZEALAND LTD. 0800 650 445	Drawn by Checked by Drawing No.	Name Date May 12 May 12
FCM Skylight general installation details			

This drawing is an instrument of service and is provided for informational use only.
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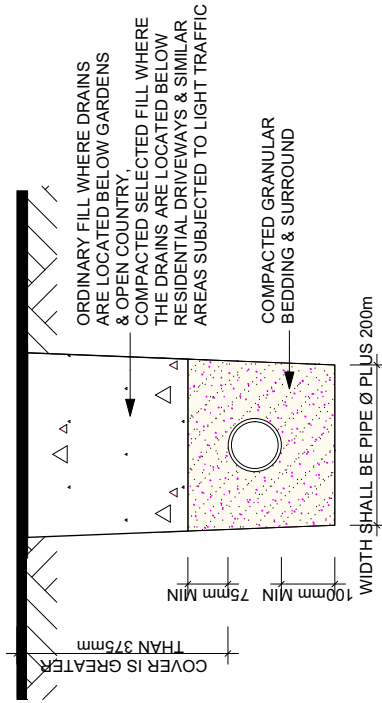
Kelvin Boyd
Architectural Services Limited
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Christchurch
PH: 0211790346
kabboyd@hotmail.com

PROPOSED HOUSE AT 4 CORRAVALLY RISE, WEST MELTON LOT: 748 DP:609617
798M², FOR BARRY & CO LIMITED, RC:26205

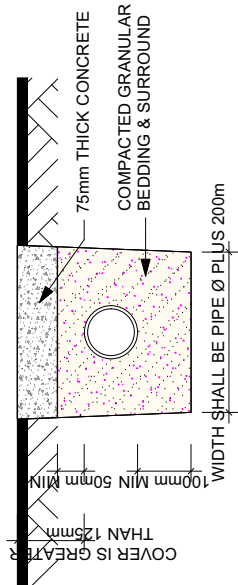
CONSENT PLANS

DRAWN	KELVIN BOYD	DATE	SEP 2025	Scale in A3 size	AS SHOWN	SERIES	OF
REVISION NO.		REV	21 APRIL 2026			REF	

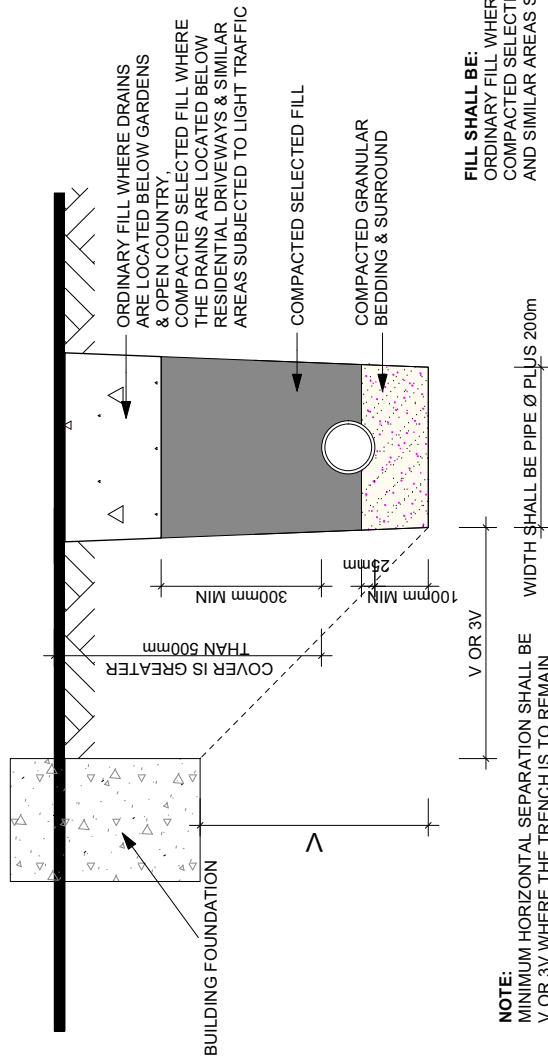
SHEET 31



COVER GREATER THAN 375mm



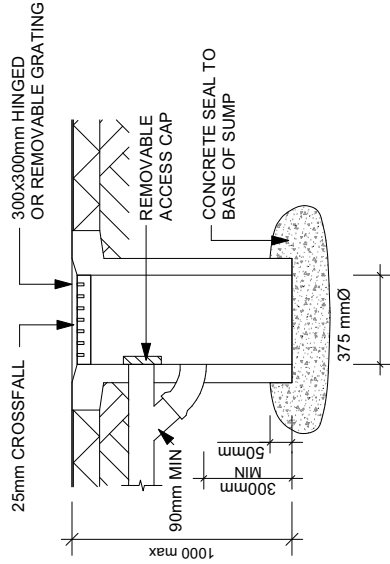
COVER GREATER THAN 125mm



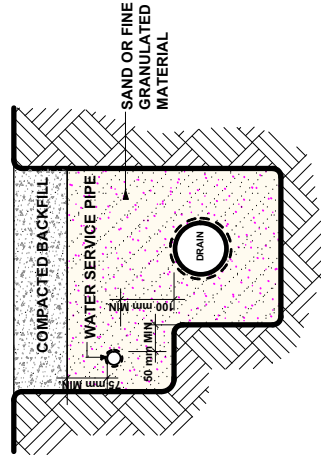
NOTE:
MINIMUM HORIZONTAL SEPARATION SHALL BE V OR 3V WHERE THE TRENCH IS TO REMAIN OPEN FOR PERIODS LONGER THAN 48 HOURS

FILL SHALL BE:
ORDINARY FILL WHERE DRAINS ARE LOCATED BELOW GARDENS AND OPEN COUNTRY.
COMPACTED SELECTED FILL WHERE THE DRAINS ARE LOCATED BELOW RESIDENTIAL DRIVEWAYS & SIMILAR AREAS SUBJECTED TO LIGHT TRAFFIC.

COVER GREATER THAN 500mm

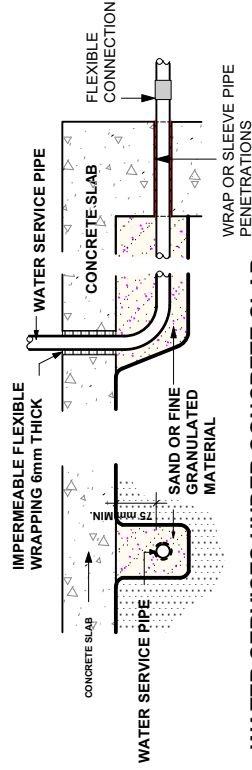


TYPE-ONE SURFACE WATER SUMP



SHARED TRENCH FOR WATER SERVICE PIPE AND DRAIN

SCALE 1:5



WATER SERVICES UNDER CONCRETE SLAB

SCALE 1:5

NOTE: PIPES UNDER SLABS SHOULD BE DUCTED OR SLEEVED TO ALLOW FOR DETECTION OF LEAKS AND FOR REPAIR OR REPLACEMENT.

FILL SHALL BE:
ORDINARY FILL WHERE DRAINS ARE LOCATED BELOW GARDENS AND OPEN COUNTRY.
COMPACTED SELECTED FILL WHERE THE DRAINS ARE LOCATED BELOW RESIDENTIAL DRIVEWAYS AND SIMILAR AREAS SUBJECTED TO LIGHT TRAFFIC.

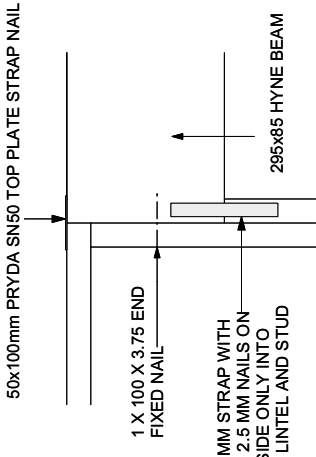
Kelvin Boyd
Architectural Services Limited
196 Halkett Road, West Melton
Christchurch
PH: 0211790346
kabboid@hotmail.com

PROPOSED HOUSE AT 4 CORRAVALLY RISE, WEST MELTON LOT: 748 DP:609617
798M², FOR BARRY & CO LIMITED, RC:26205

CONSENT PLANS

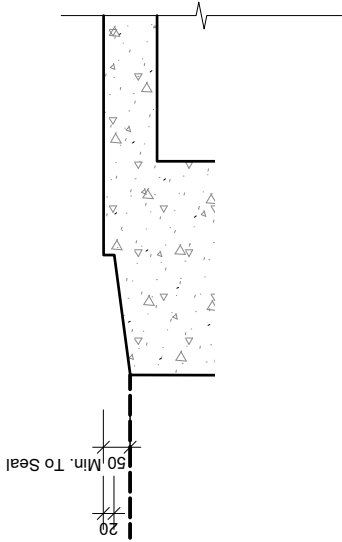
DRAWN	KELVIN BOYD	DATE	SEP 2025	Scale in A3 size	SERIES	OF
REVISION NO.		REV	21 APRIL 2026	AS SHOWN	AS SHOWN	REF

SHEET
AD1



FIXING OF LINTELS TO PREVENT UPLIFT.

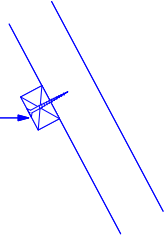
SCALE 1:10



GARAGE DOOR FOUNDATION DETAIL

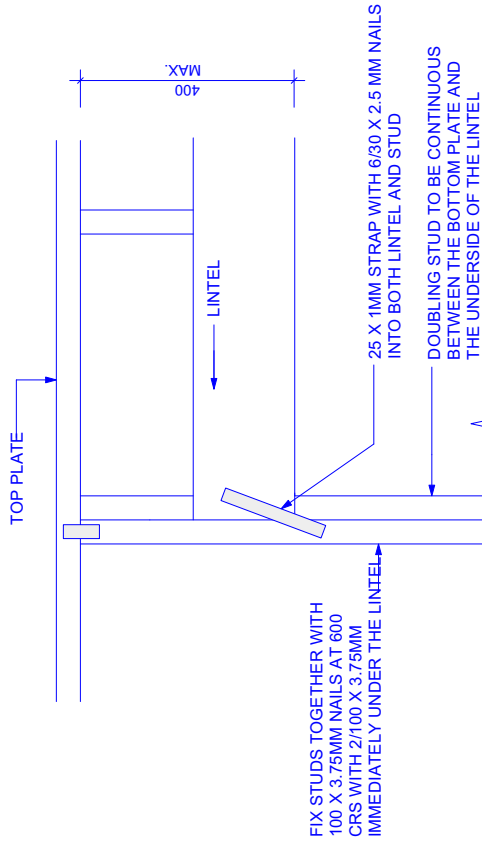
SCALE 1:10

PURLINS SPANNING UP TO 1200mm
FIXED TO TRUSS CHORD
WITH 1/10gSELF DRILLING SCREW
80mm LONG



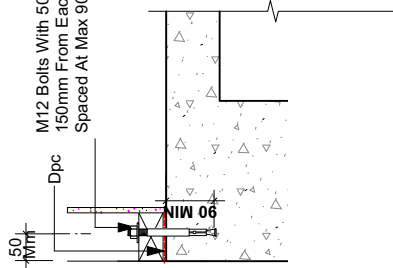
**PURLIN FIXINGS (ON THEIR FLAT)
FOR LIGHT ROOF
ALL WIND ZONES**

SCALE 1:10



FIX STUDS TOGETHER WITH
100 X 3.75MM NAILS AT 600
CRS WITH 2/100 X 3.75MM
IMMEDIATELY UNDER THE LINTEL

M12 Bolts With 50 X 50 X 3 Washers
150mm From Each End Of The Plate
Spaced At Max 900mm CRS,



BOTTOM PLATE FIXING

Scale 1:10

25 X 1MM STRAP TAKEN UNDER
PLATE AND 150 UP EACH SIDE
OF STUD WITH 6/30 X 2.5MM
NAILS INTO EACH SIDE OF STUD

**FIXING OF LINTEL TO
PREVENT UPLIFT.**

SCALE 1:10

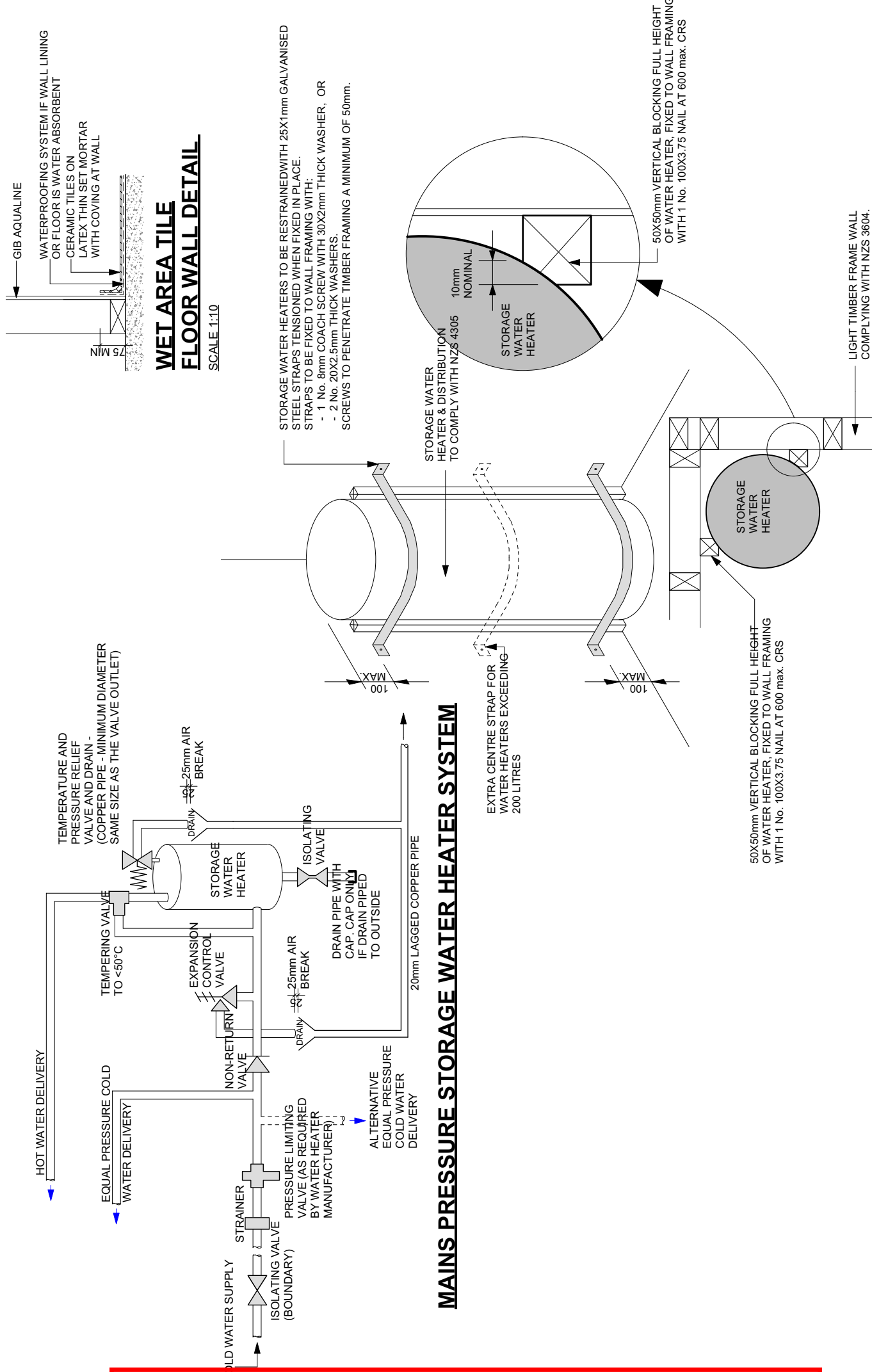
**Kelvin
Boyd**
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kabboid@hotmail.com

PROPOSED HOUSE AT 4 CORRAVALLY RISE, WEST MELTON LOT: 748 DP:609617
798M², FOR BARRY & CO LIMITED, RC:26205

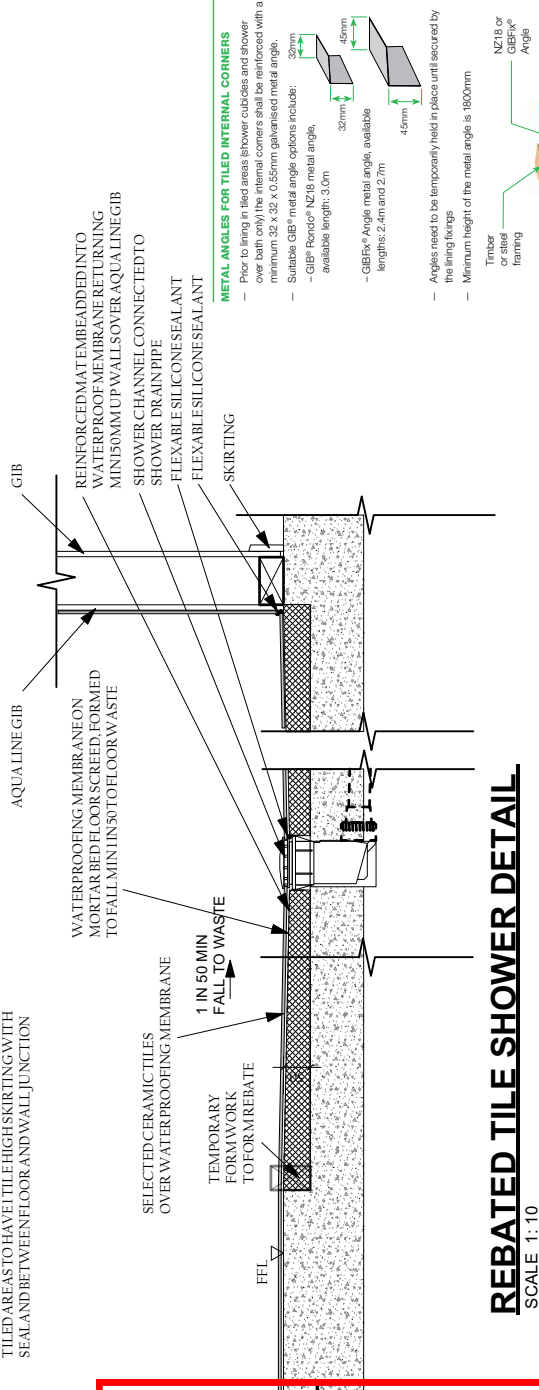
CONSENT PLANS

DRAWN	KELVIN BOYD	DATE	SEP 2025	Scale in A3 size	AS SHOWN	SERIES	OF
REVISION NO.		REV	21 APRIL 2026				REF

SHEET
AD2

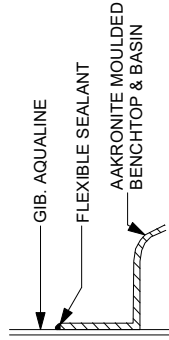


SDC - Approved Building Consent Documentation - BC260871 - Pg 40 of 61 - 23/04/2026 - chorio.newman



REBATED TILE SHOWER DETAIL

SCALE 1:10



BATHING/VANITY JUNCTION DETAIL

SCALE = 1:10

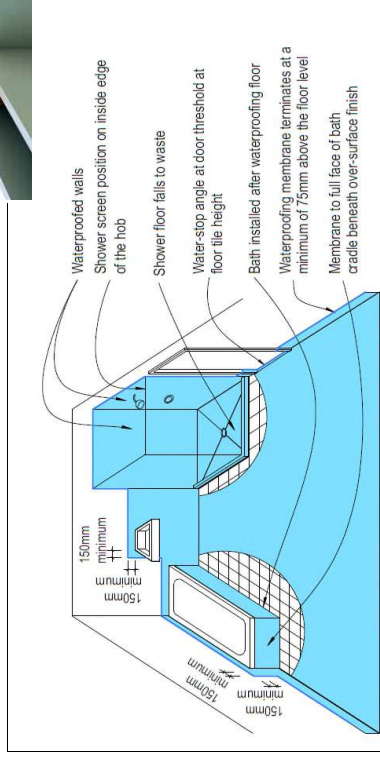


Figure 10: Typical extent of membrane in bathroom with hob to shower area

Notes:

1. Shower area shown with waterproof membrane system to provide waterproofing to floor and walls, and with rigid screen and door. Refer to JG 10 (p.33) for other options which affect the extent of membrane to shower floor, and to walls around and adjacent to the shower area.
(notes continued on next page)
2. Built-in bath shown. For both built-in and freestanding baths, the waterproof membrane system must extend under bath and up the wall(s) behind.

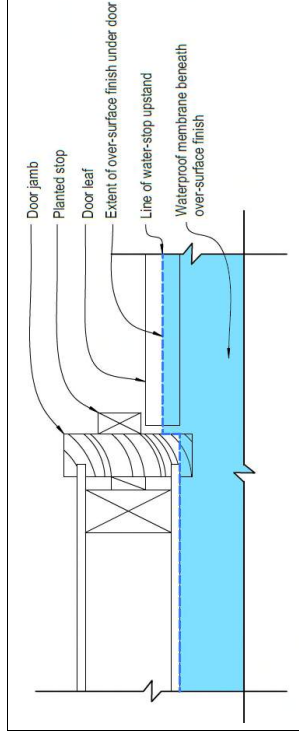


Figure 18: Plan view of water-stop under door jamb

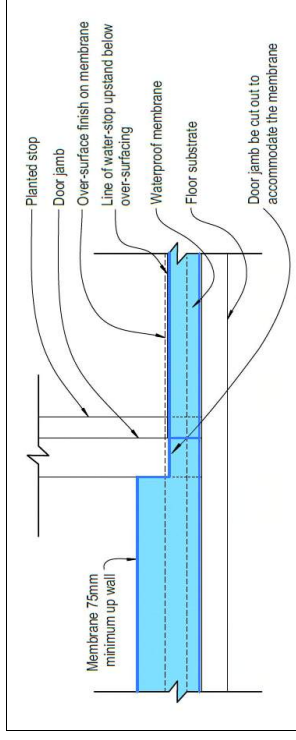


Figure 19: Elevation/edge of door jamb with water-stop under door

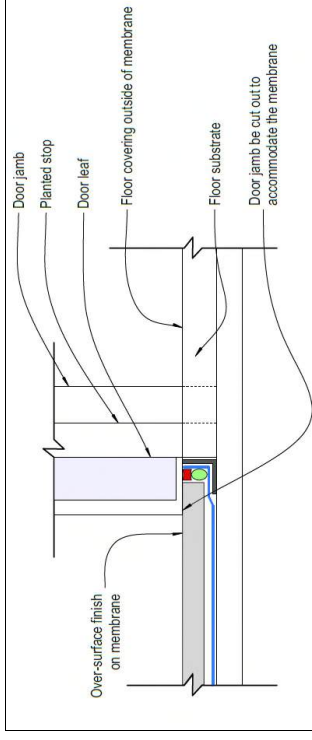


Figure 20: Face of door jamb with water-stop under door
(drawing notes on next page)

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PROPOSED HOUSE AT 4 CORRAVALLY RISE, WEST MELTON LOT: 748 DP:609617
798M² FOR BARRY & CO LIMITED. RC:26205

CONSENT PLANS

DRAWN	KELVIN BOYD	DATE	SEP 2025	Scale in A3 size AS SHOWN	SERIES	OF
REVISION NO		REV	21 APRIL 2026		REF	

Proposed Building	Area (m ²)	Proposed Building Heat Loss (W/K)
Element 2's	232.0	114.9
Slab in 2's	0.0	0.0
Other doors	0.0	0.0
Roof	232.0	31.6
Windows	0.9	2.5
Swirls	151.6	45.6
GDing (walls & doors)	57.0	114.1
GDing (skirre)	1.8	1.3

Comparison of proposed building against the reference building

Red Building Consent Document - B

CIB internal garage wall	2.32	m ² ·°C/W
Type: Timber Frame with vented Cavity		
Timber Frame with vented Cavity	view detail	
external surface 0.03		
Cladding : generic - Gypsum plasterboard 10mm into still air (garage, etc.)		
R-value: 0.10		
Air Barrier : generic - none		
R-value: 0.00		
Timber Frame & Cavity : 90mm, studs @ 600mm, dwards @ 800mm		
Wall Frame Area 14.4%		
150mm vented cavity (all R-values on ext. side of cavity will be halved), R: 0.08		
Framing		
R-value: 0.75		
Pink(c)Batis(c) Ultra R2.9 90mm Wall		
still Airtgap: none		
R-value: 0.00		
Wall Lining : generic - gypsum Plasterboard 10mm		
R-value: 0.04		
internal surface 0.09		
Construction R-value calculated by DesignNavigator ©		

Cedar cladding				3.26	m ² /CW
Type: Timber Frame with vented Cavity					
Timber Frame with vented Cavity	view detail				
	external surface 0.03				
	Cladding : generic - Weatherboard Rusticated or Shiplap				
	R-value: 0.16				
	Air Barrier : generic - Building paper				
	R-value: 0.01				
	Timber Frame & Cavity : 140mm, studs @ 600mm, dwangs @ 480mm				
	Wall Frame Area: 17.9%				
	15-90mm vented cavity (all R-values on ext. side of cavity will be halved), R: 0.08				
	Framing :				
	R-value: 1.17				
	Wall Lining : generic - gypsum Plasterboard 10mm				
	R-value: 0.04				
	internal surface 0.09				

Construction R-value calculated by DesignNavigator ©

ceiling Rv.0 insulation Roof: Timber framed truss Roof, suspended Ceiling Timber framed Roof, suspended Ceiling	7.24 m ² CW
external surface 0.03 Roofing : generic - Metal impoecodal iron with building paper R-value: 0.01	▶
Insulation : Timber Frame & Cavity : 90mm rafters or joists @ 900mm, battens covered with insulation	▶
Roof space (cell air) 0.11 R-value: 0.75	▶
Pink(G)Batts(G) Superiorbatts Rv.0 Ceiling - 450mm wide Insulation covering bottom chord ☒	▶
When using this option make sure that the insulation product is suitable - typically manufactured at 400mm width	▶
air gap (between 95-200mm) 0.15	▶
Ceiling Lining : generic - gypsum Plasterboard 12mm R-value: 0.06 internal surface 0.09	▶
Non-IC-rated recessed downlights Clearance from lamp holder side (m):	1.1
Ceiling Area (m ²): 232 Number of downlights:	1.1
Construction R-value calculated by DesignWingspace ©	

**Kelvin
Boyd**
Architectural Services Limited
196 Halkett Road, West Melton
Christchurch
PH: 0211790346
kaboyd@hotmail.com

✓ Most extensive range of Dektites for flashing penetrations 0 - 510mm, available in black and grey EPDM and silicone red for high temperatures.

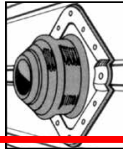
✓ Designed to enable practically any pipe flashing operation to be carried out within minutes, simple to install and very effective.

The low profile cone not only looks good but provides a generous internal clearance, so even the steepest roofs are handled with ease. Suitable for flashing pipes that penetrate wall claddings.

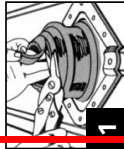
Can also be used to flash square penetrations. Just add 30% to the pipe diameter and trim the cone to suit.



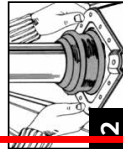
Installation Instructions:



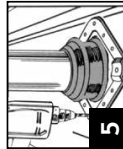
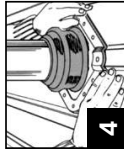
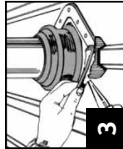
NOTE:
For more effective drainage, always fit the Dektite on the down side of the roof. Dektites are suitable for flashing pipes that penetrate wall claddings.



Press base to the roof surface. Ensure the Dektite is flush and free of any air pockets. Do not fully extend to allow for vibration.

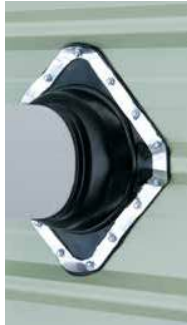


Fasten using self-drilling washers and nuts. Fit fasteners progressively outward from the center to avoid gaps.



CODE: BLACK EPDM	CODE: GREY EPDM	CODE: RED SILICONE	BASE (MM)	PIPE (MM)	ROOF PITCH
DFE10A8			71 x 71	0-20	
DFE100B	DFE100G		100 x 100	0-35	Up to 60° See foot note
DFE100B5*		DFE200RES	100 x 100	0-35	
DFE101B	DFE101G		139 x 139	5-55	
DFE101B5*		DFE201RES	139 x 139	5-55	
DFE102BA	DFE102GA	DFE202REA	181 x 181	50-70	
DFE103B	DFE103G	DFE203RE	218 x 218	5-127	
DFE104B	DFE104G	DFE204RE	279 x 279	75-175	Up to 45° See foot note
DFE105B	DFE105G	DFE205RE	309 x 309	100-200	
DFE106B	DFE106G	DFE206RE	363 x 363	125-230	
DFE107B	DFE107G	DFE207RE	456 x 456	150-300	
DFE108B	DFE108G	DFE208RE	495 x 495	170-355	
DFE109B	DFE109G	DFE209RE	680 x 680	230-508	

* DFE100B5 and DFE101B5 both have multiple cable nipples



Can a Dektite flash a square pipe? YES!

100mm Round



100mm Square



Circumference = 314mm

Perimeter = 400mm

Difference = Approx. 30%

Therefore, to suit square pipes/standions add 30% to the diameter of the pipe and cut accordingly.

**100mm x 30% = 130mm
to suit a square**

NOTE: Refer to page 7 for guide to Dektite square penetrations from 20mm - 125mm.

LUCCA
Freestanding Bath
LEVLUCL6X8



Features:

- Twin skin construction
- 20mm wide top edge
- Rectangular style with rounded ends
- Back to wall style
- 110mm wide back platform with 20mm flange
- Fibreglass and board reinforced base
- 4 independent leveling feet
- Centre waste

Specifications:

- Lucite sanitary grade acrylic
- Tile upstand 20mm
- 254 litre capacity
- Internal depth 450mm

Colour:

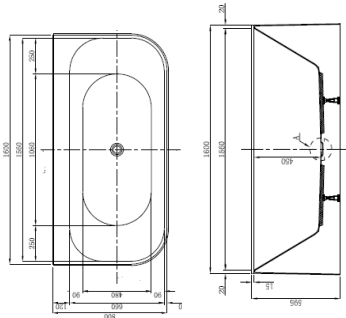
- White

Size:

1600 x 800 x 595mm

Warranty:

- 10 years



ACCESSORIES, WASTE AND TAPWARE NOT INCLUDED UNLESS STATED. PLEASE NOTE MEASUREMENTS ARE NOMINAL ONLY. PLEASE MEASURE PRODUCT ON SITE. ACTUAL COLOUR MAY VARY

Branches Nationwide. Freephone 0800 600 666.
www.plumbingworld.co.nz

exclusive to
plumbingworld

GIB EzyBrace® Systems specification GS1-N

Specification code	Minimum length (m)	Lining requirement
GS1-N	0.4	Any 10mm or 13mm GIB® Standard plasterboard to one side only

WALL FRAMING

Wall framing to comply with:

For permitted GIB® plasterboard alternatives refer to p. 5 in GIB EzvBrace® Systems literature.

FASTENING THE LINING

Fasteners

(NZS 3602).

Framing dimensions and height as determined by NZS 3604:2011 stud and top plate tables for load bearing 32mm x 6g GIB® Grabber® High Thread Screws, 32mm x 7g GIB® Grabber® Dual Thread Screws or 30mm GIB® Nails. If using the GIBFx® Angle use only 32mm x 7g GIB® Grabber® Dual Thread Screws.

Fastener centres

BOTTOM DI ATE DIVING

BOTTOM PLATE FIXING

Timber floor

Pairs of hand driven 100 x 3.75mm nails at 600mm centres; three power driven 90 x 3.15mm nails at 600mm centres.

150mm thereafter around the perimeter of the bracing element.

For vertically fixed sheets place fasteners at 300mm maximum centres to intermediate sheet joints. For horizontally fixed

Concrete floor

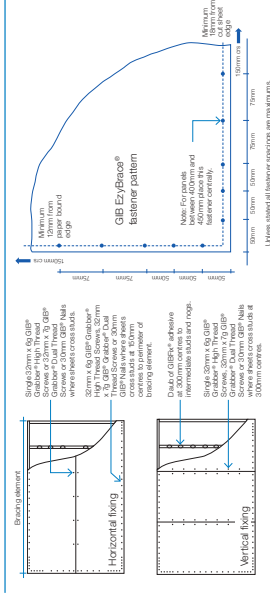
Internal Wall Bracing Lines: In accordance with the requirements of NZS 3604:2011 for internal wall plate fixing or 75 x 3,8mm shot fired fasteners with 16mm discs spaced at 150mm and maximum centres to intermediate studs. Place fasteners no closer than 12mm from paper bound sheet edges and 18mm from any sheet end or cut edge.

JOINTING

External Wall Bracing Lines: In accordance with the requirements of NZS 3604:2011 for external wall bottom plate fixing.

- Any 10mm or

- Sheets can be fixed vertically or horizontally.
- Sheet joints shall be touch fitted.
- Use full length sheets where possible.

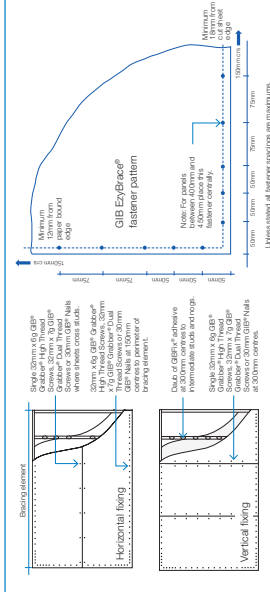


In order for QIB® systems to perform as intended, all components must be installed exactly as prescribed. Substituting components produces an entirely different system and may seriously compromise performance. Follow the specifications. The specification sheet is saved in conjunction with the publication QIB Easy-Build® systems.

AUGUST 2016

CALL OUR HELPLINE 0800 100 442 OR VISIT GIB.CO.NZ FOR MORE INFO

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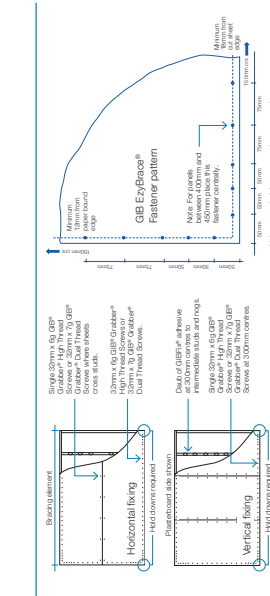


In order for GSP® systems to perform as tested, all components must be installed exactly as prescribed. Substituting components produces an entirely different system and may seriously compromise performance. Follow the specifications. This specification sheet is issued in conjunction with the publication GSP Ezy-Basic Systems.

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AUGUST 2016



In order for GSE systems to perform as listed, all components must be installed exactly as prescribed. Substituting component's produces an entirely different system and may adversely compromise performance. Follow the specifications. This specification sheet is issued in conjunction with the publication GSE Excellence.

CALL OUR HELPLINE 0800 100 442 OR VISIT GIB.CO.NZ FOR MORE INFO

AUGUST 2016



UNITRAY SAFE TRAY SYSTEM EXPLAINED

The UNITRAY Safe Tray System is made from lightweight, UV resistant, high performance polyethylene (HDPE) 1050 and meets the performance requirements of BS EN 12460. The safe tray is manufactured to a standard of 1000mm internal diameter and is available in 3 sizes:

- 1000mm internal diameter
- 1200mm internal diameter
- 1500mm internal diameter



BASE PRODUCT

The safe tray can be supported on 6 x 100mm high leveling posts. The location of the drainage waste and associated plumbing can be installed directly on a stable, flat surface. This safe tray may be used in a wide range of applications, internally depending on the placement of the hot water tank (HWC).

FINISH ACCESSORIES

The safe tray can be finished with a 1000mm diameter outlet of the UNITRAY Safe Tray System complete with a tundish assembly. This consists of 3 easily installed parts, plus optional adaptors, if required, to suit the relevant drain pipe. The tundish assembly is designed to prevent any backflow of water into the drain pipe with regulated air gap is located at the tray outlet. It is also equipped with a 1000mm diameter drain pipe. This is for the siphoning of water back into the HWC and provides a visible indication of correct functioning of relief drains.

OPTIONAL ACCESSORIES

The UNITRAY Safe Tray System is a safe tray system and back support specifically for use with HWC that utilizes a controlled tank drain function to collect and drain any accidental overflow.

OUR TRAY

The UNITRAY Safe Tray System is a safe tray system and back support specifically for use with HWC that utilizes a controlled tank drain function to collect and drain any accidental overflow.

SCOPE OF USE

Buildings where the floor has been designed to support the applied loadings, where a water supply system and drainage system has been installed to Building code.

Buildings where a drainage system has been installed that meets the requirements of New Zealand Building Code G3.

Overlaid protection to neighbouring properties is required.

The HWC is connected to a cold water supply source.

By signing this paste*, the signatory confirms that the product described by this paste* complies with the requirements of the Building Act 2004.

FURTHER INFORMATION

For further information please contact:
 Phone: 021 365 130
 info@unitray.co.nz
www.unitray.co.nz

VERSION:

Rev 1 - 20/06/2016 - 1st printed version

DATE:

Name:

Position:

Signed on behalf of:
 Unitray NZ Ltd.

info@unitray.co.nz | 021 365 130 | www.unitray.co.nz

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LIMITATIONS OF USE			USEFUL INFORMATION		
- UNTRAY accepts either 15mm or 20mm relief drains depending on HWC model. - UNTRAY is designed to be installed in a HWC of up to 400 kg (restricted to an AWC of 315 L). - The UNTRAY must be installed by a registered plumber/gas fitter in accordance with UNTRAY Design & Installation Guide. - The UNTRAY Safe Tray System is not suitable for use where the HWC is connected to a wet back.			UNTRAY has the following documents to assist in the specification, installation and use of UNTRAY: - UNTRAY Design & Installation Guide - UNTRAY Installation A-A Glance - UNTRAY Care & Maintenance - UNTRAY Warranty www.untray.co.nz		
PERFORMANCE CLAIMS			The specified, installed and maintained in accordance with the all UNTRAY Safe Tray System requirements, the UNTRAY Safe Tray System will meet the following performance claims:		
NZBC Clause		Compliance	Alternative solution	Relevance	Basis of compliance
B1 Structure	B1.3.2	2: 1405/19 (b), June 2014	Report Bas		To determine carrying capacity of the UNTRAY through the design of the UNTRAY Safe Tray System. Underground Storage Tanks
	B1.3.3(a, b, c, e, f, i, & j)	2: 1405/19 (b), June 2014	Report Bas		
B2 Durability	B2.1(a, c)	2: 1405/19 (b), June 2014	Alternative solution	Report Specialist	To determine the durability of the UNTRAY through the design of the UNTRAY Safe Tray System. Comparison with BS EN 1778-2:2000 Characteristic values for polypropylene based construction
	B2.2.2(a)	2: 1405/19 (b), June 2014	Alternative solution	Report Specialist	
Internal Moisture	E3.3.2	2: 1405/19 (b), June 2014	Acceptable solution	Report Specialist	To determine the durability of the UNTRAY through the design of the UNTRAY Safe Tray System. Comparison with BS EN 1778-2:2000 Characteristic values for polypropylene based construction
	E3.3.2	2: 1405/19 (b), June 2014	Acceptable solution	Report Specialist	
Hazardous Building Materials		2: 1405/19 (b), June 2014	Alternative solution	Report Specialist	To determine the durability of the UNTRAY through the design of the UNTRAY Safe Tray System. Comparison with BS EN 1778-2:2000 Characteristic values for polypropylene based construction
Hot Water		2: 1405/19 (b), June 2014	Acceptable solution	Report Specialist	
G3.3.1(a, b, & c)		2: 1405/19 (b), June 2014	Acceptable solution	Report Specialist	To determine the durability of the UNTRAY through the design of the UNTRAY Safe Tray System. Comparison with BS EN 1778-2:2000 Characteristic values for polypropylene based construction
G3.3.1(a, b, & c)		2: 1405/19 (b), June 2014	Acceptable solution	Report Specialist	

SOURCES OF INFORMATION

- AS/NZS 3500.2 Plumbing and Drainage
- BS EN 1778:2000 Characteristic values for welded thermoplastic Determination of allowable stresses and strains for design of thermoplastic equipment
- Leap Pty Ltd. Test report 140519.D, Static & Creep Analysis
- May 2014
- Mal Product Development (Pty) Ltd. (Pty) Ltd. 20 April 2017
- Standard and installation during HWC failure

info@untray.co.nz | 021 365 130 | www.untray.co.nz

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[illegible]



SUPERCURE ULTRA

Densifier — Hybrid Silicate, High Solid

For Opened/Porous Concrete

Water-Based

SUPERCURE ULTRA is a water-based (WB), **high solid**, ready to use concrete densifier. It contains 3 different sized molecule silicates to allow for full penetration for a variety of concrete densities. **It significantly increases the concrete durability** from traffic wear, improves surface density and hardness to provide dust proofing.

PRODUCT DESCRIPTION

SUPERCURE ULTRA is a blend of reactive silicates and additives providing enhanced densification and stain resistance with easy to use hybrid silicate densifiers. **SUPERCURE ULTRA** high solids formula, is ideal for use on open, or porous concrete that will readily accept densifier (for non-porous floors use **SUPERCURE PLUS**) and works equally well on both new and old concrete. **SUPERCURE ULTRA** is especially effective at resisting stains when used in conjunction with any of the **SUPERSHIELD** Stain Protector range.

USES

SUPERCURE ULTRA can be used by itself or with other Holer dyes and stain protectors.

- Hardens concrete surfaces
- Prepares surface for high gloss diamond polishing
- Locks in dyes for longer lasting colour
- Improves resistance to staining
- Improves scratch resistance

- ✓ Improves Density
- ✓ Increases Durability
- ✓ Stain Protection
- ✓ Higher Clarity and Shine

www.holer.co.nz



Ready to use

VOC Compliant (0g/L)

Contains UV Stabilisers

Indoor & outdoor use

Use in conjunction with **SUPERSHIELD PLUS** and **SUPERSHIELD ULTRA**



SUPERCURE ULTRA

Densifier — Hybrid Silicate, High Solid

HOW TO USE FOR POLISHED CONCRETE:

- Perform main grind using up to #200 metal or resin bond diamond.
- Remove all dust and debris with dry vac or scrubber/dryer with cleaning pad and fresh water. Allow to dry.
- Spray **SUPERCURE ULTRA** with overlapping circular motion. Use Micro-fibre mop to spread evenly on surface. Product does not need vigorous scrubbing-in and will not form a gel. As product is absorbed into surface, apply additional product as needed until floor starts to reject the product. Keep floor wet for 15 minutes, spreading with mop to avoid puddles. Allow to dry.
- Optional: Apply additional light application (after #400) using Micro-fibre mop.
- Clean tools and equipment with fresh water before product dries. Overspray and unprotected surfaces should be immediately washed off with fresh water. Allow to dry.
- Polish to the desired grit level.
- Apply Holer **SUPERSHIELD** or **SUPERSHIELD PLUS**, followed by **SUPERSHIELD ULTRA** following manufacturer's instructions to complete protection and enhance appearance.
- Surface should be cleaned regularly using a scrubber/dryer, fitted with #1500 or #3000 diamond impregnated pad and water or Holer Quad Clean (Multipurpose Rejuvenating Cleaner), according to manufacturer's directions.

HOW TO USE WITH HIGHSPEED BURNISHING SYSTEM

- Auto scrub with clean water
- Apply first application of densifier while maintaining wet edge
- Spread evenly with micro-fibre mop.
- Allow to dry
- High speed burnish with a #800 diamond impregnated pad
- Apply second application of densifier
- High speed burnish with a #1500 or #3000 diamond impregnated pad
- Apply Holer **SUPERSHIELD** or **SUPERSHIELD PLUS**, followed by **SUPERSHIELD ULTRA** following manufacturer's instructions to complete protection and enhance appearance.
- Surface should be cleaned regularly using a scrubber/dryer, fitted with #1500 or #3000 diamond impregnated pad and water or Holer Quad Clean (Multipurpose Rejuvenating Cleaner), according to manufacturer's directions.

CLEAN UP

SUPERCURE ULTRA washes up quickly with soap and water.

SAFETY PRECAUTIONS

WARNING: Before using or handling this material, read the Material Safety Data Sheet (MSDS) and the Holer Safety Data Sheet and Warranty. **EYE SKIN AND GASTRO-INTESTINAL TRACT AND RESPIRATORY TRACT IRRITANT.** Avoid contact with eyes, skin and clothing. Avoid breathing vapours or mists generated by this product. Use appropriate eye protection, and chemical-resistant gloves.

Material is not flammable, but if exposed to fire material may produce irritating vapours and toxic gases (e.g. carbon dioxides and peroxides). **KEEP OUT OF REACH OF CHILDREN. DO NOT TAKE INTERNALLY.**

FIRST AID

Ingestion: CALL PHYSICIAN OR POISON CONTROL CENTER FOR MOST CURRENT INFORMATION. If professional advice is not available, DO NOT INDUCE VOMITING. If victim is convulsing, maintain an open airway and obtain immediate medical attention.

Eye Contact: Rinse eyes under gently running water. Use sufficient force to open eyelids and then "roll" eyes while flushing. Flush for 15 minutes minimum. Seek medical attention if any adverse effect persists after rinsing.

Skin Contact: If adverse skin effects occur, discontinue use and flush contaminated area. Seek medical attention if adverse effect occurs after flushing.

Inhalation: Remove victim to fresh air if necessary, use artificial respiration to support vital functions. If adverse effect continues after removal to fresh air seek medical attention.

VOC COMPLIANCE

In addition, the original manufacturer's product (sold as **SUPERCURE ULTRA** Hybrid Silicate Densifier) offers VOC compliance with low VOC at 1g/L and is also compliant with national, state and district regulations: US Environmental Protection Agency California Air Resources Board SCM Districts* South Coast Air Quality Management District* Maricopa County, AZ Northeast Ozone Transport Commission

*Before application, verify product conformance with local and state codes.

TESTING

The information contained herein is provided for informational purposes only. This information is based on laboratory testing and results. Because of variations in methods, conditions and equipment, each user must test this product to make a judgement of performance. Applicator is responsible for testing material for effectiveness and performance.

DEGREE OF HAZARD

4 = EXTREME
3 = HIGH
2 = MODERATE
1 = SLIGHT
0 = INSIGNIFICANT

STORAGE

- Store dry and upright at 5-30°C
- Keep product from freezing
- Keep out of reach of children
- Seal container after use
- Do not mix with other chemicals
- 1 year shelf life

A product from Holer Diamond Tools. For more information call us on +64 (0)3 543-9750 or visit our website:

www.holer.co.nz

www.holer.co.nz

Kelvin
Boyd

196 Halkett Road, West Melton
Christchurch
PH: 0211790346
kabboid@hotmail.com

PROPOSED HOUSE AT 4 CORRAVALLY RISE, WEST MELTON LOT: 748 DP:609617
798M², FOR BARRY & CO LIMITED, RC:26205

CONSENT PLANS

REVISION NO.	DATE	SERIES	Scale in A3 size	AS SHOWN
	REV. 21 APRIL 2026	AD9		



SUPERSHIELD

Stain Protector — Wet Look

For Polished Concrete and Terrazzo

Water-Based

SUPERSHIELD is a water based (WB), ready to use, non-yellowing, **light penetrating breathable** stain protector. It leaves a **semi-topical** finish that contributes to colour enhancing and creates a **wet look** and **high gloss** finish when burnished.

The applied product creates a water resistant barrier, preventing common liquids from penetrating and staining the concrete surface. Depending on foot traffic and exposure, the applied product may require rejuvenation annually or bi-annually. Suitable for polished concrete and Terrazzo, old and new concrete (over 28 days). Do not apply if concrete is frozen, dirty or contains standing water/puddles. Surface must always be clean and dry. Indoor application only. Apply between 5–30°C ambient temperatures.

PRODUCT DESCRIPTION

SUPERSHIELD Stain Protector is a sprayable, low VOC, **fast drying water-based** product, designed to protect and beautify polished concrete and Terrazzo. **SUPERSHIELD** is water and chemical resistant, and is light penetrating with a semi-topical residue, which when burnished provides a wet look finish and may hide surface imperfections.

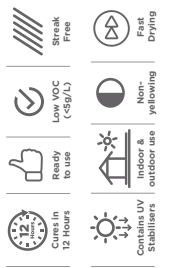
USES

SUPERSHIELD can be used on interior or exterior polished concrete, terrazzo, stone, and other surfaces. It is suitable for use on brick, natural and manufactured stone, stucco, slate, glazed tile and flagstone.

- ✓ **Light Penetrating**
- ✓ **Wet-look Colour Enhancer**
- ✓ **Stain Protection**
- ✓ **Higher Clarity and Shine**



www.holer.co.nz



Use in conjunction with **SUPERSHIELD ULTRA** and **SUPER GROUT**



SUPERSHIELD

Stain Protector — Wet Look

PREPARATION

In most cases, the product will extend protection against colour fading or dissipating, due to variables in application, maintenance, and the concrete itself.

Warning: People, property, vehicles, animals, plants, and surfaces not intended to be stain-protected should be protected from the product, splash overspray, and wind drift, using polyethylene sheeting or other proven protective material. Complete all grinding, colouring, densification and polishing before applying. Remove all dirt, debris, and contaminants. Vacuum thoroughly and clean surface with an autoscrubber and fresh water. Allow to dry thoroughly. New concrete should cure for 28 days.

DILUTION AND COVERAGE

SUPERSHIELD is shipped ready to use. On polished concrete floors, **SUPERSHIELD** will cover approximately up to 20m²/L for each application, depending on the porosity of the concrete. Test application on a small area first to determine the correct application rate. Can be diluted with water.

APPLICATION

Testing: Prior to starting project, apply product to sample area of each type of concrete to be treated. Using application procedures proposed for project. Confirm that concrete is receptive to product. (Prior densification application with **SUPERSHIELD** or **SUPERGROUT** is recommended to expand **SUPERSHIELD** coverage rates and added stain resistance).

Project Conditions: Ambient temperature during application should be 12°C–25°C. Do not apply on rainy, foggy, or extremely humid days. Excess moisture may prevent product from drying properly.

Equipment: Apply using a low pressure sprayer and microfibre mop. Ensuring surface is evenly covered with no puddles.

Application: **SUPERSHIELD** provides the best protection when applied in two light applications.

1. Spray a light mist of **SUPERSHIELD** (can be diluted with water to aid penetration) onto concrete surface, and immediately spread evenly with mop. Apply enough material to attain 100% coverage, without dry streaking or puddling.

2. High-speed burnish with #3000 diamond coated pad.

3. Optional. Apply second application to same method.

4. For ultimate protection, apply **SUPERSHIELD ULTRA** (fully penetrating) afterwards (cannot be other way round). Once tack free (more than 1 hour) high-speed burnish fitted with a #3000 diamond coated pad.

5. Chemical resistance gains strength over time. Avoid exposure to etching agents for 7 days if possible.

CLEANUP

Clean tools and equipment immediately with water. Always remove rundown and spills immediately.

NEXT STEPS

Floor is ready for light foot traffic when **SUPERSHIELD** is tack-free, ready for equipment traffic within 24 hours. **SUPERSHIELD** cures fully within seven days. However, concrete, even after becoming densified and polished, is still a porous substrate. Benefitters can take 2–6 weeks to attain full densification.

MAINTENANCE

Spills of staining agents or acidic etching agents should be cleaned immediately. Acidic etching agents (pickled juice) should be cleaned up immediately to minimise damage to surface.

Remove dust and debris with a microfibre pad or dry mop. Surface should be cleaned regularly using an automatic floor scrubber fitted with diamond coated pad #3000 and with Holer Quad Clean mixed with clean water according to manufacturer's directions. DO NOT use acidic cleansers.

SUPERSHIELD may be easily reapplied whenever deemed necessary. Reapplication at least once annually is recommended. Reapplication may be required depending on wear and usage conditions. If an improper cleaner is used, reapplication might be warranted. Clean floor thoroughly, allow to dry completely and the repeat original application instructions.

SAFETY PRECAUTIONS

WARNING: Before using or handling this material, read and understand the entire label. AVOID EYE, SKIN AND GASTRO-INTESTINAL, TRACT AND RESPIRATORY TRACT IRRITANT. Avoid contact with eyes, skin and clothing. Avoid breathing vapours or mists generated by this product. Use appropriate eye protection, and chemical-resistant gloves.

Material is not flammable, but if exposed to fire, material may produce irritating vapours and toxic fumes. In case of fire, use appropriate fire-fighting methods. KEEP OUT OF REACH OF CHILDREN. DO NOT TAKE INTERNALLY.

FIRST AID

Ingestion: CALL PHYSICIAN OR POISON CONTROL CENTER FOR MOST CURRENT INFORMATION. If professional advice is not available, DO NOT INDUCE VOMITING. If victim is convulsing, maintain an open airway. If victim is unconscious, place in recovery position. Seek medical attention if any adverse effect persists after rinsing.

Eye Contact: Rinse eyes under gently running water. Use sufficient force to open eyelids and then "roll" eyes while flushing. Flush for 15 minutes minimum. Seek medical attention if any adverse effect persists after rinsing.

Skin Contact: If adverse skin effects occur, discontinue use and flush contaminated area. Seek medical attention if irritation persists or if symptoms worsen. **Inhalation:** Remove victim to fresh air. If respiratory distress occurs, use artificial respiration to support vital functions. If adverse effect continues after removal to fresh air seek medical attention.

VOC COMPLIANCE

In addition, the original manufacturer's product (sold as SuperShield) offers VOC compliance with low VOC at <5g/L and is also compliant with national, state and district regulations: US Environmental Protection Agency

TESTING

The information contained herein is believed to be reliable. This information is based on laboratory testing and results. Because of variations in methods, conditions and materials, the manufacturer does not warrant that this product will make a judgment of performance. Application is responsible for testing material for effectiveness and performance.

DEGREE OF HAZARD

4 = EXTREME
3 = HIGH
2 = MODERATE
1 = SLIGHT
0 = INSIGNIFICANT

STORAGE

- Store dry and upright at 5–30°C
- Keep product from freezing
- Keep out of reach of children
- Seal container after use
- 1 year shelf life

A product from Holer Diamond Tools. For more information call us on 0800 64 033 543 9750 or visit our website:

www.holer.co.nz

www.holer.co.nz

Kelvin
Boyd

Architectural Services Limited

196 Halkett Road, West Melton
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PROPOSED HOUSE AT 4 CORRAVALLY RISE, WEST MELTON LOT: 748 DP:609617
798M², FOR BARRY & CO LIMITED, RC:26205

CONSENT PLANS

DRAWN	KELVIN BOYD	DATE	SEP 2025	Scale in A3 size	AS SHOWN	SERIES	OF
REVISION NO.		REV.	21 APRIL 2026				REF

SHEET
AD10

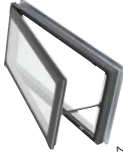
Pitched roof Skylights

VSS Solar-powered



Page 5

VS Manually operated



Page 7

FS Fixed (non-opening)



Page 9

Sun Tunnels and Roof Windows

TWR Rigid



Page 11

TWF Flexible

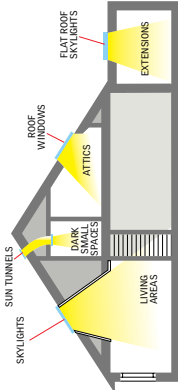


Page 11

TCR For flat roofs



Page 11



Pitched roofs



FS

Fixed (non-opening)

Suitable for pitched roofs, the FS Skylight is the perfect solution for creating light filled rooms where added ventilation is not necessary. Energy efficient glazing and the use of blinds ensure heat transference is minimised.

- White painted interior timber frame.
- Outer aluminium clappings (grey).
- Flashings to be ordered separately.
- High Performance double glazing with HEAT[®] coating on outer pane: reduces cleaning frequency.
- Smooth profile sits lower in the roof, does not obstruct the roofline.
- Available in 9 sizes.



CodeMark

Compliance

15°-90°

REGULATED TEST

FCM

Fixed (non-opening)

Suitable for flat roofs, the brilliantly simple FCM Skylight is a cost effective way to provide natural daylight to buildings with flat roofs. The High Performance double glazing provides excellent thermal insulation and has been tested for hail resistance.

- High performance double glazing with HEAT[®] coating on outer pane: reduces cleaning frequency.
- Approx. 99% UV Block.
- Available in 11 sizes.
- Maintenance-free anodized aluminium frame.
- Requires custom-made flashing (not supplied by VELUX).



CodeMark

Compliance

0°-60°

REGULATED TEST

Solar Powered Blinds for FS

Honeycomb Blackout - FSCD
Pleated Translucent - FSFL

- All blinds are available in white.
- Solid separately.
- Unique installation system allows easy installation.

NEW

Solar Powered Blinds for FCM

Honeycomb Blackout - FSCC
Pleated Translucent - FSCL

- All blinds are available in white.
- Solid separately.
- Unique installation system allows easy installation.

NEW

• For roofs below 12° pitch, FS skylights need to be raised by 15° and custom flashings VELUX can assist with technical advice and drawings.
→ For roofs above 12° pitch, FS skylights need to be raised by 15° and custom flashings VELUX can assist with technical advice and drawings.
→ For roofs above 12° pitch, FS skylights need to be raised by 15° and custom flashings VELUX can assist with technical advice and drawings.
* SHGC data based on SHGC simulations at 40° incidence angle (FS FCM normal daylight test 1200lux x 1200mm).

Flat roofs



FCM

Fixed (non-opening)

Suitable for flat roofs, the brilliantly simple FCM Skylight is a cost effective way to provide natural daylight to buildings with flat roofs. The High Performance double glazing provides excellent thermal insulation and has been tested for hail resistance.

- High performance double glazing with HEAT[®] coating on outer pane: reduces cleaning frequency.
- Approx. 99% UV Block.
- Available in 11 sizes.
- Maintenance-free anodized aluminium frame.
- Requires custom-made flashing (not supplied by VELUX).



CodeMark

Compliance

0°-60°

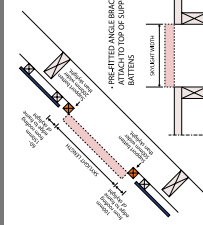
REGULATED TEST

Framing and trim-out guides

Complete installation instructions are supplied with each product and available for download on www.velux.co.nz

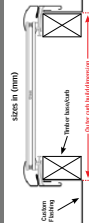
Pitched roof skylights
VSS, VSE, VS, FS

(With VELUX Proprietary Flashing EDW, EDL, EKW)



Flat roof skylights
VCS, VCM, FCM

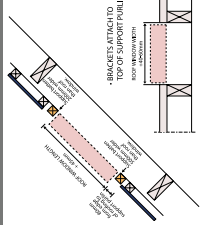
Custom-made flashing by Velux required (not supplied by VELUX)



Size	External frame dimensions	Outer Glaze full dimensions
360	485 x 395	445 x 355
720	972 x 692	895 x 715
1440	1944 x 1384	1790 x 1430
2880	3888 x 2768	3580 x 2860
5760	7776 x 5536	7160 x 5720
11520	15552 x 11072	14320 x 11440
23040	31104 x 22144	28640 x 22880
46080	62208 x 44288	57280 x 45760
92160	124416 x 88576	114560 x 91520
184320	248832 x 177152	229120 x 183040
368640	497664 x 354304	458240 x 366080

Roof windows (GGU)

(With VELUX Proprietary Flashing EDW, EDL, EKW)

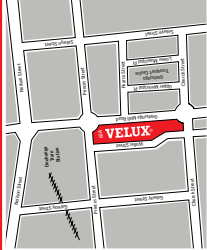


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VELUX[®]

The VELUX Group has been listed in the Global 1000 list of the world's most innovative companies for 15 years. VELUX is a member of the VELUX Group, a company with a long history of innovation and excellence in the lighting and ventilation industry. VELUX is a company that is committed to providing high-quality products and services to its customers. VELUX is a company that is committed to providing high-quality products and services to its customers.

AUCKLAND HEAD OFFICE & SHOWROOM



OPENING TIMES:
Auckland Head Office: 9am - 4.30pm (Mon-Fri)
Showroom: 9am - 4pm (Mon-Fri)

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PROPOSED HOUSE AT 4 CORRAVALLY RISE, WEST MELTON LOT: 748 DP:609617
798M², FOR BARRY & CO LIMITED, RC:26205

CONSENT PLANS

SHEET	AD11
DRAWN	KELVIN BOYD
DATE	SEP 2025
REVISION NO.	REV. 21 APRIL 2026
Scale in A3 size	AS SHOWN
SERIES	OF
REF	

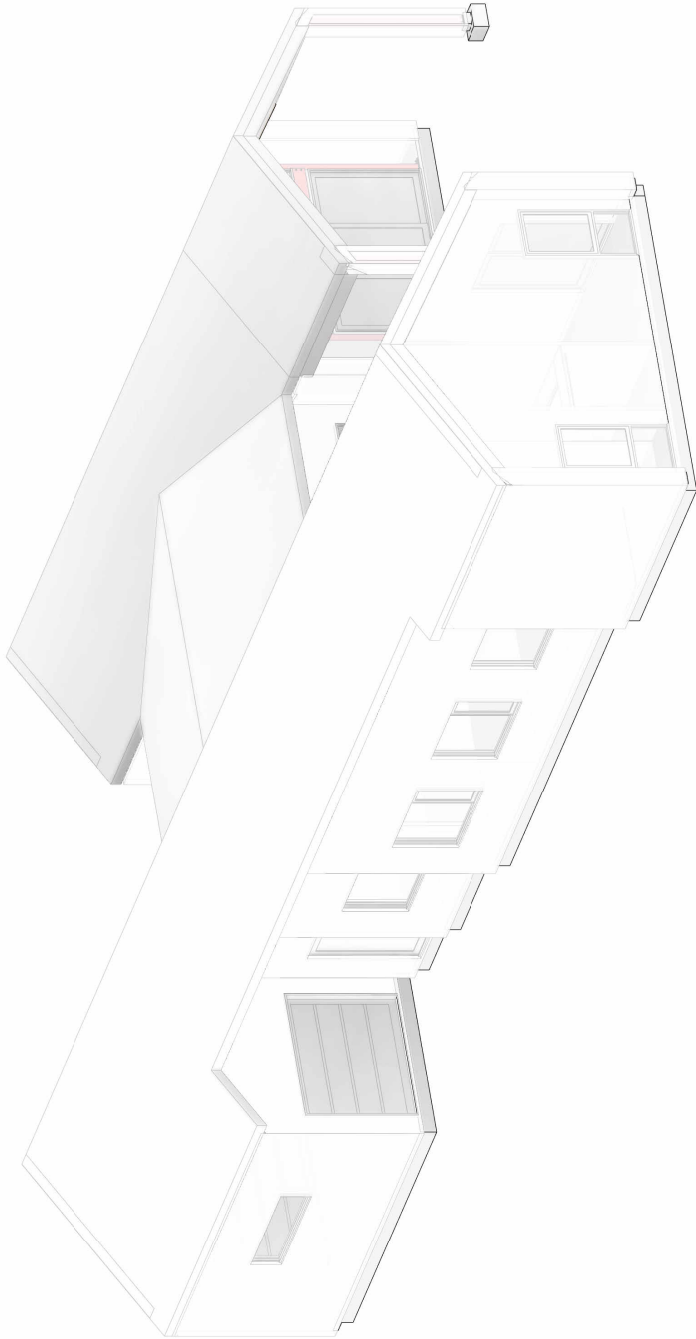
NEW HOUSE 4 CORRAVALLY RISE WEST MELTON

RICHARDS
CONSULTING ENGINEERS

STRUCTURAL DRAWINGS

Job No. 25915

Christchurch Office: (03) 347 1624
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SHEET LIST			
DWG NO	TITLE	REV	DATE
S0.00	SPECIFICATION	C	23/03/2026
S0.01	SPECIFICATION	C	23/03/2026
S1.01	FOUNDATION PLAN	C	04/03/2026
S1.02	FRAMING PLAN	B	19/02/2026
S1.03	BRACING PLAN	A	13/02/2026
S2.01	FRAMING SECTION	C	04/03/2026
S2.02	FRAMING SECTION	A	13/02/2026
S3.01	FOUNDATION DETAILS	B	19/02/2026
S3.02	FOUNDATION DETAILS	B	19/02/2026
S4.01	FRAMING DETAILS	B	19/02/2026

REV D
23/03/2026
BUILDING CONSENT

1.0 GENERAL

1.1 All drawings to be read in conjunction with all relevant Architect's (design), services, Structural Engineer's and Specialist's drawings and specifications.

1.2 All Work shall comply with the relevant clauses of the New Zealand Building Code, best practice and relevant New Zealand Standards and Codes of Practice.

1.3 The Contractor shall verify all dimensions on site and compare with Architectural drawings before commencing work or making shop drawings.

1.4 Do Not Scale from any drawings. Use figured dimensions only. If in doubt ask.

1.5 The Contractor shall be responsible for verifying all dimensions on site and ensuring that all dimensions and levels shown on the drawings are correct and consistent with other relevant drawings. Any discrepancies are to be reported immediately to the Engineer.

1.6 The Contractor shall notify the Engineer immediately if they become aware of any issues or discrepancies with what has been proposed in the Structural Drawing set, or discrepancies between the Structural Drawings and the Design Drawings (Architects, Mechanical, other specialists etc).

1.7 If at any time prior to Practical Completion, the Contractor should become aware of any signs of distress, excessive settlement or deflection, conflict of components or any other indications whatsoever of actual or potential damage to the Contract Works or any part thereof, they shall forthwith notify the Engineer, and confirm such notice in writing as soon as is practicable.

1.8 Materials and components to be appropriate for intended use.

1.9 For concrete ribs, chamfers, rebates and other Architectural features the Architectural drawings are to have preference over structural drawings.

1.10 Manufacturer's drawings and calculations for reinforcement, steelwork, flooring systems and stairs shall be submitted for the Engineer's approval/comment a minimum of 14 days prior to fabrication.

1.11 The Contractor shall design temporary propping works and be able to provide a Producer Statement (PS1-design) if requested.

1.12 The protection and durability requirements of steel, timber, concrete and masonry materials shall comply with Section 4 NZS 3604:2011.

Please refer to Architectural plans and specifications for further details.

1.13 All weather tightness details are to be specified by others and are especially excluded from structural details.

2.0 INSPECTIONS

2.1 To verify the works have been constructed as per the design the following inspections:

Structural Element	Construction monitoring
300 kPa bearing and excavations	By Richards Consulting Engineers
Footing and foundation reinforcing (pre-pour)	Richards Consulting Engineers
Structural framing and connections	Richards Consulting Engineers
Plasterboard bracing (pre and post line)	By Local TA

2.2 A minimum of 48 hours' notice shall be provided to the Engineer before an inspection is required.

2.3 Failure to have the structural work inspected may result in Richards Consulting Engineers Limited not able to issue a PS4 or destructive testing to expose hidden structural elements.

3.0 EXCAVATIONS AND FOUNDATIONS

3.1 The Contractor is to familiarize themselves with the site geotechnical report requirements - Geotechnical section of the structural design report prepared by RCE named: "4 Corravally Rise, West Melton" referenced 25915.

3.2 For waterproofing, DPM, underfloor heating and insulation refer to Architectural drawings.

3.3 All organic material shall be stripped from under the foundations. All soft spots to be fully excavated and backfilled as per Engineers direction.

3.4 Assumed geotechnical ultimate bearing capacity (gubc) of 300kPa from a minimum depth of 200mm below ground level (BGL) unless noted otherwise. If the recommended founding stratum is not encountered at the foundation level, the Engineer is to be informed before work proceeds in that area.

3.5 Excavations under all footings and thickenings shall extend to gubc of 300kPa.

3.6 Backfill or subgrade material shall consist of well compacted AP40 in layers not greater than 200mm deep.

3.7 The Contractor shall manage the effects of ground water. Temporary dewatering may be required. The effects of dewatering on

adjoining properties should be considered and managed.

3.8 Ground bearing floor slabs to be placed on DPM/Waterproof membrane on sand blinding on hardfill (DPM to be specified by the Architect).

3.9 The Contractor shall confirm construction methodology of foundations before commencing work. Alternative construction methodologies / detailing will be considered by the Engineer.

3.10 The Engineer shall inspect the excavations before any hardfill or boxing is formed.

3.11 The Contractor shall carry out all safety procedures as required by the WorkSafe publication 'Excavation Safety Good Practice Guidelines', and the Health and Safety at Work Act 2015, regarding notifiable work and timbering. Prevent material rolling into trenches.

3.12 For deep excavations, the trench width is to be sufficient to provide safe access and to accommodate shoring to WorkSafe requirements.

3.13 The Contractor must take care to prevent undermining of existing structures and foundations. The Engineer must advise on excavations which are closer than the line of influence (1V : 1H), measured from the toe of the existing foundation to the base of the excavated surface.

4.0 CARPENTRY

4.1 All timber shall be SG8, H1.2 unless stated otherwise.

4.2 All exposed timber shall be a minimum of H3.2. All timber which is direct contact with either concrete or soil shall be H5.

4.3 Timber shall be treated as set out in NZS 3602:2003 – Timber and Wood-based Products for use in Buildings.

4.4 Proprietary timber members (i.e. Carter Holt Harvey) shall be stored and installed as per the relevant manufacturer's guideline.

4.5 Plasterboard bracing shall be installed as per the GIB Site Guide. The Contractor shall check on the Architect's drawings for the specified plasterboard type noting some bracing elements can be substituted for Fyreline or Aqualine. The Contractor shall verify any substitutions with the Engineer prior to placing an order.

4.6 Where fixing to timber, bolts shall have a 50x50x3mm washer at each end unless specified otherwise.

4.7 All bolts specified for structural timber connections shall be from grade 4.6 steel unless specified otherwise.

4.8 All timber bolted connections shall have the following minimum spacings, unless specified otherwise:

	Perpendicular to timber grain	Parallel to timber grain
Edge Distance	4d	8d
Spacing		5d

4.9 All timber screw and nail connections (pre-bored to 0.8d) shall have the following minimum spacings, unless specified otherwise:

	Perpendicular to timber grain	Parallel to timber grain
Edge Distance	5d	10d
Spacing	5d	10d

4.10 All timber nail connections (no pre-boring) shall have the following minimum spacings, unless specified otherwise:

	Perpendicular to timber grain	Parallel to timber grain
	SG8	Otherwise
Edge Distance	5d	12d
Spacing	5d	10d

4.11 All external timber fixings (i.e. sub-floor or deck framing) shall be stainless steel. All other fixings shall be galvanised.

4.12 The moisture condition of dry timber shall be maintained during construction, such that the moisture content should not exceed 15% as per NZS/AS 1720: 2022 (ZZ4.8.2).

4.13 The Contractor is responsible for checking the moisture content of timber prior to installation.

4.14 If non-vertical timber members have moisture content exceeding 15% (i.e. green timber), they must be propped and not subject to design loadings until they become dry (<15% moisture content), as per NZS 3604: 2011 (2.3.4) and NZS/AS 1720: 2022 (ZZ4.8.2).

5.0 STEEL WORK

5.1 All RHS, SHS and CHS members shall be from grade 350 steel. All other steelwork shall be fabricated from grade 300 steel (BHP 300-plus steel or equivalent). The exception to this is where grades are identified on the drawings. All bolts specified for structural steel connections

shall be from grade 8.8 steel unless specified otherwise.

5.2 All welds shall be 6mm FWAR, structural purpose (SP), unless specified otherwise.

5.3 All steelwork shall be set out correctly to angles and planes at the time of fabrication. If necessary, component parts are to be trial assembled to ensure proper alignment. Fabrication shall be in accordance with the recommendations and procedures given in "general specification for the fabrication and erection of structural steel (Hera 1990)".

5.4 Holes shall be drilled in steel members at 600mm crs to accommodate M12 bolts where timber plates / packers are required.

Alternatively, may install Wurth Wing-Type Drilling Screw, Round Countersunk Head With Aw Drive Pias® (6.3mm) at 300mm crs.

5.5 All tubular members shall, unless noted otherwise, be sealed at each end with a 6mm cap plate connected by fillet weld. Where hollow members are to be galvanised, vent holes shall be provided in accordance with the specification.

5.6 All perimeter beam/ column and beam/ perimeter beam connections to have full depth end plates.

5.7 All steel fabrication drawings are to be submitted for approval at least 14 days before fabrication commences.

5.8 All fabrication and erection of structural steelwork must comply with AS/NZS 5131: 2016.

5.9 The Contractor shall apply the quality control and construction requirements set out in AS/NZS 5131: 2016 and AS/NZS 1554.1: 2014, for a Construction Category of CC2 for all steelwork fabrication, erection, coatings and welding inspections. Note, the Construction Category is a risk-based fit for purpose categorisation of the structure or parts thereof.

5.10 No offshore fabrication of structural steel is permitted unless directly approved by the Engineer.

5.11 All external steel fixings shall be stainless steel and bolts are to have a 50mm diameter x 3mm washer (stainless steel).

5.12 All interior steel work shall be primed with Carbozinc 11. Inorganic Zinc Silicate. Surface preparation shall be abrasive blast to SSPC SP10 to achieve a jagged blast profile of between 35 and 50 microns and application of the primer shall be as specified. Dry film thickness shall be a minimum of 75 microns.

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Wellington office: (04) 974 9094
Queenstown office: (03) 347 1624
Website: richardseng.co.nz

RICHARDS
CONSULTING ENGINEERS

DRAWING TITLE
SPECIFICATION

PROJECT TITLE
NEW HOUSE
4 CORRAVALLY RISE
WEST MELTON

REV NO.	REVISION	DATE
A.	BUILDING CONSENT	FEB 2026
B.	BUILDING CONSENT	FEB 2026
C.	BUILDING CONSENT	MAR 2026

APPROVED

PROJECT NO.

25915

DESIGNED

JK

DRAWN

AB

SCALE@A3

REV NO.

C

SHEET NO.

S0.00

- 5.13 After erection all damaged paint and galvanizing shall be made good, and all bolted and welded connections shall be painted as specified for the members connected. Special care shall be taken to seal off around connections to prevent ingress of moisture to the joint.
- 5.14 The proposed steel paint coating system has a minimum intended design life of 25 years to first maintenance. To ensure a 50-year design life is achieved we recommend routine inspection of the paint protection system is undertaken. Re-coating may be required in select areas if the coating system has become compromise. Re-coating shall be undertaken in accordance with Resene specifications.
- 5.15 Where "epoxy" has been specified use RAMSET EPCON C8 XTREM epoxy, HILTI HY 200 epoxy, FISCHER FIS SB 390 S*, SIKA ANCHORFIX -3001 or similar epoxy suitable for Seismic C2 loadings as assessed by EOTA TR 049, designed as per EN 1992-4:2018. Ensure the following minimum embedment depths (unless specifically specified otherwise):
- M12 bolt – 110mm embedment.
 - M16 bolt – 125mm embedment.
- 5.16 Post installed "epoxy" bolts must be installed as per the relevant supplier guidelines as applicable for specified anchor and epoxy systems. Contractor to note the minimum working and curing times for all systems prior to construction.
- 6.8 Design drawings for rebates, ribs and ground clearances take precedence over structural drawing.
- 6.9 Slab reinforcing shall be bent or hooked at corners, junctions and ends.
- 6.10 H12 reinforcing rods can be joined by lapping 700mm.
- 6.11 H12 reinforcing rods found in the top of 100mm wide ribs are required to extend a minimum of 3m from the foundation's perimeter in.
- 6.12 Mesh shall be lapped 250mm.
- 6.13 All reinforcement shall be fixed and tied to specified position.
- 6.14 Spacers:
- Edge at 1200mm centres (one on edge and two on corners typically).
 - Internal one on each side of pod (typically).
 - 50/65 or similar chair at 800mm centres to support bottom bars of ribs and thickenings.

Inspection/Maintenance timeframe and item	
(a) 25-yearly	Inspect samples of structural steel that is hidden from view but not enclosed within a vapour barrier, and repair protective coatings as necessary. A typical example is a veranda with built-in steelwork. (Such steelwork should typically have duplex protective coatings). Inspection may typically require removal of claddings and/or the drilling of holes for borescope access. Repair as required.
	Inspect all exposed, external timber. Repair as required.
	Inspect all exposed, external reinforced concrete for signs of spalling. Repair as required.
(b) Following seismic shaking > SLS1 event	Inspections and repair as per a) above.

- 6.15 All work shall comply with **Firth Ribrafft Technical Manual Oct 2024** except where altered by these drawings. The builder shall contact the Engineer where a standard detail is not applicable.
- 6.16 The Contractor must install sawcuts within 24 hours of pouring the concrete, in accordance with the proposed layout specified on the drawings. The Contractor must contact the Engineer for approval of any changes to this layout, or to the approved timing.
- 6.17 Sawcuts must be filled in accordance with the below requirements:
- General floors: Sikadur-51, Sikadur-61
 - Heavy Vehicle Traffic: Sikaflex PRO-3
 - Chemical Exposure: Sikaflex PRO-3
- Alternative products may be used if approved by the Engineer.
- 7.0 SERVICES**
- 7.1 Under no circumstance should pipe work for services be run longitudinally in 100mm ribs, perimeter foundation beams or internal foundation beams.
- 7.2 Vertical penetrations of pipe work through 100mm wide ribs should not be made.
- 7.3 Refer sheet S3.02 for typical service penetration details.
- 7.4 Services shall exit the foundations through the side of the perimeter beam (i.e. not under).
- 7.5 Service pipes shall not be routed parallel within ribs or perimeter foundation beams.

- 7.6 Where the services exit the concrete slab, a flexible joint shall be installed to allow for up to 50mm lateral movement.

8.0 STRUCTURAL MAINTENANCE SCHEDULE

- 8.1 This schedule of ongoing inspection and maintenance of structural elements shall be included with the O&M manuals and provided to the Owner/Body Corporate and building managers.

2-H12, 1600mm long, spaced 150mm apart

Refer to architect's drawings for rebate position & size

25mm(d) x 10mm Sawcut

500 x 500 x 450mm deep concrete footing

All load bearing walls are to have a rib or beam located below

Refer to bracing plan and identify any Gib hold downs and allow to cut out 200 x 200 of the pod to accommodate hold downs

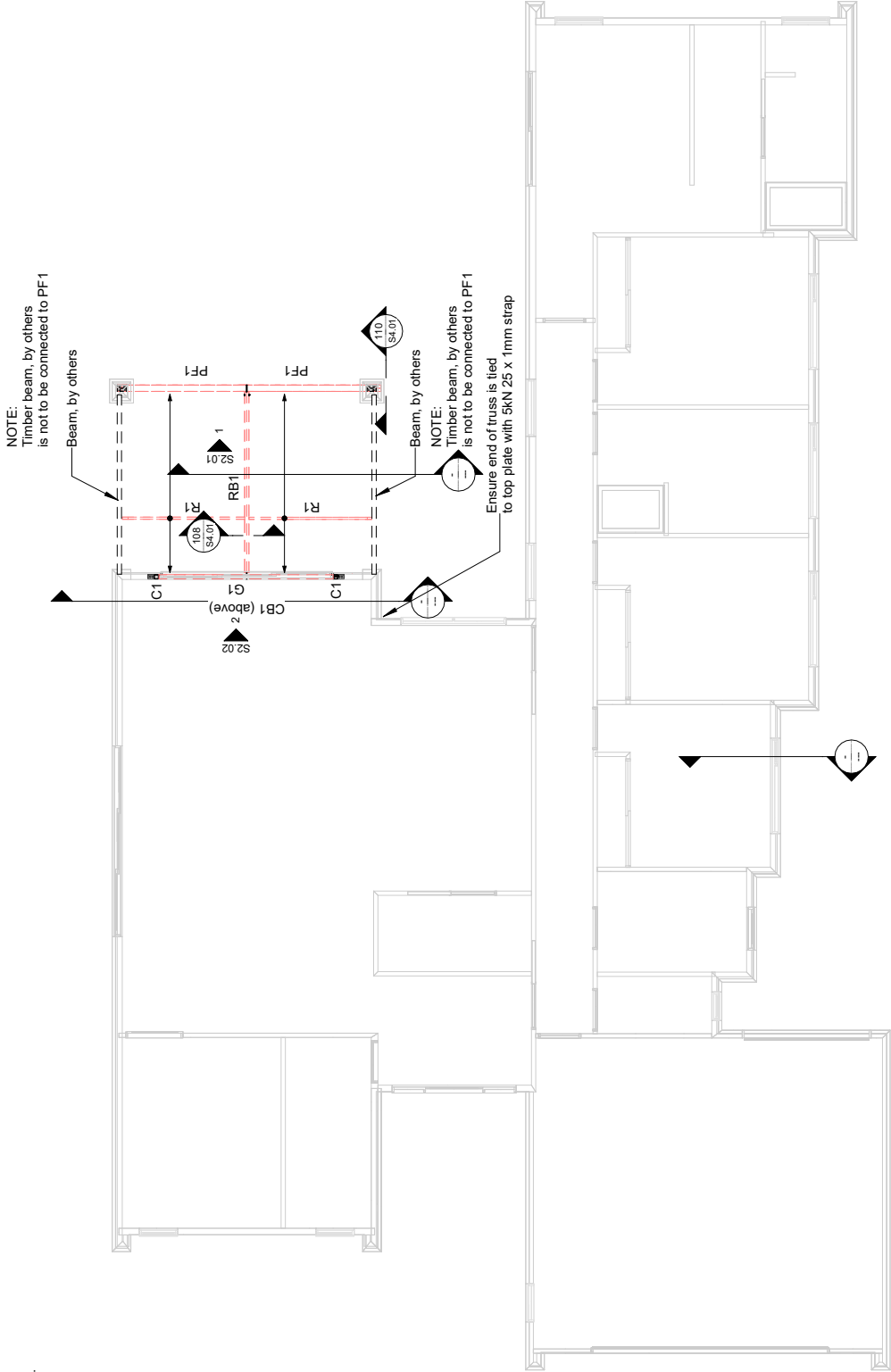


STRUCTURAL BEAM KEY

CB1	200UB22 Cranked Beam
G1	250PFC on edge
PF1	200UB22
R1	240 x 45 SG8 at 900mm c/s.
RB1	2-240 x 45 LVL11

STRUCTURAL COLUMN KEY

C1	89 x 5 SHS
PF1	200UB22



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Website: rceengineers.co.nz

RICHARDS
CONSULTING ENGINEERS

PROJECT TITLE
NEW HOUSE
4 CORRAVALLY RISE
WEST MELTON

DRAWING TITLE
FRAMING PLAN

REV. NO.	REVISION
A	BUILDING CONSENT
B	BUILDING CONSENT

DATE
13/02/2026
19/02/2026

APPROVED
HW
HW

PROJECT NO. 25915
SCALE @ A3 1 : 100
REV NO. B

DESIGNED JK
DRAWN AB
SHEET NO. S1.02

BRACING LEGEND

BL1-H

GIB Braceline one face with a GIB handbrac

GS1-N

Standard GIB plasterboard one face

GS2-N

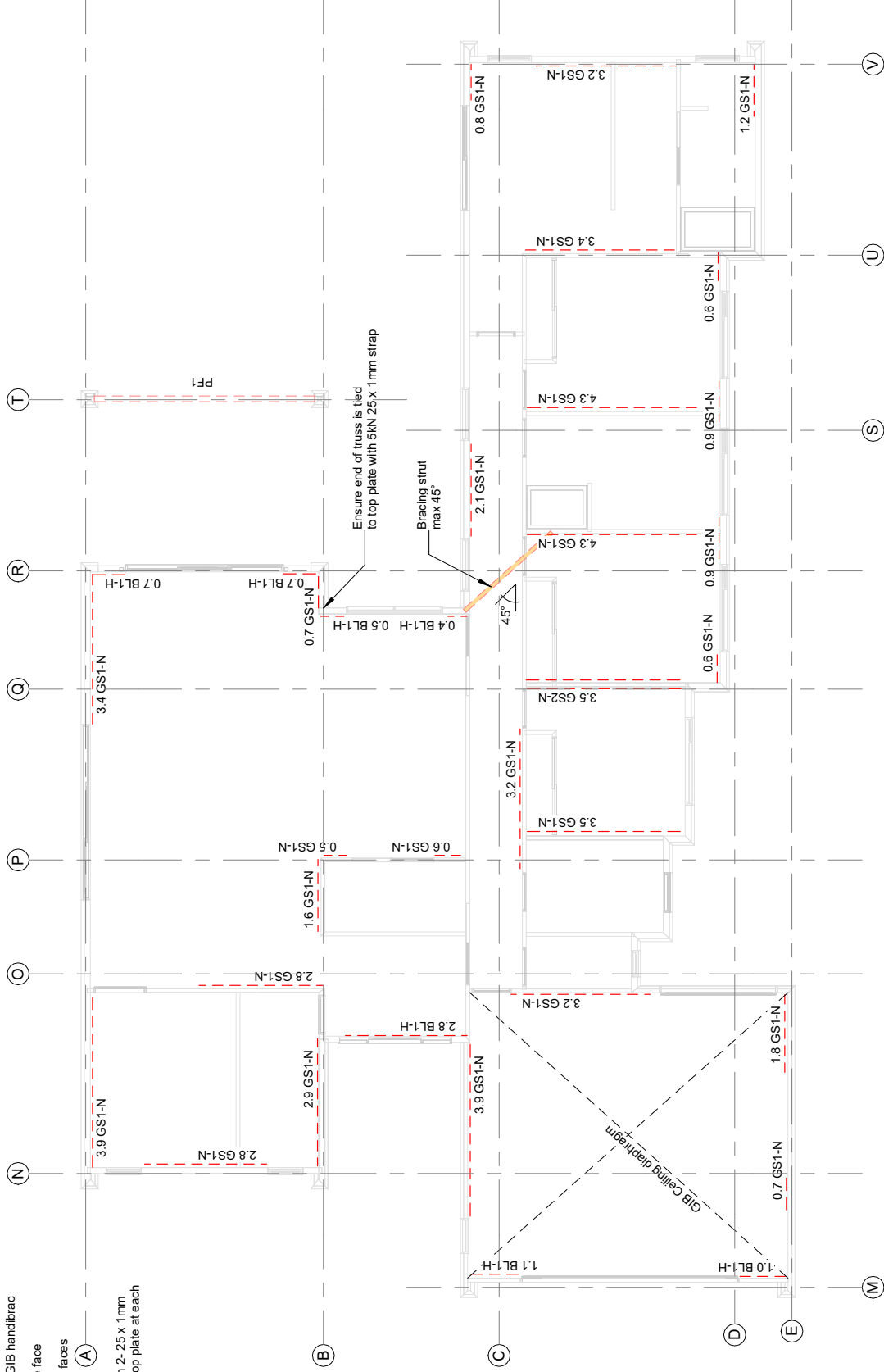
Standard GIB plasterboard two faces

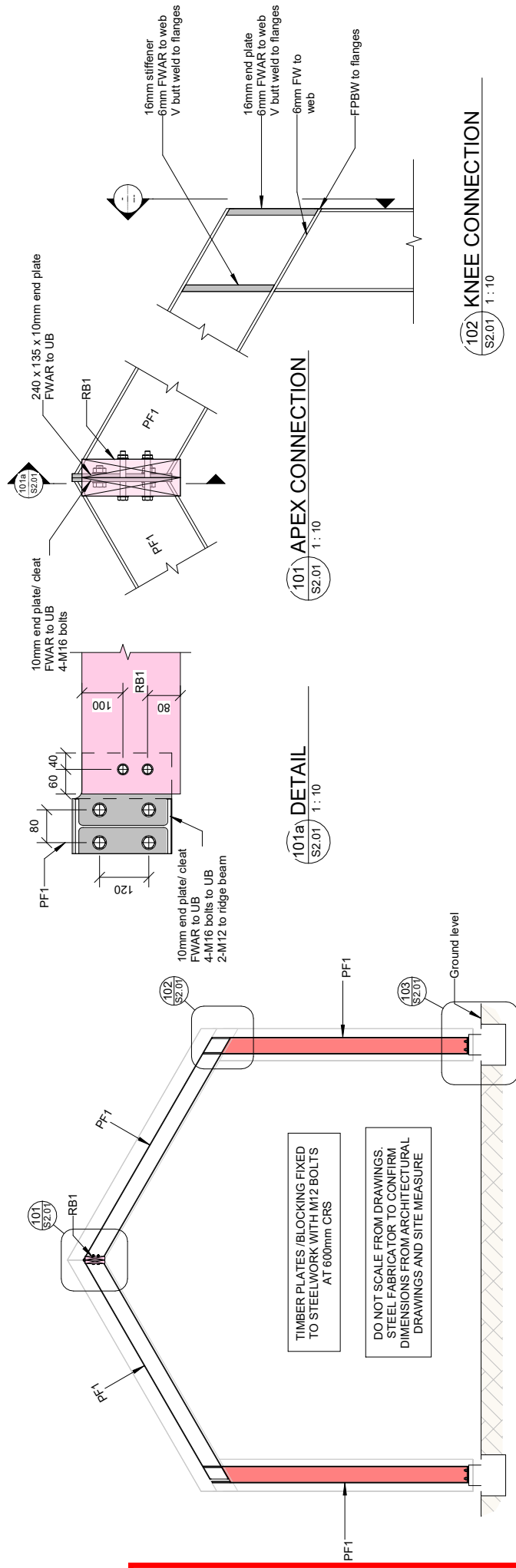
PF1

200UB22

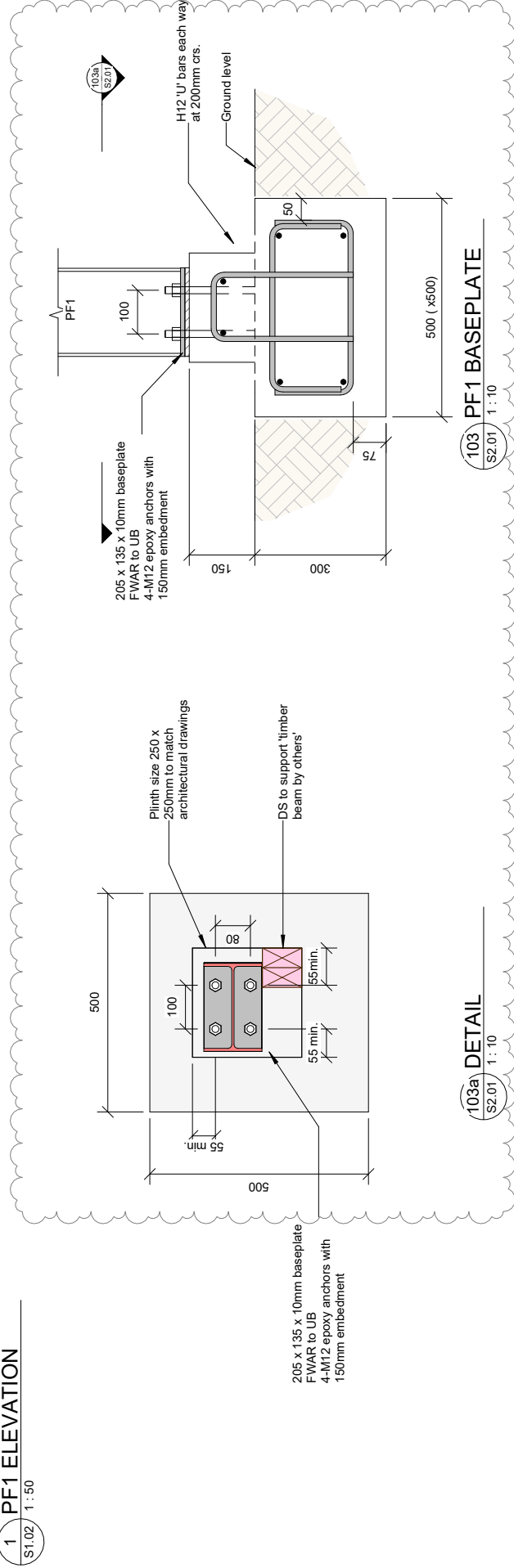
Bracing Strut

90 x 45 on flat bracing strut with 2-25 x 1mm straps and 3 skew nails to the top plate at each end

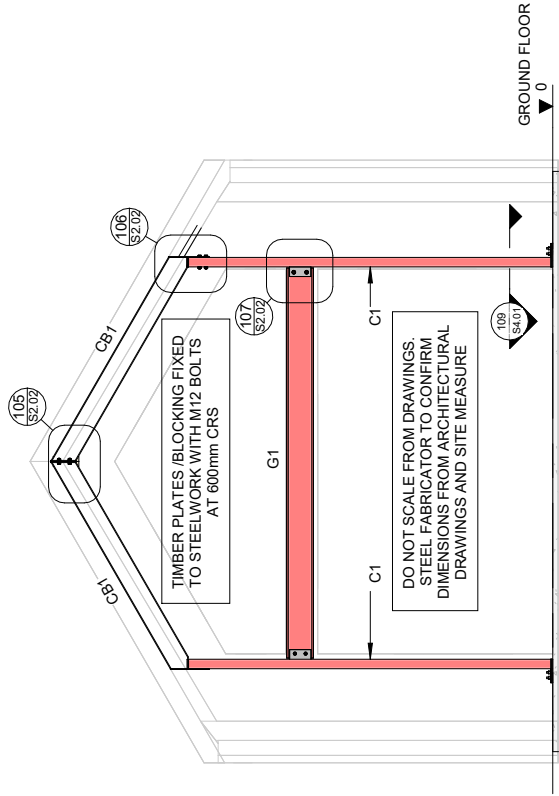




1 PF1 ELEVATION
S1.02 1 : 50

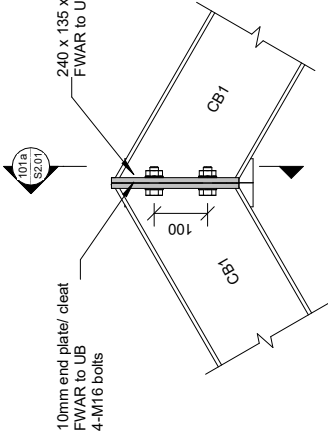


RICHARDS CONSULTING ENGINEERS	Christchurch office: (03) 347 1624 Auckland office: (09) 391 1324 Wellington Office : (04) 974 9094 Queenstown office: (03) 347 1624 Website: rceengineers.co.nz				PROJECT TITLE NEW HOUSE 4 CORRAVALLY RISE WEST MELTON		DRAWING TITLE FRAMING SECTION								
	REV NO.		REVISION		DATE		APPROVED		PROJECT NO.		DESIGNED		JK		
	A		BUILDING CONSENT		13/02/2026		HW		SCALE @ A3		DRAWN		AB		
	B		BUILDING CONSENT		19/02/2026		HW		REV NO.		SHEET NO.		C		
	C		BUILDING CONSENT		04/03/2026		HW								
														\$2.01	



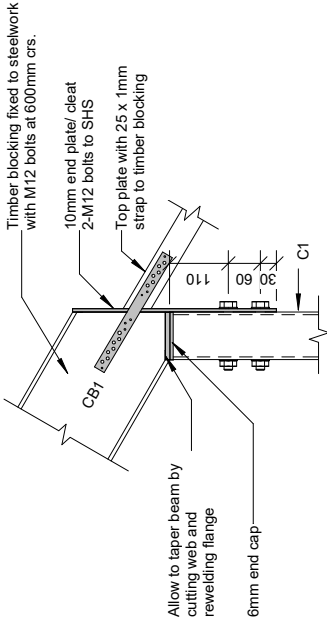
2 FRAME ELEVATION

S1.02 1 : 50



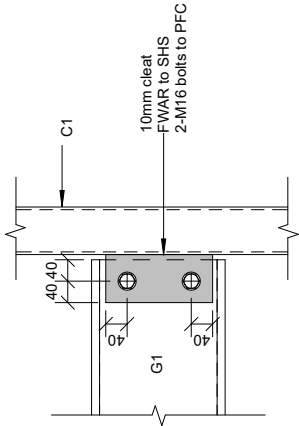
105 APEX DETAIL

S2.02 1 : 10



106 KNEE DETAIL

S2.02 1 : 10

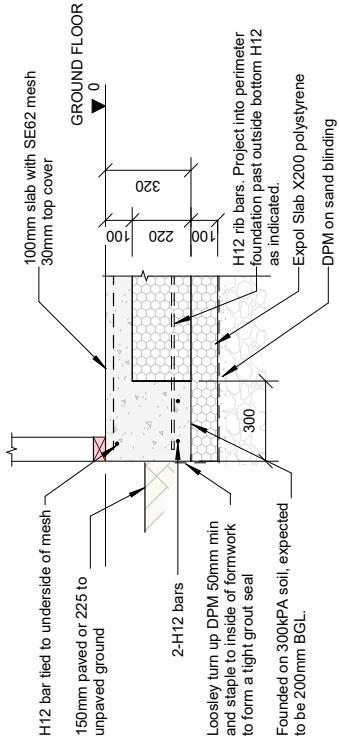


107 GIRT CONNECTION DETAIL

S2.02 1 : 10

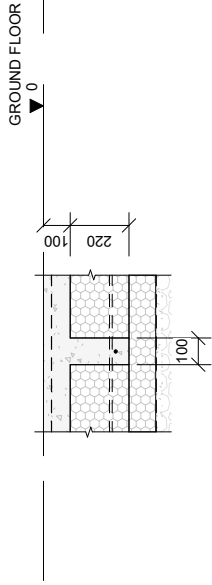
RICHARDS CONSULTING ENGINEERS	Christchurch office : (03) 347 1624 Auckland office : (09) 391 1324 Wellington Office : (04) 974 9094 Queenstown office : (03) 347 1624 Website : rceengineers.co.nz	PROJECT TITLE		DRAWING TITLE		REV NO.	REVISION	DATE	APPROVED	PROJECT NO.	DESIGNED	JK
		NEW HOUSE		FRAMING SECTION							DRAWN	AB
		4 CORRAVALLY RISE									SCALE @ A3	As indicated
		WEST MELTON									REV NO.	SHEET NO.
											A	S2.02

NOTE: Refer detail 001 for generic notes which apply to all details (unless specifically noted otherwise)

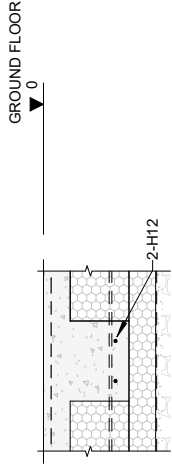


001 PERIMETER FOOTING DETAIL
S1.01 1:20

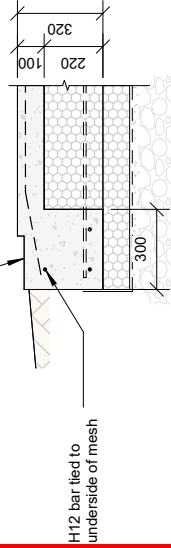
002 RIB DETAIL
S1.01 1:20



003 INTERNAL BEAM DETAIL
S1.01 1:20

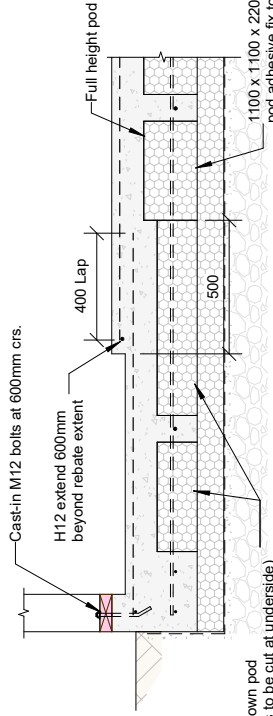


Refer to architectural drawings for all rebates and ground clearance

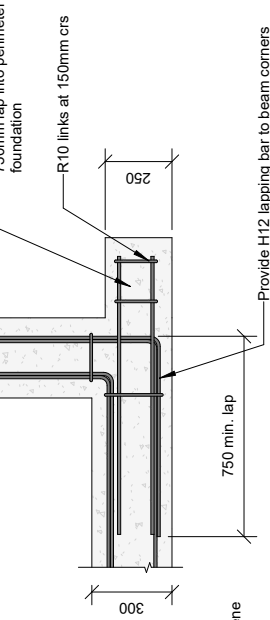


004 SLAB REBATE DETAIL
S1.01 1:20

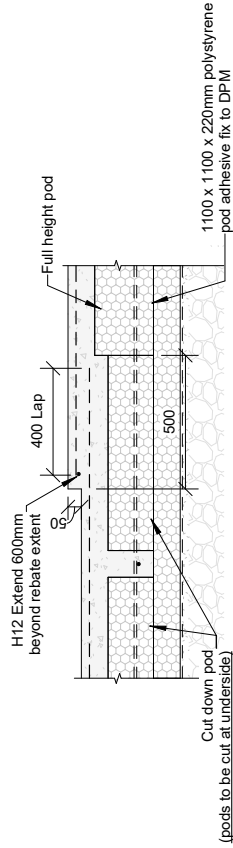
Cast-in M12 bolts at 600mm crs.



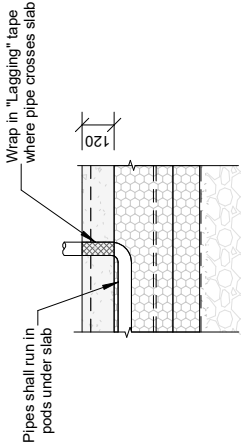
005 SHOWER REBATE DETAIL
S1.01 1:20



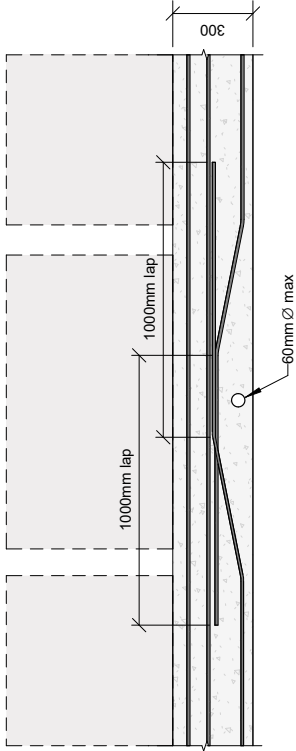
006 WING WALL
S1.01 1:20



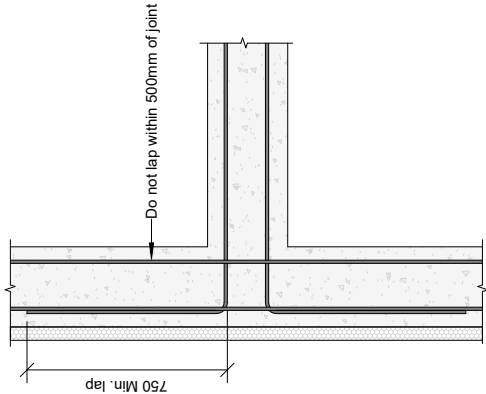
007 SHOWER REBATE DETAIL
S1.01 1:20



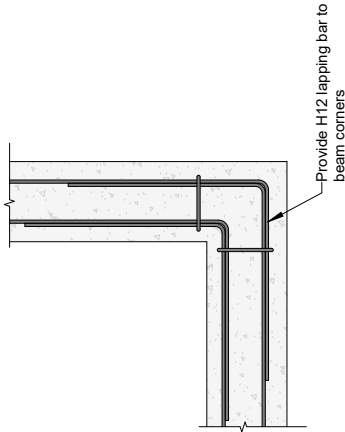
008 INTERNAL SLAB PENETRATION DETAIL
1 : 20



009 SERVICE PENETRATION DETAIL
1 : 20

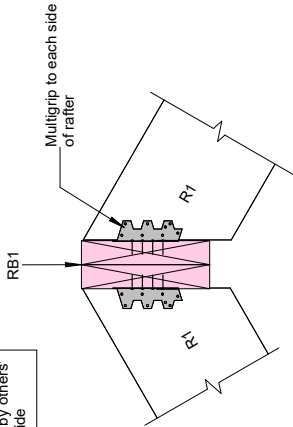


011 INTERNAL TO EXTERNAL BEAM DETAIL
1 : 20



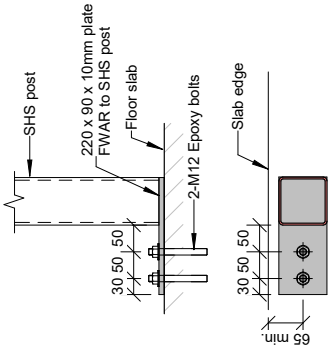
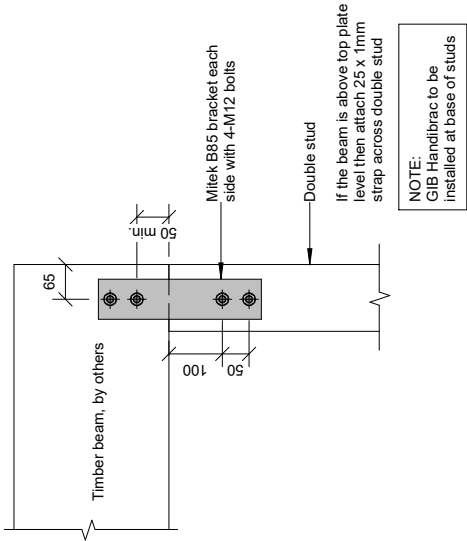
010 CORNER BEAM DETAIL
1 : 20

NOTE:
Connect R1 to 'Beam by others'
with multigrips each side



108 RIDGE CONNECTION DETAIL
S1.02 1 : 10

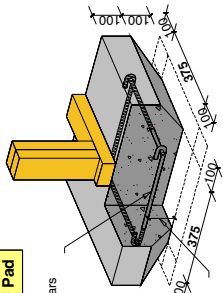
110 CONNECTION DETAIL
S1.02 1 : 10



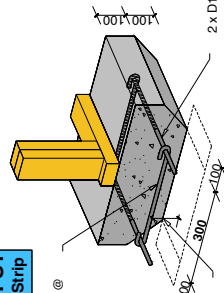
109 TYPICAL SHS BASEPLATE
S2.02 1 : 10

RICHARDS CONSULTING ENGINEERS	Christchurch office: (03) 347 1624 Auckland office: (09) 391 1324 Wellington Office: (04) 974 9094 Queenstown office: (03) 347 1624 Website: richengineers.co.nz	PROJECT TITLE NEW HOUSE 4 CORRAVALLY RISE WEST MELTON		DRAWING TITLE FRAMING DETAILS		REV NO.	REVISION	DATE	APPROVED	PROJECT NO.	DESIGNED	JK
						A	BUILDING CONSENT	13/02/2026	HW	SCALE @ A3	DRAWN	AB
						B	BUILDING CONSENT	19/02/2026	HW	REV NO.	SHEET NO.	
										B		S4.01

2 x D12 Bars
both ways



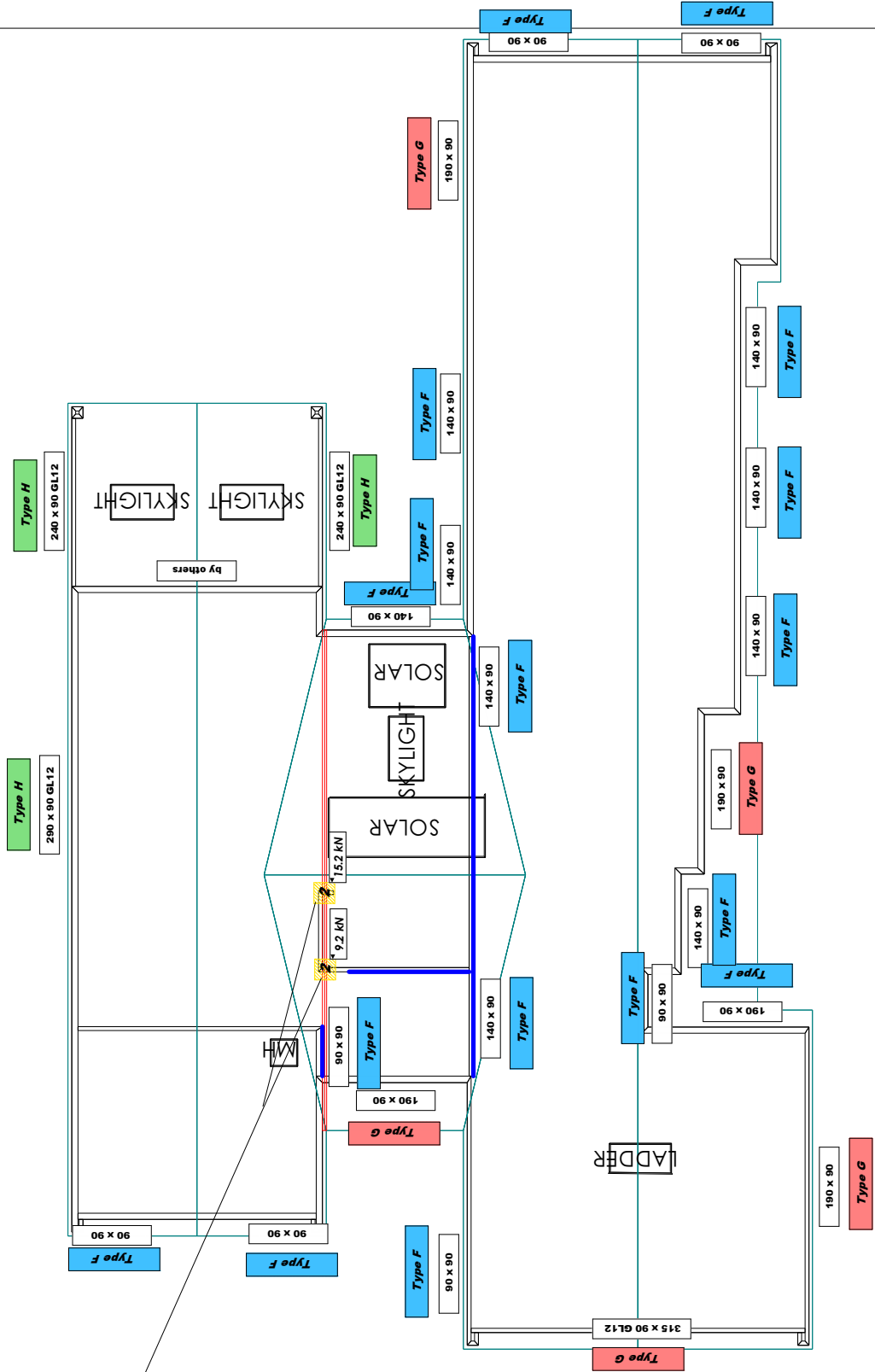
10 bars



Refer to:
M/Tek Internal Load Bearing on Concrete Floor Slabs 10/2011
M/Tek Structural Fixings **On-Site Guide** for Building Code Compliance

Internal Loadbearing Walls with floor loads less than 8kN not requiring thickening

**All lintels are GL8 unless otherwise specified
All 90x90 lintels are 2/90x45 SG8**



66 Stanleys Road
Harewood 8051
Christchurch

Site Address :
Paramount Built
4 Corravally Rise
West Melton
Canterbury

Sheet Title : **For E Slab**

Sheet Title :
**For Building Consent
Slab Thickening**

g Consent
ening

Job Details:
Roof Pitch
Roof Material
Ceiling Height
Wind Zone
Roof Structure

Truss Centres : 900mm
Roof Live Load : 0.250kPa
Floor Live Load :
Wind Speed : 44m/s
Overhang : 80mm

Job Title :
255310PS
Sheet :
2
Revision Number :

TYPE E
1.4 kN

4 x 90mm x 3.15 Ø nails into lintel

2 x 90mm x 3.15 Ø nails directly below lintel

Fix trimmer to understud with 1 x 90mm x 3.15 Ø nail @ 250mm c/s

Tylok 2T4 one side

TYPE F
4.0 kN

6 x 90mm x 3.15 Ø nails into lintel

2 x 90mm x 3.15 Ø nails directly below lintel

Tylok 4T5 one side

Tylok Plate Installation

2 x Tylok 2T4 for Radiata Pine

2 x Strap Nail for Douglas Fir

Notes:
For fixing of Jack studs to lintel and top plate, refer to Stud to Top Plate Fixing Schedule

Refer to Table 8.5 NZS 3604:2011

Stud numbers indicative only.

Mitretek Structural Fixings On-Site Guide for Building Code Compliance (Alternative to Table 8.14 & Figure 8.12 NZS 3604:2011)

TYPE G
7.5 kN

6 x 90mm x 3.15 Ø nails into lintel

2 x 90mm x 3.15 Ø nails directly below lintel

Fix trimmer to understud with 1 x 90mm x 3.15 Ø nail @ 250mm c/s (typical)

Tylok 10T10 to one side

2 rows of teeth to understud

6 x 90mm x 3.15 Ø nails into lintel

2 x 90mm x 3.15 Ø nails directly below lintel

Fix trimmer to understud with 1 x 90mm x 3.15 Ø nail @ 250mm c/s (typical)

6kN Stud Anchor (CFC80)

M12 Bolt

75mm min. into concrete floor (typical)

100mm max. (typical)

TYPE H
13.5 kN

8 x 90mm x 3.15 Ø nails into lintel

2 x 90mm x 3.15 Ø nails directly below lintel

Fix trimmer to understud with 1 x 90mm x 3.15 Ø nail @ 250mm c/s (typical)

Tylok 10T10 to both sides

2 rows of teeth to understud

8 x 90mm x 3.15 Ø nails into lintel

2 x 90mm x 3.15 Ø nails directly below lintel

Fix trimmer to understud with 1 x 90mm x 3.15 Ø nail @ 250mm c/s (typical)

400mm Sheet Brace Strap to one side.

6 x 30mm x 3.15 Ø nails into stud.

3 x 30mm x 3.15 Ø nails into bottom plate.

6 x 30mm x 3.15 Ø nails into timber joist/bearer

GIB HandBrac Installation

Note A:
M12 proprietary concrete fixing bolt with 50x50x3mm square washer
Or
M12 x 150mm coach screw with 50x50x3mm square washer into timber joist/bearer

Note A:
M12 proprietary concrete fixing bolt with 50x50x3mm square washer
Or
M12 x 150mm coach screw with 50x50x3mm square washer into timber joist/bearer

8 x 90mm x 3.15 Ø nails into lintel

2 x 90mm x 3.15 Ø nails directly below lintel

Fix trimmer to understud with 1 x 90mm x 3.15 Ø nail @ 250mm c/s (typical)

Tylok 10T10 to both sides

2 rows of teeth to understud

8 x 90mm x 3.15 Ø nails into lintel

2 x 90mm x 3.15 Ø nails directly below lintel

Fix trimmer to understud with 1 x 90mm x 3.15 Ø nail @ 250mm c/s (typical)

400mm Sheet Brace Strap to one side.

6 x 30mm x 3.15 Ø nails into stud.

3 x 30mm x 3.15 Ø nails into bottom plate.

6 x 30mm x 3.15 Ø nails into timber joist/bearer

GIB HandBrac Installation

OR

8 x 90mm x 3.15 Ø nails into lintel

2 x 90mm x 3.15 Ø nails directly below lintel

Fix trimmer to understud with 1 x 90mm x 3.15 Ø nail @ 250mm c/s (typical)

Tylok 10T10 to both sides

2 rows of teeth to understud

8 x 90mm x 3.15 Ø nails into lintel

2 x 90mm x 3.15 Ø nails directly below lintel

Fix trimmer to understud with 1 x 90mm x 3.15 Ø nail @ 250mm c/s (typical)

400mm Sheet Brace Strap to one side.

6 x 30mm x 3.15 Ø nails into stud.

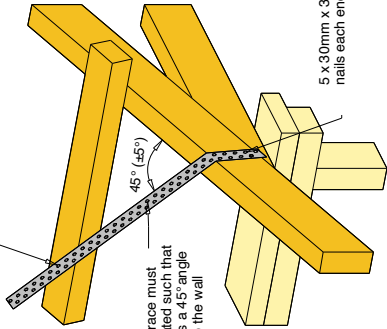
3 x 30mm x 3.15 Ø nails into bottom plate.

6 x 30mm x 3.15 Ø nails into timber joist/bearer

GIB HandBrac Installation

LUMBERLOK®
ROOF BRACING

1 x 30mm x 3.15 Ø nail (after tensioning)
Bracing above Purlins = 1 nail @ each purlin crossing
Bracing below Purlins = 1 nail @ each truss crossing



Roof Bracing
Specifications



5 x 30mm x 3.15 Ø
nails each end

Refer to:
LUMBERLOK Roof Bracing Specifications 10/2011
Mitek Structural Fixings On-Site Guide for Building Code Compliance
(As per NZS 3604:2011)

LUMBERLOK®
TRUSS FIXINGS

Pair of Wire Dogs and 2 x 90mm 3.15mm skew nails

- LUMBERLOK JH47x90 Joist Hanger
- LUMBERLOK JH47x120 Joist Hanger
- LUMBERLOK JH47x180 Joist Hanger
- LUMBERLOK JH95x165 Joist Hanger
- LUMBERLOK CT200 Ceiling Tie
- Pair of LUMBERLOK CT200 Ceiling Ties
- LUMBERLOK CT400 Cyclone Tie
- LUMBERLOK CT600 Cyclone Tie
- LUMBERLOK Multi Grip
- Pair of LUMBERLOK Multi Grips
- LUMBERLOK Nailon Plate
- LUMBERLOK N21 Diagonal Cleat
- LUMBERLOK CPC40 Cleat
- Pair of LUMBERLOK CPC40 Cleats
- LUMBERLOK TTP 16kN Truss to Top Plate set
- LUMBERLOK TTP 9kN Truss to Top Plate set

Joist Hanger
Installation



CT200 Truss to
Top Plate Fixing
Installation



16kN & 9kN Truss
to Top Plate Fixing
Installation



Notes:
All other areas must have the minimum 2 x 90mm 3.15mm skew nails and
2 x wire dogs for truss to top plate connections

Refer to:
LUMBERLOK Timber Connectors Characteristic Loadings Data Brochure
08/2014

Site Address:
Paramount Built
4 Corravally Rise
West Melton
Canterbury

66 Stanleys Road
Harwood 8051
Christchurch

T: +64 3 242 0560
E: orders@lmcft.co.nz

Sheet Title:
For Building Consent
Truss Fixings & Roof Bracing

Date: 17 Dec. 2025
Scale: NTS

Drawn: Eric Finn
System: Mitek 20/20

Job Details:

Roof Pitch	: 30.00deg	Truss Centres	: 900mm
Roof Material	: Galv Iron 0.55mm	Roof Live Load	: 0.250kPa
Ceiling Material	: Standard Plaster Board	13m ² floor Live Load	:
Wind Zone	: High	Wind Speed	: 44m/s
Roof Snow Load	: 0.378kPa	Overhang	: 80mm

PrimeCad v4.7.346

Job Title:
255310PS

Sheet:
3

Revision Number:
3

Mitek

**FIXINGS SHOWN ARE MINIMUM REQUIREMENT ONLY
THIS MAY CHANGE AT THE TIME OF MANUFACTURING
AND WILL BE COVERED OFF IN THE AS BUILT DOCUMENTS.**

