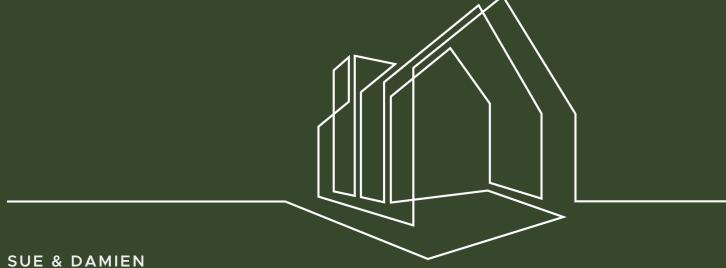
CONSENTED FLOOR PLANS



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45 Rock Ridge





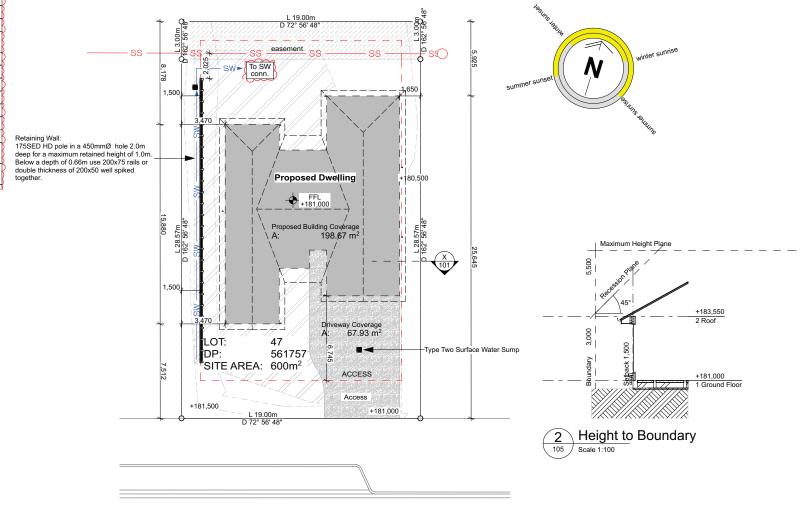
Kyle Kake 027 567 8808 kyle@masonstreet.co.nz

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Layout Rev Sheet Name

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302 4 Architectural Details 401 402 403 404 405 406 407 408 409 410 5 Engineers Details 501 502 503 504 505 6 Shedules 601	Elevations Roof Cladding Details Joinery to Soffit Details Brick Joinery Details BGC Cladding Details BGC Joinery Details Cladding Details Lintel Fixings Wet Area Details Bedding and Backfilling Ribraft Details Ribraft Details Ribraft Details Ribraft Details Ribraft Penetration Details Retaining Wall Details

DISTRICT PLAN		
Environment Zone	General Residential	
Resource Area	n/a	
Max Building Height	8m	
Building Setbacks	3m road + 1.5m sides/ rear	
DESIGN INFORMATI	ON	
Wind Zone	High	
Earthquake Zone	1	
Exposure Zone	С	
AREAS		
Site	600 m2	
House Coverage	198.67m2 (33.11%)	
Driveways/Deck Coverage	67.93m2	
Total Impervious Area	266.6 (44.43%)	



Sediment Control

Control sediment run-off with: vegetation

- silt fences to screen and filter sediment
 hay or straw bales to trap sediment
- · sediment ponds

Keep silt control devices clear and ensure that cleared material cannot run into waterways or

General Drainage and Services

Locate existing power, water, telephone and sanitary drainage services. Allow to inform network operators as necessary

Slip Resistance

Provide Slip Resistant broomed concrete finish to entry.



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Project Location | Drawn 45 Rock Ridge Drive, Whangarei

ROCK RIDGE DRIVE

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Sheet Title Site Plan

Sheet No.







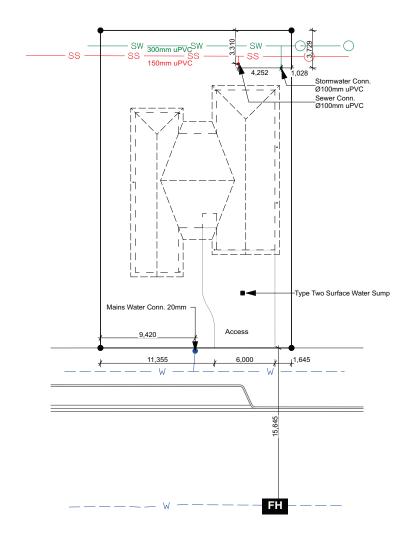
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Project Location 45 Rock Ridge Drive, Whangarei

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Scale @ A3	1:1

Sheet Title Site Location

Sheet No.





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Project Location
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Whangarei

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Scale @ A3	1:250

Sheet Title Site Services

Sheet No.

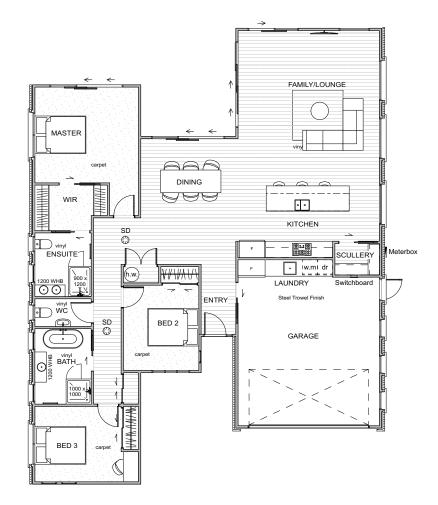
Floor Finishes

Slab-on ground concrete floor having a steel trowel or polished finish, sealed at edges where water splash may occur, including laundry within a garage.
In areas where water splash may occur and in

open plan spaces, this surface shall extend at least 1.5m from all sanitary fixtures and sanitary appliances.

A thin bead of waterproof sealant should be applied to the perimeter of the polished/ trowelled floor where the floor meets the skirting boards or the cabinetry (toe-kicks), along with any penetration of the flooring e.g. pipes etc.

I # I		4.8	2.05
Ĭ.	2/240 x 45	1.2	3.41
\vdash		2.4	3.21
		3.6	3.05
1 = 1		4.8	2.91
SOLID	2/290 x 45	1.2	3.97
l ŭ		2.4	3.76
		3.6	3.59
1 1		4.8	3.44
1 1		6.0	3.31
1 1		7.5	3.09



HOUSE AREA:	156.59 m ²
GARAGE AREA:	37.46 m ²
TOTAL AREA:	194.05 m ²



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Sheet Title **Furniture and Finishes Plan**

Sheet No.

General Notes

All construction shall be carried out in accordance with NZBC, and NZS 3604:2011 + Amendments. Aswell to comply with any local authority bylaws.

Corrosion Zone 1,2,3,4: Durability of fixings to comply with NZS 3604:2011 Section 4 and NZBC B2/AS1

ALL FIXINGS SUBJECT TO WEATHERING TO BE STAINLESS STEEL. ALL FIXINGS WITHIN 600mm OF THE GROUND TO BE STAINLESS STEEL.

Slip Resistance

Provide Slip Resistant broomed concrete finish to entry.

Timber Wall Framing

High Wind Zone Studs all H1.2 SG8.

EXTERNAL LOADBEARING WALLS. up to 2.7m 90 x 45 @ 400 crs

GABLE END WALLS. up to 2.4 M 90 x 45 @ 400 crs

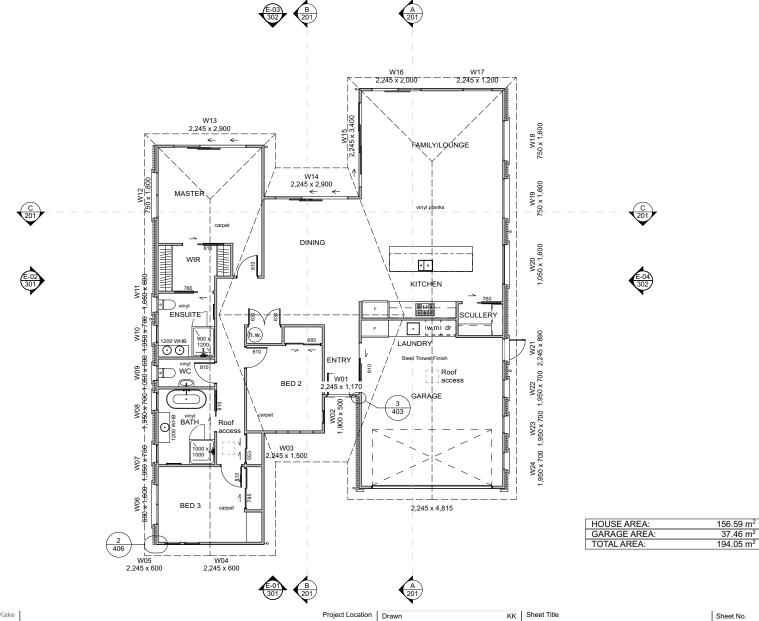
INTERNAL NON-LOADBEARING WALLS. up to 2.7m 90 x 90mm @ 600 crs

NOGS.

Provide 2 rows of nogs. For BGC cladding nogs @ 600crs

Internal Doors

All Internal doors unless otherwise noted to be 1980 H x 35mm thick Pre-Primed MDF Skins with Honeycomb Core.





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Floor Plan

Timber Wall Framing

High Wind Zone Studs all H1.2 SG8.

EXTERNAL LOADBEARING WALLS. up to 2.7m 90 x 45 @ 400 crs

GABLE END WALLS. up to 2.4 M 90 x 45 @ 400 crs

INTERNAL NON-LOADBEARING WALLS. up to 2.7m 90 x 90mm @ 600 crs

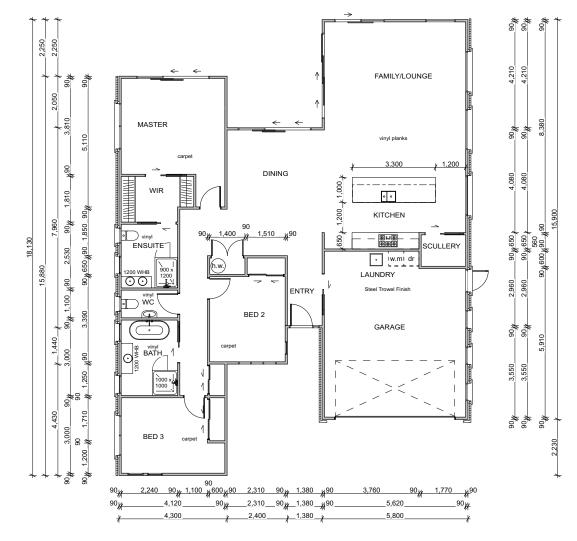
NOGS. Provide 2 rows of nogs.

Stud to Top plate Fixing

2/90 x 3.15 end nails + 2 wire dogs OR alternative 4.7kN capacity fixing

NOTE: Measurement to edge of framing

<u>/</u>			13,88	30				
1	4,300	k	3,780	k	5,8	00		1 k
90 W	4,120	90 W	3,780	90 w	5,6	20	,	90 W
90 _W	2,880 90 μ	1,150 µ90	3,780	90 //	3,760	90 _{kk}	1,770	M ₉₀





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45 Rock Ridge Drive, Whangarei

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Sheet Title **Wall Dimension Plan**

Sheet No.

General Notes

All construction shall be carried out in accordance with NZBC, and NZS 3604:2011 + Amendments. Aswell to comply with any local authority bylaws.

Corrosion Zone 1,2,3,4: Durability of fixings to comply with NZS 3604:2011 Section 4 and NZBC B2/AS1

ALL FIXINGS SUBJECT TO WEATHERING TO BE STAINLESS STEEL. ALL FIXINGS WITHIN 600mm OF THE GROUND TO BE STAINLESS STEEL.

Slip Resistance

Provide Slip Resistant broomed concrete finish to entry.

RibRaft Concrete Floor

25 mPa RibRaft concrete floor, 3/HD12 bottom bars and 2/HD12 top bars to the edge beams plus SE82 slab mesh on damp- proof membrane, over 25mm deep sand blinding on 150mm compacted hardfill extending 1.0m beyond building footprint.

Bottom Plate to Slab Fixing

External.

90x45mm H1.2 bottom plate + DPC fixed to floor with M12 Trubolts @ 900 crs min 50mm inset from slab edge

Internal

3/90x3.15mm powder actuated nails @ 600mm crs on internal walls.

Note: Install all bracing elements to manufactures specifications to comply with NZS 3604:2011

Slab Edge Insulation

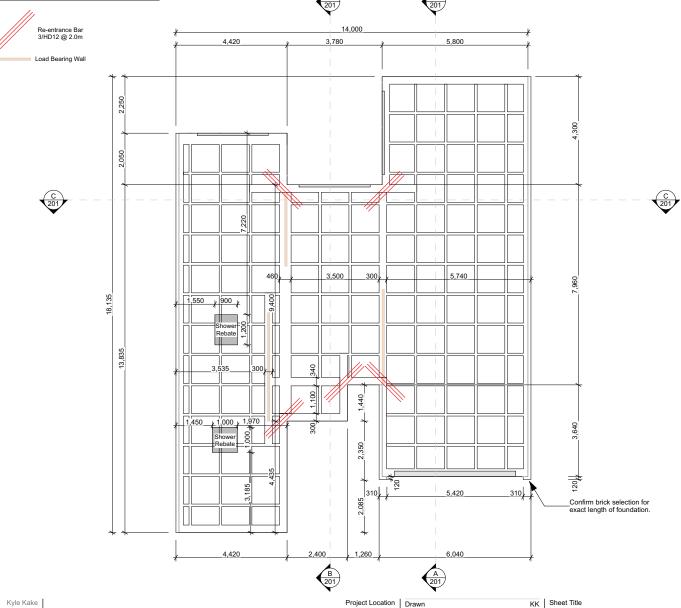
Resene Construction Systems Duratherm Blue edge insulation added to the exterior or the slab edge as per foundation details.







NOTE: Measurement to brick rebate edge



45 Rock Ridge Drive, Whangarei

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Foundation Plan

Sheet No.

General Notes

All construction shall be carried out in accordance with NZBC, and NZS 3604:2011 + Amendments. Aswell to comply with any local authority bylaws.

Corrosion Zone 1,2,3,4: Durability of fixings to comply with NZS 3604:2011 Section 4 and NZBC B2/AS1

ALL FIXINGS SUBJECT TO WEATHERING TO BE STAINLESS STEEL.
ALL FIXINGS WITHIN 600mm OF THE
GROUND TO BE STAINLESS STEEL.

Bottom Plate to Slab Fixing

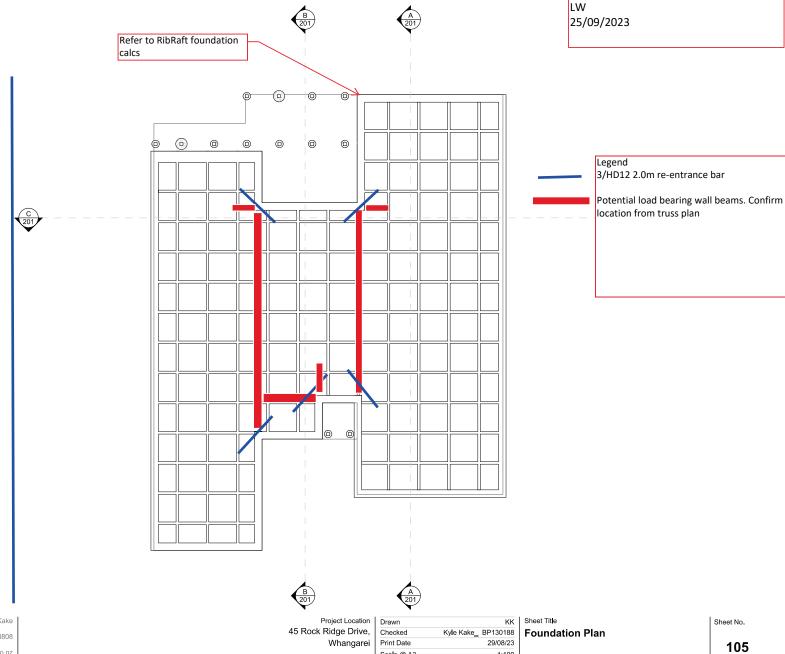
90x45mm H1.2 bottom plate + DPC fixed to floor with M12 Trubolts @ 900 crs min 50mm inset from slab edge

3/90x3.15mm powder actuated nails @ 600mm crs on internal walls.

Note: Install all bracing elements to manufactures specifications to comply with NZS 3604:2011

Retaining wall

175SED HD pole in a 0.45m diameter hole 2.0m deep for a maximum retained height of 1.m. Below a depth of .66m use 200x75 rails or double thickness of 200x50 well spiked together.





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Foundation Markup

KEY

Top Plate Continuous 2/190x45 SG8 Load Bearing Wall

Girder Truss

NOTE: Dimensions to wall framing

Lintel W12 as per Mitek Gang-Nail Ganglam manual Table 7A: Lintel supporting girder/setback trusses with light roof

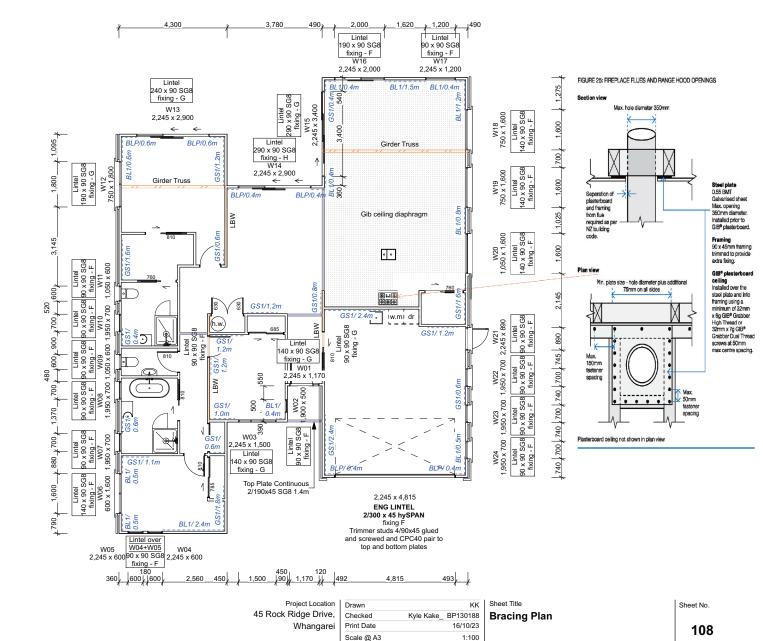
	LINTEL	SETBACK -	
	SIZE	(m)	5.0
	2/140 x 45	1.2	2.14
1 1		2.4	1.83
1 1		3.6	1.50
1 1		4.8	1.25
I [2/190 x 45	1.2	2.83
SOLID TIMBER		2.4	2.64
		3.6	2.38
ᅵ뿐		4.8	2.05
I≧Γ	2/240 x 45	1.2	3.41
-		2.4	3.21
		3.6	3.05
1 - 1 L		4.8	2.91
ᇊ	2/290 x 45	1.2	3.97
l io		2.4	3.76
		3.6	3.59
1 1		4.8	3.44
1 1		6.0	3.31
1 1		7.5	3.09
1 1			

Lintel W15 as per Design IT Calcs









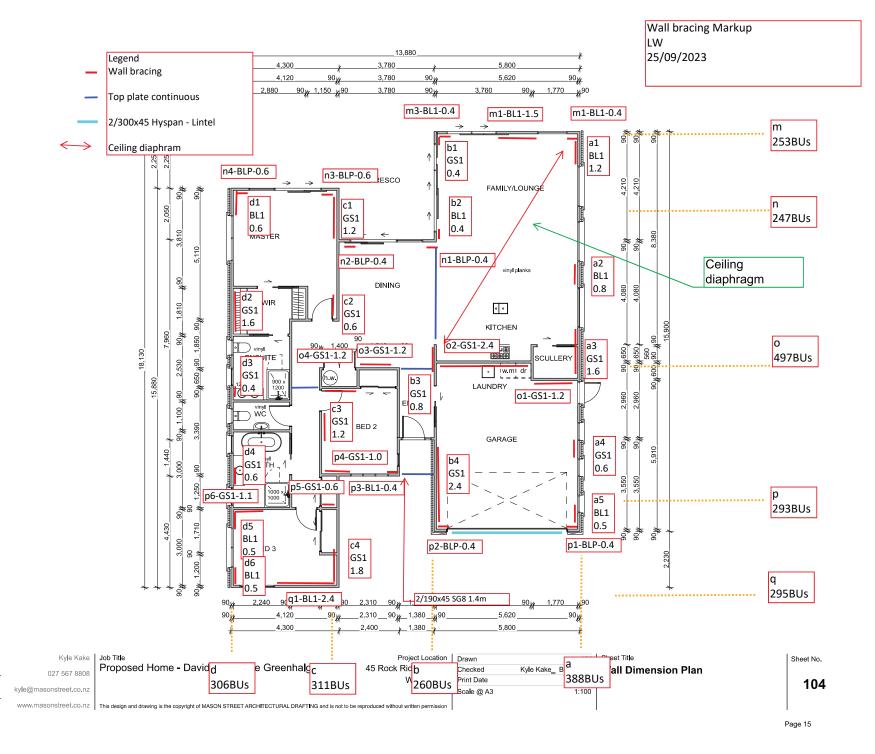
Stud to Top plate Fixing

alternative 4.7kN capacity fixing

MASON

architectural drafting

NZS3604 Type B 2/90 x 3.15 end nails + 2 wire dogs OR



General Drainage and Services notes

Locate existing power, water, telephone and sanitary drainage services. Allow to inform network operators as necessary

Plumbing and Drainage Notes.
All work to comply with NZBC, NZS3604 and all relevant local authority by laws and council regulations.

All drainage to comply with AS/NZS 3500 &

All drainage is Diagramatical, Drainlayer to determine on site drainage layout and provide asbuilt plan when complete.

Mechanical Ventilation

Provide Mechanical ventilation through soffit penetration in all bathrooms and Mechanical ventilation via rangehood through roof

Mechanical extract fans (including associated ducting) must have a flowrate not less than: a) 25L/s for showers and Baths. b) 50L/s for cooktops.

Hotwater Cylinder

Hotwater Cylinder. Provide safe tray below, Temperature and Pressure relief Valve and Siesmic Restraint. Refer to specifications for more detail

PRINT THIS PLAN IN COLOUR

KEY 65 Ø PVC-U Sewer branch pipe Grade - 1:40 100 Ø PVC-U Sewer Drain pipe Grade - 1:60 100 Ø PVC-U Stormwater line Grade - 1:60 ORG - 20mm above paved areas sloping away - 75mm above grass & garden areas - 150mm below finished floor level TV 50 Ø Terminal Vent Rodding Point 80 Ø PVC-U Downpipes Mechanical Vent Rangehood Vent over Hobbs

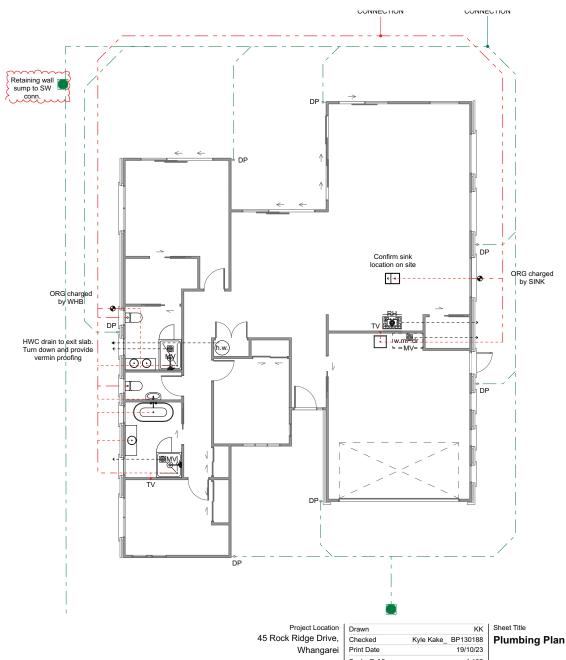
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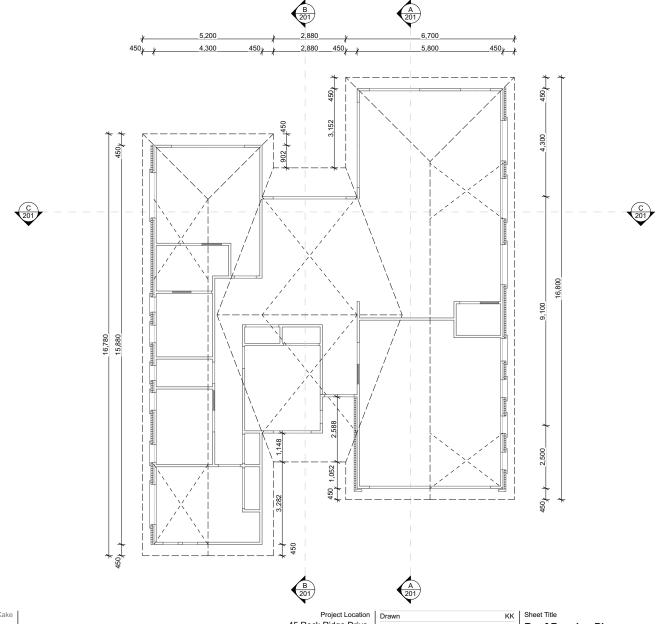
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Sheet No.



Pre-fab Roof Trusses @ 900 crs Prefabricated roof trusses at 900 crs to manufacturers specification. Manufacturer to supply producer statement

Purlins - High 70x45 H1.2 purlins on flat @900 crs. Purlin end span 600mm. 2.4kN Fixing: 1/10g self-drilling screw, 80 mm long. OR Alternative 2.4kN fixing





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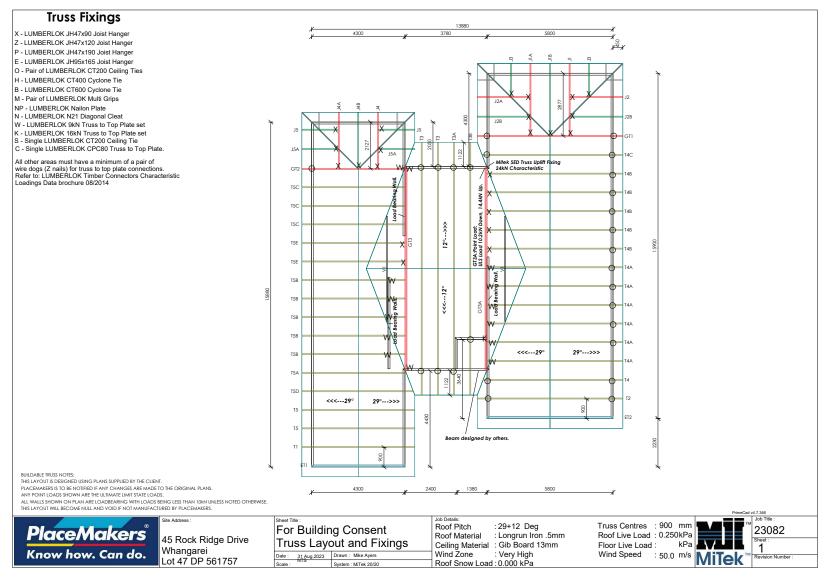


45 Rock Ridge Drive, Whangarei

n	Drawn	
) ,		Kyle Kake_ BP130
i	Print Date	16/10
	Scale @ A3	1:

0188 **Roof Framing Plan** 0/23 :100

Sheet No.





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Sheet Title Truss Design

Sheet No.

WDC

Corrugated Roof Cladding

0.40mm thick corrugated Colorsteel ENDURA 0.40mm thick corrugated Colorsteel ENDURA (roofing system, over COVERTEK 407 Roof (Underlay, 70x45 H1.2 purlins on flat @900crs, over H1.2 Rafters/Trusses. Fixing pattern: Hit one Miss One

4.5mm Hardieflex soffit lining

4.5mm Hardieflex soffit lining. Selected colour paint finish.

Marley Pvc Spouting & Downpipes

Marley Pvc Spouting on 180 Metal Fascia

Bargeboard

180 Coloursteel Metal Bargeboard

Valley Gutters NZBC E2.

8.1.6.2 Valley Gutters and Hidden Gutters

Valley gutters and hidden gutters shall be constructed as shown in Figures 50 and 51 for the applicable roof cladding (except for membrane roofing) and:

- a) Not change direction in plan
- b) Have a minimum underlap to roof cladding as specified in Figures 27, 37, 50, and 51 for the relevant roof cladding
- c) Be formed from any of the materials outlined for flashings in Paragraph 4.3 except 4.3.10 and 4.3.11 d) Be fixed at upper ends only, and be secured with a purpose-made clip system for the remaining length to enable expansion/ contraction along the length of the autter
- e) Discharge into an internal gutter or eaves gutter/ spouting. In addition:

f)Have minimum slopes of 8° for hidden gutters, and to Table 8 for valley gutters g) Hidden autters receive no discharge from downpipes or spreaders

h) Spreaders not discharge directly into a valley gutter

i)Valley gutters be minimum 250 mm wide where receiving run off from spreaders.

Table 8:	Maximum catchme valley gutters Paragraphs 8.1.6.2, 9.9.4.4, 9.9.10.1, Fig	8.4.16.2, 9.7.7.1,
Gutter	Maximum	Minimum

Gutter width	Maximum catchment area	Minimum roof pitch
250 mm	25 m ²	8°
160 mm to 249 mm	16 m ²	12.5°
NOTE: Catchment areas are limited to:		



(2) Rainfall intensity with average recurrence interval (ARI) no greater than 200 mm per hour.

architectural drafting

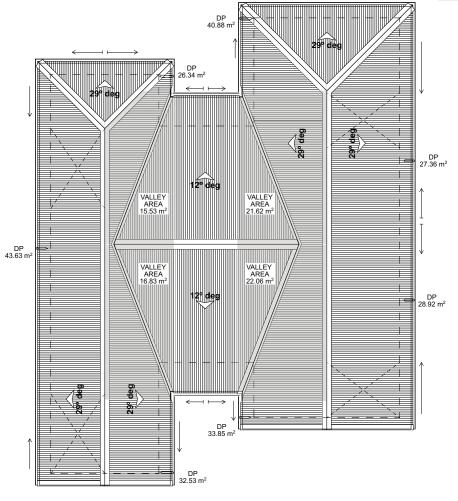
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Gutter Cross Sectional Area Based on 100mm/Hr Max serviced roof area = 43.63m²

Flow capacity = 43.63 x 1.67 = 72.86

Min Gutter Cross Sectional Area = (72.86/0.0016)0.8 =5'329.73mm²

Half Round Gutter Cross Section = 5958.00mm² - COMPLIES DP sizes - 74Ø DPs can serve 85m2 of roof plane area - COMPLIES





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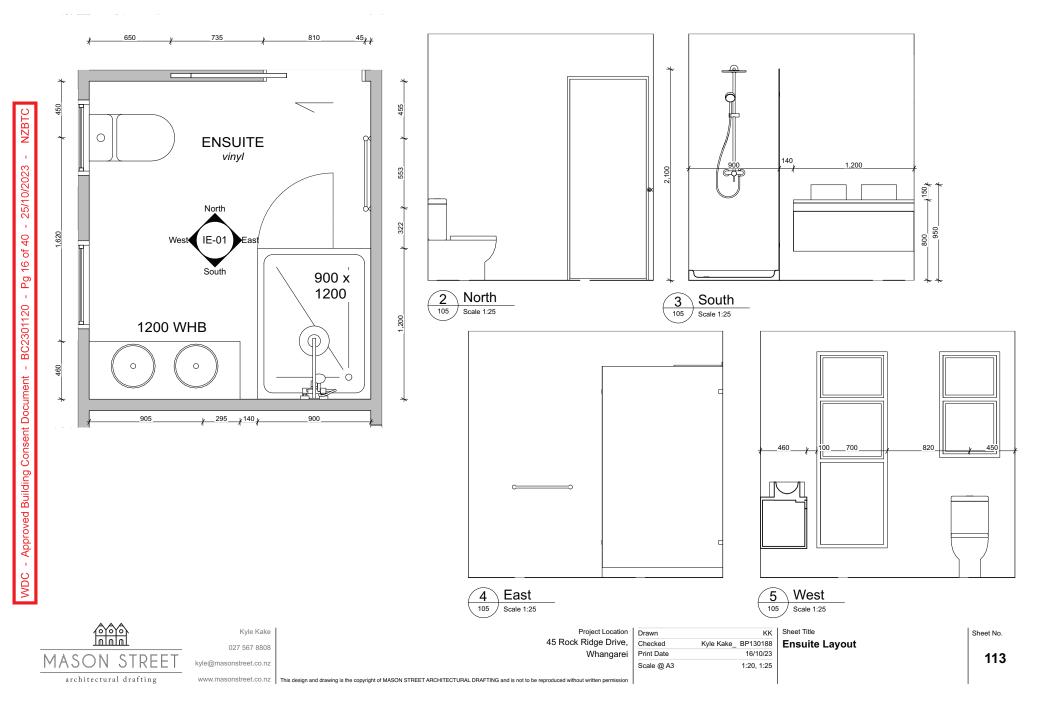
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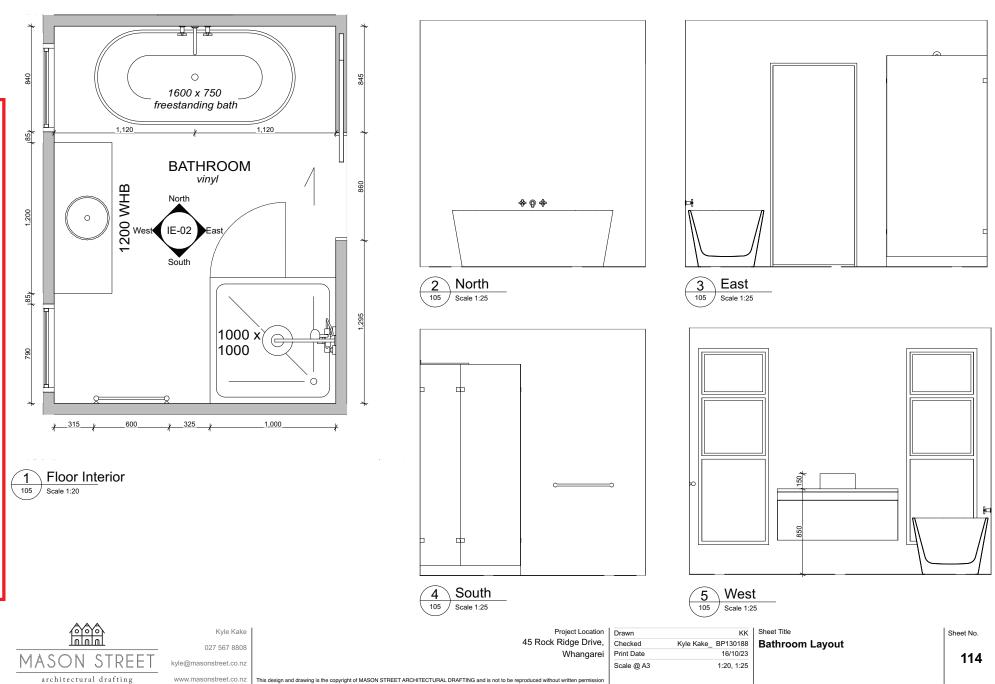
Sheet Title Roof Plan

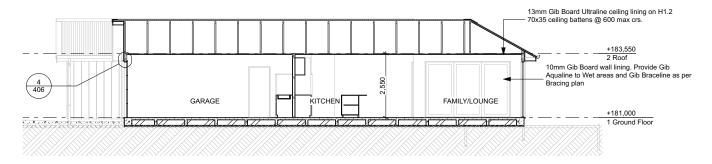
Sheet No.

112

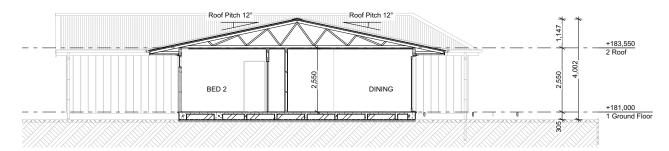
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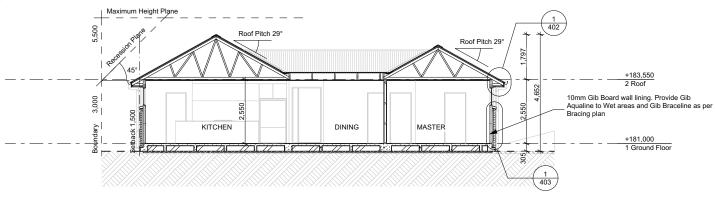




Section Scale 1:100



Section Scale 1:100







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Project Location | Drawn 45 Rock Ridge Drive, Whangarei

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Sheet Title Sections

Sheet No.

General Notes

All construction shall be carried out in accordance with NZBC, and NZS 3604:2011 + Amendments. Aswell to comply with any local authority bylaws.

Corrosion Zone 1,2,3,4: Durability of fixings to comply with NZS 3604:2011 Section 4 and NZBC B2/AS1

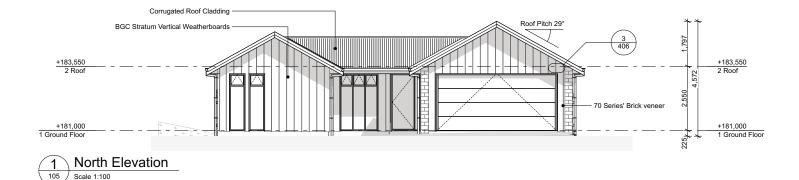
ALL FIXINGS SUBJECT TO WEATHERING TO BE STAINLESS STEEL. ALL FIXINGS WITHIN 600mm OF THE GROUND TO BE STAINLESS STEEL.

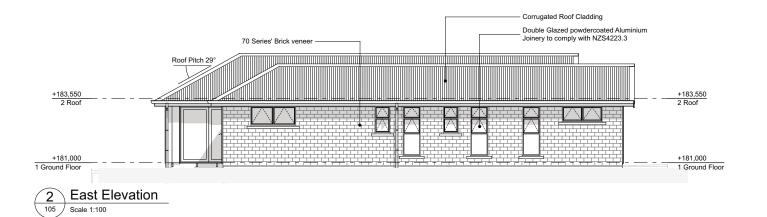
Finished Floor to Ground levels:

To unprotected ground 225mm min. To Permanent paving 150mm min.

To unprotected ground 150mm min. To Permanent paving 100mm min.

BUILDING ENVELOPE RISK MATRIX				
All Elevations				
Risk Factor Risk Severity Risk Score				
Wind zone (per NZS 3604)	High risk	1		
Number of storeys	Low risk	0		
Roof/wall intersection design	Low	0		
Eaves width	High risk	2		
Envelope complexity	Medium risk	1		
Deck design	Low risk	0		
Total Risk Score:		4		









Project Location 45 Rock Ridge Drive, Whangarei

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Print Date	16/10/23
Scale @ A3	1:100

Sheet Title Elevations

Sheet No.

WDC

General Notes

All construction shall be carried out in accordance with NZBC, and NZS 3604:2011 + Amendments. Aswell to comply with any local authority bylaws.

Corrosion Zone 1,2,3,4: Durability of fixings to comply with NZS 3604:2011 Section 4 and NZBC B2/AS1

ALL FIXINGS SUBJECT TO WEATHERING TO BE STAINLESS STEEL.
ALL FIXINGS WITHIN 600mm OF THE GROUND TO BE STAINLESS STEEL.

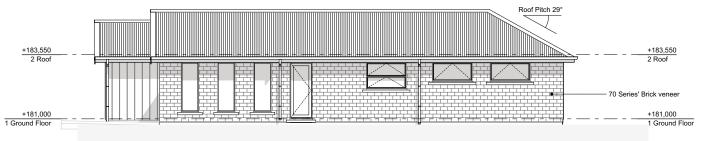
Finished Floor to Ground levels:

To unprotected ground 225mm min. To Permanent paving 150mm min.

To unprotected ground 150mm min. To Permanent paving 100mm min.



South Elevation Scale 1:100 105







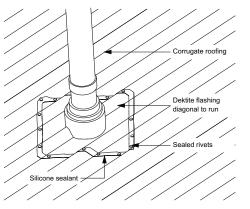
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Project Location | Drawn 45 Rock Ridge Drive, Checked Whangarei Print Date

KK Kyle Kake_ BP130188 16/10/23 Scale @ A3 1:100

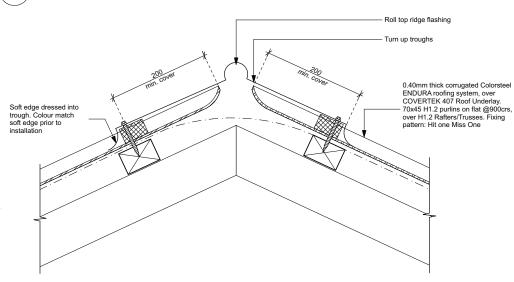
Sheet Title **Elevations**

Sheet No.



- 1) Max. roof pitch for this flashing 45° deg, min. pitch 10° deg if base of flange covers one or more complete troughs.
- 2) For pipes up to 85mm diameter.

Roof Penetration Detail



Ridge Detail

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Sheet Title **Roof Cladding Details**

0.40mm thick corrugated Colorsteel ENDURA roofing system, over COVERTEK 407 Roof Underlay. 70x45 H1.2 purlins on flat @900crs, over H1.2 Rafters/Trusses. Fixing pattern: Hit one Miss One MIN. COVER _ 0.55mm bmt prefinished flashing to 2/corrugations match roof cladding Flashing 70mm min cover over barge & 2/corrugations over roofing. 180 Coloursteel Metal Bargeboard

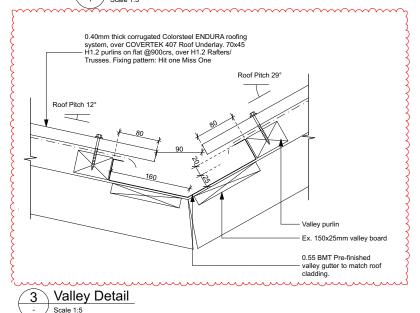
Fly Rafter

4.5mm Hardieflex soffit lining.

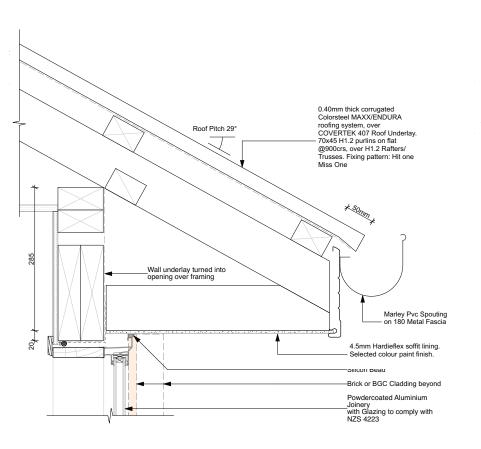
Selected colour paint finish.

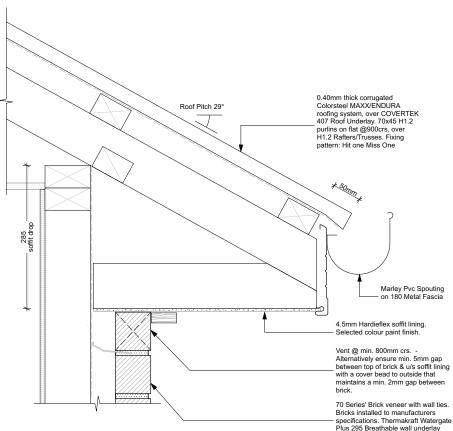
Barge Detail Scale 1:5

PURLIN



Sheet No.





Joinery to Soffit Detail 201 | Scale 1:5





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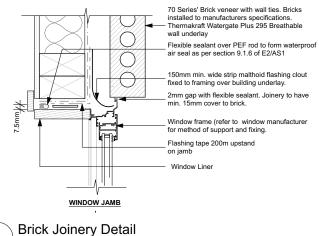
Project Location | Drawn 45 Rock Ridge Drive, Checked Whangarei Print Date Scale @ A3

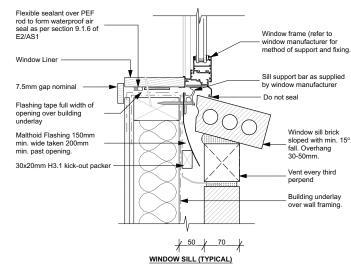
Sheet Title KK Kyle Kake_ BP130188 Joinery to Soffit Details 16/10/23

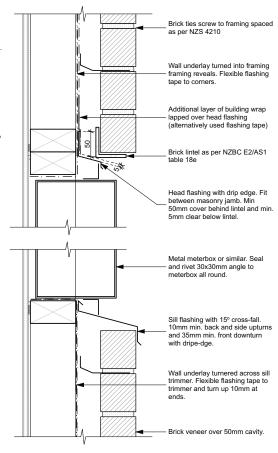
1:5

Sheet No.

201







201

Brick Joinery Sill Detail

Scale 1:5

20x20mm H3.2 kick out batten or 40mm clouts left proud 20mm

Flashing tape continuous around corner (100mm min. wide each side)

200mm super-course 500 polyethylene flashing or similar, clout lined over building underlay. NOTE: Jamb flashing to overlay sill flashing (if any)

Selected joinery. Ensure 1-2mm gap to

Thermakraft Watergate Plus Building underlay continuous around corner, installed as per manufacturers

70 Series Brick veneer over 50mm nominal cavity.

4 Brick Meterbox Detail



brick face.

specifications.

Brick to Joinery Jamb Detail

1-2 mm GAP

Scale 1:5

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architectural drafting

Kyle Kake
027 567 8808
kyle@masonstreet.co.nz

Project Location 45 Rock Ridge Drive, Whangarei

 Drawn
 KK

 Checked
 Kyle Kake_ BP130188

 Print Date
 16/10/23

 Scale @ A3
 1:5

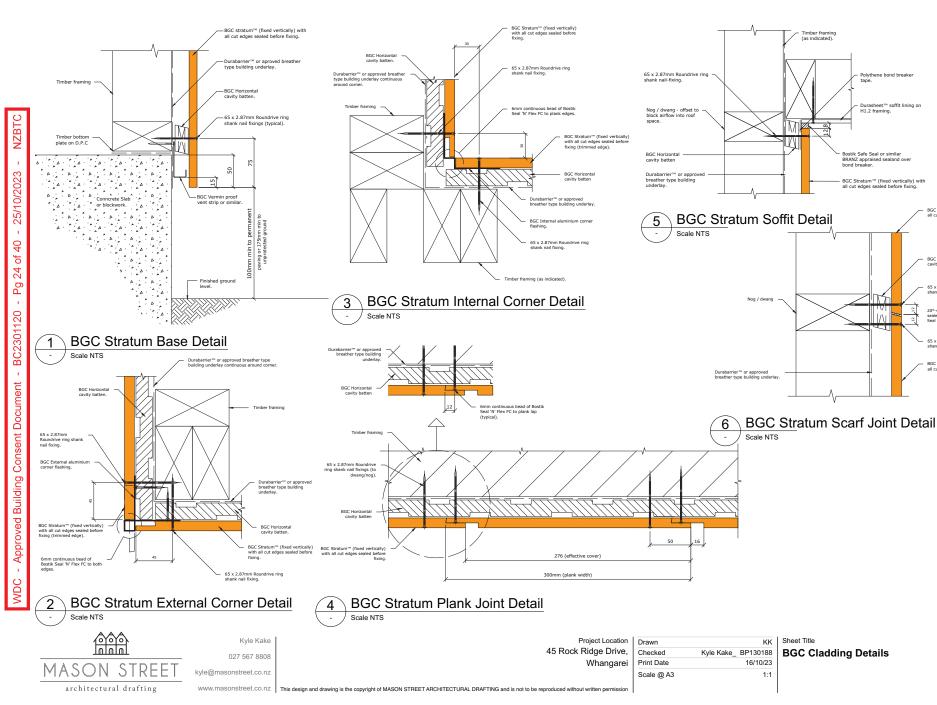
Sheet Title

Brick Joinery Details

Sheet No.

403

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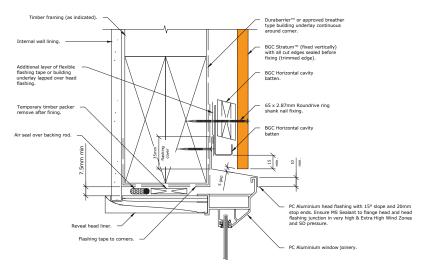


65 x 2.87mm Roundrive ring

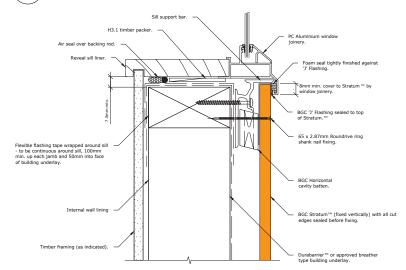
65 x 2.87mm Roundrive ring shank nail fixing.

BGC Stratum™ (fixed vertically) with all cut edges sealed before fixing.

Sheet No.



BGC Stratum Joinery Head Detail Scale NTS

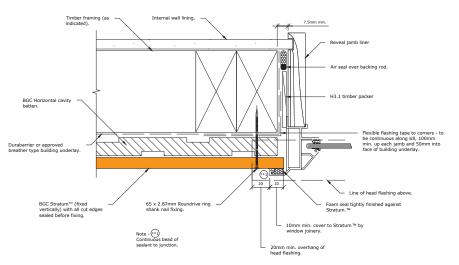


BGC Stratum Joinery Sill Detail

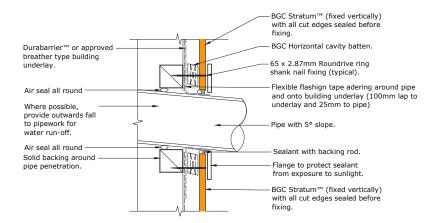
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BGC Stratum Joinery Jamb Detail Scale NTS



BGC Stratum Pipe Penetration Detail Scale NTS

Project Location 45 Rock Ridge Drive, Checked Kyle Kake BP130188 Print Date 16/10/23 Whangarei Scale @ A3

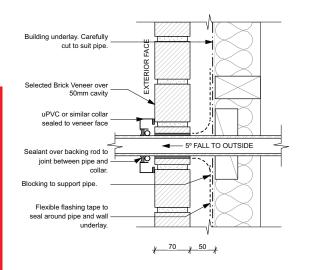
BGC Joinery Details

Sheet Title

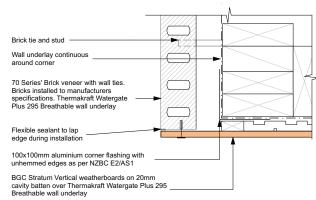
KK

1:1

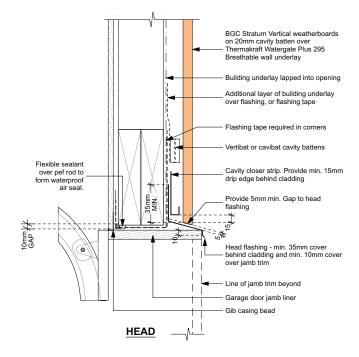
Sheet No.

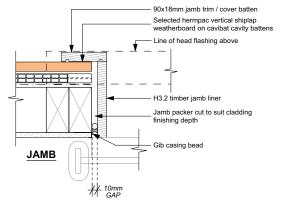


Brick Pipe Penetration Detail

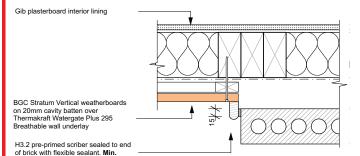


Brick to BGC External Corner Detail





Garage Door Details Scale 1:5



Brick to BGC Detail 301

15mm cover over brick veneer



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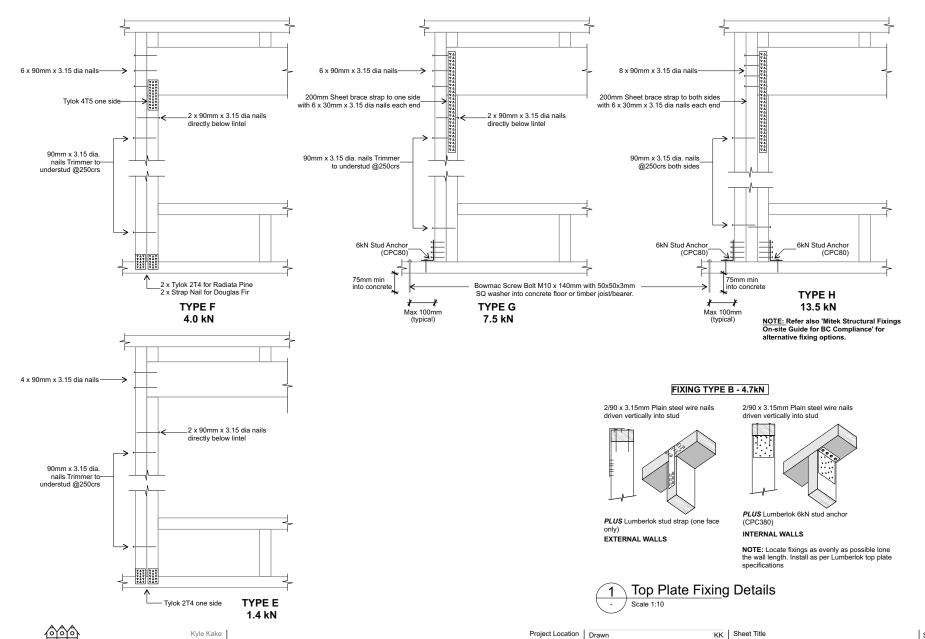
Sheet Title KK Kyle Kake BP130188 **Cladding Details** 16/10/23

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45 Rock Ridge Drive,

Whangarei

Checked

Print Date

Scale @ A3

Kyle Kake_ BP130188

16/10/23

1:10

Lintel Fixings

Sheet No.



DESIGN AND CONSTRUCTION

Ceiling diaphragms

GIB® plasterboard ceiling diaphragms are stiff and strong horizontal elements which effectively transfer loads to bracing walls. They themselves do not have a bracing unit rating but are used when bracing lines exceed 6m separation. The basic shape of a ceiling diaphragm is square or rectangular. Protrusions are permitted but cut-outs are not. The length of a ceiling diaphragm shall not exceed twice its width. Dimensions are measured between supporting bracing lines. Supporting bracing lines shall have a bracing capacity no less than the greater of 100 bracing units or 15 bracing units per metre of diaphragm dimension, measured at right angles to the line being considered, see figure 21.

Limitations for GIB® plasterboard ceiling diaphragms

Ceiling diaphragms may be constructed using any GIB® plasterboard provided perimeter fixing is at;

150mm centres for: Diaphragms up to 7.5m in length, no steeper than 15°.

100mm centres for: Diaphragms up to 7.5m in length, no steeper than 45°. Diaphragms up to 12m in length, no

Diaphragms outside these parameters must be specifically designed.

General fixing requirements for GIB® Ceiling Diaphragms:

- Linings must be installed over the entire area of the diaphragm.
- Fastening must be no less than 12mm from sheet edges and not less than 18mm from sheet ends.
- Sheets must be supported by framing members (e.g., ceiling battens) spaced at no more than 500mm centres for 10mm GIB® plasterboard and at no more than 600mm centres for 13mm GIB® plasterboard.
- Sheets within the diaphragm area may be fastened and finished conventionally in accordance with the publication entitled, "GIB® Site Guide". All joints shall be GIB® Joint Tape reinforced and stopped. It is recommended that sheet butt joints are formed off framing and back-blocked (see "GIB® Site Guide").
- Use full width sheets where possible. At least 900mm wide sheets with a length not less than 1800mm shall be used. Sheets less than 900mm wide but no less than 600mm may be used provided all joints with adjacent sheets are back-blocked (see "GIB® Site Guide" and figure 22).
- Fasteners are placed at the specified centres around the ceiling diaphragm with the corners fastened using the GIB EzyBrace® fastener pattern.

FIGURE 20: PROTRUSIONS AND CUTOUTS

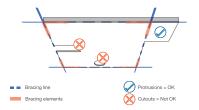


FIGURE 21: DIAPHRAGM BRACING LINING SPACINGS

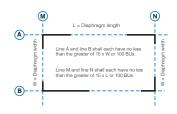
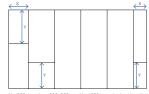
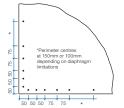


FIGURE 22: GIB® CEILING DIAPHRAGM SHEET WIDTHS AND LENGTHS



X = 900mm min or 600–900mm Y = 1800mm min sheet lengths min provided all adjacent joints at ends of ceilling diaphragms. are back-blocked.

FIGURE 23: GIR EZYRRACE® FASTENER PATTERN.



Unless stated all fastener spacings are maximums

architectural drafting

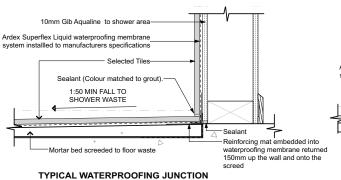
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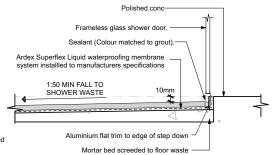
Project Location | Drawn KK Checked Kyle Kake BP130188 Print Date 19/10/23 Scale @ A3 1:1

Sheet Title Misc Details

Sheet No.



AT SHOWER WALL/FLOOR



TYPICAL WATERPROOFING JUNCTION AT SHOWER DOOR THRESHOLD

Polished conc Frameless glass shower screen. Sealant (Colour matched to grout).-Ardex Superflex Liquid waterproofing membrane system installled to manufacturers specifications 1:50 MIN FALL TO SHOWER WASTE 10mm Aluminium flat trim to edge of step down Mortar bed screeded to floor waste

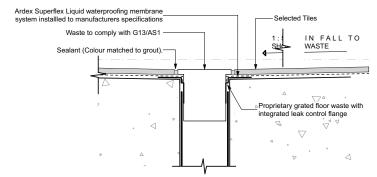
TYPICAL WATERPROOFING JUNCTION AT SHOWER SCREEN THRESHOLD

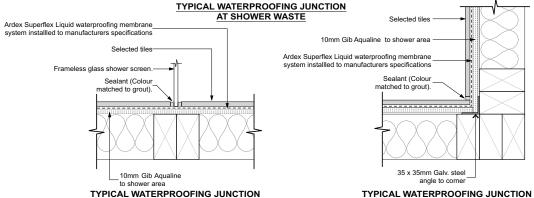
NOTES:

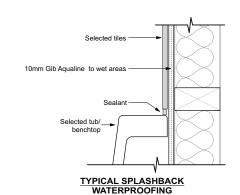
- WATERPROOFING MEMBRANE TO EXTEND 1.5M MIN RADIUS FROM SHOWER HEAD

-When enclosures, such as walls, screens, doors or curtains are used they shall be continuous from floor level or top of upstand to 1800 mm minimum above floor level and not less than 300 mm

-Where the shower floor has no upstand or where a wall, screen, door or curtain is omitted, the floor shall have a fall of no less than 1:50 towards the floor waste. The fall shall apply to the floor area within a radius of 1500 mm taken from a point vertically below the shower rose, or from any wall within that radius









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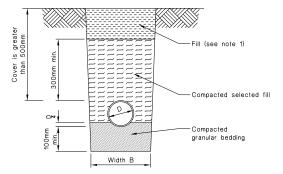
AT SHOWER SCREEN WALL JUNCTION

Project Location 45 Rock Ridge Drive, Whangarei

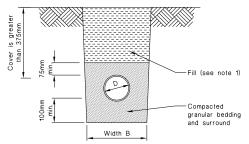
AT SHOWER WALL CORNER

KK Checked Kyle Kake BP130188 Print Date 16/10/23 Scale @ A3 1:5

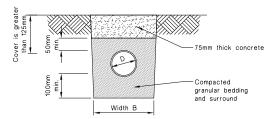
Sheet Title **Wet Area Details** Sheet No.



(a) Cover greater than 500 mm Bedding type 'B' of NZS 4452



(b) Cover greater than 375 mm Bedding type 'D' of NZS 4452

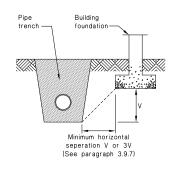


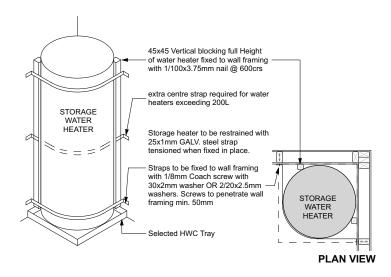
(c) Cover greater than 125 mm

NOTE: 1. 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.

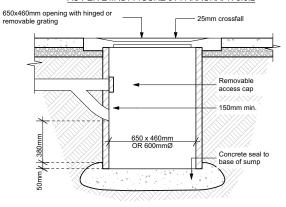
Relationship of Pipe Trench to **Building Foundation**





Hot Water Restraint Detail

TYPE-TWO SURFACE WATER SUMP AS PER E1/AS1 FIGURE 9 / PARAGRAPH 3.6.2



Sump suitable for up to 400m² surface area in 100mm/hr rainfall intensity area

Type Two Sump Detail Scale 1:20

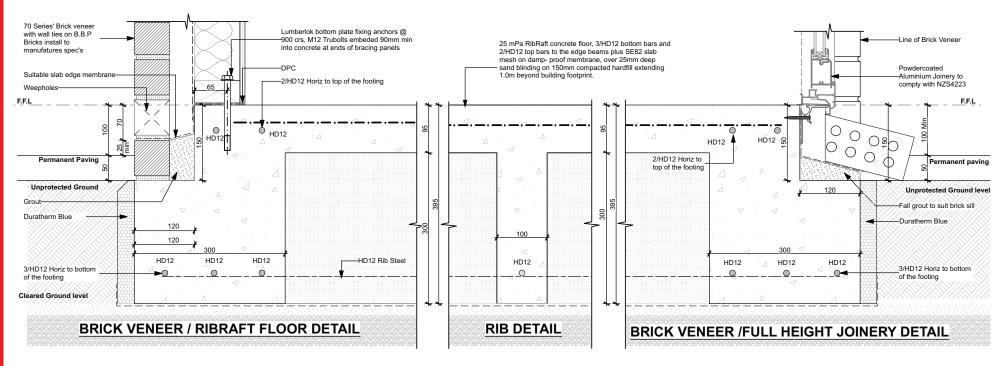


Project Location 45 Rock Ridge Drive

Project Location	Drawn Kk		
Ridge Drive,	Checked	Kyle Kake_	BP130188
Whangarei			16/10/23
	Scale @ A3		1:20, 1:1

Sheet Title Bedding and Backfilling

Sheet No.







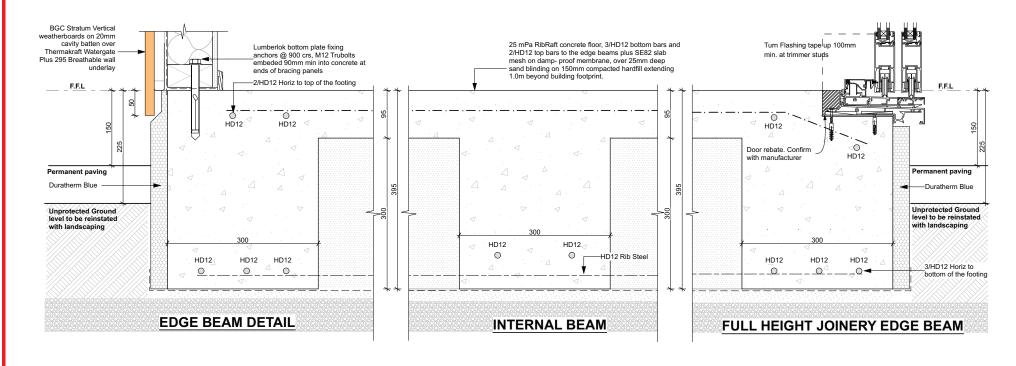




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Checked	Kyle Kake_ BP130188
Print Date	16/10/23
Scale @ A3	1:5

<	Sheet Title
В	Ribraft Details
3	
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Sheet No.







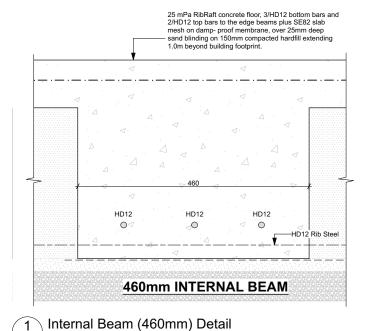
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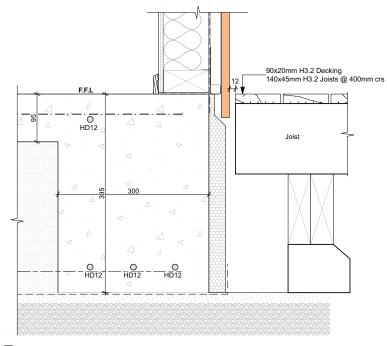
45 Rock Ridge Drive,

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Sheet Title KK **Ribraft Details** 16/10/23 1:5

Sheet No.





Deck to Dwelling Detail



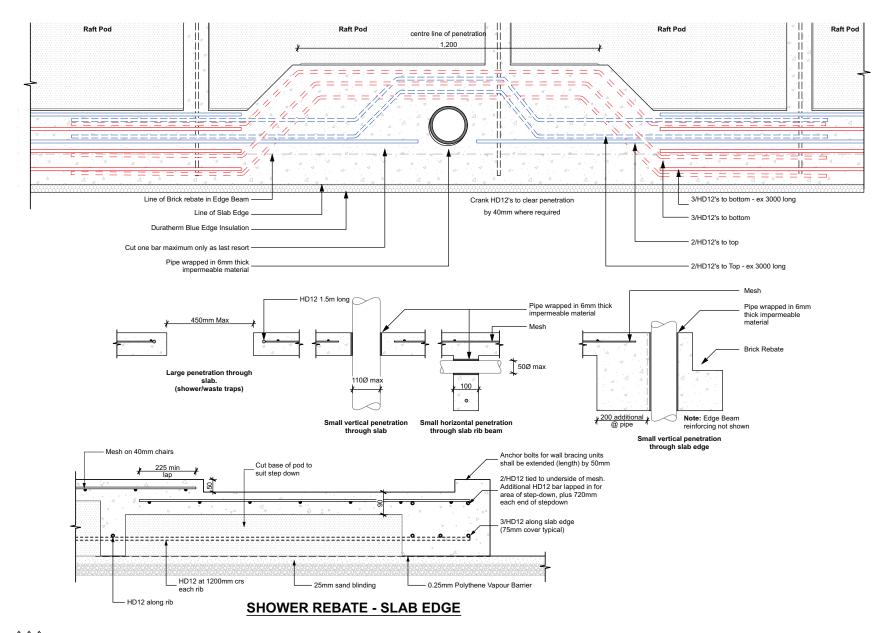


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Sheet Title **Ribraft Details** Sheet No.





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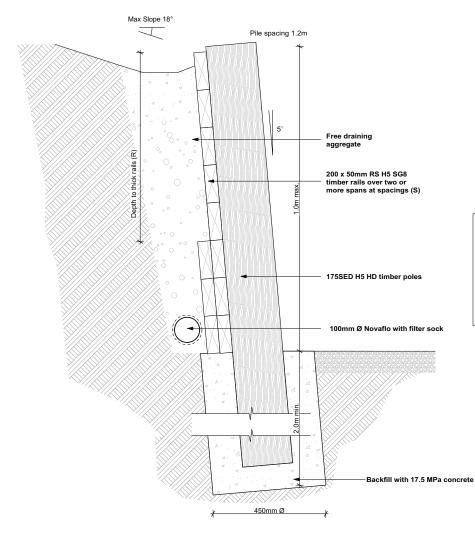
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Sheet Title **Ribraft Penetration Details**

Sheet No.



RETAINING WALL: 175SED H5 HD pole in a 750mm Ø hole 2.0m deep for a maximum retained height of 1.0m. Below a depth of 0.66m use 200x75 H5 rails or double thickness of 200x50 well-spiked together.

Retaining Wall Details Scale 1:10

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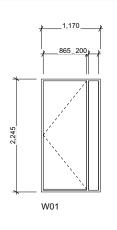
Checked Print Date Scale @ A3 1:10

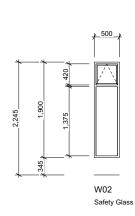
RS Eng Ltd Consulting Engineers This drawing is in accordance with our calculations where applicable.

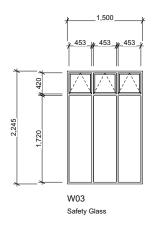
16/10/2023 Chartered Professional Engineer

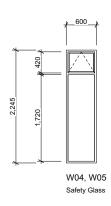
Sheet Title KK Kyle Kake_ BP130188 **Retaining Wall Details** 16/10/23

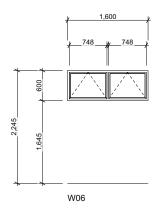
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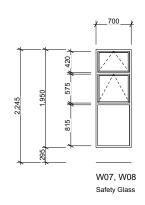


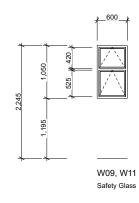


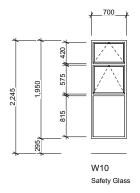












* Safety Glass to comply with NZS 4223.3

Provide Safety Glass to comply with NZS 4223.3 in the following locations:

All glazed doors where the area of the glass is more than 0.5 m2

Glazed side panels to doors where the area of the glass is more than 0.5 m2

Glazed panels that may be mistaken for an unimpeded path of travel

Low level glazing (wholly or partly within 800mm of FFL)

Bathrooms and wet areas that may have slippery floors

Glazing in and around stairs

Balustrades and barriers, including glazing that protects people from a fall of 1.0m or more Joinery manufacturer to confirm final joinery arrangements with contractor onsite



architectural drafting

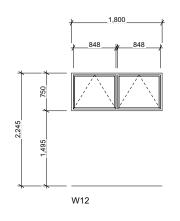
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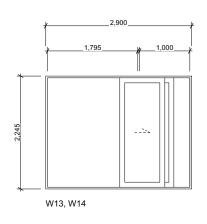
Project Location 45 Rock Ridge Drive, Whangarei

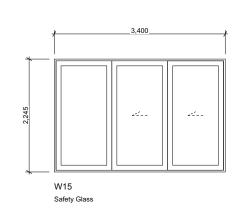
Drawn	KK
Checked	Kyle Kake_ BP130188
Print Date	16/10/23
Scale @ A3	1:50

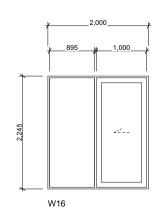
Sheet Title **Door & Window Schedule**

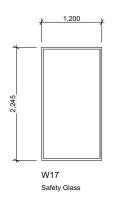
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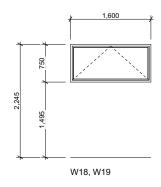


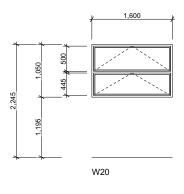


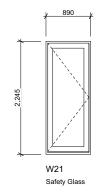














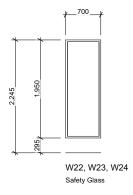
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Project Location	
45 Rock Ridge Drive,	Checked
Whangarei	Print Date
	Scale @ A

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Door & Window Schedule

Sheet No.





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Project Location 45 Rock Ridge Drive, Checked Whangarei Print Date

 Drawn
 KK

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 Kyle Kake_BP130188

 Print Date
 16/10/23

 Scale @ A3
 1:50

Sheet Title

Door & Window Schedule

Sheet No.



0800 MAMMOTH | www.mammoth.co.nz

H1 Calculation Report

H1 calculation in accordance with H1 Energy Efficiency Acceptable Solution H1/AS1 Fifth Edition Amendment 1 (4/08/2022) clause 2.1.3

8/09/2023

Project 45 Rock Ridge Dr

Whangarei

Client Mason Street Architectural Drafting Anna Parke

Contact Fmail anna@masonstreet.co.nz

Plan Date 31/08/2023

Climate Zone



Thank you for choosing Mammoth® insulation for your H1 calculations. Mammoth's thermal and acoustic insulation is made from 100% polyester using fibre from recycled PET plastic bottles.

The Mammoth products specified below represent the equivalent of 34,876 recycled plastic bottles.*

Made by NZ's first carboNZero insulation manufacturing company, everything from Mammoth's packaging to product is recyclable

Below is the summary of the construction elements and the insulation required for your project.

Congratulations for helping NZ protect our environment by keeping the carbon content locked up in the polyester fibre and reducing landfill waste

Construction Element	Insulation	
Truss bottom chord	R3.6 Mammoth blanket (225mm)	
Truss second layer	R3.2 Mammoth blanket (200mm)	
Truss heel	R2.5 Mammoth wall sections (90mm)	
Ceiling battens to single layer ceilings	R1.0 Mammoth blanket (compressed to 35mm)	
External walls	R2.5 Mammoth wall sections (90mm)	

Glazing percentage:	28.0%
Proposed building exceeds reference performance by:	0.27%
H1 Result:	PASS

H1 calculation in accordance with H1 Energy Efficiency Acceptable Solution H1/AS1 Fifth Edition (29/11/21) clause 2.1.3** Substitution of any product listed above voids the H1 report. This H1 report complies with H1v5 where lodged by 2/11/2023.

- 1. This calculation qualifies as an acceptable solution under Energy Efficiency Acceptable Solution H1/AS1 5th edition amendment 1 clause 2.1.3 (4/08/22) where the proposed building total heat loss is less than the reference building total heat loss, and the glazing area is no greater than 40% of the total wall area. This H1 report complies with H1v5 where lodged by 2/11/2023.
- 2. Construction R-values are based on the following sources:
- BRANZ House Insulation Guide (6th edition)

- Mammoth® Insulation Test Methodology & Results

- Design Navigator R-Value Calculator

- H1 Energy Efficiency Acceptable Solution H1/AS1

3. Where Mammoth products are specified, changing to another brand will void this report due to potential changes to construction R-values

Proposed Building Construction Elements

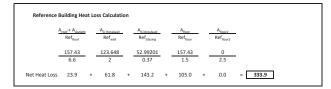
Roof	Insulation	Area (m2)	R Value	Reference
Profiled metal roofing, trusses @ 900c	R3.6+R3.2 Mammoth blanket (225+200mm)	123.7272	6.87	6.6
Truss roof (low clearance)	R3.6+R1.0 Mammoth blanket (225+45mm)	22.40767	4.21	6.6
Truss heel	R2.5+R1.0 Mammoth blanket (90+45mm)	11.2951	3.31	6.6

Wall	Insulation	Area (m2)	R Value	Reference
Brick veneer, 90x45 @ 400c	R2.5 Mammoth wall sections (90mm)	53.305	2.05	2
BGC Stratum, 90x45 @ 400c	R2.5 Mammoth wall sections (90mm)	49.52234	2.04	2
90x45 @ 600c, to garage	R2.5 Mammoth wall sections (90mm)	24.38	2.13	2

Joinery	Glazing	Area (m2)	R Value	Reference
Aluminium joinery	Low-E IGU argon filled	49.4327	0.37	0.37
Floor (slab on grade)	Insulation	Area (m2)	R Value	Reference
Ribraft concrete slab floor	HotEdge Extra	157.43	1.42	1.5
Floor (suspended floor)	Insulation	Area (m2)	R Value	Reference
Skylight		Area (m2)	R Value	Reference

H1 Calculation





Glazing percentage of proposed building: Proposed building thermal performance exceeds reference performance by H1 Result:





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Sheet Title H1 Schedule

Sheet No.

Table 8.19 - Nailing schedule for hand-driven and power-driven nails (see 8.8.6)

	Hand-dr	Hand-driven nails		Power-driven nails	
Joint	Length (mm) x diameter (mm) and type	Number/ Location	Length (mm) x diameter (mm) and type	Number/ Location	
Bottom plate to floor framing at:					
(a) External walls and internal wall bracing elements	100 x 3.75	2 at 600 mm centres	90 x 3.15	3 at 600 mm centres	
(b) Internal walls (may be nailed to floor decking)	100 x 3.75	1 at 600 mm centres	90 x 3.15	1 at 600 mm centres	
(c) Trimmer not exceeding 4.2 m long	100 x 3.75	4 (end nailed)	90 x 3.15	6 (end nailed)	
Dwang to stud	75 x 3.15 or 100 x 3.75	2 (skewed) 2 (end nailed)	75 x 3.06 90 x 3.15	2 (skewed) 2 (end nailed)	
Fishplate to straightened stud	60 x 2.8	4 each side of cut	60 x 2.8	4 (each side of cut)	
Half joint in top plate	75 x 3.15	3	75 x 3.06	4	
Lintel to trimming stud	75 x 3.15 or 100 x 3.75	4 (skewed) 2 (end nailed)	90 x 3.15	3 (end nailed)	
Ribbon board to stud	100 x 3.75	2	90 x 3.15	3	
Sill or header trimmer to trimming stud for: (a) Trimmer not exceeding	100 x 3.75	2 (end nailed)	90 x 3.15	3 (end nailed)	
2.4 m long (b) Trimmer not exceeding	100 x 3.75	3 (end nailed)	90 x 3.15	5 (end nailed)	
3.0 m long (c) Trimmers not exceeding 3.6 m long	100 x 3.75	4 (end nailed)	90 x 3.15	6 (end nailed)	
Solid plaster batten to stud	60 x 2.8 (galv.)	500 mm centres	60 x 2.8 (galv.)	500 mm centre	
Stud to plate	75 x 3.15 or 100 x 3.75	4 (skewed) 2 (end nailed)	75 x 3.06 90 x 3.15	4 (skewed) 3 (end nailed)	
Top plate 140 mm x 35 mm to 90 mm x 45 mm and top plate to lintel	100 x 3.75	2 at 500 mm centres	90 x 3.15	3 at 500 mm centres	
Trimming studs at openings, blocking and studs at wall intersections	100 x 3.75	600 mm centres	90 x 3.15	600 mm centre	
Trimming stud to doubled stud immediately under lintel	100 x 3.75	2	90 x 3.15	2	
Waling to stud	60 x 2.8	2	60 x 2.8	2	

- (1) Nail lengths and diameters are the minimum required.
- (2) Refer to 4.4 for required protective coatings for metal fasteners.
- (3) For studs up to 2.7 in length, 2 / 90 x 3.15 power-driven nails (end nailed) are sufficient.

Table 10.18 - Nailing schedule for hand-driven and power-driven nails (see 10.5.1)

	Hand-driven nails		Power-driven nails		
Joint	Length (mm) x diameter (mm) and type	Number/ Location	Length (mm) x diameter (mm) and type	Number/ Location	
Roof framing					
Rafter or jack rafter to ridge board or top plate (except skillion roofs) (see 10.2.1.3.7)	See <u>table 10.1</u>	See table 10.1	See <u>table 10.1</u>	See table 10.1	
Truss to top plate of external wall	See <u>tables 10.14</u> and <u>10.15</u>	See <u>tables</u> 10.14 and 10.15	See <u>tables 10.14</u> and <u>10.15</u>	See <u>tables</u> 10.14 and 10.15	
Truss to top plate of internal wall	100 x 3.75	2	90 x 3.15	2	
Ceiling batten to parallel top plate of internal wall bracing element	75 x 3.15	2 at 400 mm centres	90 x 3.15	2 at 400 mm centres	
Collar tie or cleat to rafter	75 x 3.15	4	75 x 3.06	4	
Flitches to ridge board and roof members for each side on both joints	60 x 2.8	3	60 x 2.8	3	
Hip rafter to top plate	See table 10.1	See table 10.1	See table 10.1	See table 10.1	
Underpurlin strut to underpurlin or top plate or strutting beam	100 x 3.75 together with fixing types as set out in table 10.5	2	90 x 3.15 together with fixing types as set out in table 10.5	3	
Strutting beam to top plate	See table 10.7	See table 10.7	See table 10.7	See table 10.7	
Roof braces at each connection to a framing member:					
(a) 90 mm x 19 mm brace	75 x 3.15	3	75 x 3.15	3	
(b) 70 mm x 45 mm brace runner	100 x 3.75	2	90 x 3.15	3	
(c) 90 mm x 45 mm brace	100 x 3.75	3	90 x 3.15	5	
(d) Steel strip brace (i) At ends (ii) Other cases (iii) To ends of braces	60 x 3.15 60 x 3.15 –	3 2 -	- - -	- - -	

- (1) Nail lengths and diameters are the minimum required.
- (2) Refer to $\underline{4.4}$ for required protective coatings for metal fasteners.
- (3) Proprietary fixings with the required fixing capacity indicated in the tables may be used.

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architectural drafting

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KK Sheet Title

NZS3604 Fixing Shedules

Sheet No.