Approved Building Consent documents

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

Inspection booking timeframes

Call received	before 3pm inspection will be done	after 3pm inspection will be done
Monday	Wednesday	Thursday
Tuesday	Thursday	Friday
Wednesday	Friday	Monday
Thursday	Monday	Tuesday
Friday	Tuesday	Wednesday

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

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

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

Lot 360 - Arbour green

-Sh et Index ay out ID **Layout Name** Site Plan Landscaping Plan Sediment Control & Drainage Plan Foundation Plan Plumbing Plan Silt Sock Document Ground Floor Plan Wall Framing Plan Roof Plan Roof Bracing Details Bracing Plan Bracing Connection Details Elevations Door & Window Schedule H1 Calculations Construction R Values Cross Section A & B Cross Section C Cross Section D Foundation Detail Plumbing & Drainage Details. Cladding Base Details Rebated Door Details

Typical Roof Details Integra Cladding Details Hermpac Cladding Details Hotwater & Wet Area Details

Lintel Fixing Details Table 7 - E2 NZBC



ARTIST IMPRESSION ONLY



ARTIST IMPRESSION ONLY

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Designer: IT

Drawn By: PS

Technician: PS



Ilaisa Design Limited

13 Henare Drive, iZone, Rolleston ILAISA Email: admin@ilaisadesign.co.nz



Lot 360 - Arbour green Lot 360 - Arbour green - Buxus Way, Rolleston ,Selwyn Drawing Title: Cover Sheet Job No: KAD Build LTD Stage: Detailed Design

Scale @ A3: Rev Date Description VV 24/07/24 Client Changes V1 -16/08/24 Client Changes -V1 -28/8/24 Developed Design -V1 -9/2/24 Detailed Design A0.01

19/12/2024

-V1





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13 Henare Drive, iZone, Rolleston ILAISA DESIGN TOTAL EMING, IZOTIO, NOTICESCOTI TOTAL EMING, IZOTIO, NOTICE EMING, IZOTIO





Lot 360 - Arbour green

Project Address: Lot 360 - Arbour green - Buxus Way, Rolleston ,Selwyn

Drawing Title: 3d Floor plan Job No: 24063 KAD Build LTD Client: Stage: Detailed Design

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| Drawing Title: | Rev Date | Description | Scale @ A3: | Print Date | Designer: IT Drawn By: PS

Technician: PS

VO 24/07/24 Client Changes
V1 -16/08/24 Client Changes
-V1 -28/8/24 Developed Design
-V1 -9/2/24 Detailed Design 19/12/2024 Rev: A0.02 -V1

LOT No: Lot 360 DP 608463

159.13 m² Total Floor Area (Over Framing): 159.13 m² Total Floor Area (Over Foundation):

Site Coverage Area

170.63 m² (Over Cladding and Covered Areas)

Territorial Authority Selwyn District Council

41.63%- (50% Allowable)

Building Height 8m TC1 Technic I Category N/A nagement Area

oncept subject to TA rules and regulations.
Il dimensions to be confirmed on site

ons to be confirmed on site ay be subject to subdivision developer's approval

IZS3604:2011 Single Pour foundation system with 50mm Poly (300-400mm depth or 300kpa as per geo tech report) (To be with Geotechnical Report)

ਰ

road crossing, services locations, street trees, lamp posts, ys, pedestrian islands etc is unknown/or existing - to be confirmed nation becomes available.

Information:

rmed with release of Certificate of Title

to be confirmed with Survey Plan

oor level to be 150mm minimum above crown of road as per IZBC E1 AS1 Figure 1 or the lowest point of the boundary as per Figure .E1/AS

indicative only. Landscaping to be confirmed by the client. All comply with the relevant Covenants.

liances Requiring RC:

teps &

Approved Building

Step's rappropriate landscaping is to be provided if drop from extern contact generations generated and statement of the stat r appropriate landscaping is to be provided if drop from external on-slip surface in accordance to NZBC D1/AS Table 2. Convey ter from sealed drive to an appropriate approved outfall.

D.P: Site Area Climate Zone Earthquake Zone Zone 2 Exposure Zone Zone C Lee Zone Nο 40-50

Wind Zone

Rainfall Range Wind Region

Snow Zone Zone N4 - 0.9kPa TBC with NZS3604 - Check ASL (Above Sea Level) Coastal Hazard

High (Confirm Wind zone with council)

As per the Selwyn Flood Assessment Report:

The minimum finished floor level shall be:

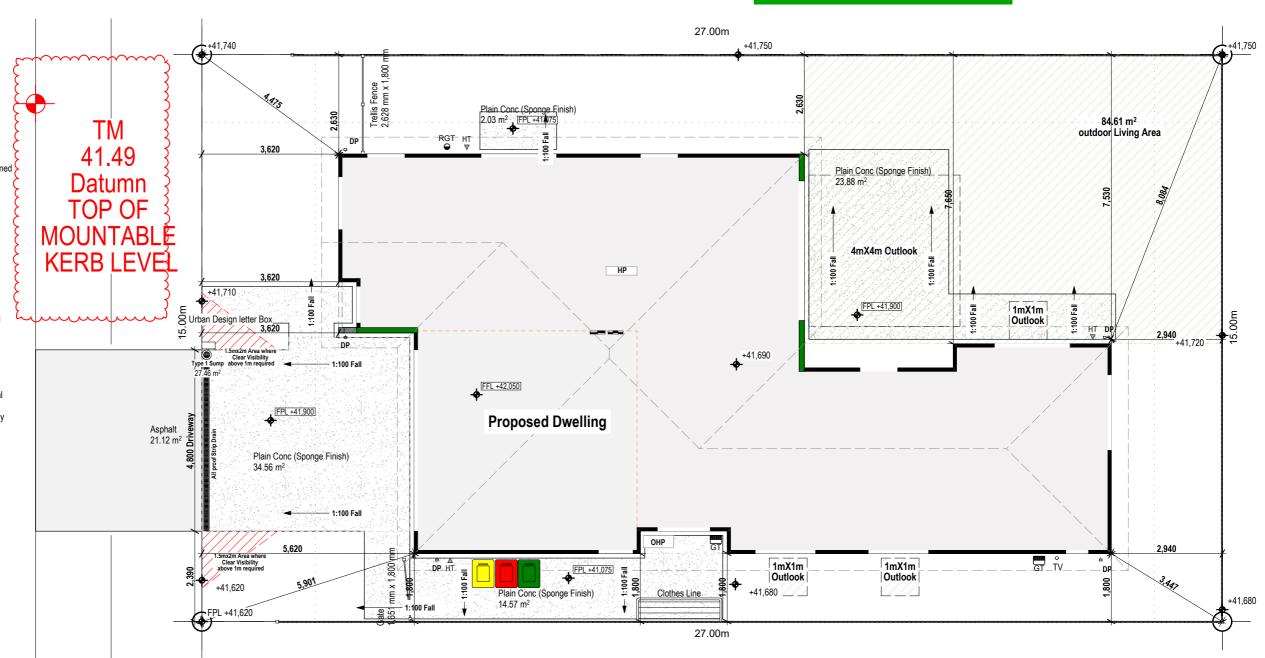
For Lot **360**: FFL m (LVD37): **42.010** Our proposed FFL: 42.050 Site Plan Legend

-1:100 Fall to planting or grass area

1:100 Fall -



Planning Approved 20/12/2024 philld



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13 Henare Drive, iZone, Rolleston 7614 ILAISA / DI4 Email: admin@ilaisadesign.co.nz





Lot 360 - Arbour green Project Address:

Lot 360 - Arbour green - Buxus Way, Rolleston ,Selwyn

Drawing Title: Site Plan Job No: 24063 Client: KAD Build LTD Stage: Detailed Design

Designer: IT

Drawn By: PS

Technician: PS

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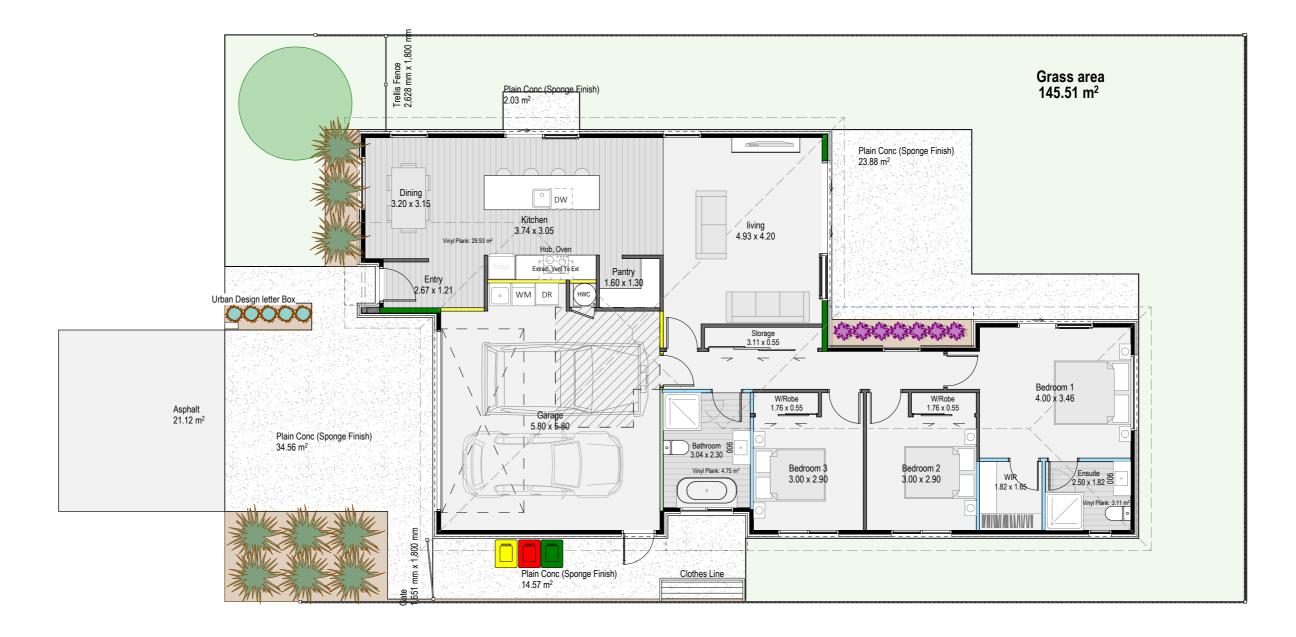








ıs griffithii 'Evergreen Ash .2m High when Planted 0





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Lot 360 - Arbour green Project Address: Lot 360 - Arbour green - Buxus Way, Rolleston ,Selwyn Drawing Title: Landscaping Plan 24063 Job No: Client: KAD Build LTD

Detailed Design

Stage:

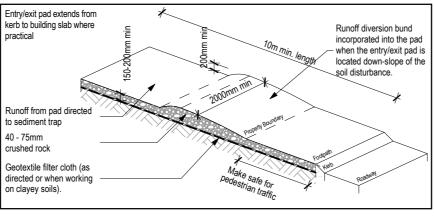
Designer: IT

Drawn By: PS

Technician: PS

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V1 -16/08/24 Client Changes
-V1 -28/8/24 Developed Design
-V1 -9/2/24 Detailed Design 19/12/2024 Sheet No: Rev: A1.02 -V1

- Rumble pad to be created in accordance to guidelines provided by the local Council & maintained in good condition throughout it's period of use.
- All ground cover/vegetation outside of immediate build area to be maintained throughout period of house build. This includes grass verges on the street frontage.
- Any stockpiles of soil or excavated material are to be kept to the rear of the site & covered with imprevious
- Roof downpipes are to be connected to the installed stormwater drainage as soon as practical once roof cladding has been installed. Until this point ensure water run-off from downpipes is directed away from build area but not on to neighbouring properties.
- No building work will be started on this project until the construction of an approved stormwater outfall has been completed for this proposed lot.



Stabilised Entry/Exit Pad

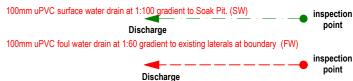
Site Plan Legend

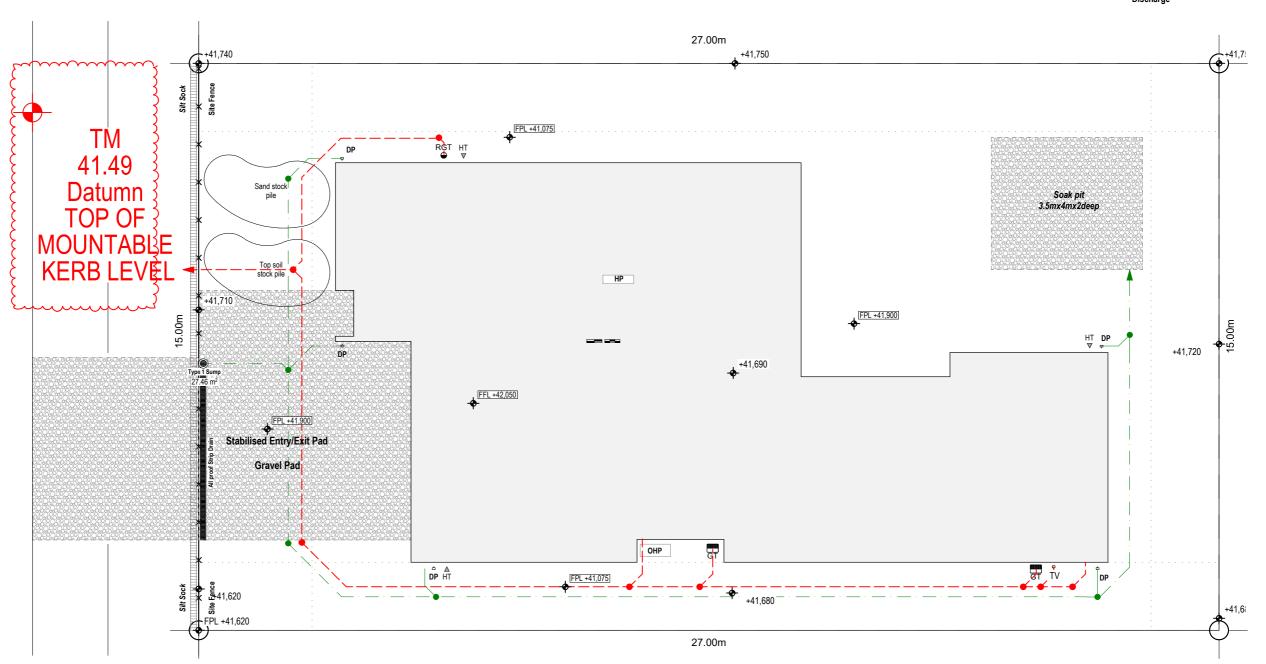
-Site fencing:

-Main contractor to provide 2m min. high chain link fence (min. size 50 x 50mm) to prevent unauthorised entry to the site. All fencing to comply with F5 including relevant hazard

-Main contractor to provide on site a specific Health & Safety policy which is to be viewed & signed by all persons entering the site.

Legend G13/AS1/AS2





1:100 Sediment Control Plan

Scale 1:100

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Lot 360 - Arbour green Project Address: Lot 360 - Arbour green - Buxus Way, Rolleston ,Selwyn Drawing Title: Sediment Control & Drainage Plan Job No: 24063 KAD Build LTD Client:

Detailed Design

Stage:

Designer: IT Drawn By: PS Technician: PS

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600mm crs max, extending 400mm min into slab.

blinding layer and 150mm layers compacted AP40 granular fill.

- Slab & footings to be 20MPa @ 28 days of standard curing.

Inaccordance with NZBC 3604:2011 clause 7.5.8.6.1

, maximum riser height 190mm

to rod & earth it to the meterbox.

n offset)

g to centre of waste.

-200mm wide concrete foundation footing reinforced with 2/D16 bars & D10 starters @

- 1/4 deep saw cut into concrete slab @ 6m crs. max. @ ratio of 1:2 max. - Shrinkage control joints may be cut at an angle as long as the included angle is not less than 60°

- Avoid construction joints & shrinkage controls under tiled areas. No shrinkage control

mentary reinforcing to internal corners where shrinkage controls do not meet

oors with more than one finished level, ensure step in foundation is constructed

ser locations have a typical offset of 140mm from internal line of framing to

MPa concrete in accordance with NZBC D1/AS1. Minimum tread depth

of waste. (Manufacturers technical specifications should be consulted to

& Tub riser locations have a typical offset of 45mm to centre line of wall

in floor slab must be earthed. Earth with 16mm REO rod brought up into e wall below meterbox & wired to the mesh. At prewire, connect a clamp & piece

num heights of concrete slab on ground above surrounding ground levels to be:

er cladding - 150mm to sealed surface & 225mm to unsealed ground as per

ed floor level to be 150mm minimum above crown of road as per NZBC E1/

n layout of fittings of kitchen & bathroom etc. before foundation commences.

igure 1 or the lowest point of the boundary as per Figure 2 ,E1/AS1.

cuts to be placed under framing that is to be used as a bracing element.

-20MPa 100mm thick concrete floor reinforced with SE62 mesh on 0.25mm thick

polythene DPM, 50mm H Grade EPS Polystyrene underslab,5- 25mm max sand

12.320

-Overall Slab Dimensions with Framing plan Prior to set out

-Confirm Down pipe locations with Roof Plan

20,440

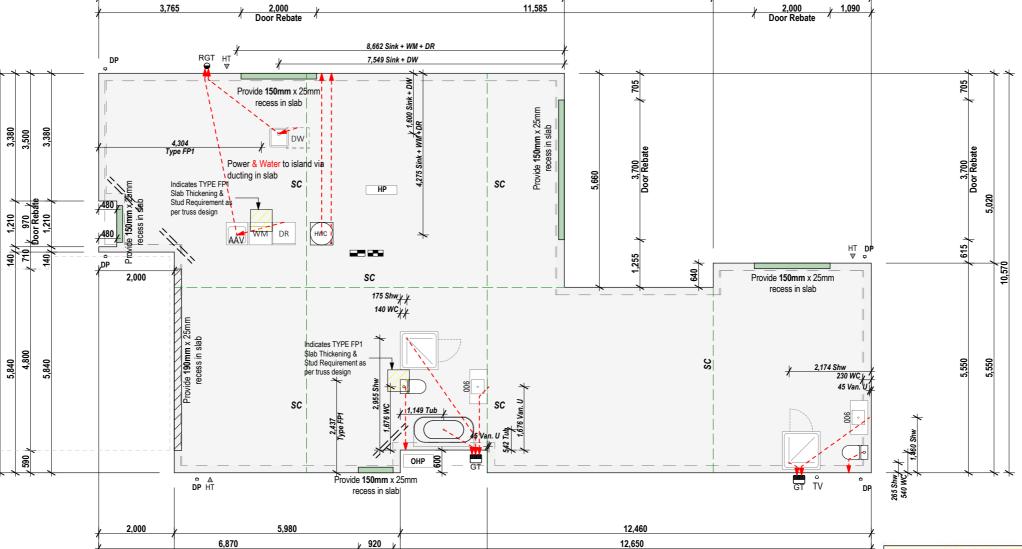
-Confirm Cladding Rebates with Elevations & Groundfloor Plan.

-Confirm Drain location with fixture type.

Overall DIM Overall DIM Rebate DIM Framing DIM

Make allowances in slab for earthing of Meter board, Run





Ground Floor Foundation Plan

Scale 1:100

TYPE FP1 375mm² Pad 2 x D12 Bars both ways

SLAB THICKENING &

STUD REQUIREMENTS

Print Date

-V1

19/12/2024

ILAISA

Approved Building Consent Document

13 Henare Drive, iZone, Rolleston 7614

KAD

Lot 360 - Arbour green Lot 360 - Arbour green - Buxus Way, Rolleston ,Selwyn

5,980

Drawing Title: Foundation Plan Job No: Client: KAD Build LTD Stage: Detailed Design

Designer: IT Drawn By: PS Technician: PS

10,160

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Gradient Ref WC <u>Fixture</u> Waste Size Water Closet 100mm 1:60 1:20 Bath 40mm 1:20 Shower 40mm Kitchen Sink + DW 1:40

Vanity Unit 40mm 1:20 Wash Hand Basin 40mm 1:20 Laundry Tub + WM 50mm 1:40 Hot Water Cylinder 20mm 1:40

Discharge to TUB Washing Machine

Gully Trap Relief Gully Trap

WM GT RGT

4등 곡 多 府 服 명 |

Terminal Vent 80mm Branch Vent

-75X55 mm Colorsteel Downpipes Downpipe

Discharge pipe more than 3.5m to GT

Inspection Point

Air Admittance Valve Hose Tap

Heat Pump

tote Gully Trap is to be positioned so that the top of the gully dish is no less than below the overflow level of the lowest sanitary fixture served by the drainage **(50**m)

on of drain connections at street laterals to be confirmed on site. to thermally insulate all exterior pipework & valves exposed to external weather

ump drain pipe to discharge over the nearest Planting Area.

ipes discharging to GT:

-**≅**m min air gap between all pipes & GT.

mbing and drainage to comply with Acceptable Solutions G13/AS1/AS2 by tradesman. Allow to check all dimensions and falls of drains onsite prior to

tor to locate all service connections on site prior to earthworks, confirm all ry setbacks & restrictions comply with current regulations prior to ncement of foundations.

te pipes PVC. Sizes, fall, venting & discharge to be confirmed by NZ qualifed r. Confirm positions of available services cabling etc. on site prior to any

water pipes to be Polybutylene. All pipework & pipes exposed to freezing to be with closed cell foam.

Legend G13/AS1/AS2

Conser

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Discharge PVC foul water drain at 1:60 gradient to existing laterals at boundary (FW) Discharge

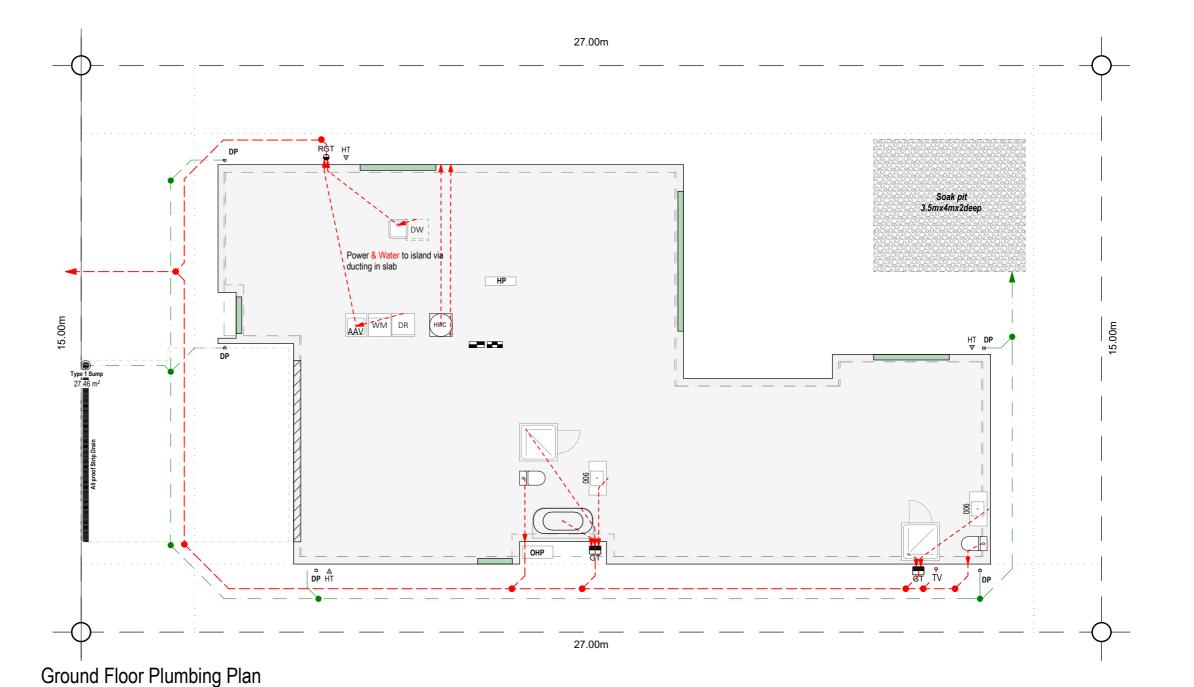


Make allowances in slab for earthing of Meter board. Run Earth Wire through PVC pipe as per Pipe Penetration detail.

Heat pump drain pipe to discharge _ over the nearest Planting Area.

HWC on safe tray. 25mm copper overflow relief pipe & 40mm Tray discharge pipe with vermin proofing, to discharge to nearest planting area/Gully Trap.





Designer: IT

Drawn By: PS

Technician: PS

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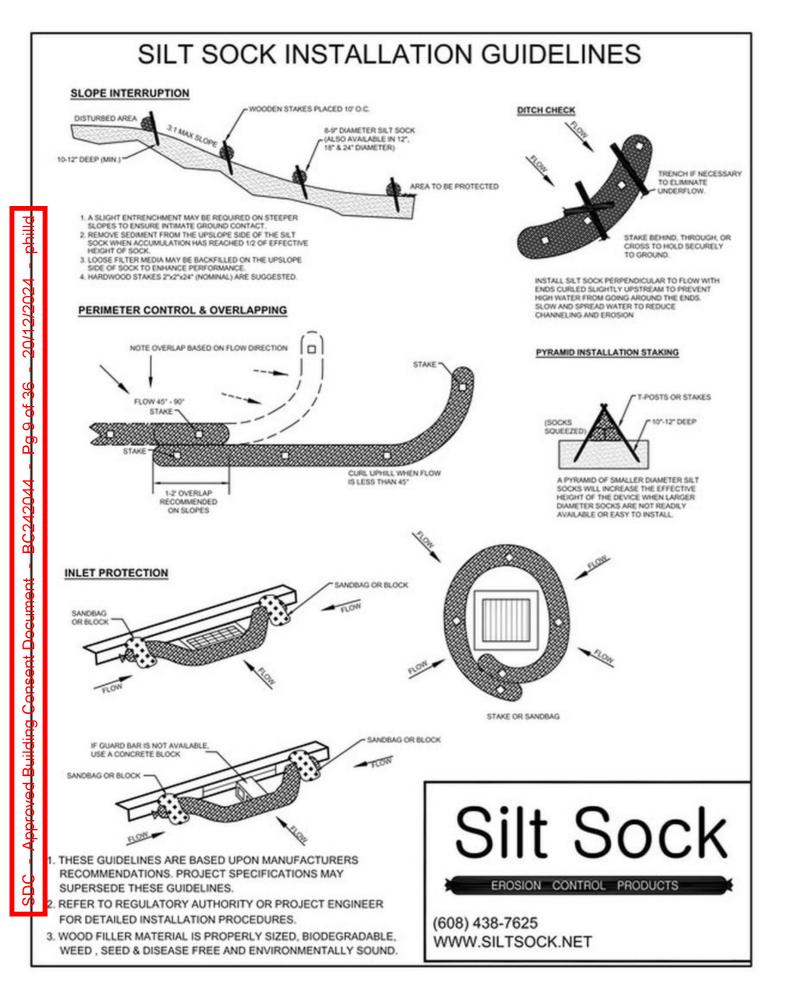
Lot 360 - Arbour green Project Address:

Lot 360 - Arbour green - Buxus Way, Rolleston ,Selwyn

Drawing Title: Plumbing Plan Job No: Client: KAD Build LTD Stage: Detailed Design

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Soak Pit 1					
Step 1	Get the soal	e soakage rate from			
	the percolat	ion test or			
	Use 0mm/H	lour			
Sr =Soakrate (mm/hr)		0	mm/hr		
Step 2 Assess the stormwater	catchment vo	lume			
			2		
Roof Area m ²		192.45	500		
Paved area		27.46	m2		
A/Catchmont Hasters Ares		0.0220	ha		
A(Catchment Hectare Area)=		0.0220	IId		
Use run-off coefficient (C) = 0.	9 (from E1 /\/N	/1 Table 1			
for hard surfaces)	2 (110111 C1/VI	ut lanie I			
Tor Hara Surfaces					
Use the Formula Rc=10 CxlxA					
C=(run-off coefficient)=		0.9			
I=(RainFall Intensity)			mm/hr		
Rc=Total= 10xCxlxA		9.90			
Step 3: Calculate the volume	of water				
disposed by soakage (Vsoak)					
Vsoak = AspXSr /1000		1000			
ASP=Area Base of soakpit		14	m ²		
Vsoak=	¥2	0.0	m3		
Vstor=0.38xSoakpit Size		10.64	m3		
Step 4: Calculate storage volu	me required				
Use the formula: Vstor = Rc - \	Vsoak				
RC		9.90	m3		
Vsoak		0.00	m ²		
Vstor=RC-Vsoak		9.90	200		
Soak Pit sizes:m3		28	m3		
Soak Pit sizes L/W/D	3.5	4			

Soak Pit 1

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Drawn By: PS

Technician: PS

Lot 360 - Arbour green Lot 360 - Arbour green - Buxus Way, Rolleston ,Selwyn

Project Address:

Drawing Title: Silt Sock Document Job No: Client: KAD Build LTD Stage: Detailed Design

Scale @ A3: Print Date Rev Date Description -V0 -24/07/24 Client Changes 19/12/2024 -V1 -16/08/24 Client Changes -V1 - 28/8/24 - Developed Design -V1 - 9/2/24 Detailed Design A1.06 -V1



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159.13 m² Total Ground Floor Area (Over Framing): 159.13 m² Total Ground Floor Area (Over Foundation):

Wall Cladding Materials

-WALL CLADDING 1: Resene 50mm Integra over 20mm cavity system installed as per manufacturer's specifications

-WALL CLADDING 2: Hermpac Vertical Shiplap weatherboards over 20mm cavity system installed as per manufacturer's specifications & E2/AS1 (Dwangs @ 400crs

Roofing Notes

-ROOF CLADDING 1:0.40 BMT Colorsteel Longrun Corrugate on Self-supporting

450mm idth 450mm

James Hard Spoluti g & Fascia James Hardie Soffit Lining

colorsteel Quad spouting (5550mm²) cross sectional area fix to 185

el fascia Down lipe (DP)

Wall Freming
Height o Under Lintel Height 1 Underside Of Truss 2455mm 2200mm

ight 1 1980mm-2330mm (Wardrobe doors) Door Leaf Height 1

Internal Door lintel height with Contractor)

Door Leaf Width 810mm standard - as noted on plans

Plaster oard Materials

GIB plasterboard installed over timber framing as per manufacturer's

tions. GIB Aqualine to be used in wet areas. specific

GIB plasterboard ceiling lining fix to 70x35 Timber Battens @ 600crs ,installed anufacturer's specifications. astper

powder-coated Low E. Argon, thermally Broken aluminium joinery double th all glazing to comply with NZS 4223. (R0.50 Ug 1.10)

Heat pump to be fixed in position shown on the drawings.

ions/Extraction System:

Bathroom & Ensuite to vent directly to exterior

vent directly to exterior through soffit lining. Dryer to (50L/s) lange Hood to exit through soffit lining.

n & Ensuite extraction systems to be automated and placed to adequately

steam.

- Aglating to comply with NZS4223

floor finishes to comply with NZBC D1/AS Table 2. Floor tiles to be non-slip slip coefficient value of 0.35 - 0.65 for grit finished ceramic tiles.

er pipes to be sized according to NZBC G12 & NZS4305:1996. Mains - |fet ∖ : 15mm dia. allows 12m max. pipe length. Pipe length beyond this must be

preparation areas & fixtures to comply with G3/AS1.

en fixtures to comply with G3/AS1 section 1.0. all splashbacks (linings to appliances & facilities) shall comply with G3/AS1 paragraph 1.6. eparation surfaces shall be easily maintained in a hygienic condition. Stainless corative high pressure laminate, and tiles are examples of suitable materials for

steel, decorative here surfaces.

WetAr a Note:

namel wall finish to bathroom, ensuite & those walls adjacent to sinks etc. in laundry. One row of tiles to be used above basins, vanities & benches.

edge to be filled with fungus/mold resistant sealant.

Aftism ke alarms are to comply with NZBC F7 and be manufactured to at least one of the state of om and living/dining room, change in level & entry/exits as per NZS 21 & BRANZ Bulletin No 6061



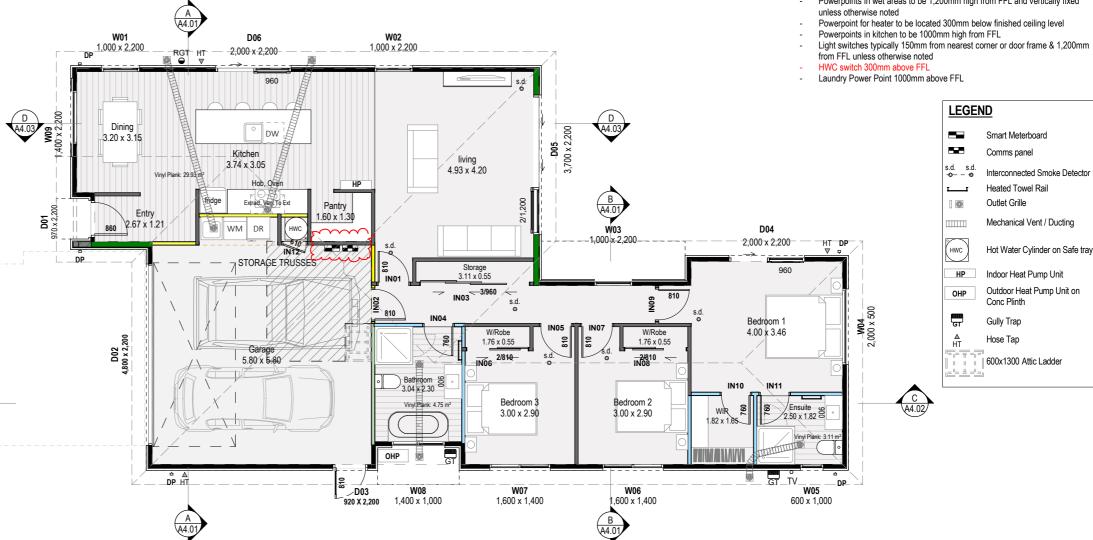
Project Addtional Notes:

Area Over Framing: 159.13 m² Area over Foundation: 159.13 m² Foundation Perimeter: 65,460.0 mm

Area Over Cladding and covered area: 170.63 m²

Habitable Area 124.24 m²

Main Dwelling



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ILAISA / 014 Email: admin@ilaisadesign.co.nz





Lot 360 - Arbour green

Project Address: Lot 360 - Arbour green - Buxus Way, Rolleston , Selwyn

Diaming ride.						
Ground Floor Plan						
Job No:	24063					
Client:	KAD Build LTD					
Ct	D 1 1 1 D 1					

Rev Date Description Designer: IT -V0 -24/07/24 Client Changes -V1 -16/08/24 Client Changes Drawn By: PS -V1 - 28/8/24 Developed Design -V1 - 9/2/24 Detailed Design Technician: PS

Electrical Notes

- Allow for single switched powerpoint for standard appliances: Fridge, Dishwasher, Waste Disposal, Rangehood, Hob, Oven. Refer to kitchen design for layout and positions of kitchen area sockets etc. All power points are indicative only and must be positioned and confirmed on site by architect and/or owner.
 - All electrical installations to be in accordance with NZECP 51:2004
- Where downlights are to be installed, only IC or IC-F downlights are permitted in private or rental dwellings. (Note that IC downlights can only be used with insulation that passes the needle flame test of AS/NZS 60598 2.2 clause 11.5). Recessed downlights that are not labelled as above are not permitted to be installed into residential buildings.
- Total of 20 lux of illuminance for the total wattage required per m2 of floor area as shown in NZBC G8 / AS1 Table 1.
- Install lights to soffit or external wall on all access routes to the dwelling (external
- Lighting and electrical by others, all positions and types to be selected and confirmed by client with contractor unless noted otherwise
- Mechanical ventilation in housing removing moisture shall be vented outside (includes wet areas & cooker hoods). Refer to NZBC G4/AS1 1.3.C.iio. Mechanical Ventilation to be 150 dia 230 Cu M/H inline fan ducted to soffit. Auto extractor fans shall terminate through wall/soffit/roof with an extraction rate as set out in NZBC G4.

General Placement Notes

- Powerpoints typically 300mm from nearest corner & 300mm from FFL unless otherwise noted
- Powerpoints in wet areas to be 1,200mm high from FFL and vertically fixed

19/12/2024

-V1

A2.01

Wall Framing:

Wind Zone

-INTERNAL FRAMING - Up to 3m Stud Height: H1.2 treated SG8 90x45mm timber framing Studs @ 600mm crs. max, Dwangs @ 800mm crs. max. (Refer to NZS3604

-WALL FRAMING 1: Up to 2.4m Stud Height: H1.2 treated SG8 90x45mm timber framing studs @ 600mm crs. max, Dwangs @ 800mm crs. max. (Integra Panels) (Refer to NZS3604 table 8.2)

-WALL FRAMING 2:Up to 2.4m Stud Height: H1.2 treated SG8 90x45mm timber framing studs @ 600mm crs. max, Dwangs @ 400mm crs. max (Shiplap Cladding).

WALL FRAMING 1:Up to 3.6m Stud Height: H1.2 treated SG8 140x45mm raming studs @ 600mm crs. max, Dwangs @ 800mm crs. max (Integra CLAD

Exteri r Bottom plate to concrete floor (Non-braced):

plate fix to Slab with M12 bolts on 50x50x3 Square washers @ 900mm crs Ocrs max When using Masonry Header Blocks). Refer to supporting ents for further hold down requirements relating to each individual bracing

bottom plate to concrete floor:

mm shot fired fastenings with 16mm washers @ 600mm crs within 150mm each ld of plate.Refer to bracing plan for additional hold down fixings.

Typi al Fixing Schedule:

ud to Top plate

(FBM) 15 End nails+2 Wire Dogs at Stud Crs (4.7kn) As per NZS3604:2011 Or As per Truss

SL170 Plus 2/90mmX3.15 Dia Nails at Stud Crs (4.7KN) or As per truss design

-2/90x3 5 End Nails (0.7kn) in accordance to NZS3604:2011- Or As per Truss design

Stooto Bottom plate: 3/90 x 3.15mm end nails **□ Q**anc o stud: 2/100 x 3.15mm skewed nails

Fish plete to Straightened stud: 4/60 x 2.8mm nails each side Half Jo 4/100 x 3.15mm skewed nails 4/100 x 3.15mm skewed nails nt in top Plate: trimming Stud d soffit stringer to stud: 2/100 x 3.75mm nails

ner to trimmina stud for: er not exceeding 2400mm 2/100 x 3.75mm end nails 3/100 x 3.75mm end nails er not exceeding 3000mm r not exceeding 3600mm 4/100x3.75mm end nails ble op plate to top plate: 2/100 x 3.75mm @ 500mm crs

Trimmi a studs together at openings

blocking at wall intersections: 100 x 3.75mm nails @ 600mm crs

g Stud to Doubling Stud immediately

2/100 x 3.75mm nails

Tusses to Top Plate:

cated roof trusses @ 900mm crs max fix to top plate with 2/100 x 3.75mm skewed /wiredogs each side in accordance to Manufacturer documents & producer

Ceiling batten to bottom chord: 2/75 x 3.15mm nails

Outrigger to Gable Top Plate: Outrigger to Truss: 1/14g self drilling screw, 150mm long 2/100 x 3.75mm end nails

Fl**yin**g after to Outrigger er Blocking to Top Plate: Puring to Truss:

2/100 x 3.75mm end nails 4/100 x 3.75mm skewed nails

11.2 SG8 Purlins fixed to trusses/Rafter with 1/10g x 80mm self-drilling screw or 3.75mm skewed nails & 1/wiredog (Alt 2.4KN Fixing). Top & bottom purlins shall be @ 600 mm crs & 900crs to body.

Sehedule of Framing Timbers - Grading & Treatment

Man fr ming

Exterior walls & lintels Interior walls (loadbearing) SG8, H1.2, Pinus radiata SG8, H1.2, Pinus radiata SG8, H1.2, Pinus radiata Interior walls (non-loadbearing)

Merchantable, H3.1, Pinus radiata Merchantable, H3.1, Pinus radiata -Struct ral batten Merchantable, H3.2, Pinus radiata

Roof trusses - typical SG8, H1.2, Pinus radiata Gable and truss SG8, H1.2, Pinus radiata SG8. H1.2, Pinus radiata Coved or attic trusses Purlins/Battens SG8, H1.2. Pinus radiata Merchantable, H1.2, Pinus radiata Valley boards, barge boards

Windows

Dressed, H3.1, Pinus radiata Framing and reveals

Height To Underside Of Truss 2455mm

Lintel Height 1 2200mm

1980mm-2330mm (Wardrobe doors)

Internal Door Leaf Height 1 1980mm-2 (Confirm Internal Door lintel height with Contractor)

810mm standard - as noted on plans Internal Door Leaf Width

Plasterboard Materials

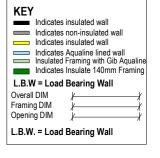
-10mm GIB plasterboard installed over timber framing as per manufacturer's

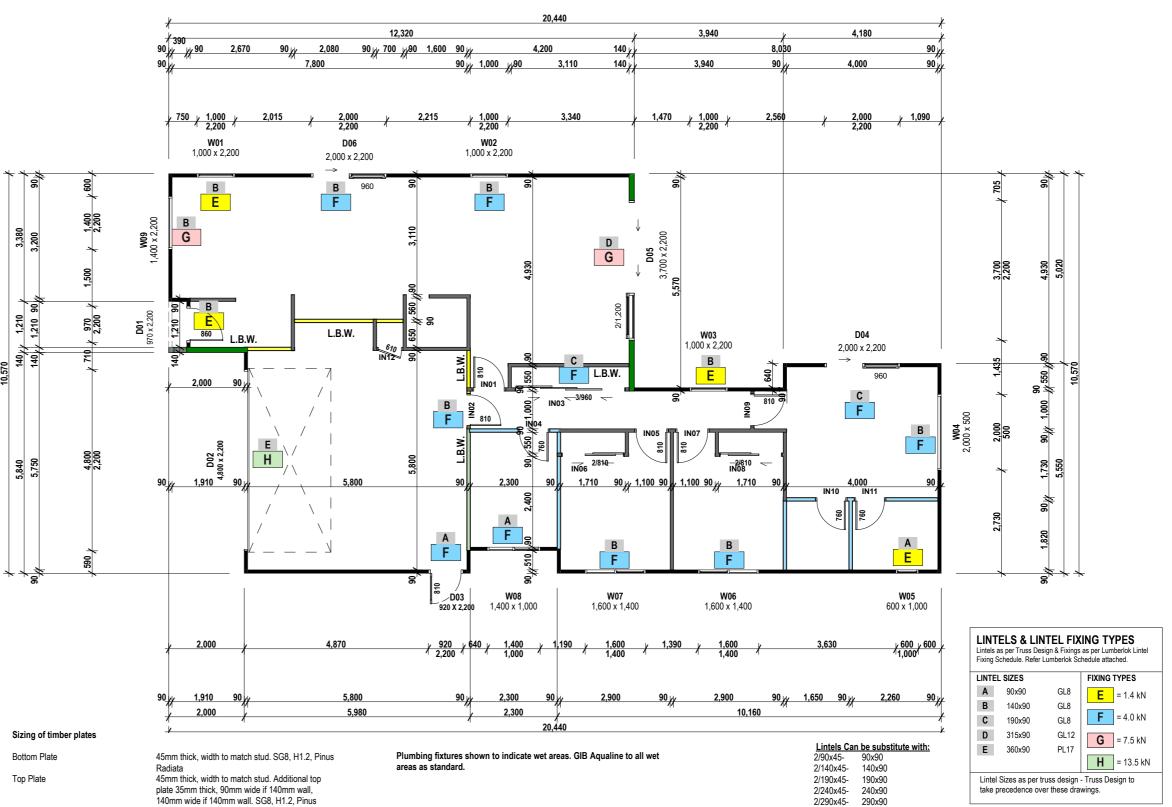
specifications. GIB Aqualine to be used in wet areas.

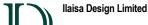
-13mm GIB plasterboard ceiling lining fix to 70x35 Timber Battens @ 600crs ,installed as per manufacturer's specifications.

Selected powder-coated Low E. Argon, thermally Broken aluminium joinery double

glaze with all glazing to comply with NZS 4223. (R0.50 Ug 1.10)







13 Henare Drive, iZone, Rolleston 7614 **ILAISA** Email: admin@ilaisadesign.co.nz





Lot 360 - Arbour green Project Address:

Lot 360 - Arbour green - Buxus Way, Rolleston , Selwyn

Drawing Title: Wall Framing Plan Job No: 24063 Client: KAD Build LTD

Detailed Design

Stage:

Designer: IT Drawn By: PS Technician: PS

Subject to council approval, All measurements to be confirmed on site by the contractor prior to the commencement of work. No part of this work may be reproduced or copied in any form or by any means without the written permission of Ilaisa Tabukovu Scale @ A3: Rev Date Description Print Date -V0 -24/07/24 Client Changes 1.100 19/12/2024 -V1 -16/08/24 Client Changes -V1 - 28/8/24 Developed Design -V1 - 9/2/24 Detailed Design -V1 A2.02

-ROOF CLADDING 1:0.40 BMT Colorsteel Longrun Corrugate on Self-supporting building underlay

Roof Pitch 1 Eaves Width 1 450mm Gable Width 1 450mm

Soffit Lining

-4.5mm James Hardie Soffit Lining

Spouting & Fascia

Selected colorsteel Quad spouting (5550mm²) cross sectional area fix to 185 Colorsteel fascia

Down Pipe (DP)

-75X55 mm Colorsteel Downpipes

Document

onsent

ricated roof trusses @ 900mm crs max fix to top plate with 2/100 x 3.75mm nails & 2/wiredogs each side in accordance to Manufacturer documents & er statement.

H1.2 SG8 Purlins fixed to trusses/Rafter with 1/10g x 80mm self-drilling screw 0 x 3.75mm skewed nails & 1/wiredog (Alt 2.4KN Fixing). Top & bottom purlins @ 600mm crs & 900crs to body.

@0x45 nm H1.2 treated SG8 outriggers @900crs max to gable verge to allow for overh_ng/eave width. Outriggers to span back to next truss. Outriggers to be fixed as S3604:2011 Table 10.18:

x 80mm self-drilling screw to wall framing.

3.15mm nails to rafters.

3.15mm skewed nails to blocking.

Reof racing to be 8.0kN diagonally opposed intersecting steel straps fixed to top chord & top plate as per NZS3604:2011, Section 10.3, 10.4 or refer to truss acturer's design for positions.

penetrations shall be flashed as per NZBC E2/AS1 external moisture section pr filed metal roof cladding (8.4.17 Roof Penetrations) as shown in figure 53 & 54

hings to be 0.55 BMT colorsteel fixed in accordance with NZS3604:2011 and g the durability requirements of NZBC E2/AS1 Table 20,21,22

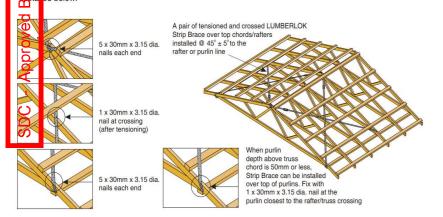
Add Show Straps as per NZMRCOP and E2/AS1

Roof Bracing Options

i) ROOF PLANE BRACE

pof plane brace can be: or valley rafter running continuously from ridge to the top plate in accordance with Clauses 10.2.1.3.2 .2.1.3.3 NZS 3604:2011.

of tensioned and crossed LUMBERLOK Strip Brace running continuously from ridge to top plate installed as



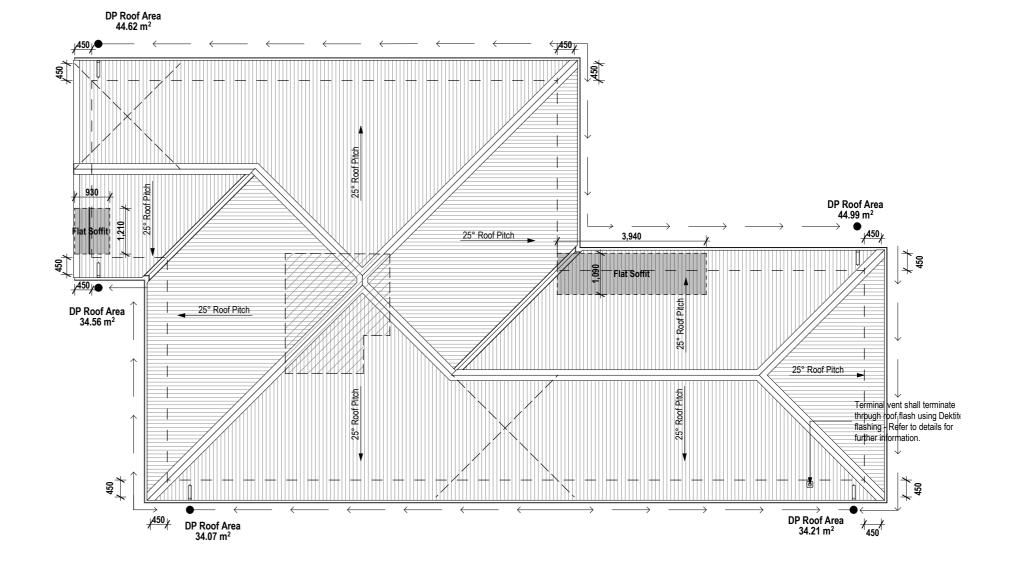
GENERAL KEY:

LUMBERLOK Strip roof bracing as per truss design Gutter Fall: Terminal Vent Branch Vent 40mm

-Terminal & Branch vent shall terminate through roof flash using Dektite flashing

DP

-75X55 mm Colorsteel Downpipes



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Designer: IT

Drawn By: PS

Technician: PS

Ilaisa Design Limited 13 Henare Drive, iZone, Rolleston 7614 ILAISA /014 Email: admin@ilaisadesign.co.nz





Lot 360 - Arbour green Lot 360 - Arbour green - Buxus Way, Rolleston ,Selwyn Drawing Title: Roof Plan Job No: Client: KAD Build LTD Stage: Detailed Design

Scale @ A3: Print Date Rev Date Description -V0 -24/07/24 Client Changes 19/12/2024 -V1 -16/08/24 Client Changes -V1 - 28/8/24 Developed Design -V1 - 9/2/24 Detailed Design A2.03 -V1

TABLE 1A - STRONGBACK LOCATION FOR WEBS @ 600MM CRS.

		MAXIMUM STRONGBACK HEIGHT (h)											
	ND NE	70x45	Web	90x45	5 Web		Componer)x45	nt Gable En 2/ 9(d Webs) x45	45x70	on flat	45x90	on flat
		SG6	SG8	SG6	SG8	SG6	SG8	SG6	SG8	SG6	SG8	SG6	SG8
LŒ₩		1750	1950	1900	2100	2200	2450	2400	2650	2350	2600	2950	3150
WEDIL	М	1600	1750	1750	1900	2000	2200	2200	2400	2150	2350	2750	2950
HIGH		1400	1500	1500	1650	1750	1900	1900	2100	1800	2050	2350	2650
VĘŔY	HIGH	1250	1400	1400	1500	1600	1750	1750	1900	1600	1900	2050	2400
EXT R	HIGH	1150	1350	1300	1450	1550*	1700*	1650*	1850*	1450	1700	1850*	2200*
\sim i													

TAB LE 1B - STRONGBACK LOCATION FOR WEBS @ 400MM CRS.

		MAXIMUM STRONGBACK HEIGHT (h)											
	۱D	70x45 Web		90x45 Web		Double Component Gable End Webs				45x70 on flat		45x90 on flat	
OZC NE	70243	iven	30,43	ven	2/ 70x45 2/ 90x)x45	45X/O OII IIat		45x50 011 11at			
		SG6	SG8	SG6	SG8	SG6	SG8	SG6	SG8	SG6	SG8	SG6	SG8
Qyy		2000	2200	2200	2400	2550	2750	2750	2950	2700	2900	3250	3500
IEDIL	M	1800	2000	2000	2200	2300	2550	2500	2750	2450	2700	3050	3300
II GH		1600	1750	1750	1900	2000	2200	2200	2400	2150	2350	2750	2950
'ERY	HIGH	1450	1600	1600	1750	1850	2000	2000	2200	1950	2200	2500	2750
XTR	HIGH	1400	1550	1500	1650	1750*	1950*	1900*	2100*	1800	2100	2300*	2650*
_													

e values for full height brick veneer attached to gable end. ote that the maximum height of brick veneer on a gable end wall is 5.5m.

CTION PROCESS

al to (h) - no strongback

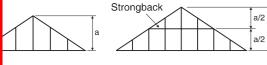
0x45 on edge

Blue Screws

Truss web

OPTION 1

vith 2/ LUMBERLOK



140x45 on edge

Blue Screws

-Truss web

with 2/ LUMBERLOK

OPTION 2

- Where (a) is greater than (h) but less than 2(h) - lower strongback is required.
- Locate the strongback at height of (a/2).
- Strongback
- Where (a) is greater than 2(h) but less than 3(h) - lower and upper strongbacks are required. • Locate strongbacks at height increments of (a/3).
- STRONGBACK OPTIONS

90x45 on flat Fix to each truss web with 2/ LUMBERLOK Blue Screws * For double component webs fix with LUMBERLOK CPC40 with 2 /14g screws per flange

OPTION 3

90x45 on flat plus 90x45 on edge Fix with 90mm nails @ 150mm crs. Fix to each truss web with 2/ LUMBERLOK Blue Screws Truss web **OPTION 4**

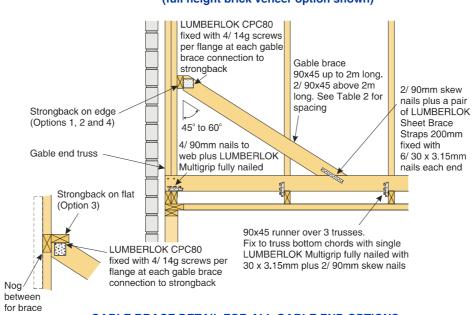
TABLE 2 - STRONGBACK SPAN AND GABLE BRACE LOCATION

		,		
B	OPTION 1	OPTION 2	OPTION 3	OPTION 4
o We (90x45 on edge	140x45 on edge	90x45 on flat	90x45 on flat plus 90x45 on edge
Max.	span and/or gable location 1200mm	Max. span and/or gable brace location 1400mm	Max. span and/or gable brace location 1600mm	Max. span and/or gable brace location 2000mm
4				

Truss web

Standard Strongback truss as per spacing Table 2 Note: Double component gable end truss or gable brace 45x90 webs on flat required for full height brick veneer gable 45° to 60 90x45 runner over bottom chords of trusses. Run over minimum 3 trusses. Full height brick veneer Fix strongback, gable brace and runner as below Max. height 5.5m on gable end wall, Clause 1.1.2(o) NZS 3604:2011 Stud wall as per NZS 3604:2011 **CROSS SECTION**

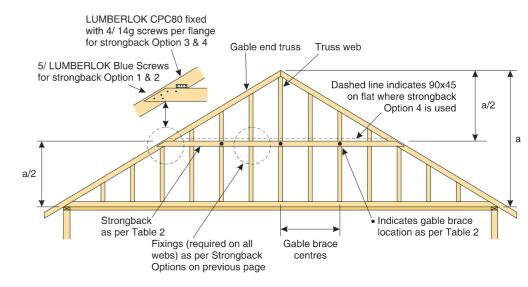
(full height brick veneer option shown)



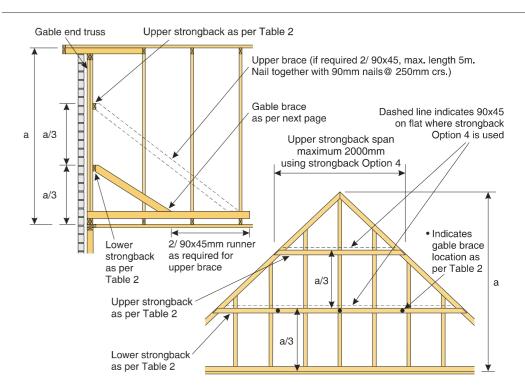
GABLE BRACE DETAIL FOR ALL GABLE END OPTIONS (full height brick veneer option shown)

MiTek New Zealand Limited

CHRISTCHURCH
PO Box 8387, Riccarton 8440
Phone: 03-348 8691
Fax: 03-348 0314 MiTek[®] MITEK® LUMBERI OK® BOWMAC®



SINGLE STRONGBACK DETAILS



DOUBLE STRONGBACK DETAILS FOR ALL GABLE END OPTIONS (full height brick veneer option shown)



19/12/2024

-V1

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Lot 360 - Arbour green

Lot 360 - Arbour green - Buxus Way, Rolleston ,Selwyn

Drawing Title: **Roof Bracing Details** Job No: 24063 Client: KAD Build LTD Stage: Detailed Design

Designer: IT Drawn By: PS Technician: PS

Scale @ A3: Rev Date Description -V0 -24/07/24 Client Changes -V1 -16/08/24 Client Changes -V1 - 28/8/24 Developed Design -V1 - 9/2/24 Detailed Design A2.04

Bracing Notes:

Where the distance between bracing lines at right angles to the plate is between 5.0m & 6.0m, the 90 x 45mm top plate shall be strengthened by the addition of a 140 x 35mm plate of at least the same grade as the top plate. Refer to NZS

Note: 7mm Ply Notes

Where exterior ply bracing elements are used & not continued the entire length of the wall, allow to pack out the rest of the cavity battens to achieve an even straight-through cavity for the selected cladding.

Refer to supporting documents for 7mm minimum Structural Ply fixing requirements. Treatment to be a minimum of H3.2.

Stainless Steel Fixing to be used in Exposoure Zone D SEASPAY Zone.

Openings in Bracing Elements:

(as per GIB EzyBrace System)

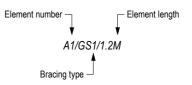
Openings are allowed within the middle third of a wall bracing element's length & height. Neither opening dimension shall be more than one third of the element height. Wall linings are fixed to opening trimmers at 150mm crs. Small openings (e.g. power outlets) of 90 x 90mm or less may be placed no closer than 90mm to the edge of the braced element.

Reading the Bracing Plan:

BL1 - 0.4m min. length. 10mm or 13mm GIB Braceline fixed to one side only. GIB Handibracs to be installed each end of bracing element as per manufacturer's specifications - Refer to Supporting Documents for further information. BLP - 0.4m min. length. 7mm minimum H3.2 Structural Ply fixed to exterior side of the wall framing. GIB Handibracs to be installed each end of bracing element as per manufacturer's specifications, 10mm or 13mm GIB Braceline Plasterboard fix to internal side (BL1 Fixing Pattern)

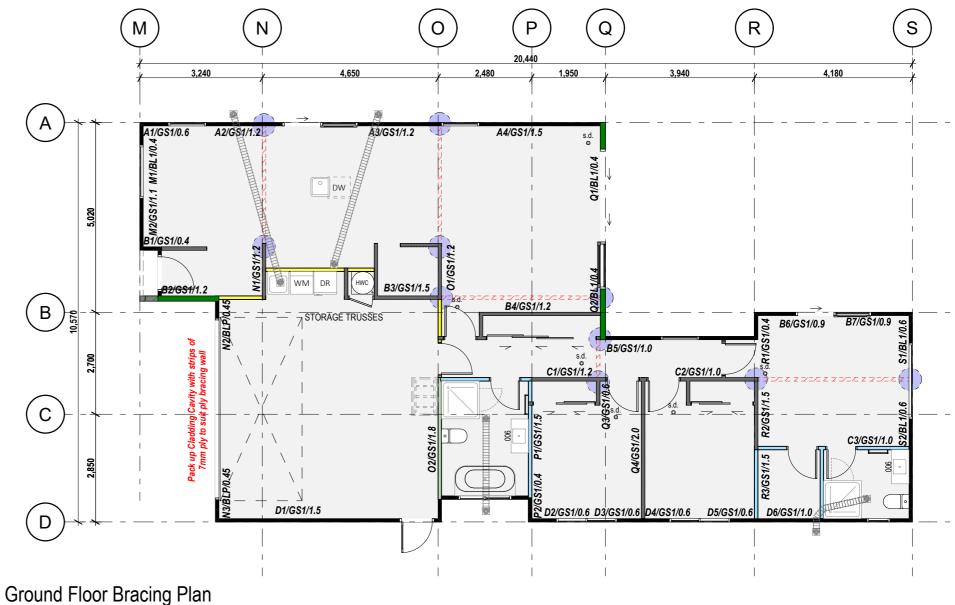
Indicates: Truss chord, Top plate or ceiling battens shall be continuous to exterior walls to allow for perimeter fixing for bracing element にとせつこれ

6kN Connection



GS1 - 0.4m min. length. Any 10mm or 13mm GIB Standard Plasterboard fixed to one side only.

0			GI	B Ezy	/Brac	e® B	racino	g Soft	ware		GIB	
ild	Sin	Single Level Along Resistance Sheet										
L'.	Job N	Job Name: 24063 - Lot 360 Arbour Green - V1										
74		Demand										
8										559	766	
7		Achieved										
ĮΓ	Line Element Length Angle Stud Ht. Type Supplier Wind EQ 1290 1173											
R L			(m)	(degrees)	(m)			(BUs)	(BUs)	231%	153%	
		2	0.60 1.20	0	2.4 2.4	GS1-N GS1-N	GIB® GIB®	34 83	35 72		l	
60	a	3	1.20	0	2.4	GS1-N	G I B®	83	72		l	
8		4	1.50	0	2.4 Externa	GS1-N Length =	GIB® 12 320	104	90	303 OK	269 OK	
6		1	0.40	0	2.4	GS1-N	GIB®	21	23			
4		3	1.20 1.50	0	2.4 2.4	GS1-N GS1-N	GIB® GIB®	83 104	72 90			
+	b	4	1.20	0	2.4	GS1-N	GIB®	83	72			
þ	Ĩ	5 6	1.00 0.90	0	2.4 2.4	GS1-N GS1-N	GIB® GIB®	65 57	60 53			
		7	0.90	0	2.4	GS1-N	GIB®	57	53			
' -	_	1	1,20	I 0	Externa 2.4	Length = GS1-N	10.120 GIB®	83	72	469 OK	423 OK	
44	С	2	1.00	0	2.4	GS1-N	GIB®	65	60		l	
À	ľ	3	1.00	0	2.4	GS1-N	GIB®	65	60	213 OK	191 OK	
4		1	1.50	0	2.4	GS1-N	GIB®	104	90	213 OK	191 OK	
3		2	0.60	0	2.4 2.4	GS1-N GS1-N	GIB®	34 34	35			
	d	4	0.60 0.60	0	2.4	GS1-N GS1-N	GIB® GIB®	34	35 35			
T, I		5	0.60	0	2.4	GS1-N	GIB®	34	35			
		6	1.00	0	2.4 Externa	GS1-N Length =	GIB® 18,440	65	60	305 OK	290 OK	
m												
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Consent Docume	Job N	- ame: 24063	3 - Lot 360	Arbour Gr	reen - V1	tance	Sheet		EQ (BUs)	Der 1169 Achi	nand 766	
	Job No	Element	Length (m) 0.40	Arbour Gr Angle (degrees)	Stud Ht. (m) 2.4	Type BL1-H	Sheet Supplier	Wind (BUs) 36	(BUs)	1169 Achi	766 ieved 1154	
	Job N	ame: 24063	3 - Lot 360 Length (m)	Arbour Gr Angle (degrees)	Stud Ht. (m) 2.4 2.4	tance Type	Sheet	Wind (BUs)	(BUs)	1169 Achi	766 ieved 1154	
	Job No	Element 1 2	Length (m) 0.40 1.10	Angle (degrees) 0 0	Stud Ht. (m) 2.4 Externs 2.4	Type BL1-H GS1-N Lenath = GS1-N	Sheet Supplier GIB® GIB® 4.590 GIB®	Wind (BUs) 36 74	(BUs) 40 66 72	1169 Achi 1226 105%	766 ieved 1154 151%	
uilding Con	Job No	Element 1 2	Length (m) 0.40 1.10	Angle (degrees)	Stud Ht. (m) 2.4 2.4 Externs	Type BL1-H GS1-N Lenath =	Sheet Supplier GIB® GIB® 4.590	Wind (BUs) 36 74	(BUs) 40 66	1169 Achi 1226 105%	766 ieved 1154 151%	
	Line	Element 1 2 1 2 3	Length (m) 0.40 1.10 1.20 0.45 0.45	Angle (degrees) 0 0 0 0	Stud Ht. (m) 2.4 2.4 Externs 2.4 2.4 2.4 Externs	Type BL1-H GS1-N Length = GS1-N BLP-H BLP-H Length =	Sheet Supplier GIB® GIB®	Wind (BUs) 36 74 83 56 56	(BUs) 40 66 72 62 62	1169 Achi 1226 105%	766 ieved 1154 151%	
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uilding Con	Line m	Element 1 2 1 2 3 1 1 1	Length (m) 0.40 1.10 1.20 0.45 0.45	Angle (degrees) 0 0 0 0	Stud Ht. (m) 2.4 2.4 2.4 2.4 2.4 2.4 2.4 2.4 2.4 2.4	Type BL1-H GS1-N I Lenath = GS1-N BLP-H BLP-H BLP-H GS1-N GS1-N GS1-N	Sheet Supplier GIB® GIB® GIB® GIB® GIB® GIB® GIB® GIB	Wind (BUs) 36 74 83 56 56	(BUs) 40 66 72 62 62 72	1169 Ach 1226 105% 109 OK	mand 766 ieved 1154 151% 106 OK	
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d Building Con	Line m	Element 1 2 1 2 3 1 2 1 2 1 2 1 1 2	Length (m) 0.40 1.10 1.20 0.45 0.45 1.80 1.50 0.40 0.40	Angle (degrees) 0 0 0 0 0 0 0 0 0	Stud Ht. (m) 2.4 2.4 2.4 2.4 2.4 Externs 2.4 2.4 2.4 Externs 2.4 2.4 Externs 2.4 2.4 Externs 2.4 2.4 Externs 2.4	Type BL1-H GS1-N M Lenath = GS1-N BLP-H BLP-H M Lenath = GS1-N GS1-N GS1-N GS1-N GS1-N H Lenath = BL1-H	Sheet Supplier	Wind (BUs) 36 74 83 56 56 124 104 21 36	(BUs) 40 66 72 62 62 72 108 90 23	1169 Ach 1228 105% 109 OK 195 OK	1154 151% 106 OK	
d Building Con	Line m	Element 1 2 3 3 1 2 3 1 2 3 1 2 3 3 1 2 3 1 2 3 3 1 2 3 1 2 3 3 1 2 3 3 1 2 3 3 1 2 3 3 1 2 3 3 1 2 3 3 1 2 3 3 1 2 3 3 3 1 2 3 3 3 1 2 3 3 3 3	Length (m) 0.40 1.10 1.20 0.45 0.45 1.20 1.80 1.50 0.40 0.40 0.40 0.60	Arbour Gr Angle (degrees) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Stud Ht. (m) 2.4 2.4 2.4 2.4 2.4 2.4 2.4 2.4 2.4 2.4	Type BL1-H GS1-N I Lenath = GS1-N BLP-H BLP-H GS1-N I Lenath = GS1-N GS1-N I Lenath = GS1-N GS1-N GS1-N I Lenath = GS1-N GS1-N GS1-N I Lenath = GS1-N GS1-N	Sheet Supplier GIB® GIB® GIB® GIB® GIB® GIB® GIB® GIB	Wind (BUs) 36 74 83 56 56 83 124 104 21 36 36 36	(BUs) 40 66 72 62 62 72 108 90 23 40 40 35	1169 Ach 1228 105% 109 OK 195 OK	1154 151% 106 OK	
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d Building Con	Line m n	Element 1 2 1 2 3 1 2 1 2 3 4	Length (m) 0.40 1.10 1.20 0.45 0.45 1.20 1.80 1.50 0.40 0.40 0.40 0.60	Arbour Gr Angle (degrees) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Stud Ht. (m) 2.4 2.4 2.4 2.4 2.4 2.4 2.4 2.4 2.4 2.4	Type BL1-H GS1-N I Lenath = GS1-N BLP-H BLP-H GS1-N I Lenath = GS1-N GS1-N I Lenath = GS1-N GS1-N GS1-N I Lenath = GS1-N GS1-N GS1-N I Lenath = GS1-N GS1-N	Sheet Supplier GIB® GIB® GIB® GIB® GIB® GIB® GIB® GIB	Wind (BUs) 36 74 83 56 56 83 124 104 21 36 36 36	(BUs) 40 66 72 62 62 72 108 90 23 40 40 35	1169 Ach 1228 105% 109 OK 195 OK	1154 151% 106 OK	
d Building Con	Line m n	Element 1 2 3 1 2 3 4 1 2 1 2 3 4	Length (m) 0.40 1.10 1.20 0.45 0.45 1.20 1.80 1.50 0.40 0.40 0.60 2.00	Arbour Gr Angle (degrees) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Stud Ht. (m) 2.4 2.4 2.4 2.4 2.4 2.4 2.4 2.4 2.4 2.4	Type BL1-H GS1-N ILenath = GS1-N BLP-H BLP-H ILenath = GS1-N GS1-N ILenath = GS1-N GS1-N ILenath = BL1-H BL1-H BL1-H GS1-N GS1-N ILENath = GS1-N GS1-N GS1-N	Sheet Supplier GIB0 GIB0 GIB0 GIB0 GIB0 GIB0 GIB0 GIB	Wind (BUs) 36 74 83 56 56 83 124 104 21 36 36 34 138	(BUs) 40 66 72 62 62 72 108 90 23 40 40 35 120	1169 Ach 1226 105% 109 OK 195 OK 207 OK	mand 766 ieved 1154 151% 106 OK 195 OK	
d Building Con	Job No.	Element 1 2 1 2 3 1 2 1 2 3 4	Length (m) 0.40 1.10 1.20 0.45 0.45 1.20 1.80 1.50 0.40 0.40 0.60 2.00	Angle (degrees) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Stud Ht. (m) 2.4 2.4 2.4 2.4 2.4 2.4 2.4 2.4 2.4 2.4	Type BL1-H GS1-N ILenath = GS1-N BLP-H BLP-H GS1-N GS1-N GS1-N ILenath = GS1-N GS1-N GS1-N ILenath = GS1-N GS1-N GS1-N ILenath = BL1-H GS1-N GS1-N ILenath = BL1-H GS1-N GS1-N GS1-N GS1-N ILenath = GS1-N GS1-N GS1-N GS1-N	Sheet Supplier GIB0 GIB0 GIB0 GIB0 GIB0 GIB0 GIB0 GIB	Wind (BUs) 36 74 83 56 56 124 104 21 36 36 34 138	(BUs) 40 66 72 62 62 72 108 90 23 40 40 35 120	1169 Ach 1226 105% 109 OK 195 OK 207 OK	mand 766 ieved 1154 151% 106 OK 195 OK	
d Building Con	Job No.	Element 1 2 3 1 2 3 1 2 3 4 1 2 3 1 1 2 3 1 1 1 1 1 1 1 1 1 1 1 1 1	Length (m) 0.40 1.10 1.20 0.45 0.45 1.20 1.80 1.50 0.40 0.40 0.60 2.00 0.40 1.50 1.50 0.60	Angle (degrees) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Stud Ht. (m) 2.4 2.4 2.4 2.4 2.4 2.4 2.4 2.4 2.4 2.4	Type BL1-H GS1-N ILenath = GS1-N GS1-N GS1-N GS1-N GS1-N GS1-N GS1-N ILenath = BL1-H GS1-N	Sheet Supplier GIB® GIB® GIB® GIB® GIB® GIB® GIB® GIB	Wind (BUs) 36 74 83 56 56 56 83 124 104 21 36 36 34 138 21 104 104 59	(BUs) 40 66 72 62 62 72 108 90 23 40 40 35 120 23 90 90	1169 Ach 1226 105% 109 OK 195 OK 207 OK 243 OK	1154 151% 106 OK 180 OK 113 OK 235 OK	
d Building Con	Job No.	Element 1	Length (m) 0.40 1.10 1.20 0.45 0.45 1.20 1.80 1.50 0.40 0.40 0.40 0.60 2.00 0.40 1.50 1.50	Arbour Gr Angle (degrees) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Stud Ht. (m) 2.4 2.4 2.4 2.4 2.4 2.4 2.4 2.4 2.4 2.4	Type BL1-H GS1-N BLP-H BLP-H BLP-H GS1-N GS1-N GS1-N GS1-N Lenath =	Sheet Supplier GIB® GIB® GIB® GIB® GIB® GIB® GIB® GIB	Wind (BUs) 36 74 83 56 56 83 124 104 21 36 36 34 138	(BUs) 40 66 72 62 62 72 108 90 23 40 40 35 120 23 90 90	1169 Ach 1226 105% 109 OK 195 OK 207 OK 243 OK	1154 151% 106 OK 180 OK 113 OK 235 OK	



Designer: IT

Drawn By: PS

Technician: PS

Scale 1:100

Ilaisa Design Limited

13 Henare Drive, iZone, Rolleston 7614 ILAISA Email: admin@ilaisadesign.co.nz





Lot 360 - Arbour green Project Address: Lot 360 - Arbour green - Buxus Way, Rolleston ,Selwyn

Drawing Title: **Bracing Plan** Job No: Client: KAD Build LTD Stage: Detailed Design

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Demand Calculation Sheet

Job Details

Name: 24063 - Lot 360 Arbour Green - V1 Buxus Way, Rolleston Street and Number

Lot and DP Number: Lot 360 City/Town/District: Selwyn District Designer: Paolo

IlaisadesignLTD Company:

Date: Wednesday, August 28, 2024

Building Specification

Cladding Weight

Number of Storeys 2 kPa Floor Loading Foundation Type Slab

> Single Light

Roof Weight Light Room in Roof Space 0 to 12 5% Roof Pitch (degrees) Roof Height above Eaves (m) 2.842

Building Height to Apex (m) 5.042 Ground to Lower Floor (m) .305 Average Stud Height (m) 2.4

Building Length (m) 20.440 Building Width (m) 10.570 Building Plan Area (m²) 159.13

Building Location

Wind Zone = High

Earthquake Zone 2 Soil Type

D & E (Deep to Very Soft) Annual Prob. of Exceedance: 1 in 500 (Default)

Bracing Units required for Wind

Across Single Level 1169

Bracing Units required for Earthquake

Along & Across

Single Level

fix with $6/90 \times 3.15$ mm nails ceiling joists or truss chords connecting member to exterior walls, fix with 6/90 × 3.15 mm solated brace wall parallel to nails for 6 kN connection ceiling framing (top plate does not extend to exterior walls) Brace wall connection when wall is parallel to ceiling framing. ceiling joists or truss chords connecting member below joist or tru (see NZS 3604:2011 for connections) ceiling batten ceiling batten isolated brace wall perpendicular to ceiling framing 2/90 × 3.15 mm nails per batten 6 kN connector to double top plate to exterior wall top plate or fix with Brace wall connection below ceiling framing when wall is perpendicular to

TOP PLATE CONNECTIONS AS REQUIRED BY CLAUSE 8.7.3 NZS 3604:2011

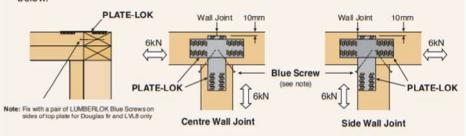
① Top plate joints for walls at right angles to external walls:

(a) Walls with bracing elements not exceeding 125 bracing units (BU) require a 6kN capacity connection to one external wall.

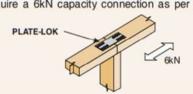
(b) Walls with bracing elements not exceeding 250 BU require a 6kN capacity connection



@ Details of top plate joints using LUMBERLOK PLATE-LOK at "T" junction walls are shown



3 Top plate joints for all walls in line that have wall bracing elements exceeding 100 BU or have a ceiling diaphragm attached require a 6kN capacity connection as per Figure 8.15 NZS 3604:2011.



(4) Top plate joints for walls at right angles and in line that have either no bracing elements or are on a single storey building only with wall bracing demands not exceeding 100 BU require a 3kN capacity connection as per Figure 8.15 & 8.16 NZS 3604:2011.





Print Date

19/12/2024

-V1

MiTek

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Lot 360 - Arbour green

Lot 360 - Arbour green - Buxus Way, Rolleston ,Selwyn

Drawing Title: **Bracing Connection Details** Job No: 24063 Client: KAD Build LTD

Detailed Design

Stage:

Designer: IT Drawn By: PS Technician: PS

Scale @ A3: Rev Date Description -V0 -24/07/24 Client Changes -V1 -16/08/24 Client Changes -V1 - 28/8/24 Developed Design -V1 - 9/2/24 Detailed Design A2.06

Wall Cladding Materials
-WALL CLADDING 1: Resene 50mm Integra over 20mm cavity system installed as per manufacturer's specifications

-WALL CLADDING 2: Hermpac Vertical Shiplap weatherboards over 20mm cavity system installed as per manufacturer's specifications & E2/AS1 (Dwangs @ 400crs

Roofing Notes

-ROOF CLADDING 1:0.40 BMT Colorsteel Longrun Corrugate on Self-supporting building underlay

Roof Pitch 450mm Eaves Width 1 Gable Width 1 450mm

James Hardie Soffit Lining

Selecte | colorsteel C colorsteel Quad spouting (5550mm²) cross sectional area fix to 185 Colorst el fascia

Down lipe (DP) -73X55 mm Color

nm Colorsteel Downpipes

powder-coated Low E. Argon, thermally Broken aluminium joinery double h all glazing to comply with NZS 4223. (R0.50 Ug 1.10)

plazing a d glazed openings to comply with NZS 4223.3:2016 Glazing in uildings Part 3: Human impact safety requirements, NZS 4211:2008: pecifica on for preformance of windows and New Zealand Building Code lauxs: 2 Hazardous Building Materials & F4: Safety from Falling.

4-							
0	BUILDING ENVELOPE RISK MATRIX						
16	All Eleva	All Elevation					
Risk Fac	or	Risk Severity	Risk Score				
Ni <mark>nd</mark> zo	e (per NZS 3604)	High risk	1				
Number	f storeys	Low risk	0				
Roof/wa	intersection design	Low	0				
Eaves w	lth	Medium risk	1				
En <mark>vel</mark> op	complexity	Medium risk	1				
De ck de	ign	Low	0				
racob;	Coore:		2				





Approved Building Consent Document

Ilaisa Design Limited

7614

ILAISA Email: admin@ilaisadesign.co.nz





West Elevation

Lot 360 - Arbour green Project Address:

Lot 360 - Arbour green - Buxus Way, Rolleston ,Selwyn

Drawing Title: Elevations Job No: Client:

Stage:

Designer: IT Drawn By: PS

Technician: PS

117 yr 1.278 yr 1.344 yr 1.440 yr 958 98 yr 988 yr 1.614 yr 2,850

KAD Build LTD

Detailed Design

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19/12/2024

13 Henare Drive, iZone, Rolleston

- Confirm all opening sizes onsite prior to installation
- Sizes shown are rough opening sizes and & leaf sizes
- Client to confirm window & door style & finishes - All doors & sliders are taken from External Elevation
- All windows are taken from External Elevation
- Refer to gound floor plan for accurate opening location

Internal Door Leaf Height 1980mm-2330mm (Wardrobe doors) (Confirm

Internal Door lintel height with Contractor) Internal Door Leaf Width

810mm standard - as noted on plans

All exterior window and door joinery to be Selected powder-coated Low E. Argon, thermally Broken aluminium joinery double glaze with all glazing to comply with NZS 4223. (R0.50 nd dressed timber reveals unless noted otherwise. Refer to specification for full

Door Leaf Height: -1980mm-2330mm (Wardrobe doors) (Confirm Internal Door lintel wh Contractor)

Door Leaf Width: -810mm standard - as noted on plans (unless noted on plan). -Coloursteel sectional.

Door:

-Refer to the Floor Plan/Truss Design for lintel sizes. -To all windows less than 800mm above FFL, unless a transom is

less than 1.0m from FL. -To all windows in wet areas less than 2.0m above FFL. -To all doors (bottom pane only where a transom is used.)

-To Bathroom, WC and Ensuite Glazing (OB):

-Obscur Glazing (-Safety lazing or Anneale Glass

-Regric r Stay (**RS**):

-Safety Glazing or Annealed Glass as per NZS 4223.3:2016 -Restrictor stays fixed to window openings

nd glazed openings to comply with NZS 4223.3:2016 Glazing in buildings - Part 3: npact safety requirements, NZS 4211:2008: Specification for preformance of windows Zealand Building Code Clauses: F2 Hazardous Building Materials & F4: Safety from

glazing units used:

All Dou le Glazed Units

ith Table G2, table E1.1.1 in H1/AS1

Unit - TBC window manufacture ss / 12mm Air Gap / 4mm Glass

Sliger Unit -TBC window manufacture

ss / 8mm Air Gap / 5mm Glass anel -TBC window manufacture

ghened / 8mm Air Gap / 6.38mm Laminate

insulation Requirements to meet H1 -Climate

Zor e 5

For ndations:

Standard NZS3604:2011 Single Pour foundation system with 50mm Poly underslab (300-400mm ment in the contract of the co

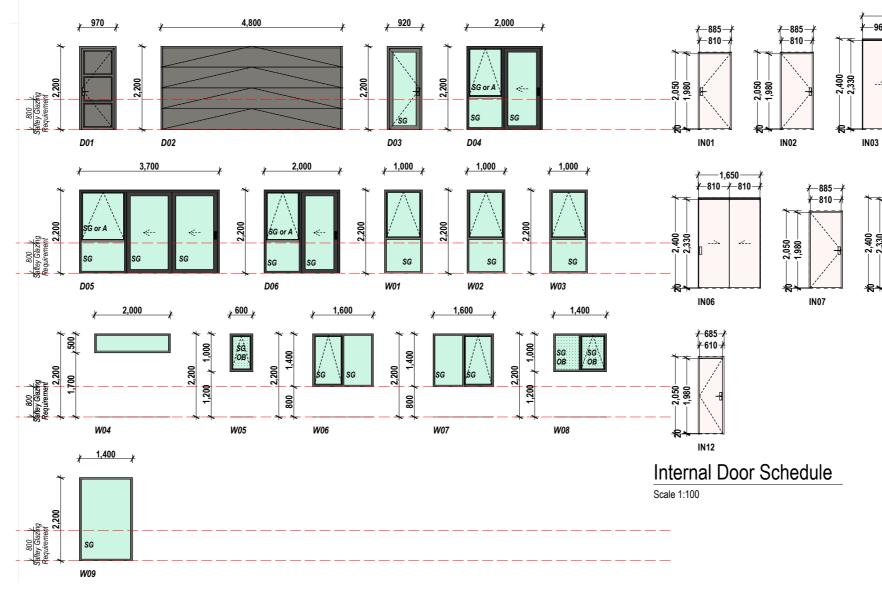
🕅 a I Insulation:

X32 (140mm thick)

Se ected powder-coated Low E. Argon, thermally Broken aluminium joinery double glaze with all glazing to comply with NZS 4223. (R0.50 Ug 1.10)

Colling Insulation:

-2Xlayers of R3.6



Confirm all door Leaf sizes and opening direction on the floor plan

/--885-/

∕−810*−*

∤ 760 →

/--810 --∦

IN05

Print Date

19/12/2024

-V1

-2,910-

-960-∤-960-∤-960-

←810 / 810 /

Door & Window Schedule

	Mindow Area/Door	Auga /Minim	100/					
Natural Light:	Window Area/Roor	n Area (IVIIIIII	num 10%)	Ventilation:	Vented Area/Room Area (Minimum 5 %)			
Rooms	Window Area (Glazed)	Room Area	Total	Rooms	Window Area (Vented)	Room Area	Total	
Living/Dining/kitch	17.99	49.83	36%	Living/Dining/kitch	11.98	49.83	24%	
Bedroom 1	4.78	13.84	35%	Bedroom 1	3.17	13.84	23%	
ensuite	0.4	4.11	10%	ensuite	0.46	4.11	11%	
bedroom 2	1.82	9.4	19%	bedroom 2	0.96	9.4	10%	
bathroom	1.08	6.98	15%	bathroom	0.58	6.98	8%	
Bedroom 3	1.82	9.4	19%	Bedroom 3	0.96	9.4	10%	
Hallway	1.77	7.44	24%	Hallway	1.11	7.44	15%	

Ilaisa Design Limited

13 Henare Drive, iZone, Rolleston **ILAISA** Email: admin@ilaisadesign.co.nz





Lot 360 - Arbour green Lot 360 - Arbour green - Buxus Way, Rolleston ,Selwyn Drawing Title: Door & Window Schedule Job No: Client: KAD Build LTD Stage: Detailed Design

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Design Navigator H1 Compliance Report

Proiect Summary

H1 Report created by: IlaisadesignLTD 24063 - Lot 360 Arbour Green Project Name: KAD build Client: Lot No:

187619 Project Id: Report Date: 19/09/2024

Compliance Result

This report shows compliance of the design with Clause H1 AS1 Fifth Edition from 4 August 2022 and the R-value targets of Clause E3 Second edition Amendment 7 from 5 November 2020.

This building complies with Clause H1 AS1 Edition 5 Amendment 1 for all housing, and buildings up to 300m²

In order to comply with Clause H1 the building needs to comply with at least one of the three compliance paths (Schedule, Calculation or Modelling Method). This design complies with the Calculation Method.

The building complies with Clause E3 Second Edition Amendment 7 from 5 November 2020.

* Note that all floor, wall and roof R-values are rounded to 1 decimal point, window and skylight R-values are rounded to 2 decimal points

H1 Compliance Details

H1 AS1 Edition 5 - Calculation Method Compliance

The use of the Calculation Method is **permitted** because the vertical glazing area is **smaller** than 40% of the gross wall

In order to comply the heat loss of the proposed building must not be larger than the reference building heat loss AND all component R-values must be at least 50% of the R-values shown in the '50% Rule' table below. This design complies with the H1 Calculation Method.

HeatLoss:

р	laximum ermitted eat Loss	Proposed Building Heat Loss	
7	271 W/°C	265 W/°C	V

The reference building element areas and R-values are shown below. The last column shows the element areas of the proposed building.

Element	Reference Building Area	Reference Building R-value	Proposed Building Area
Roof	158.2 m²	6.6	158.2 m²
Wall	108.5 m²	2.0	106.2 m²
Slab Floor	159.1 m²	1.6	159.1 m²
Other Floor	0.0 m ²	3.0	0.0 m ²
Window and Door	46.5 m²	0.50	48.8 m²
Skylight	0.0 m ²	-	0.0 m ²

Minimum R-values ("50% rule"):

Element Type	Minimum permitted R-value	Minimum proposed R-value	
Roof	3.3	3.4	V
Wall	1.0	2.1	V
Slab Floor	0.8	1.6	V
other Floor	1.5		V

Lighting Power Density Compliance

Residential buildings are not required to comply with the lighting power density targets.

Compliance with Clause E3

Design Details

Location

Climate Zone

Total Floor Area

Slab Floor Area

Other Floor Area

Gross Wall Area

Net Wall Area

North Wall Area

Window Area

North Window Area

Opaque Door Area

Gross Roof Area Net Roof Area

Skylight Area

Total Window Percentage

Total Windows over 30% Total Windows over 40%

Skylight Area over 1.5m²

Opaque Door Area over 6m²

Opaque Door Percentage Opaque Door Area over 6%

Skylight Percentage Skylight Area over 1.5%

East, South and West Window Percentage East, South and West Windows over 30%

East, South and West Wall Area

East, South and West Window Area

Building Dimensions

Glazing Areas

This building **complies** with Clause E3 Second Edition Amendment 7 from November 2020.

Building Element	Minimum permitted R-value	Minimum project R-value	
Light timber frame wall or other framed wall constructions with cavities	1.5	2.1	~
Single skin normal weight masonry based wall construction without a cavity	0.6		
Solid timber wall systems no less than 60 mm thick	0.6		Г
Roof or ceilings of any construction	1.5	3.4	V

Selwyn District

159.1 m

159.1 m

155.0 m

106.2 m

33.7 m

72.5 m

36.1 m

15.4 m

20.7 m 12.7 m

158.2 m

158.2 m

0.0 m

23.3 9

19.6 9

no 0.0

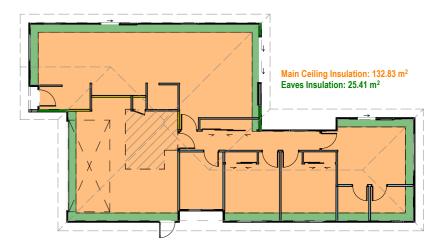
no

yes

8.2

yes

0.0 m



Ceiling Insulation Plan

Heat Loss Details

ID	Name	Orien	t. Width	Height	Gross Area	Net Area	R	Heat Loss	Type Heated	Construction
<u>loors</u>										
F1	Standard NZS 3604:2011 Single Pour Foundation with 50mm Poly Underslab				159.1	159.1	1.56	102.0	slab	Floortype 3 - Standard NZS 3604:2011 Single Pour Foundation with 50mm Poly Underst
Valls										
W1	North 1	N	16.50	2.40	39.6	26.4	2.33	11.3		Walltype 1 - 90mm framing - 50mm Resene AAC Integra Panel
Wi1-1	W01		1.00	2.20		2.2	0.50	4.4		Thermally Broken - Low E4, Argon (UG 1.10)
Wi1-2	D06		2.00	2.20		4.4	0.50	8.8		Thermally Broken - Low E4, Argon (UG 1.10)
Wi1-3	W02		1.00	2.20		2.2	0.50	4.4		Thermally Broken - Low E4, Argon (UG 1.10)
Wi1-4	D04		2.00	2.20		4.4	0.50	8.8		Thermally Broken - Low E4, Argon (UG 1.10)
W2	North 2	N	3.94	2.40	9.5	7.3	2.10	3.5		Walltype 2 - 90mm framing - Envira Vertical Shiplap Weatherboard
Wi2-1	W03		1.00	2.20		2.2	0.50	4.4		Thermally Broken - Low E4, Argon (UG 1.10)
W3	South 1	S	2.00	2.40	4.8	4.8	2.96	1.6		Walltype 3 - 140mm framing - 50mm Resene AAC Integra Panel
W4	South 2	S	18.44	2.40	44.3	35.8	2.33	15.3		Walltype 1 - 90mm framing - 50mm Resene AAC Integra Panel
Wi4-1	D03		0.92	2.20		2.0	0.50	4.0		Thermally Broken - Low E4, Argon (UG 1.10)
Wi4-2	W08		1.40	1.00		1.4	0.50	2.8		Thermally Broken - Low E4, Argon (UG 1.10)
Wi4-3	W07		1.60	1.40		2.2	0.50	4.5		Thermally Broken - Low E4, Argon (UG 1.10)
Wi4-4	W06		1.60	1.40		2.2	0.50	4.5		Thermally Broken - Low E4, Argon (UG 1.10)
Wi4-5	W05		0.60	1.00		0.6	0.50	1.2		Thermally Broken - Low E4, Argon (UG 1.10)
W5	East 1	Е	5.75	2.40	13.8	5.7	2.96	1.9		Walltype 3 - 140mm framing - 50mm Resene AAC Integra Panel
Wi5-1	D05		3.70	2.20		8.1	0.50	16.3		Thermally Broken - Low E4, Argon (UG 1.10)
W6	East 2	Е	6.15	2.40	14.8	13.8	2.33	5.9		Walltype 1 - 90mm framing - 50mm Resene AAC Integra Panel
Wi6-1	W04		2.00	0.50		1.0	0.50	2.0		Thermally Broken - Low E4, Argon (UG 1.10)
W7	West 1	W	2.08	2.40	5.0	1.9	2.10	0.9		Walltype 2 - 90mm framing - Envira Vertical Shiplap Weatherboard
Wi7-1	W09		1.40	2.20		3.1	0.50	6.2		Thermally Broken - Low E4, Argon (UG 1.10)
W8	West 2	W	9.59	2.40	23.0	10.3	2.33	4.4		Walltype 1 - 90mm framing - 50mm Resene AAC Integra Panel
Wi8-1	D01		0.97	2.20		2.1	0.50	4.3	opaque	Entry Door
Wi8-2	D02		4.80	2.20		10.6	0.69	15.3	opaque	Insulated Garage Door
W9	West 3	W	0.14	2.40	0.3	0.3	2.96	0.1		Walltype 3 - 140mm framing - 50mm Resene AAC Integra Panel
<u>oofs</u>										
R1	Main Ceiling Insulation				132.8	132.8	7.27	18.3		Rooftype 1 - Main Ceiling Insulation
R2	Eaves Ceiling Insulation				25.4	25.4	3.37	7.5	perimeter	Rooftype 2 - Eaves ceiling insulation

* The floor and roof heatlosses are not included in the heatloss equation for commercial buildings (H1/AS2).

Floor Construction Datails

ILAISA

Ilaisa Design Limited

13 Henare Drive, iZone, Rolleston 7614 Email: admin@ilaisadesign.co.nz





Lot 360 - Arbour green Project Address: Lot 360 - Arbour green - Buxus Way, Rolleston ,Selwyn

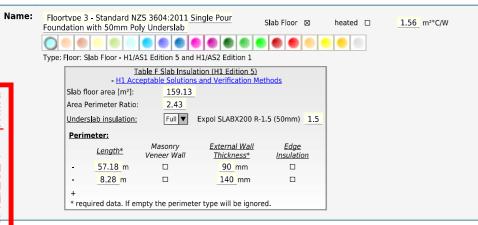
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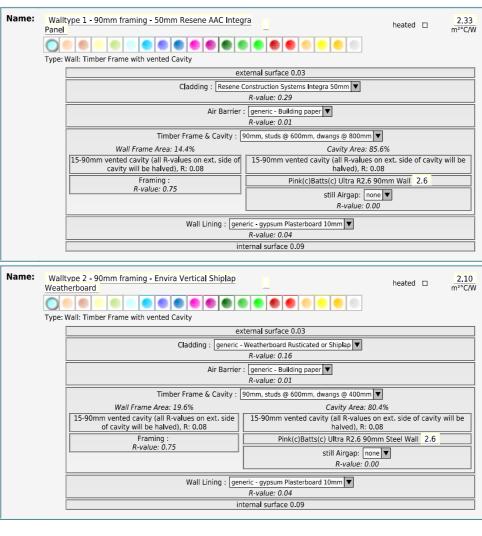
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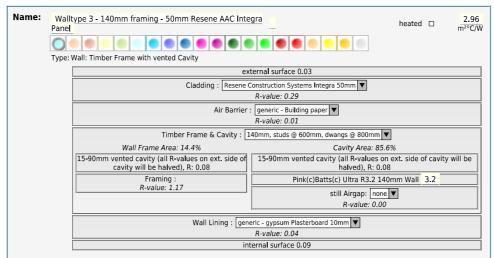
19/12/2024

-V1

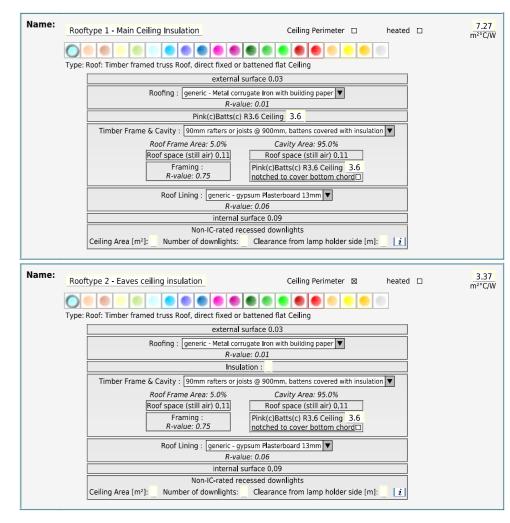


Wall Construction Details





Roof Construction Details



Glazing Details



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Lot 360 - Arbour green Project Address: Lot 360 - Arbour green - Buxus Way, Rolleston ,Selwyn

Drawing Title: Construction R Values Job No: 24063 Client: KAD Build LTD Stage: Detailed Design

Designer: IT Drawn By: PS Technician: PS

Rev Date Description Scale @ A3: -V0 -24/07/24 Client Changes -V1 -16/08/24 Client Changes -V1 - 28/8/24 - Developed Design Sheet No: -V1 - 9/2/24 Detailed Design A3.04

19/12/2024

Rev:

-V1

Foundation Notes:

- Standard NZS3604:2011 Single Pour foundation system with 50mm Poly underslab (300-400mm depth or 300kpa as per geo tech report)

-200mm wide concrete foundation footing reinforced with 2/D16 bars & D10 starters @ 600mm crs max, extending 400mm min into slab.

-20MPa 100mm thick concrete floor reinforced with SE62 mesh on 0.25mm thick polythene DPM, 50mm H Grade EPS Polystyrene underslab,5- 25mm max sand blinding layer and 150mm layers compacted AP40 granular fill.

Slab & footings to be 20MPa @ 28 days of standard curing.

- 1/4 deep saw cut into concrete slab @ 6m crs. max. @ ratio of 1:2 max. - Shrinkage control joints may be cut at an angle as long as the included angle is not less than 60°. Inaccordance with NZBC 3604:2011 clause 7.5.8.6.1

- Avoid construction joints & shrinkage controls under tiled areas. No shrinkage control cuts to be placed under framing that is to be used as a bracing element.

mentary reinforcing to internal corners where shrinkage controls do not meet nal corner.

-Fax floors with more than one finished level, ensure step in foundation is constructed with 20 MPa concrete in accordance with NZBC D1/AS1. Minimum tread depth maximum riser height 190mm 280mr

-over release of relea f waste. (Manufacturers technical specifications should be consulted to

& Tub riser locations have a typical offset of 45mm to centre line of wall framing to centre of waste.

n floor slab must be earthed. Earth with 16mm REO rod brought up into wall below meterbox & wired to the mesh. At prewire, connect a clamp & piece of wire o rod & earth it to the meterbox.

m heights of concrete slab on ground above surrounding ground levels to be: cladding - 150mm to sealed surface & 225mm to unsealed ground as per

Finish d floor level to be 150mm minimum above crown of road as per NZBC E1/ AS1 Fi ure 1 or the lowest point of the boundary as per Figure 2 ,E1/AS1. n layout of fittings of kitchen & bathroom etc. before foundation commences.

CLADDING 1:0.40 BMT Colorsteel Longrun Corrugate on Self-supporting buildin

25° 450mm /idth ' 450mm

James Hardie Soffit Lining

Selected colorsteel (

colorsteel Quad spouting (5550mm²) cross sectional area fix to 185

Colors el fascia Down lipe (DP) -74X55 mm Colors

mm Colorsteel Downpipes

-VALL CLADDING 1: Resene 50mm Integra over 20mm cavity system installed as per turer's specifications

-WALL CLADDING 2: Hermpac Vertical Shiplap weatherboards over 20mm cavity system installed as per manufacturer's specifications % 50464. installed as per manufacturer's specifications & E2/AS1 (Dwangs @ 400crs

Wal Framing:

High

TE NAL FRAMING - Up to 3m Stud Height: H1.2 treated SG8 90x45mm timber studs @ 600mm crs. max, Dwangs @ 800mm crs. max. (Refer to NZS3604

FRAMING 1: Up to 2.4m Stud Height: H1.2 treated SG8 90x45mm timber studs @ 600mm crs. max, Dwangs @ 800mm crs. max. (Integra Panels) to NZS3604 table 8.2)

FRAMING 2:Up to 2.4m Stud Height: H1.2 treated SG8 90x45mm timber studs @ 600mm crs. max, Dwangs @ 400mm crs. max (Shiplap Cladding).

140mm WALL FRAMING 1:Up to 3.6m Stud Height: H1.2 treated SG8 140x45mm framing studs @ 600mm crs. max, Dwangs @ 800mm crs. max (Integra

Bottom plate to concrete floor (Non-braced):

-Bottom plate fix to Slab with M12 bolts on 50x50x3 Square washers @ 900mm crs max (600crs max When using Masonry Header Blocks). Refer to supporting documents for further hold down requirements relating to each individual bracing

Wall Framing

Height To Underside Of Truss 2455mm

Lintel Height 1 2200mm

Internal Door Leaf Height 1 1980mm-2330mm (Wardrobe doors)

(Confirm Internal Door lintel height with Contractor)

Internal Door Leaf Width 810mm standard - as noted on plans

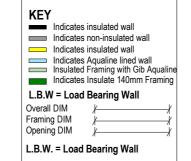
Plasterboard Materials

-10mm GIB plasterboard installed over timber framing as per manufacturer's

specifications. GIB Aqualine to be used in wet areas.

as per manufacturer's specifications.

Selected powder-coated Low E. Argon, thermally Broken aluminium joinery double glaze with all glazing to comply with NZS 4223. (R0.50 Ug 1.10)



Building Wrap/Exterior Cladding

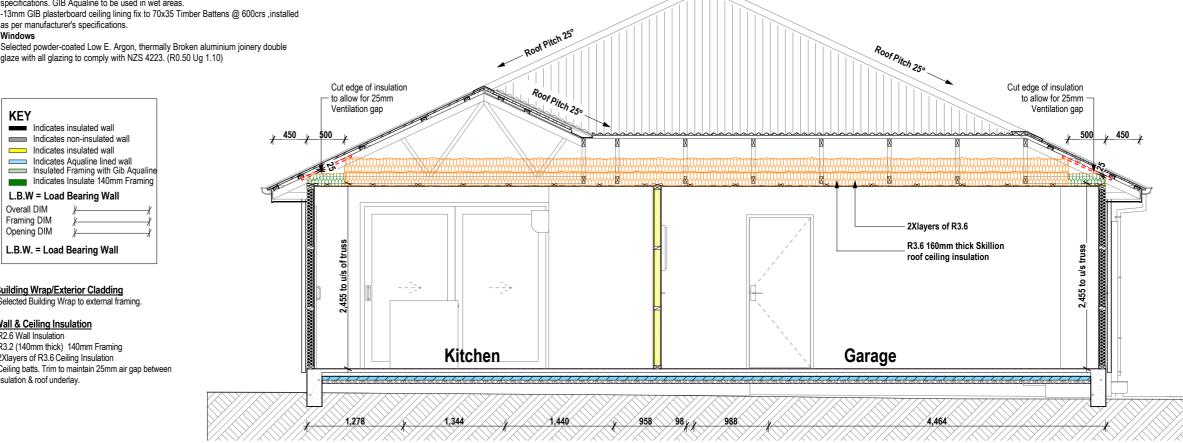
-Selected Building Wrap to external framing.

Wall & Ceiling Insulation

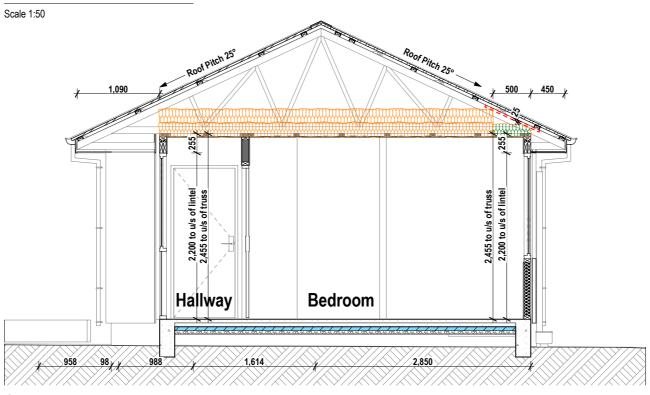
-R2.6 Wall Insulation

-R3.2 (140mm thick) 140mm Framing -2Xlayers of R3.6 Ceiling Insulation

-Ceiling batts. Trim to maintain 25mm air gap between insulation & roof underlay.



Section A



Section B

Scale 1:50

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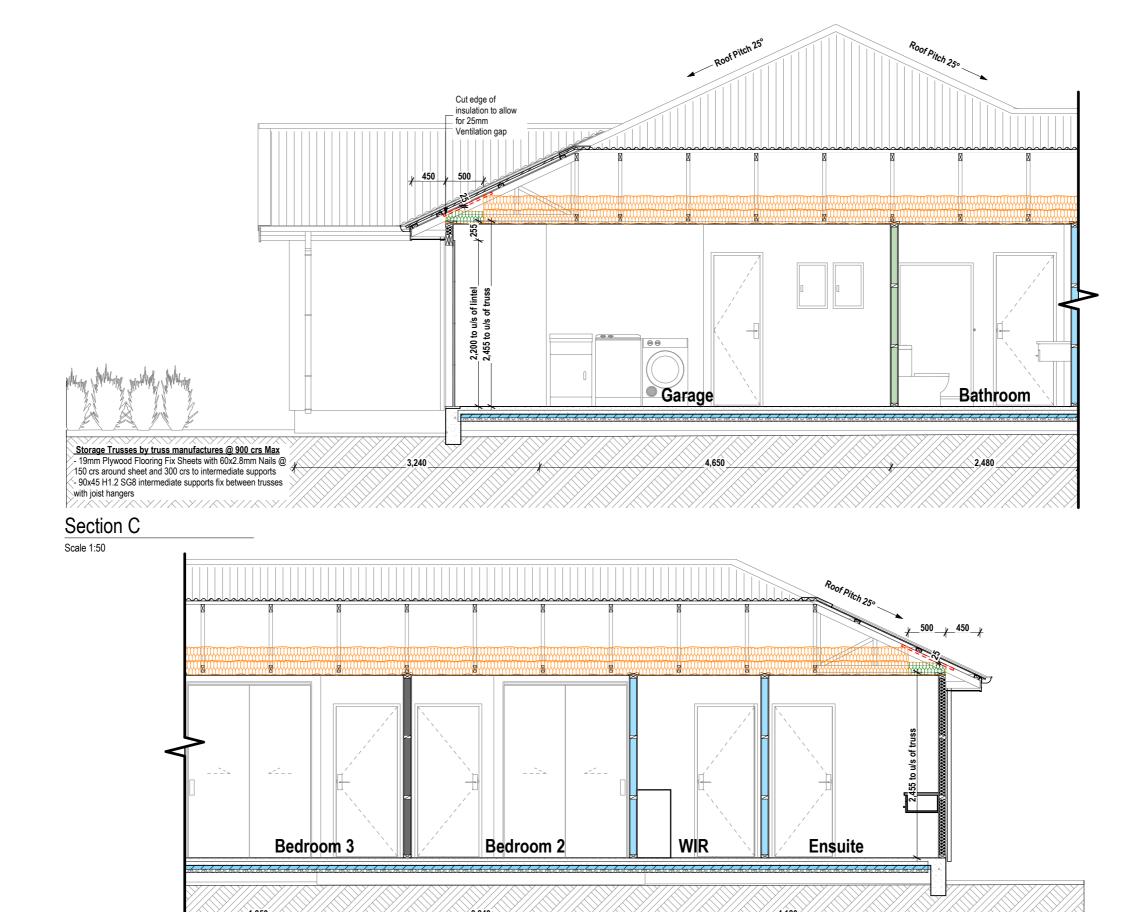
Lot 360 - Arbour green Project Address:

Lot 360 - Arbour green - Buxus Way, Rolleston ,Selwyn

Drawing Title: Cross Section A & B Job No: 24063 Client: KAD Build LTD Stage:

Detailed Design

Scale @ A3: Rev Date Description Print Date Designer: IT -V0 -24/07/24 Client Changes 19/12/2024 -V1 -16/08/24 Client Changes Drawn By: PS -V1 - 28/8/24 Developed Design Rev: -V1 - 9/2/24 Detailed Design A4.01 -V1 Technician: PS





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Section C Scale 1:50

Lot 360 - Arbour green Project Address: Lot 360 - Arbour green - Buxus Way, Rolleston ,Selwyn Drawing Title: **Cross Section C** Job No: 24063 Client: KAD Build LTD

Detailed Design

Stage:

Designer: IT Drawn By: PS Technician: PS

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- 24/07/24 Client Changes

- V1 - 16/08/24 Client Changes

- V1 - 28/8/24 Developed Design

- V1 - 9/2/24 Detailed Design A4.02

Print Date

19/12/2024

Rev:

-V1

KEY

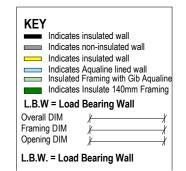
Overall DIM Framing DIM Opening DIM

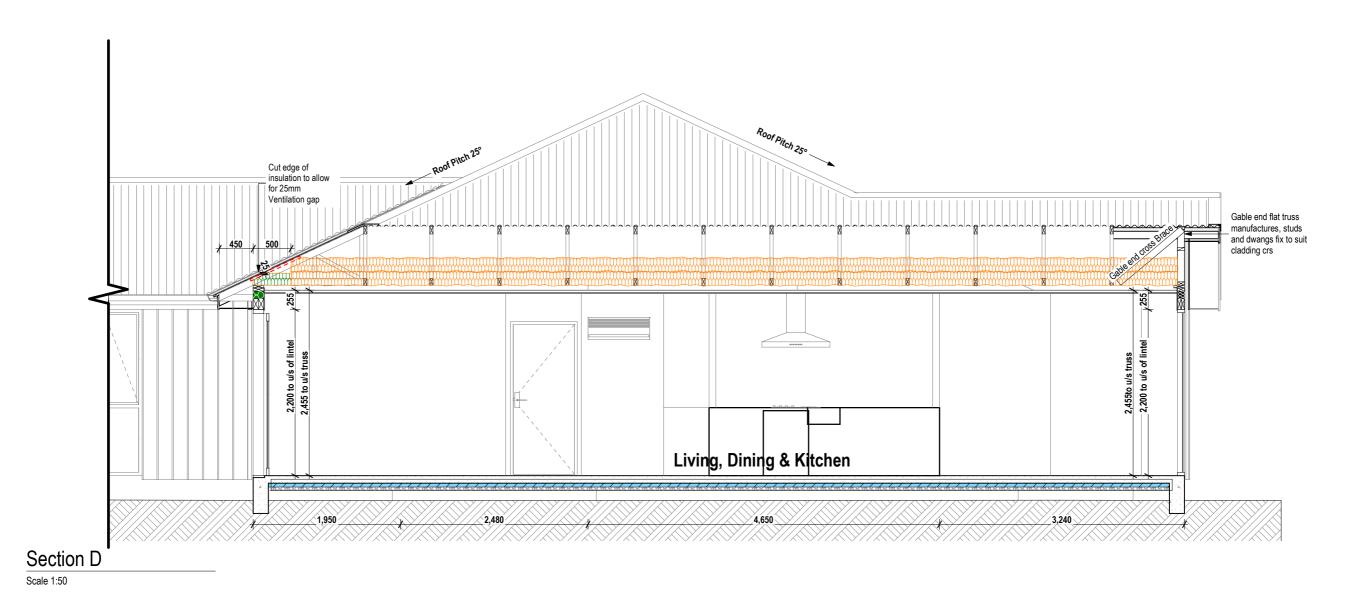
Indicates insulated wall
Indicates non-insulated wall Indicates insulated wall Indicates insulated wall
Indicates Aqualine lined wall
Insulated Framing with Gib Aqualine

L.B.W = Load Bearing Wall

L.B.W. = Load Bearing Wall

Indicates Insulate 140mm Framing







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Lot 360 - Arbour green Project Address: Lot 360 - Arbour green - Buxus Way, Rolleston ,Selwyn Drawing Title: Cross Section D Job No: 24063 Client: KAD Build LTD Stage: Detailed Design

Designer: IT Drawn By: PS Technician: PS

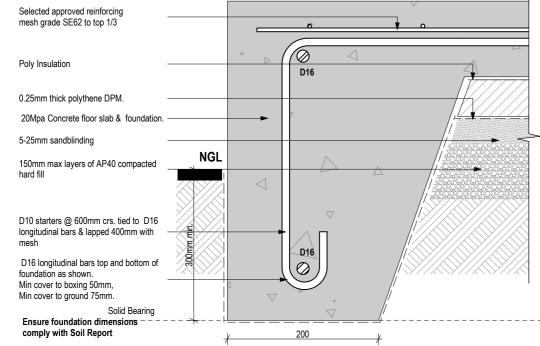
Subject to council approval, All measurements to be confirmed on site by the contractor prior to the commencement of work. No part of this work may be reproduced or copied in any form or by any means without the written permission of Ilaisa Tabukovu Scale @ A3: Rev Date Description VO 24/07/24 Client Changes
V1 -16/08/24 Client Changes
-V1 -28/8/24 Developed Design
-V1 -9/2/24 Detailed Design A4.03

Print Date

19/12/2024

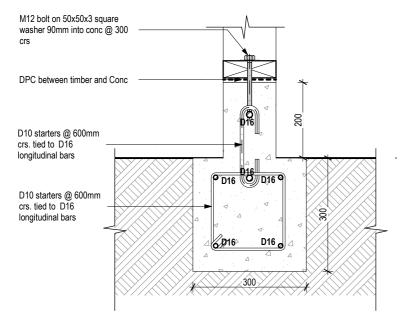
Rev:

-V1



Foundation with 50mm Poly underslab Detail

Scale 1:5



Post Strip Footing Detail

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Scale 1:10

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7614



Lot 360 - Arbour green

Lot 360 - Arbour green - Buxus Way, Rolleston ,Selwyn

Job No: Client: Stage:

Downpipe brackets fixed to Cladding with appropriate toggle fasteners. FFL Downpipe to be sealed if within 500mm of gas water heater or meter 100Ø riser to extend to botton of cladding. Refer to foundation plan for location of downpipes. 250mm min

Downpipe Offset Detail

Selected Cladding

Width of trench to be pipe diameter plus 200mm with

drain located centrally.

Pipe penetration Detail

All drains inder floor slab to be:

Drain pipe through foundation wall to be sleeved in uPVC pipe with hessian or similar packing to fill void between.

Refer to drainage plans for pipe sizes and

Pipes under floor slabs to be wrapped with

hessian cloth or similar to protect against

Compacted granular bedding and surround,

Drains through foundation wall to be placed

to avoid interferance with reinforcing steel

foundation walls at any angle greater than

Drain pipe through foundation wall to be sleeved in uPVC pipe with hessian or similar

Pipes under floor slabs to be wrapped with

hessian cloth or similar to protect against

Refer to drainage plans for pipe sizes and

-50mm min clearance from underside of floor slab. -laid straight with even gradient along length of drain.

layout, drains not to pass through

packing to fill void between.

damage from movement.

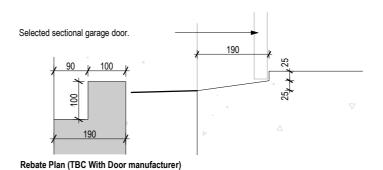
gradients.

base bedding compacted prior to laying

damage from movement.

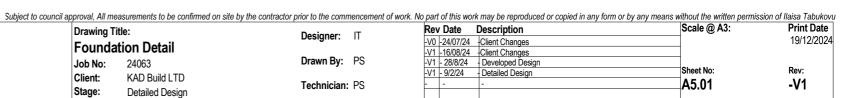
gradients.

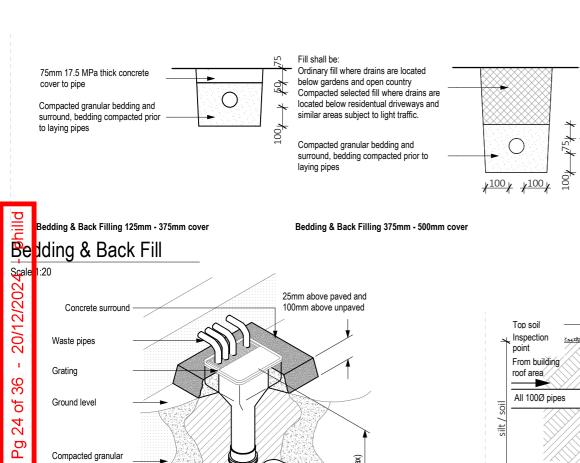
Scale 1:10



190 Garage Rebate Detail

Scale 1:10





Concrete surround

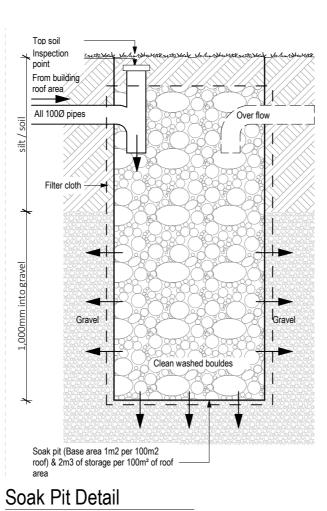
25mm above paved 100mm above unpaved

backnut

detail applies.

Backnut

Trap connector



Fill shall be:

Ordinary fill where drains are located

Compacted selected fill where drains are

located below residentual driveways and

below gardens and open country

similar areas subject to light traffic.

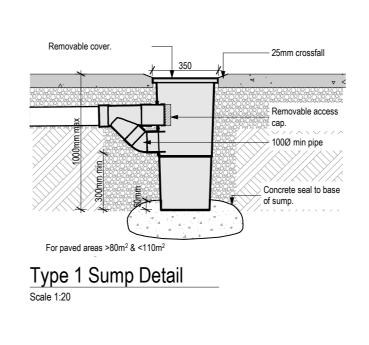
Compacted granular bedding and

surround, bedding compacted prior to

Bedding & Back Filling 500mm or more cover

Compacted selected fill.

laying pipes

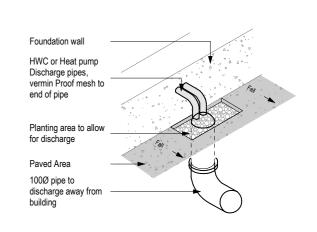


Building Foundation Footing

Minimum horizontal seperation V. (3V if trench is open longer than 48hrs).

Relationship of pipe trench to building foundation

V or 3V



250mm min

HWC Discharge Pipe to paved area

Selected Cladding

toggle fasteners.

heater or meter

of cladding.

Scale 1:10

Downpipe brackets fixed to

FFL

Cladding with appropriate

Downpipe to be sealed if

within 500mm of gas water

100Ø riser to extend to bottor

Refer to foundation plan for

Down Pipe Offset

location of downpipes.

Scale 1:20

bedding material

Seperation from building foundation

Grate to allow for

surcharge

BC242044

Approved Building Consent Document

Scale 1:50

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Waste through rear of gully trap to be made watertight with male trap connector and

Where internal waste pipe runs are too long to discharge above the GT then the above

Lot 360 - Arbour green

Project Address: Lot 360 - Arbour green - Buxus Way, Rolleston ,Selwyn Drawing Title: Plumbing & Drainage Details. Job No: 24063 KAD Build LTD Client:

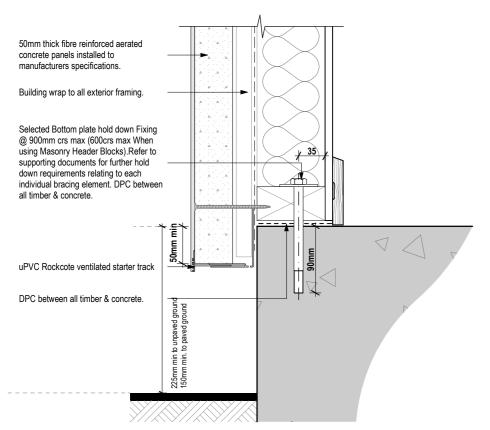
Detailed Design

Stage:

Designer: IT Drawn By: PS Technician: PS

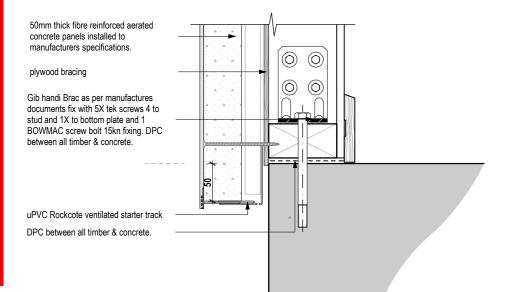
Subject to council approval, All measurements to be confirmed on site by the contractor prior to the commencement of work. No part of this work may be reproduced or copied in any form or by any means without the written permission of Ilaisa Tabukovu Scale @ A3: Print Date Rev Date Description 19/12/2024 -V1 - 28/8/24 Developed Design -V1 - 9/2/24 Detailed Design A5.02 -V1

Typical Gully Trap



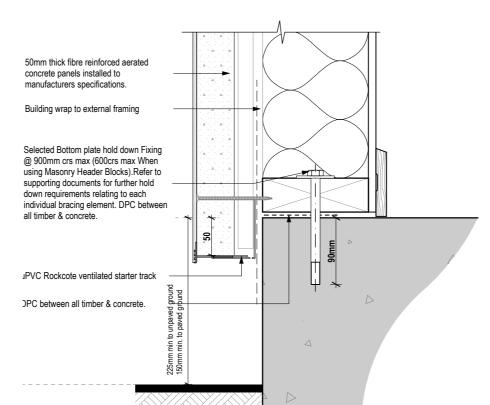
90mm Frame Integra Base Cladding Details

Scale 1:5



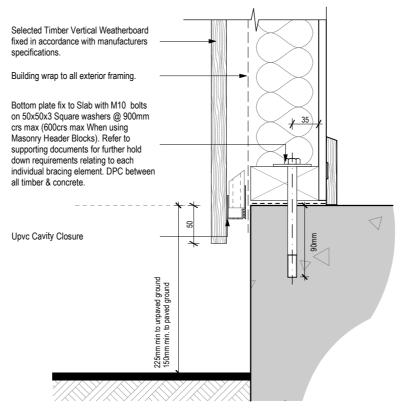
Garage Door with ply Bracing Details

Scale 1:5



140mm Frame Integra Base Cladding Details

Scale 1:5



Vertical Shiplap Base Details

Scale 1:5

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Print Date

-V1

19/12/2024

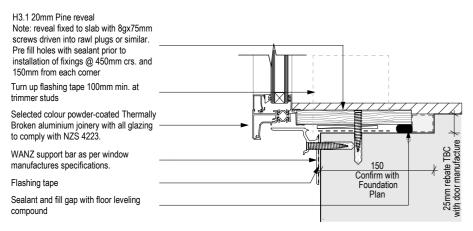
Scale @ A3: Drawing Title: Rev Date Description Designer: IT -V0 -24/07/24 Client Changes **Cladding Base Details** Lot 360 - Arbour green -V1 -16/08/24 Client Changes Drawn By: PS -V1 - 28/8/24 Developed Design -V1 - 9/2/24 Detailed Design Job No: KAD Build LTD Client: A5.03 Technician: PS Lot 360 - Arbour green - Buxus Way, Rolleston ,Selwyn Stage: **Detailed Design**

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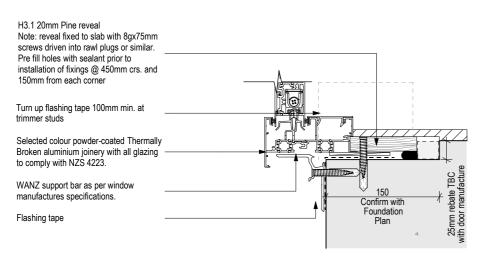
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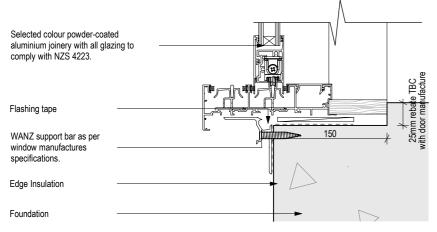




90mm Frame Rebated Door Sill



Rebated Door Sill Details (Single Sliding Door)



Rebated Door Sill Details (Double Sliding Door)



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Lot 360 - Arbour green

Lot 360 - Arbour green - Buxus Way, Rolleston ,Selwyn

Drawing Title: **Rebated Door Details** Job No: Client: KAD Build LTD Stage: **Detailed Design**

-V1 - 28/8/24 Developed Design -V1 - 9/2/24 Detailed Design

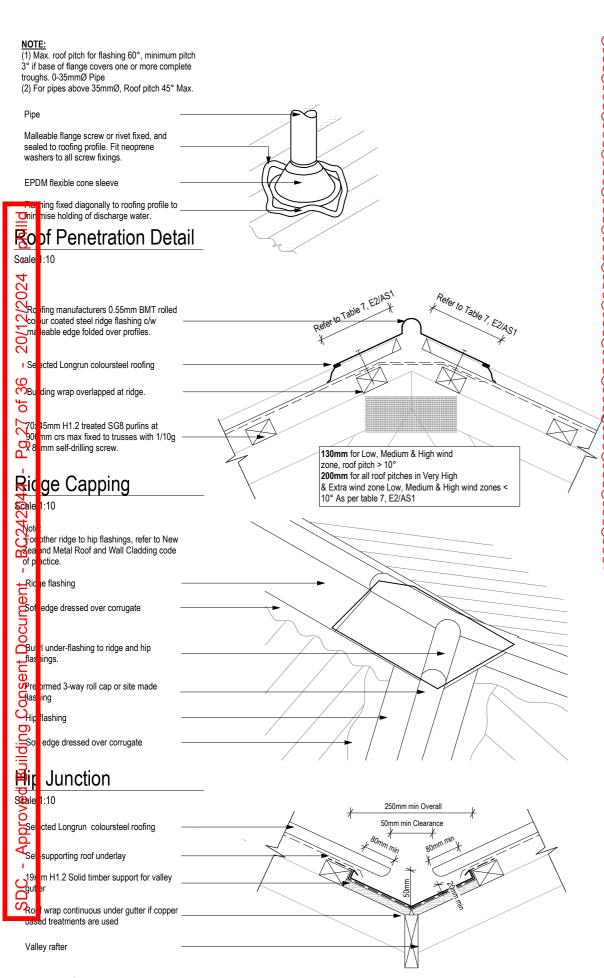
Subject to council approval, All measurements to be confirmed on site by the contractor prior to the commencement of work. No part of this work may be reproduced or copied in any form or by any means without the written permission of Ilaisa Tabukovu

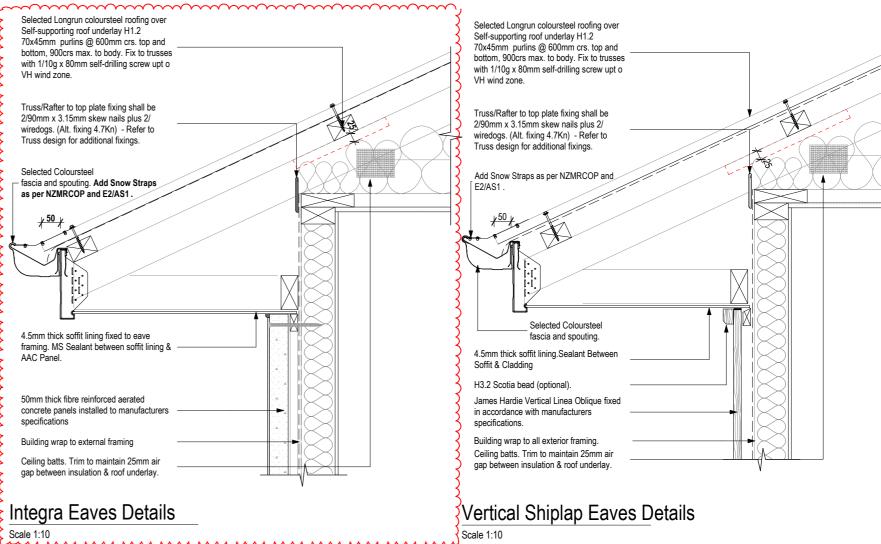
Designer: IT

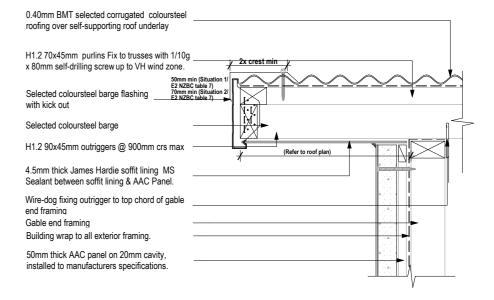
Drawn By: PS

Technician: PS

Scale @ A3: Print Date Rev Date Description 19/12/2024 A5.04 -V1







Barge Details

Valley Gutter

Scale 1:10

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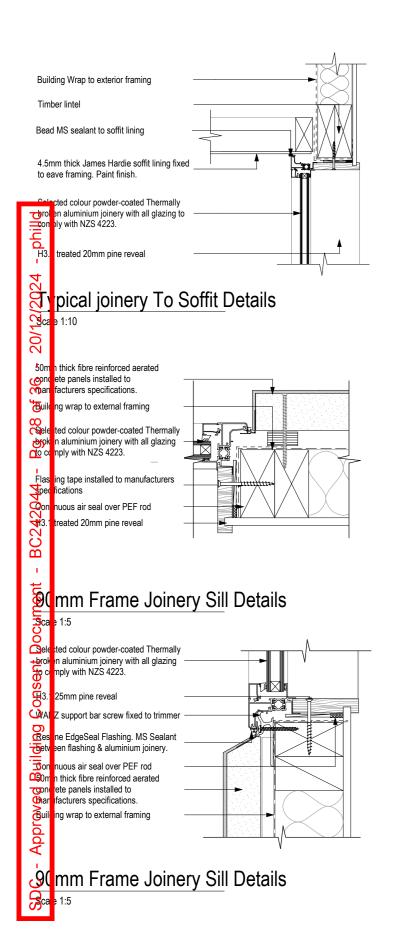
Lot 360 - Arbour green

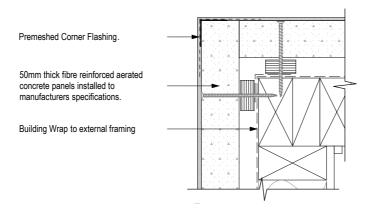
Lot 360 - Arbour green - Buxus Way, Rolleston ,Selwyn

Drawing Title: Typical Roof Details Job No: 24063 Client: KAD Build LTD Stage: Detailed Design

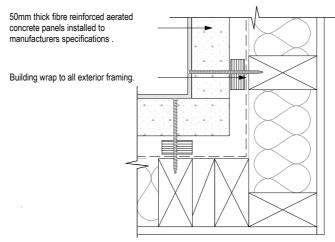
Designer: IT Drawn By: PS Technician: PS

Subject to council approval, All measurements to be confirmed on site by the contractor prior to the commencement of work. No part of this work may be reproduced or copied in any form or by any means without the written permission of Ilaisa Tabukovu Scale @ A3: Print Date Rev Date Description -V0 -24/07/24 Client Changes 19/12/2024 -V1 -16/08/24 Client Changes -V1 - 28/8/24 Developed Design -V1 - 9/2/24 Detailed Design A5.05 -V1



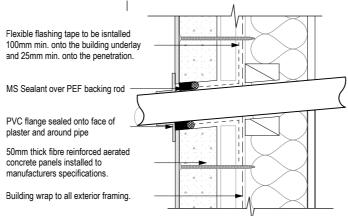


Integra Exterior Cladding Details

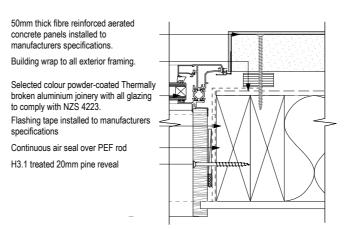


Integra Interior Cladding Details

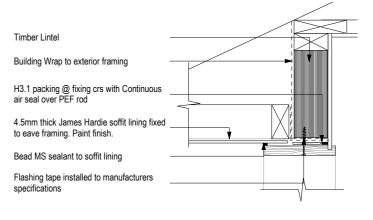
Scale 1:5



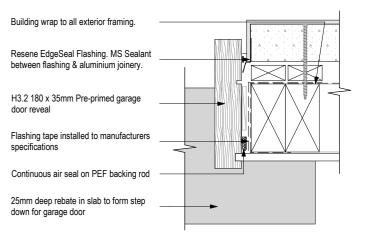
Pipe penetration Details



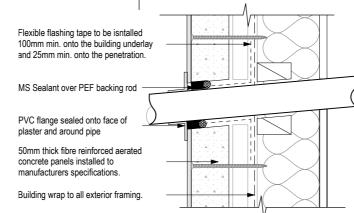
140mm Frame Joinery Jamb Details



Garage door Head to soffit Details



Garage Door Jamb Details



Scale 1:5



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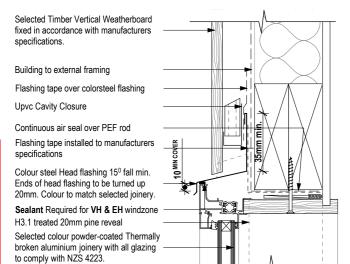


Lot 360 - Arbour green

Project Address: Lot 360 - Arbour green - Buxus Way, Rolleston ,Selwyn Drawing Title: Integra Cladding Details Job No: Client: KAD Build LTD Stage: Detailed Design

Designer: IT Drawn By: PS Technician: PS

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Vertical Shiplap Typical Head Details

Scale 1:5

DPC behind cladding to joinery

Selected Timber Vertical Weatherboard fixed Vertical in accordance with manufacturers specifications.

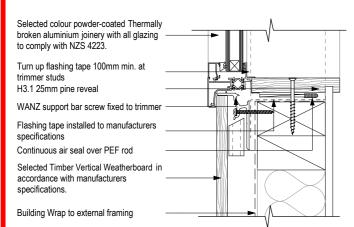
J mould flashing

Building wrap to external framing Selected colour powder-coated Thermally broken aluminium joinery with all glazing to comply with NZS 4223.

Flashing tape installed to manufacturers

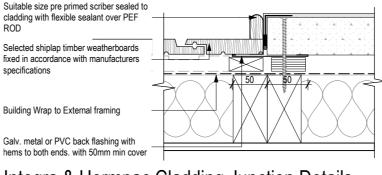
Continuous air seal over PEF rod

Vertical Shiplap Typical Jamb Details

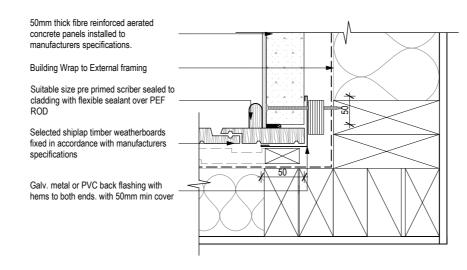


Vertical Shiplap Typical Sill Details

Scale 1:5



Integra & Hermpac Cladding Junction Details



Integra & Hermpac Cladding Junction Details



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Lot 360 - Arbour green

Lot 360 - Arbour green - Buxus Way, Rolleston ,Selwyn

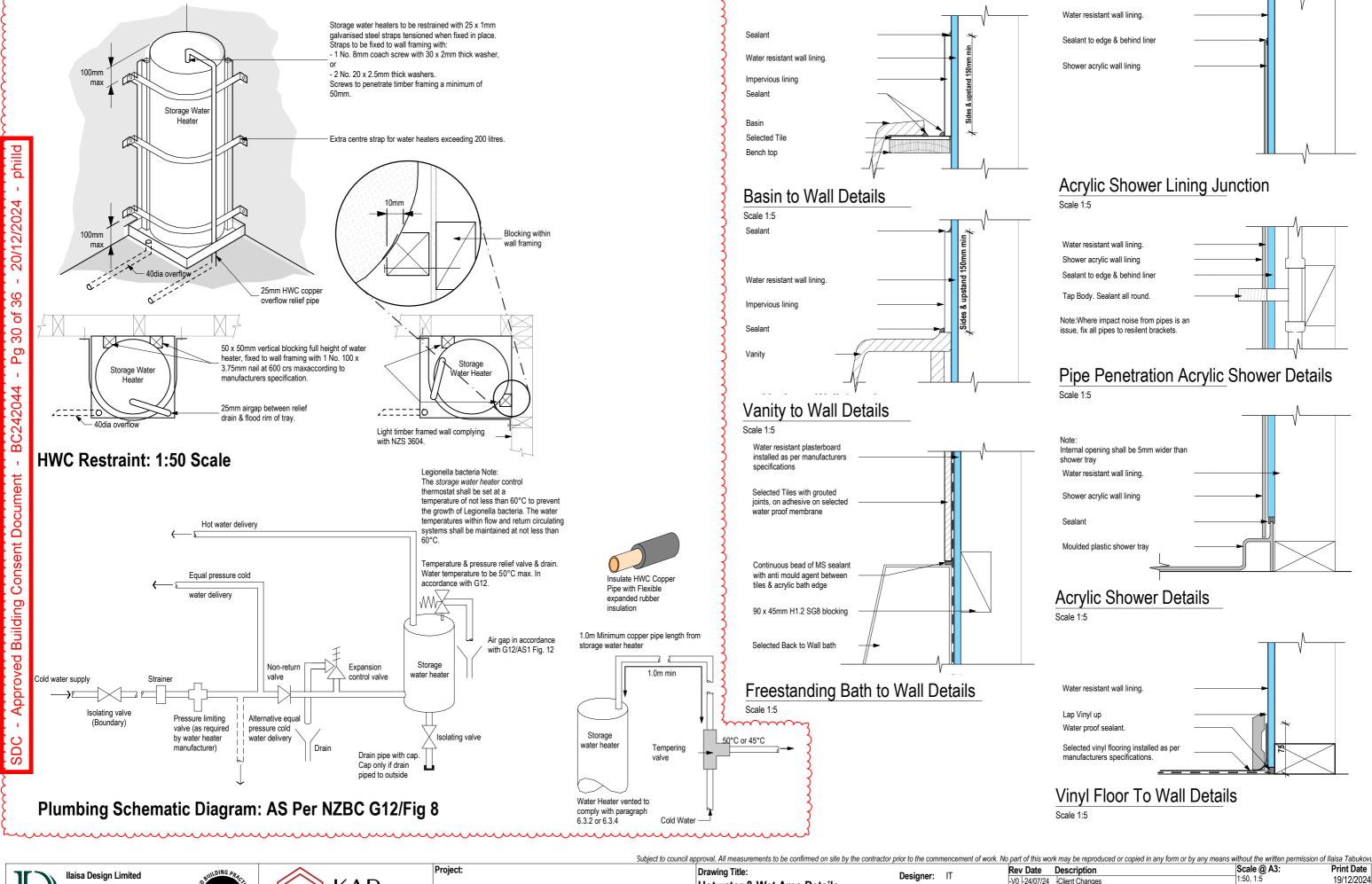
Hermpac Cladding Details Job No: KAD Build LTD Client: Stage: **Detailed Design**

Designer: IT Drawn By: PS Technician: PS

Scale @ A3: Print Date Rev Date Description -V0 -24/07/24 Client Changes 19/12/2024 -V1 -16/08/24 Client Changes -V1 - 28/8/24 Developed Design A5.07 -V1

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Drawing Title:



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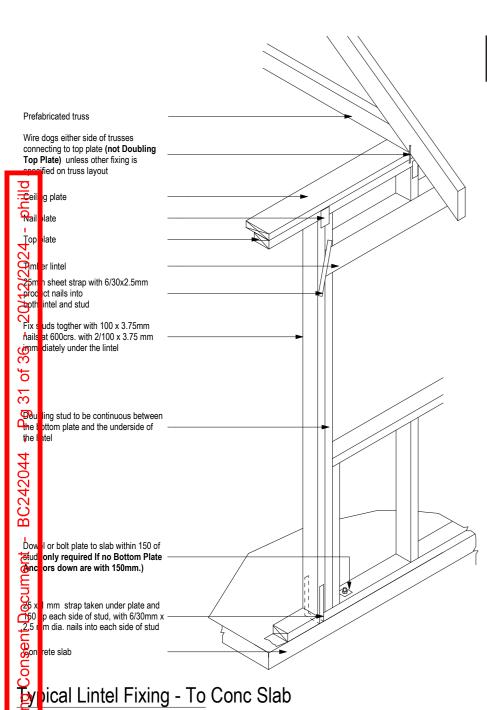
Lot 360 - Arbour green Lot 360 - Arbour green - Buxus Way, Rolleston ,Selwyn Hotwater & Wet Area Details Job No: Client: KAD Build LTD

Detailed Design

Stage:

Drawn By: PS Technician: PS -V0 -24/07/24 Client Changes -V1 -16/08/24 Client Changes -V1 - 28/8/24 Developed Design A5.08

-V1





LINTEL FIXING SCHEDULE

ALTERNATIVE TO TABLE 8.14 & FIGURE 8.12 NZS 3604:2011

Loaded

1.5

2.4

3.0

3.6

42

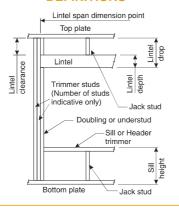
4.5

4.8

5.1

- ★ All fixings are designed for vertical loads only. Dead loads
- include the roof weight and standard ceiling weight of 0.20kPa. ★ Refer to Table 8.19 NZS 3604:2011 for nailing schedule to resist horizontal loads
- ★ These fixings assume the correct choice of rafter/truss to top plate connections have been made.
- ★ All fixings assume bottom plate thickness of 45mm maximum. Note: TYLOK options on timber species.
- ★ Wall framing arrangements under girder trusses are not covered in this schedule
- ★ All timber selections are as per NZS 3604:2011.

DEFINITIONS



Lintel Supporting Girder Trusses										
	Roof Tributary	L	ight Roc	of	Heavy Roof					
	Area	٧	Vind Zon	е	٧	Vind Zon	ie			
		L, M, H	VH	EH	L, M, H	VH	EH			
	8.6m ²	G	G	Н	G	G	Н			
	11.6m²	G	Н	Н	G	G	Н			
	12.1m²	G	Н	Н	G	Н	Н			
	15.3m²	Н	Н	-	G	Н	Н			
	19.1m²	Н	-	-	G	Н	-			
	20.9m ²	Н	-	-	Н	Н	-			
	21.8m ²	Н	-	-	Н	-	-			
	34.3m ²	-	-	-	Н	-	-			

- 1. Roof Tributary Area = approx. 1/2 x (Total roof area on girder and rafter trusses supported by lintel)

 2. Assumed girder truss is at mid-span or middle third span of lintel
- 3. Use similar fixings for both ends of lintel 4. All other cases require specific engineering design

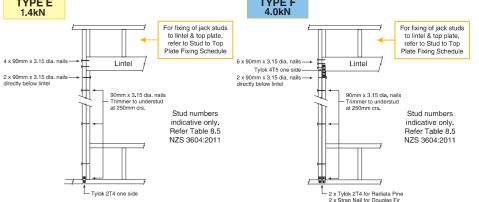
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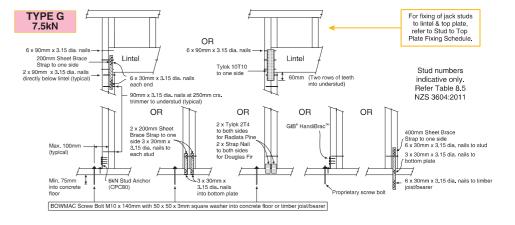
LINTEL FIXING OPTIONS

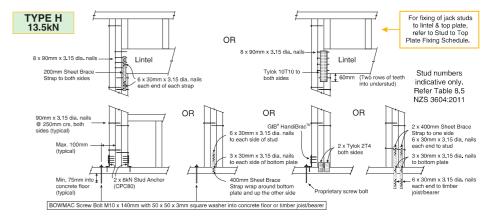
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Print Date

-V1

19/12/2024

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Lot 360 - Arbour green

Lot 360 - Arbour green - Buxus Way, Rolleston ,Selwyn

Drawing Title: **Lintel Fixing Details** Job No: 24063 Client: KAD Build LTD Stage: Detailed Design

Designer: IT Drawn By: PS Technician: PS

Scale @ A3: Rev Date Description -V0 -24/07/24 Client Changes -V1 -16/08/24 Client Changes -V1 - 28/8/24 Developed Design -V1 - 9/2/24 Detailed Design A5.09

Builgir

Approved

Site Wind Zone: High

1 August 2011

(Confirm flashing with Table below)

DEPARTMENT OF BUILDING AND HOUSING

Table 7:	Metal flashings – gene Paragraphs 4.6, 4.6.1.1, 4	eral dimensions	14 4615 4616 4	1617 51 6 <i>4</i> 65 ⁻	711 013	
	9.1.10.2, 9.1.10.4 and 9.4		. 1. 4, 4.0. 1.0, 4.0. 1.0, -	+.O. 1.7, O. 1, O. 4, O. 3,	7.4.4, .3.1.0,	
- - - - - - - - - - - - - -	Description	All (1)	Situation 1 (2) minimum mm	Situation 2 (3) minimum mm	Situation 3 (3a) minimum mm	Figure reference (as example)
gen rai	Transverse flashing over roofing		130 (4)	200 (4)	200 mm	Figure 7 and Figure 44 (X values)
- 20/	Parallel flashing over roofing		Two crests	s , finish in next trou refer 4.6.1.1b)	gh –	Figures 47, 48 (Y values)
Bidees/	Transverse flashing over roofing		Refe	er Aprons: general		Figures 43, 45b, 46
Changes in roof Pitcles	Upper lap under roofing	250 mm min.			Not permitted under E2/AS1	Figure 44
დ	Transverse flashing over roofing		Refe	er Aprons: general		
Bar es	Overlap to barge board		50 (8)	70 (8)	90 mm	Figure 47 (Z values)
CAP ings	Overlaps to cladding		50 (8)	70 (8)	90 mm	Figure 10 (Z values)
- BCZ	Slope to top: parapet and balustrade – metal capping	5° min.				Figures 10, 11, 12, 130
ment .	Slope to balustrade - flush-finished EIFS and fibre cement (5)	10° min.				Figures 117, 129, 130
Roc Or Deck To Vall	Overlaps to roofing		Ref			
e branes	Lap under cladding above	75 mm min.			90 mm	Figures 7, 26, 30, 35, 37, 44, 48, 50
S S	Clearance below cladding	35 mm min.				
0 U	Total upstand	110 mm min.				

Table 7:	Metal flashings - gene							
continued	Paragraphs 4.6, 4.6.1.1, 4 4.6.1.7, 5.1, 6.4, 6.5, 7.4.4							
Membrane roofs and decks	Lap under cladding above	115 min.						Figures 18, 62a, c, 64b
Туре	Description	All (1)	Situation 1 (minimum mm	(2)	Situation 2 minimum mm	(3)	Situation 3 (3a) minimum mm	Figure reference (as example)
Windows	Window flange clearance for di rect fixed claddings and ply or fibre cement on cavities	5 mm						Eg. Figure 81
	Cover to window/ door jamb flange	10 mm (7) min.						Eg. Figur
	Cover to window/ door sill flange	8 mm (7) min.						Eg. Figui
Sills	Sill flashing slope (6)	Flat (6)						Eg. Figure 72a, 81
Heads	Head flashing slope	15° min.						Eg. Figu
	Lap under cladding above	35 mm min.					60 mm	Eg. Figu
	Anti-capillary gap to cladding	5 mm						Eg. Figu
	Total upstand	40 mm min.						
Corners	Corner flashings (1)	50 mm x 50 mm minimum					75 x 75 mm	Eg. Figure 79
Inter- storey junctions	Junction flashing : slope	15° min.						
	Lap over cladding below (1)	35 mm min. (8)					60 mm	Figure 7
	Lap under cladding above	35 mm min.					60 mm	
	Clearance under cladding	5 mm min.						
	Total upstand	40 mm min.						

- NOTES: (1) Unless otherwise dimensioned in details.
 - (2) Situation 1: Low, Medium, Highwind zones , where roof pitch $> 10^{\circ}$ (X or Z values)
 - (3) Situation 2: All roof pitches in Very High wind zones ,
 - Low, Medium and High wind zones where roof pitch < 10°. (X or Z values)
 - (3a) Situation 3: For all roof pitches in Extra High
 - (4) Excluding any soft edge or turn-down to roofing.
 - (5) For buildings other than housing, slope shall be as per F4/AS1.
 - (6) For direct fixed window/doors, unless shown. Sill flashing must extend past the condensation channel. Ensure sill flashings are not installed with backwards slope.
 - (7) Excluding drip edge
 - (8) Excluding drip edge

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Drawn By: PS

Technician: PS

Ilaisa Design Limited

13 Henare Drive, iZone, Rolleston ILAISA Email: admin@ilaisadesign.co.nz





Lot 360 - Arbour green Project Address: Lot 360 - Arbour green - Buxus Way, Rolleston ,Selwyn

Table 7 - E2 NZBC Job No: KAD Build LTD Stage: Detailed Design

Scale @ A3: -V0 -24/07/24 Client Changes 19/12/2024 -V1 -16/08/24 Client Changes -V1 - 28/8/24 Developed Design A5.10 -V1

Site Wind Zone: High

1 August 2011

(Confirm flashing with Table below)

Table 7:	Metal flashings — gene Paragraphs 4.6, 4.6.1.1, 4 9.1.10.2, 9.1.10.4 and 9.4		1.4, 4.6.1.5, 4.6.1.6, 4	4.6.1.7, 5.1, 6.4, 6.5, 7	7.4.4, .9.1.3,	
	Description	All (1)	Situation 1 (2) minimum mm	Situation 2 (3) minimum mm	Situation 3 (3a) minimum mm	Figure reference (as example)
Alprons: General	Transverse flashing over roofing		130 (4)	200 (4)	200 mm	Figure 7 and Figure 44 (X values)
- 20	Parallel flashing over roofing		Two crests	, finish in next troug	gh –	Figures 47, 48 (Y values)
Ridges/	Transverse flashing over roofing		Refe	er Aprons: general		Figures 43, 45b, 46
Changes Cingroof Pottones	Upper lap under roofing	250 mm min.			Not permitted under E2/AS1	Figure 44
P Q	Transverse flashing over roofing		Refe	er Aprons: general		
Bar es	Overlap to barge board		50 (8)	70 (8)	90 mm	Figure 47 (Z values)
Cap lings	Overlaps to cladding		50 (8)	70 (8)	90 mm	Figure 10 (Z values)
BC2	Slope to top: parapet and balustrade – metal capping	5° min.				Figures 10, 11, 12, 130
nent	Slope to balustrade - flush-finished EIFS and fibre cement (5)	10° min.				Figures 117, 129, 130
Food Or Deck To Vall	Overlaps to roofing		Ref			
Se Spender branes Spender	Lap under cladding above	75 mm min.			90 mm	Figures 7, 26, 30, 35, 37, 44, 48, 50
ပ ပ	Clearance below cladding	35 mm min.				
d in d	Total upstand	110 mm min.				

DEPARTMENT OF BUILDING AND HOUSING

Table 7: continued	Metal flashings — gene Paragraphs 4.6, 4.6.1.1, 4 4.6.1.7, 5.1, 6.4, 6.5, 7.4.4	.6.1.2, 4.6.1.3, 4.6.						
Membrane roofs and decks	Lap under cladding above	115 min.						Figures 18, 62a, c, 64b
Туре	Description	All (1)	Situation 1 minimum mm	(2)	Situation 2 minimum mm	(3)	Situation 3 (3a) minimum mm	Figure reference (as example)
Windows	Window flange clearance for di rect fixed claddings and ply or fibre cement on cavities	5 mm						Eg. Figure 81
	Cover to window/ door jamb flange	10 mm (7) min.						Eg. Figur
	Cover to window/ door sill flange	8 mm (7) min.						Eg. Figui
Sills	Sill flashing slope (6)	Flat (6)						Eg. Figure 72a, 8
Heads	Head flashing slope	15° min.						Eg. Figu
	Lap under cladding above	35 mm min.					60 mm	Eg. Figu
	Anti-capillary gap to cladding	5 mm						Eg. Figu
	Total upstand	40 mm min.						
Corners	Corner flashings (1)	50 mm x 50 mm minimum					75 x 75 mm	Eg. Figure 79
Inter- storey junctions	Junction flashing : slope	15° min.						
	Lap over cladding below (1)	35 mm min. (8)					60 mm	Figure 7
	Lap under cladding above	35 mm min.					60 mm	
	Clearance under cladding	5 mm min.						
	Total upstand	40 mm min.						

NOTES: (1) Unless otherwise dimensioned in details.

(2) Situation 1: Low, Medium, Highwind zones , where roof pitch $> 10^{\circ}$ (X or Z values)

(3) Situation 2: All roof pitches in Very High wind zones ,

Low, Medium and High wind zones where roof pitch < 10°. (X or Z values)

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(4) Excluding any soft edge or turn-down to roofing.

(5) For buildings other than housing, slope shall be as per F4/AS1.

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(7) Excluding drip edge

(8) Excluding drip edge

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Designer: IT

Drawn By: PS

Technician: PS



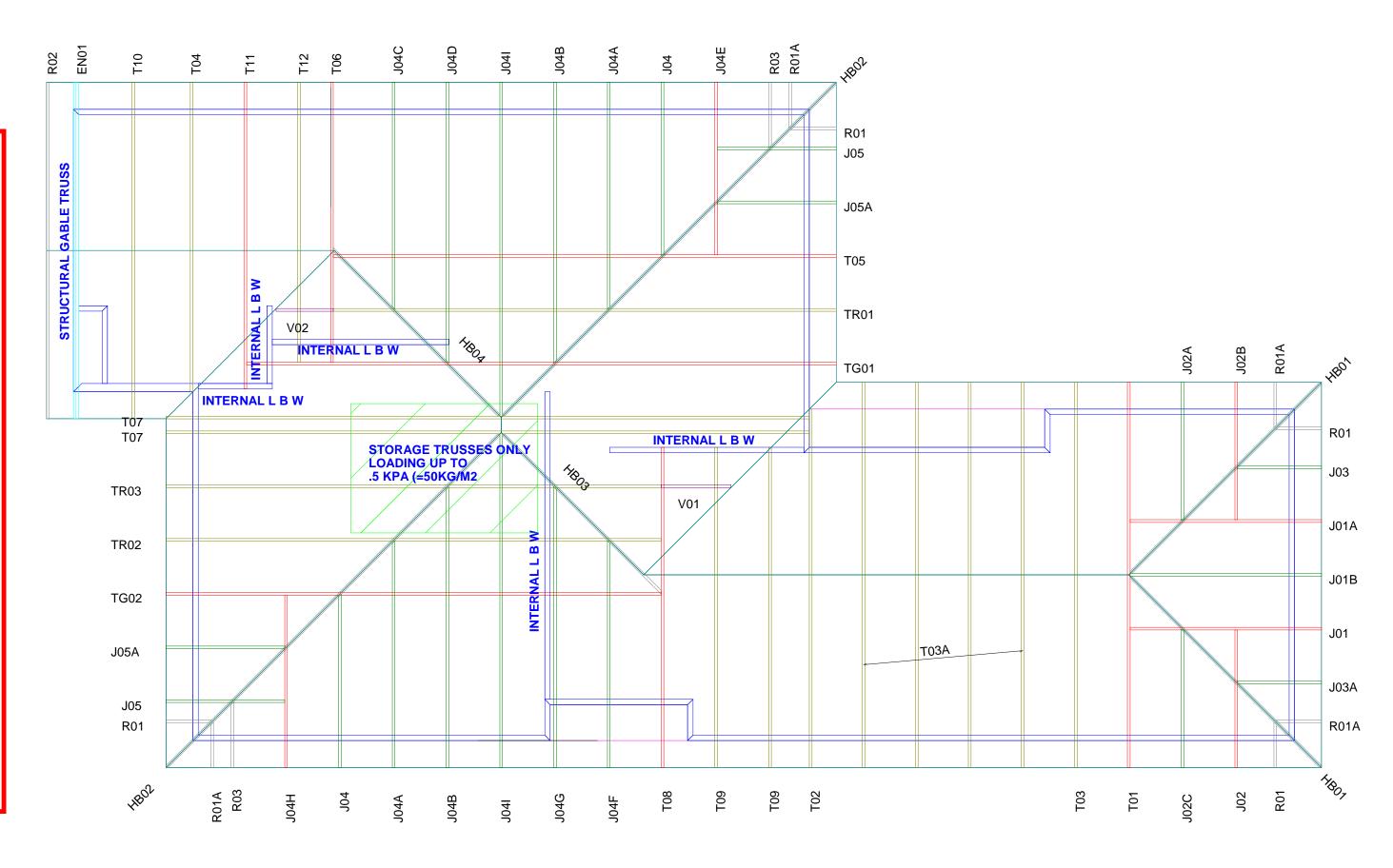
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KAD

Lot 360 - Arbour green Project Address: Lot 360 - Arbour green - Buxus Way, Rolleston ,Selwyn Drawing Title: Table 7 - E2 NZBC Job No: KAD Build LTD Stage: Detailed Design

Scale @ A3: Print Date -V0 -24/07/24 Client Changes 21/11/2024 -V1 -16/08/24 Client Changes -V1 - 28/8/24 Developed Design A5.10 -V1





Proposed Truss Design Lot 360 Arbour Green Buxus Way, Rolleston

For Building Consent

Truss Design Layout 17 Sep,2024 Drawn : Hamish Nicol
NTS System : MiTck 20/20

System : MiTek 20/20

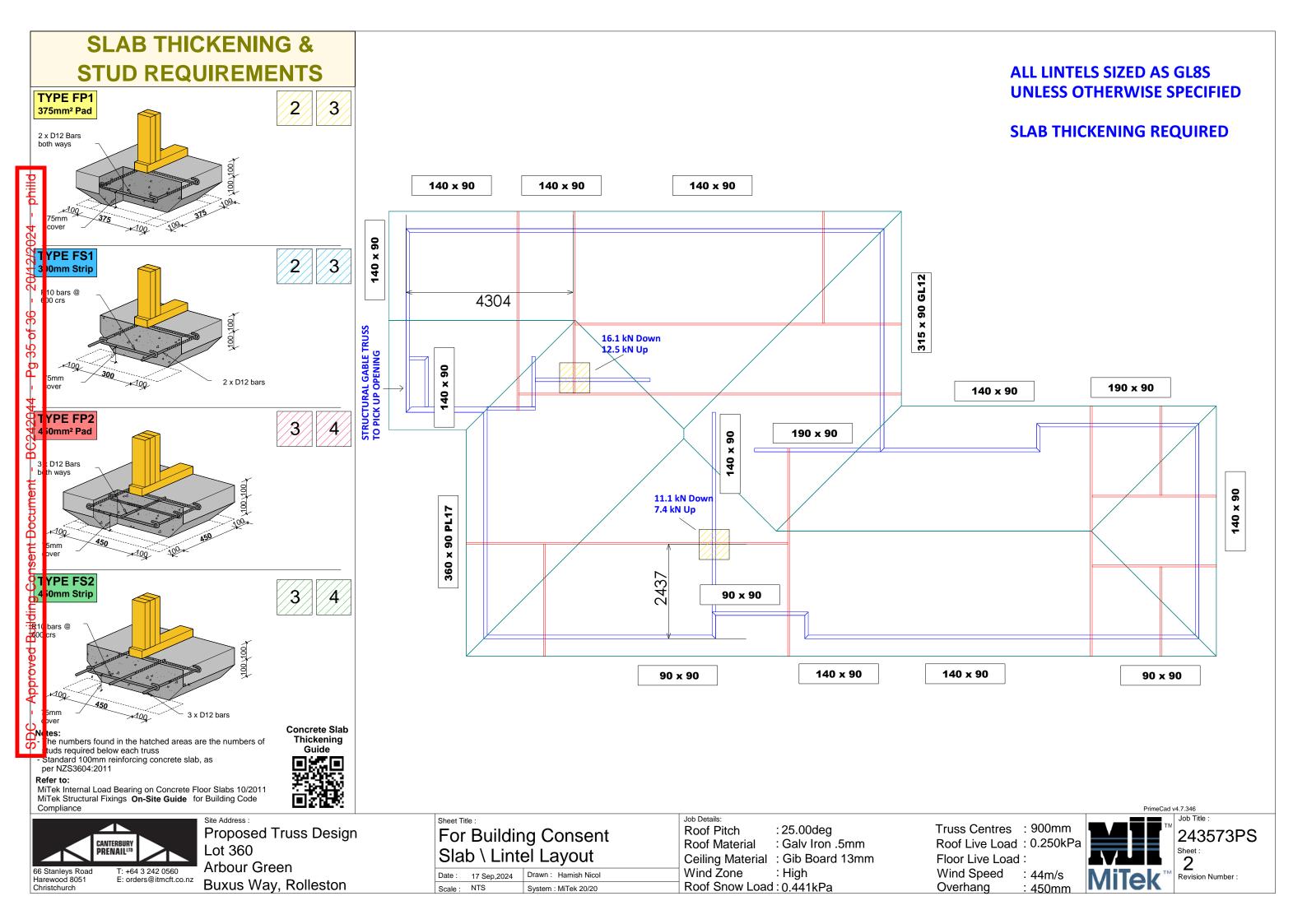
Job Details: : 25.00deg Roof Pitch : Galv Iron .5mm Roof Material Ceiling Material : Gib Board 13mm

Wind Zone : High Roof Snow Load: 0.441kPa Truss Centres : 900mm Roof Live Load: 0.250kPa

Floor Live Load:

Wind Speed : 44m/s Overhang : 450mm : 450mm





TRUSS FIXINGS

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

LUMBERLOK JH47x90 Joist Hanger LUMBERLOK JH47x120 Joist Hanger LUMBERLOK JH47x190 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

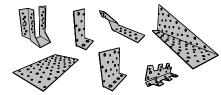
Pair of LUMBERLOK Multi Grips - LUMBERLOK Nailon Plate

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

16kN & 9kN Truss to Top Plate Fixing





Joist Hanger

Installation

CT200 Truss to Top Plate Fixing

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

LUMBERLOK Timber Connectors Characteristic Loadings Data Brochure 08/2014



Harewood 8051 Christchurch

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

Proposed Truss Design Lot 360 Arbour Green Buxus Way, Rolleston

For Building Consent

: 25.00deg Roof Pitch Roof Material : Galv Iron .5mm Ceiling Material: Gib Board 13mm

Wind Zone : High Roof Snow Load: 0.441kPa

Job Details:

Truss Centres : 900mm Roof Live Load: 0.250kPa

Floor Live Load: Wind Speed : 44m/s Overhang : 450mm PrimeCad v4.7.346 Job Title : 243573PS 3 Revision Number

J02

R01

ROIA

R01

J03

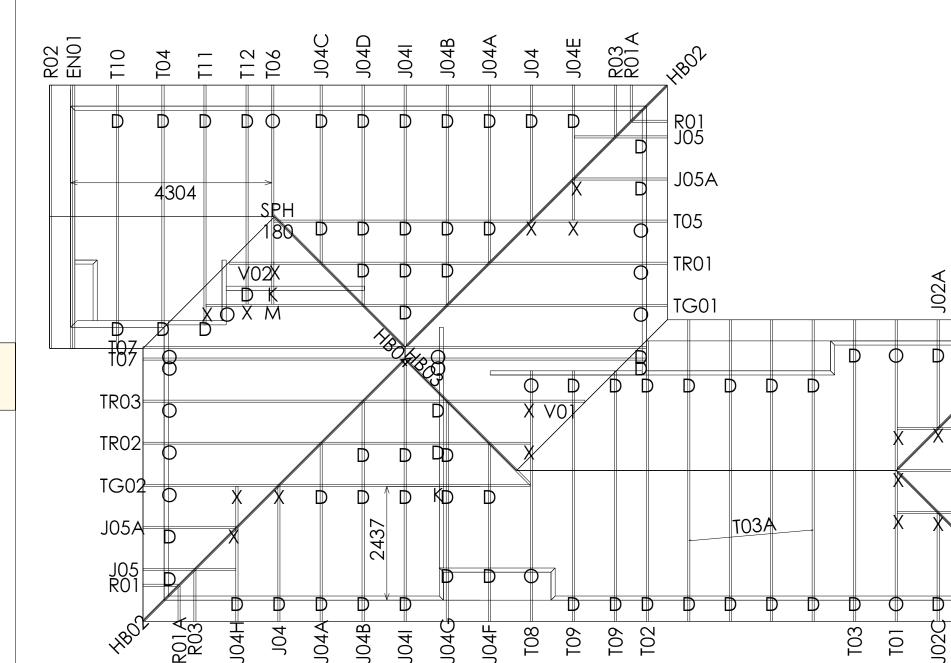
J01A

J01B

J01

J03A

R01A



Truss Fixing Layout

17 Sep,2024 Drawn: Hamish Nicol Scale: NTS System : MiTek 20/20