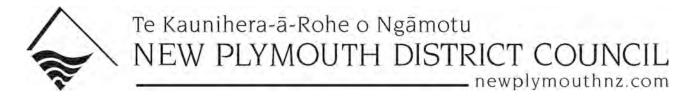


## Council Records

These records were obtained in August 2022. NPDC is currently undergoing a review of the property search report content. As such the documentation provided by the NPDC may not be a complete full record. We suggest you get your own professional advice on the provided content and in fact any NPDC files for this property.



### **Code Compliance Certificate**

Form 7, Section 95, Building Act 2004

The Building

Street Address of building: 20 Keene Drive BELL BLOCK, NEW PLYMOUTH 4312

Legal Description of land where building is located: Lot 46 DP 471582

Current, lawfully established use: Dwelling

Year first constructed: 2015

The Owner

Name of owner: Bradley Craig DENT Phone number: 027 255 1007

Natalie Joy BRIEN Facsimile number: -

Contact Person: A1 HOMES TARANAKI Email address: brd.servicesltd@gmail.com

Mailing Address: Bradley Craig DENT

20 Keene Drive BELL BLOCK 4312

**Building Work** 

Building Consent number: BC15/118185

Description of work: single level dwelling with four bedrooms and

attached double garage

Issued by: New Plymouth District Council

**Code Compliance** 

Anne Jost

The building consent authority named below is satisfied, on reasonable grounds, that – (a) the building work complies with the building consent.

This is a final code compliance certificate issued in respect of all of the building work under the above building consent.

**CODE COMPLIANCE CERTIFICATE** 

**Building Administration Officer** 

On behalf of: New Plymouth District Council Building Consent Authority

Date Issued: 26 September 2016

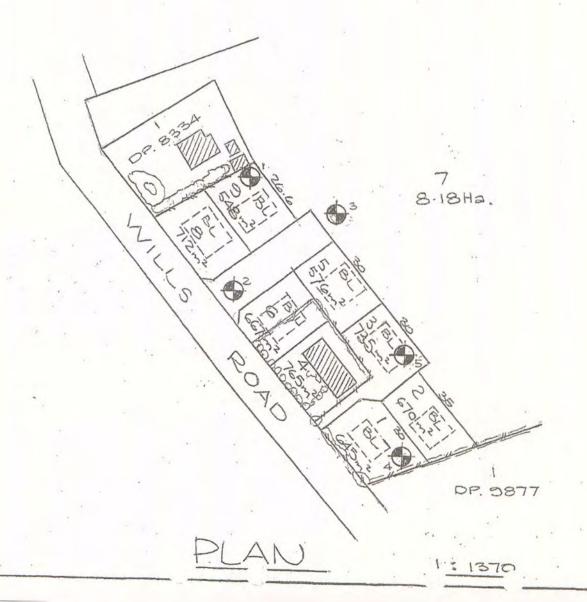


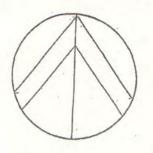
# PLANS BC15/118185

SUBSOIL TEST LOCATIONS

IBL POSSIBLE BUILDING PLATFORM LOCATIONS.

EXISTING HOUSE





		-	-
No	Revisions		Appd

Designed		BAC	Print Date
Drawn		BAC	23
Checked		CAL:	5
Approved		- Comme	08
Flia	812		-
Scales	in	1370	

### ORIGINAL DRAWING SIZE - A3

Client JUFFERMANS SURVEYORS LTD PO Box 193 NEW PLYMOUTH

NAKI DEVELOPMENTS SUBPIVISION 52 WILLS ROAD BELL BLOCK.

Sheet Title

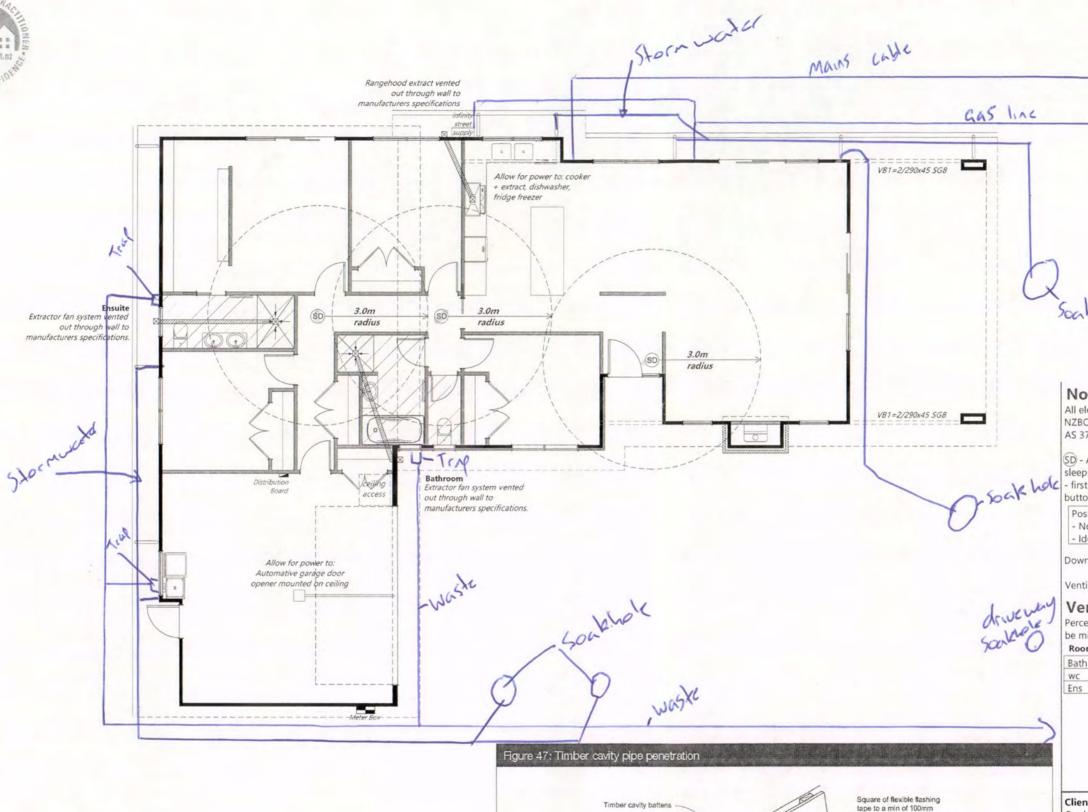
SITE PLAN

Job Number Sheet 812 01

Brian Cleaver 16 Lismore Street New Plymouth Phone 06 758 4470 Mobile 025 421 843







Building underlay / James

Scyon® Linea® Weatherboard over flashing tape, carefully cut

to suit pipe and seal with flexible sealant

Hardie rigid air barrier carefully cut to sult pipe

1 3 MAY 2015 **Building Consent** 

NPDC Approved for

### Notes:

outside of pipe, ensure seal with pipe bandage

Pipe to have min 5° fall to

Flexible flashing tape

round pipe.

bandage min 25mm wide all

All electrical work & items to comply with; NZBC F7/AS1, AS/NZS 3000, AS/NZS 3008, AS 3786, AS/NZS 5000.2: 2006

SD - Approved smoke detectors required within 3.0m of any

- first alert or similar. smoke alarms to have both a test & hush button

Position of Smoke detectors:

- Not less than 200mm from a wall

- Idealy in the centre of ceiling where possible (hallways)

Down lights to be CA 80 or CA 135 Rated (max 1 per 5m<sup>2</sup>).

Ventilation system to vent ducts & r/hood to soffit outlet

### **Ventilation of Sanitary rooms**

Percentage of ventilated opening to

be minimum 5% of room floor area Room Floor area Window opening Percentage

Bath	5.74m <sup>2</sup>	$800x600 = 0.48m^2$	8.3%
wc	1.71m <sup>2</sup>	$800x600 = 0.48m^2$	28.1%
Ens	5.21m <sup>2</sup>	$800x800 = 0.64m^2$	12.3%

### NC429 Client Details : Brad Dent & Natalie Brien Address: 20 Keene Drive Bell Block New Design Date: 2/04/2015 Sheet no : Scale: **Electrical Plan** 21 1:100 Call 0800 A1homes 214663 Check: N.Davis Wind: Earthq: Exposure: Snow: High 1 C NO www.A1homes.co.nz

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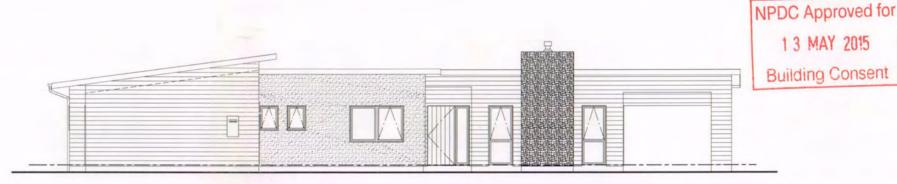
I DESIGN ARCHITECTURE

### **Contents**

- 1 Title Page
- 2 Site Plan
- 3 Drainage Plan
- 4 Bedding and Backfilling
- 5 Foundation Plan
- 6 Slab Thickenings
- 7 Framing Plan
- 8 Floor Plan
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## **Proposed New Home For**

Brad Dent & Natalie Brien 20 Keene Drive Bell Block





You're just a few steps away from home

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### NZBC F5: Construction and Demolition Hazards

### Acceptable Solution F5/AS1

### 1.0 Work-Site Barriers

1.0.1 The necessity for barriers will depend mainly on the site location.

The need will be greater in areas with high levels of pedestrian traffic (i.e. in Central Business Districts), than in industrial or rural areas.

Barriers are not necessary for domestic dwellings up to 2 storeys above ground level unless specific hazards exist.

At all work-sites hazard evaluation will take account of:

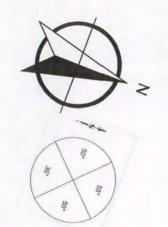
- 1. Pedestrian counts adjacent to the site.
- 2. Car parking adjacent to the site.
- 3. Location of neighbouring buildings.
- 4. Presence of neighbouring work-sites or recreation areas.
- 5. Proximity to schools or early childhood centres.
- 6. Proximity to housing.
- 7. The depth of a water hazard.
- 8. The period of time for which ponded water will be present.
- 9. The accessibility and 'visibility' of the site.

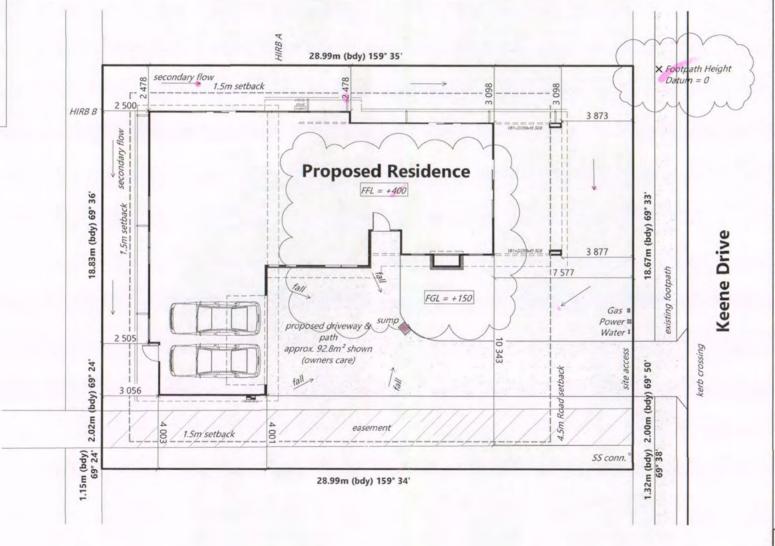
1.0.2 If a work-site is not completely enclosed, and unauthorised entry by children is likely, it is acceptable for specific hazards to be fenced only when workers are absent from the immediate vicinity.

### 1.1 Site fences and hoardings

1.1.1 Fences and hoardings shall extend at least 2.0 m in height from ground level on the side accessible to the public.

1.1.2 An acceptable fence may be constructed with galvanised chainlink netting having a maximum sized grid of 50 mm x 50 mm. Post spacing shall be a maximum of 2.5 m, and the gap between the bottom of the fence and ground no greater than 100 mm.







a) For sites level with or above the road, no less than 150 mm above the road crown on at least one cross-section through the building and roadway

Finished Floor Level (FFL) shall be:

b) For sites below the road, no less than 150 mm above the lowest point on the site boundary



### **Cautionary Notes:**

BUILDING CONTRACTOR TO ASSESS SITE TO ENSURE DAYLIGHTING & BUILDING RESTRICTIONS ARE COMPLIED WITH.

NO LIABILITY FOR ENCROACHMENT SHALL BE HELD BY DESIGNER IF SITE IS NOT SURVEYED BY A REGISTERED SURVEYOR PRIOR TO COMMENCEMENT OF FOUNDATIONS.

### **Construction Notes:**

Before building is erected on site, all rubbish, noxious matter and organic matter shall be removed from the area to be covered by the building. Ensure final building platform & finished ground have an even fall away from building to ensure water not be allowed to accumulate in buildings subfloor. Any fill to be dry & approved by engineer & compacted down in accordance with NZS.3604.2011

### ontractor to

- confirm ground has adequate bearing to comply with NZS 3604: 2011
- locate all service connections points on site prior to commencement of works. Check invert levels or pipes and manholes.
- confirm plumbing route and fixture positions on site prior to commencement of works.
- locate all electrical and water services on site.
- confirm on site all boundary bearings, lengths & peg locations on site prior to commencement of works, to ensure house position is correct.

HIRB = Height in Relation to Boundary

### Sediment Control:

- No building work will be started on this project until the construction of an approved stormwater outfall has been completed for this proposed Lot
- All erosion and sediment control structures are to be inspected and maintained daily
- Prevent any backfill or debris from washing onto council or neighbouring properties
- All ground cover vegetation outside the immediate building area to be preserved during the building phase
- All erosion and sediment control measures are to be installed prior to commencement of earthworks
- Stockpiles of clay and materials are to be covered with impervious sheeting
- Roof water downpipes to be connected to the main stormwater system as soon as roof sheathing & spouting is installed

Lot: 46 NPDC Approved for

www.A1homes.co.nz

DP: 448621 Site Area: 638m<sup>2</sup> 1 3 MAY 2015

Floor Area: 223.8m<sup>2</sup> Building Consent

(incl. cover Entry & Patio area)

Site Coverage: 35.1% (max 40%)

Front Yard: 8.03% (max35%)
Maximum Building Ht: 9m

Territorial Authority: New Plymouth D.C.
Planning Zone: Residential A

Client Details:
Brad Dent & Natalie Brien

Address:
20 Keene Drive
Bell Block

Site Plan

Drawn: DS Check: N.Davis
Wind: Farthg: Exposure: Snow:

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NC429

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Scale: 12/05/2015 Sheet no: 2

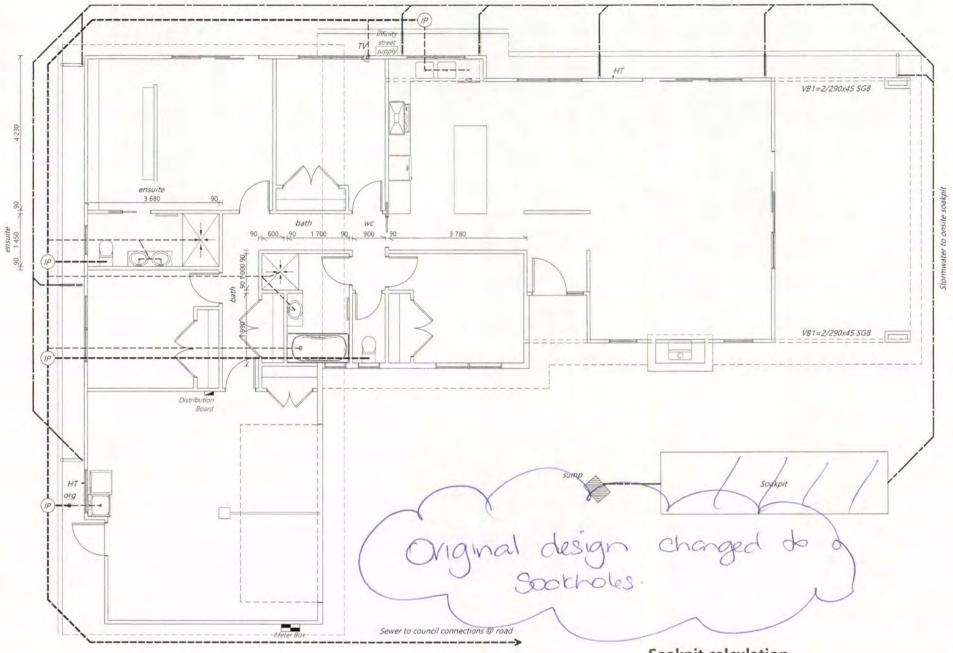
Call 0800 A1homes
2 1 4 6 6 3

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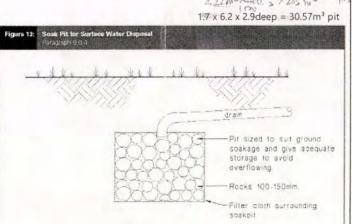




### Soakpit calculation

Roof Area: 276m<sup>2</sup> Sealed driveway Area: 54m<sup>2</sup> Total Stormwater catchment area = 300m<sup>2</sup>

Rc = 10x0.9x 42.6mm (rainfall intensity) x 0.03 (catchment area)  $Rc = 11.5m^3$ 2.882/0.38 (boulder capacity) = 30.26m³ pit required



(a) Rock soak pit

Type-two Surface Water Sump 7 205 - 41. 2 643 4 6 38 11. 3 650 x 460mm hinged or removable mm crossfall grating Removable access cap -Concrete seal to 650 x 460mm SECTION

**AMENDMENT** 050816

### **Construction Notes:**

Plumbing to AS/NZS:3500.2.2 (min 1:60 pipe gradient) by qualified tradesman.

Contractor to locate all service connections on site prior to earthworks confirm all boundary setbacks & restrictions comply with current regulations prior to commencement of foundations.

All waste pipes PVC. Sizes, fall, venting & discharge to be confirmed by NZ qualified plumber. Confirm positions of available services cabling etc on site prior to any excavation

### Water supply:

Internal water pipes to Polybutylene.

All pipework and pipes exposed to freezing to be lagged with closed cell foam

- Closed cell foam polymer insulation or fibre glass insulation which is preformed to the shape of the pipe and not less than 13 mm thick, is acceptable material for preventing pipes less than or equal to 40 mm diameter from freezing. Any insulation material that absorbs moisture shall be protected in a waterproof membrane.

### Fixture unit rating:

= 33 units Water Closet - 6 (x2)

Bath - 4

Shower - 2 (x2)

Basin - 1 (x2) Dishwasher - 3 Laundry tub - 5 Kitchen sink - 3

TABLE 3.5

NPDC Approved for 1 3 MAY 2015 **Building Consent** 

### SIZE AND RATING OF VENTS

Size of vent pipe DN	discha	re units orging to rain	Vent rating
40	>1 >10	≤10 ≤30	0.5
65	>30	≤175	2
80 100	>175 >400	≤400 —	3 6

NB: DN80 minimum vent when connected to septic tank

Symbol	Item	Symbol	Item
(IP)	Inspection point		DN100 PVC SS pipe, DN100 min water closets (ref specs) min 1:60 gradient
	Downpipe		DN100 PVC SW pipe, min 1:120 gradient
HT *	Hose Tap		min PVC fixture waste pipe sizes: DN40 basins, single head showers,
⊜org	Overflow relief gully		baths, sinks, dishwasher & ldy tubs, DN50 multiple heads showers, DN65 unvented branch drains
oTV	Terminal vent		exceeding 2.5m long (max 5 fixture unit rating) DN65 to all wastes discharging directly into drain under slab min 1:40 gradient. 20mm HWC vent drain (copper)

Water supply pipe (from water tank or council mains) = DN20

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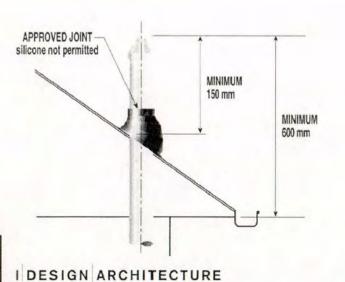
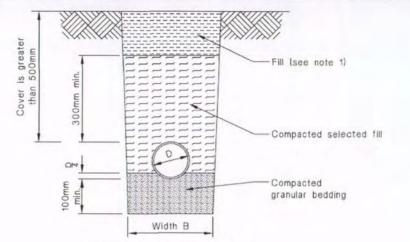


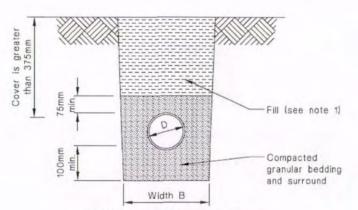


Figure 13: Bedding and Backfilling Paragraphs 3.9.2, 3.9.4 and 3.9.5



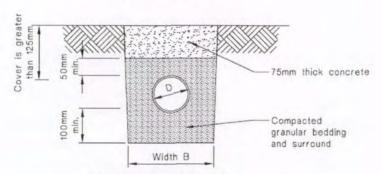
(a) Cover greater than 500 mm

Bedding type 'B' of NZS 4452



(b) Cover greater than 375 mm

Bedding type 'D' of NZS 4452



(c) Cover greater than 125 mm

-Ordinary fill where drains are located below gardens and open country.

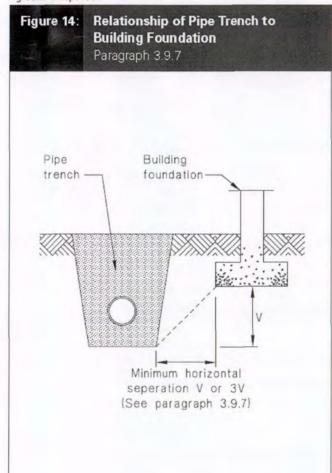
-Compacted selected fill where the drains are located below residential driveways and similar areas subjected to light traffic.

NPDC Approved for 1 3 MAY 2015 **Building Consent** 

### Proximity of trench to building:

3.9.7 Proximity of trench to building

For light timber frame and concrete masonry buildings founded on good ground and constructed in accordance with NZS 3604 or NZS 4229, pipe trenches which are open for no longer than 48 hours shall be located no closer than distance 'V' (see Figure 14) to the underside of any building foundation. Where the trench is to remain open for periods longer than 48 hours, the minimum horizontal separation shall increase to 3V in all ground except rock.





. 3.9 Bedding and backfilling

3.9.1 General
NZBC B1 requires all drains be constructed to withstand the combination and frequency of loads likely to be placed upon them without collapse,

undue damage, undue deflection or undue vibration.

In addition, adequate support needs to be provided to prevent gradients

becoming less than those required as a result of:

a) Differential settlement, or b) Deflection of an unsupported span.

3.9.2 Bedding and backfilling

 
 Figure 13 gives acceptable solutions for the bedding and backfilling of the
 drainage pipes

N except where:

**Z** a) The trench is located within or above peat, or

b) Scouring of the trench is likely due to unstable soils, or

c) The horizontal separation between any building foundation and the underside of the pipe trench is less than that required by Paragraph 3.9.7,

d) The cover H to the pipe is more than 2.5 m.

### 3.9.3 Trench slope

Where the slope of the trench is 1 in 8 or greater, anti-scour blocks shall be provided.

These anti-scour blocks shall be:

a) Constructed from 150 mm thick concrete (17 MPa),

b) Keyed into the sides and floor of the trench by 150 mm,

c) Extended to 300 mm above the drain or to ground level where the drain cover is less than 300 mm, and

d) Spaced at:

i) 7.5m centres for trench slopes between 1 in 8 and 1 in 5, or

ii) 5.0m centres for trench slopes greater than 1 in 5.

### 3.9.4 Trench width

The width B of the trench shall be no less than the pipe diameter D plus 200 mm.

Trench width at the top of the pipe shall be no more than 600 mm unless

in the trench are covered with concrete, as shown in Figure 13 (c).

### 3.9.5 Acceptable materials

Acceptable fill materials shown in Figure 13 are:

a) Bedding material of clean granular noncohesive material with a maximum particle size of 20 mm, or

b) Selected compacted fill of any fine-grained soil or granular material which is free from topsoil and rubbish and has a maximum particle size of

c) Ordinary fill which may comprise any fill or excavated material.

### 3.9.6 Placing and compacting

a) Granular bedding and selected fill shall be placed in layers of no greater than 100 mm loose thickness and compacted.

b) Up to 300 mm above the pipe, compaction shall be by tamping by hand using a rod with a pad foot (having an area of 75  $\pm$  25 mm by 75  $\pm$  25 mm) over the entire surface of each layer to produce a compact laver without obvious voids.

c) More than 300 mm above the pipe, compaction shall be by at least four passes of a mechanical tamping foot compactor (whacker type) with a minimum weight of 75 kg.

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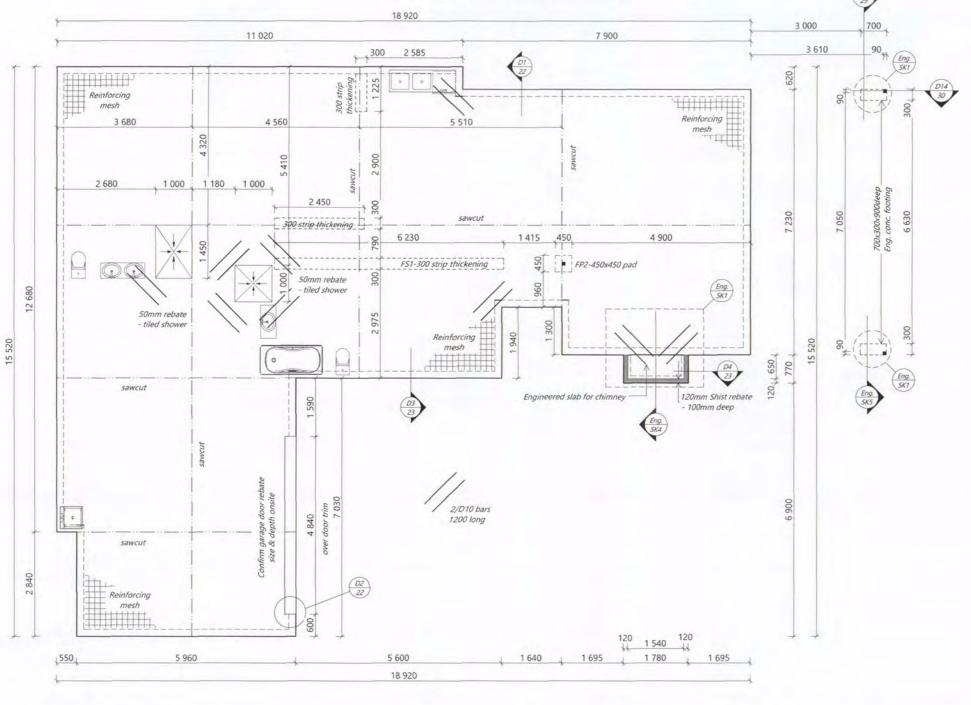


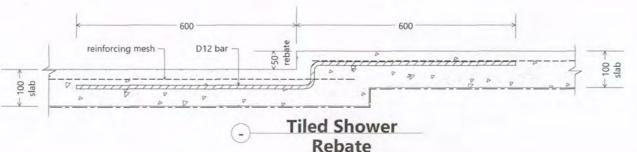
Always cross reference the foundation plan with the floor plan prior to setting out. In the case of ANY discrepancies, call designer for clarification (07) 578 7345

**Engineer Design Chimney & Patio** 

Plans to be read in conjunction with 'West Point Engineers' design and Producer Statement - in case of discrepancies engineer design shall take precedence

<sup>2</sup>DC Approved for 1 3 MAY 2015 Building Consent







### **Cautionary Notes:**

Always cross reference the foundation plan with the floor plan prior to setting out

The contractor shall accurately locate the position of all public drains on site prior to starting work, If any discrepancies are found in these drawings then the contractor must contact A1 Homes before proceeding with any further works.

### **Construction Notes:**

• The site requirements of this NZS 3604: 2011 are concerned with soil conditions under or adjacent to the building.

If a site does not comply with the definition of good ground, the foundations shall be the subject of specific engineering design (SED) and investigation as appropriate.

 All foundations shall bear upon solid bottom in undisturbed good ground material or upon firm fill for which a certificate of suitability has been issued under NZS 4431

Where good ground is at a depth greater than 0.6 m, the excavation between the good ground and the foundation base may be filled with mass concrete having a minimum strength of 10 MPa at 28 days.

• Granular fill material complying with 7.5.3.2 shall be placed and compacted in layers of 150 mm maximum thickness, over the area beneath the proposed ground slab, so that the total thickness of granular base is not less than 75 mm nor more than 600 mm.

Compact each layer until the material is tightly bound together and does not visibly deform under the weight of a pressed adult heel. SED is required if filling is in excess of 600 mm.

### 7.5.3.2

Granular fill material shall be composed of rounded gravel, crushed rock, scoria or approved material.

(a) Not more than 5 % shall pass through a 2.2 mm sieve with the exception of the conditions in 7.5.3.3;

(b) 100 % shall pass either:

(i) A 19 mm sieve for any fill thickness; or

(ii) A 37.5 mm sieve for a fill thickness exceeding 100 mm.

Where it can be demonstrated that site conditions ensure that capillary water is unlikely to reach the underside of the slab, then the requirements of 7.5.3.2(a) can be waived.

 Min. 5mm - 25mm max. sand blinding to cover hardfill to ensure the vapour barrier is protected from any granular protrusions. Conc. floor to comply with NZS.3109, surface tolerances, & NZS.3114, maximum deviations of 3mm

Shrinkage control joints - 3mm wide x 25mm deep saw cuts to form bays NZS3604:2011 - Section 7: floors 7.5.8.6.4

The bay dimensions formed by either construction or shrinkage control joints shall be limited to a maximum length:width ratio of 2:1. Maximum bay dimensions in exposed concrete, vinyl or tiled areas to be 6m x 6m.

Steel reinforcing within concrete floors and walls of rooms that contain a bath or shower must be bonded to the earth system as per AS/NZS 3000:2007 Electrical Installations. See clause 5.6.2.5

Confirm layout & fittings of kitchen & bathrooms etc before foundation commences

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### Slab Thickening & Stud Requirement Table

### CONSTRUCTION SPECIFICATIONS

Max. truss crs. @ 1200mm, Min. truss crs. @ 600mm. Assume walls are fully lined on at least one face. Assume full bearing on top plate (i.e. no eccentric loading).

TRUSS BEARING REACTION	SLAB THICKE	STUD REQUIREMENTS UNIFORM DIST. LOADS OR CONCENTRATED LOADS					
HEACTION	CONCENTRATED LOAD	UNIFORM DIST. LOAD	STUD HEIGHT	STUD REC	EQUIREMENTS		
Bearing reaction up	STANDARD	STANDARD	2400		S 3604:2011		
to & including	reinforced slab floor	reinforced slab floor	2700	Refer to NZ			
10 kN	as per NZS 3604:2011	as per NZS 3604:2011	3000				
			STUD HEIGHT	NO. OF STUD UNDER TRUSS	MIN. TIMBER SIZE		
Bearing reaction up	TYPE FP1	TYPE FS1	2400	2	90 x 35		
to & including		300 STRIP THICKENING	2700	2	90 x 45		
20 kN	375 x 375 PAD		3000	3	90 x 45		
			STUD HEIGHT	NO. OF STUD UNDER TRUSS	MIN. TIMBER SIZE		
Bearing reaction up	TYPE FP2	TYPE FS2	2400	3	90 x 45		
to & including		A SOLD SECTION OF THE	2700	3	90 x 45		
30 kN	450 x 450 PAD	450 STRIP THICKENING	3000	4	90 x 45		

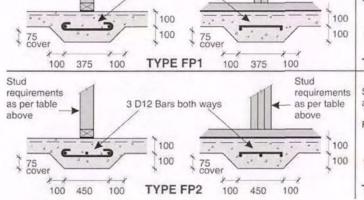
### **TIMBER SPECIFICATIONS**

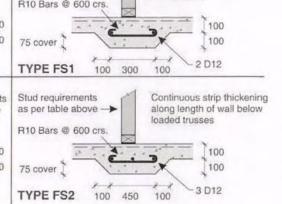
Timber properties based on NZS 3603:1993 Amendment No.4 March 2005. Minimum grade specified is SG8 unless otherwise noted. For SG6 use the studs for the next highest category.

- i.e. For loads up to 10 kN select studs from the 20 kN table.
- For loads up to 20 kN select studs from the 30 kN table.
   For loads above 20 kN Special Design is required.
- \* Note: The stud requirement for 20 kN & 30 kN bearing reactions can be applied to external walls as well.

### Slab Thickening Details

**CONCRETE PAD CONTINUOUS CONCRETE OPTIONS** THICKENING OPTIONS (for concentrated loads) (for uniformly distributed loads) Stud wall as per Standard 100mm reinforced Stud wall as per Standard 100mm reinforced NZS 3604:2011 slab, as per NZS 3604:2011 NZS 3604:2011 slab, as per NZS 3604:2011 100 100 STANDARD 100mm SLAB STANDARD 100mm SLAB Stud Stud Continuous strip thickening Stud requirements requirements requirements along length of wall below as per table above -> 2 D12 Bars both ways as per table as per table -above above loaded trusses R10 Bars @ 600 crs.





NOTE: FP = Foundation Pad FS = Foundation Strip



NPDC Approved for 1 3 MAY 2015

**Building Consent** 

	Details :	alie Brien				NC429
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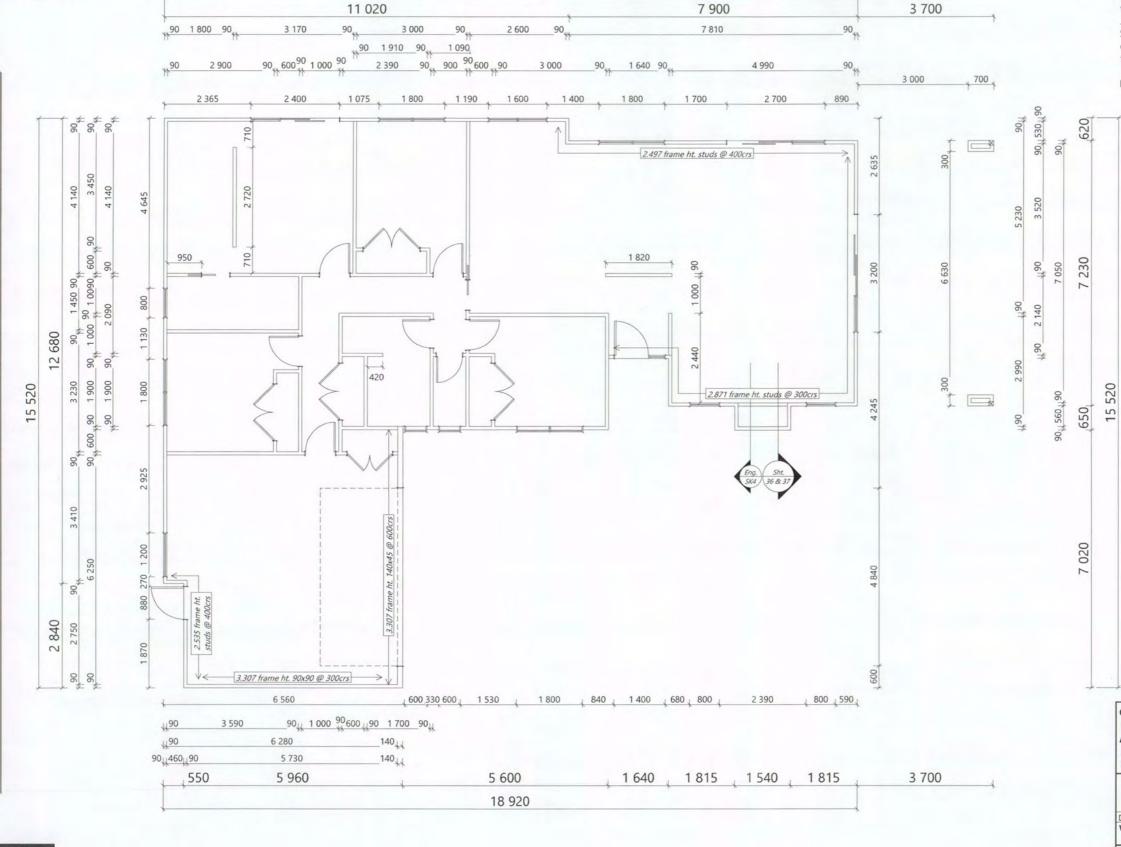
Always cross reference the foundation plan with the floor plan prior to setting out

Joinery sizes shown are box sizes & are preliminary only. Site measure and confirm all joinery sizes, reporting to designer any changes, PRIOR to ordering joinery. No liability shall be held by designer for incorrect supply of joinery.

Refer to all written dimensions, DO NOT scale off drawings.



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Client Details:
Brad Dent & Natalie Brien

Address:
20 Keene Drive
Bell Block

Framing Plan

Drawn:
DS Check: N.Davis
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NZS 5261:2003 Gas Hob Installation

Cut out for hob: min. 60mm from back of bench top.

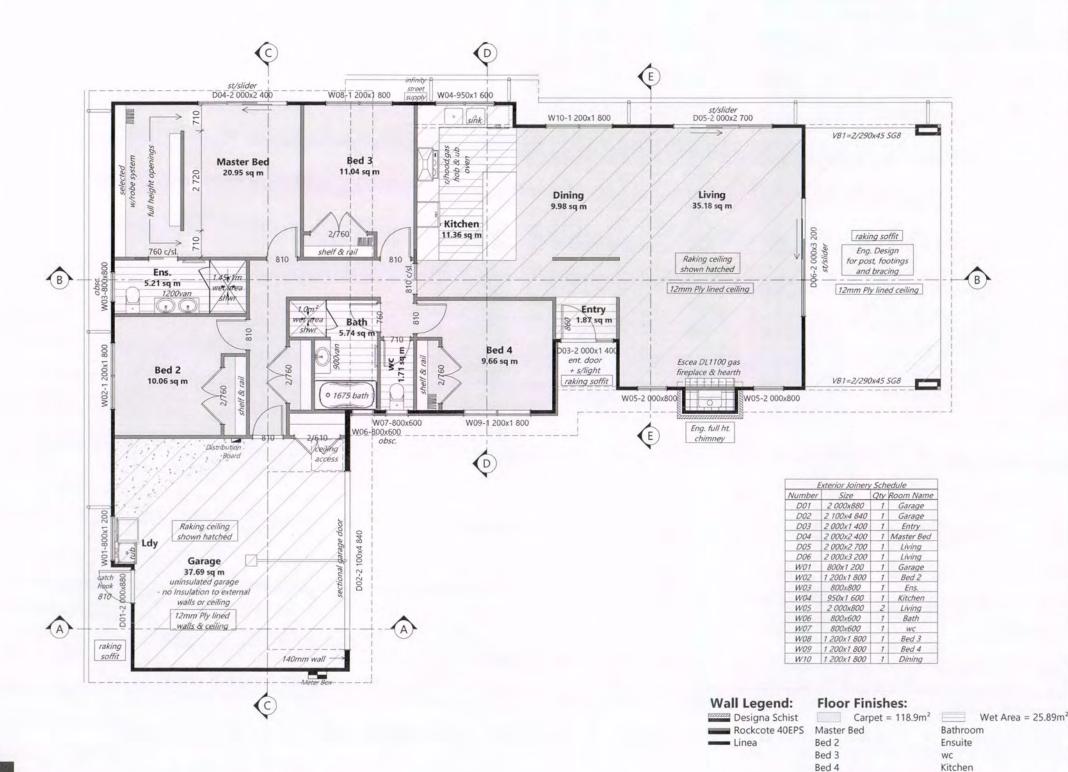
Overhead clearances: not less than 600mm from the highest part of hob to range hood Side clearances: Where dimension from periphery of nearest burner to any vertical combustible surface is less than 200 mm, surface shall be protected to a min, height of 150 mm above hob for full dimension (width or depth) of cooking surface area. Horizontal surface shall be greater than 10 mm below surface of hob

Protection of combustible surfaces: 5mm thick ceramic tiles or graphic glass is suitable to protect 10mm Gib board.

1.1.3 Food preparation surfaces shall be easily maintained in a hygienic condition. Stainless steel, decorative high pressure laminate, and tiles are examples of suitable materials for these

1.6 Wall linings

Wall linings adjacent to appliances and facilities shall have surfaces that can be easily maintained in a hygienic condition. Stainless steel, decorative high pressure laminate, tiles, wallboards with painted or applied impervious coatings or films, are examples of suitable materials for these surfaces.





### **Cautionary Notes:**

Always cross reference the foundation plan with the framing plan prior to setting out

loinery sizes shown are box sizes & are preliminary only. Site measure and confirm all joinery sizes, reporting to designer any changes, PRIOR to ordering joinery. No liability shall be held by designer for incorrect supply of joinery.

Refer to all written dimensions, DO NOT scale off drawings.

### **Construction Notes:**

Gas hotwater & cooking with vented r/hood. Ensure gas appliance installation complies to NZS 5261: 2003. Polybutylene water supply pipes. Hot water supply pipes shall be thermally insulated to comply with H1/AS1

The delivered hot water temperature at any sanitary fixture used for personal hygiene shall not exceed 55°C

Gas via street supply

gas water heater: 300mm from any opening door or window, 75mm from down pipes, 500mmm fuse or electric box, 1000mm from gas botttles, 300mm from wall or corner, 1500mm from ground. (gas fitter to confirm)

Tapered edge joints in ceilings

To reduce the risk of cracks caused by substrate movement, back-blocking of tapered edge joints is required in the following situations.

· When timber battens have been used:

Any area containing 3 or more tapered joints

· When steel battens have been used:

Any area containing 6 or more tapered joints

Please confirm layout & fittings of kitchen & bathrooms etc before foundation commences

### Gas fireplace:

installed to manufacturers specifications

NPDC Approved for 1 3 MAY 2015 **Building Consent** 

### Floor Area:

= 194.23sqm o/frame

= 195.04sgm o/brick NC429 **Client Details:** Brad Dent & Natalie Brien Address: 20 Keene Drive Bell Block **New Design** Date: 2/04/2015 Sheet no Scale: Floor Plan 8 1:100 Call 0800 A1homes 214663 DS Check: N.Davis Earthq: Exposure: Snow: www.A1homes.co.nz C NO

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Concrete = 38.0m<sup>2</sup> Garage described on the drawings, and may not be used for any other purpose or reproduced in whole or in part without written permission obtained from A1 Homes Limited Laundry

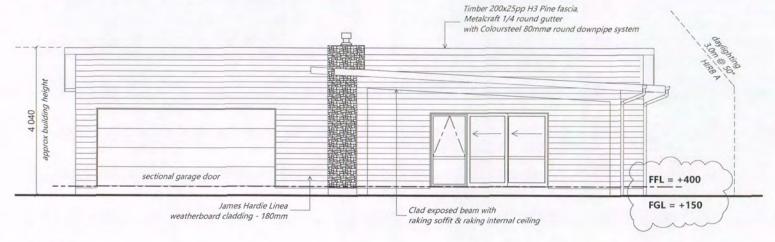
Entry

Living

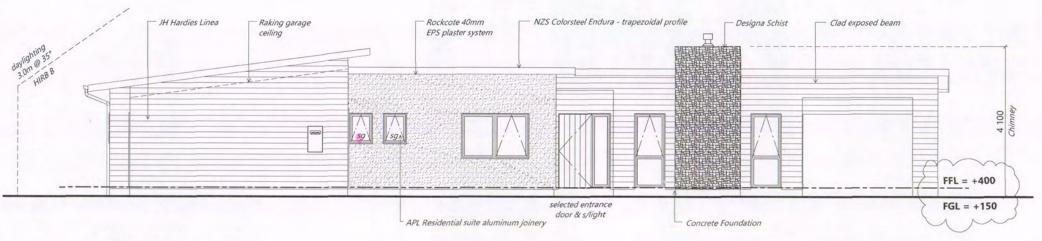
Dining

Hallways, cupd.s & wdrbs





### North



**East** 



I DESIGN ARCHITECTURE



Cautionary Notes:
BUILDING CONTRACTOR TO ASSESS SITE TO ENSURE DAYLIGHTING & BUILDING RESTRICTIONS ARE COMPLIED WITH.

NO LIABILITY FOR ENCROACHMENT SHALL BE HELD BY DESIGNER IF SITE IS NOT SURVEYED BY A REGISTERED SURVEYOR PRIOR TO COMMENCEMENT OF FOUNDATIONS.

### **Construction Notes:**

Glazing in accordance with NZS 4223 & 2008 plus amendments All glazing clear float except for obscure glass to bathrooms & wc Double glazing to all window and door joinery excluding garage sg = Safety glass

Aluminium joinery head heights to be 2.0m (excludes entry box unit). Refer to floor plan for door & window sizes. Joinery schedule & sizes to be confirmed by pre-cut manufacturer & joinery fabricator PRIOR to manufacture by way of communication via e-mail, phone or other.

HIRB = Height in Relation to Boundary

### Safety restrictor stays:

ss = safety stays

- a restrictor fitted to limit the maximum opening so that a 100mm ø sphere cannot pass through

Window restrictors are required to outward opening windows that may protrude into walk paths

- Refer to Site plan for 'walk paths'

NPDC Approved for 1 3 MAY 2015 **Building Consent** 

### **Building Envelope Risk Matrix**

All Elevations					
Risk Factor	<b>Risk Severity</b>	Risk Score			
Wind zone (per NZS 3604)	High risk	1			
Number of storeys	Low risk	0			
Roof/wall intersection design	V. High risk	5			
Eaves width	High risk	2			
Envelope complexity	High risk	3			
Deck design	Low risk	0			

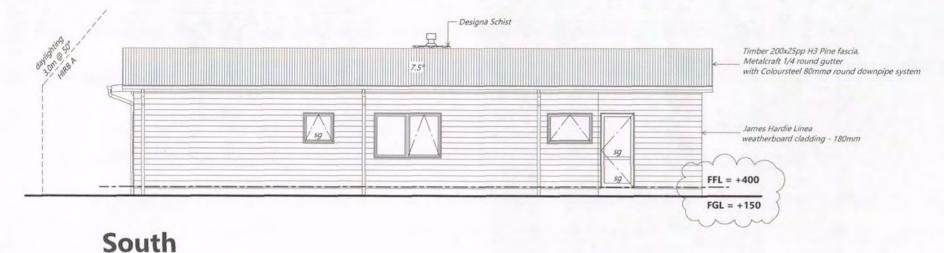
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Brad Dent & Natalie Brien			110.25
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20 Keene Drive			
Bell Block		New	Design
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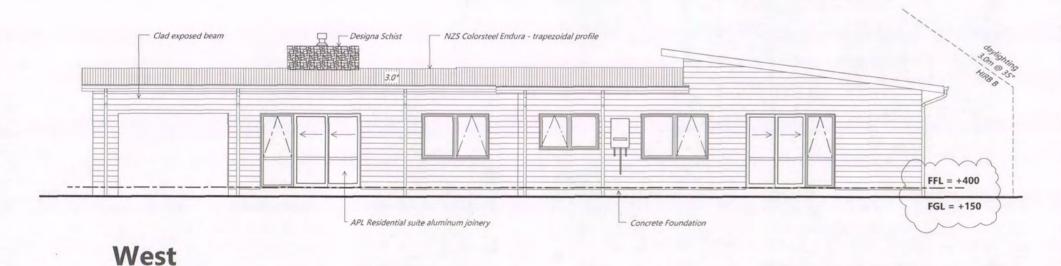
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I DESIGN ARCHITECTURE



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NPDC Approved for 1 3 MAY 2015 **Building Consent** 

### **Building Envelope Risk Matrix**

All Elevations		
Risk Factor	<b>Risk Severity</b>	Risk Score
Wind zone (per NZS 3604)	High risk	1
Number of storeys	Low risk	0
Roof/wall intersection design	V. High risk	5
Eaves width	High risk	2
Envelope complexity	High risk	3
Deck design	Low risk	0

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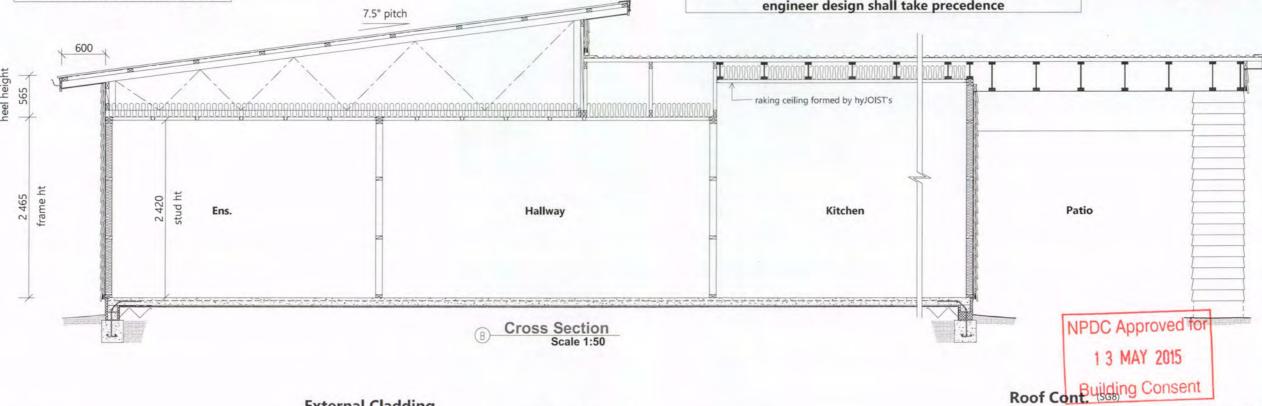
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NOTE TO PRENAIL: Minimum 390mm required between top chords to allow sufficient room to flash and clad **Engineer Design Chimney & Patio** 

Plans to be read in conjunction with 'West Point Engineers' design and Producer Statement - in case of discrepancies engineer design shall take precedence





### Foundations & Slabs

100mm thick conc. slab, SE62 500E reinforcing mesh, min 225mm lap on 0.25 cladding system. polythene.

Min. 5mm - 25mm max. sand blinding to cover hardfill to ensure the vapour barrier is protected from any granular protrusions

Malthoid under all bottom plates, overlapping timber by min. 6mm.

### External Walls (SG8)

90x45 H1.2 frame + 90x45 top plate, 2.4m studs @ 600crs max, nogs @ 800crs, up to 2.7m studs @ 400crs, up to 3.0m studs @ 300crs & up to 3.6m 90x90 @ 300crs. Garage wall 140x45 3.3m studs @ 600crs

James Hardie Scyon Linea Weatherboard:

The following framing must be provided for cavity construction method:

- When studs are at 600mm centres the nogs must be provided at 800mm centres maximum.
- When studs are at 400mm centres the nogs may be provided at 1200mm centres maximum.
- · Double studs are required at internal corners.
- · Extra packers may be required at external corners.
- Extra studs are required for aluminium internal corner sections.

MARSHALL WATERPROOFING Tekton building wrap to all exterior frames, including gable ends.

Standard 10mm gib linings throughout, except wet areas. Fixed to comply with the latest Winstones Gib Manual - level 4 paint finish

### Wall framing behind cavities

Where stud spacings are greater than 400 mm, and flexible wall underlays only are used, an intermediate means of restraining the flexible wall underlay and insulation from bulging into the drained cavity shall be installed. An acceptable method to achieve this is using one of the following:

- · intermediate cavity batten between the studs.
- 75mm galvanised mesh.
- Polypropylene tape or galvanized wire at 300 mm centres fixed horizontally and drawn taut

Bottom plate fixing: Refer to Ramset table

### **External Cladding**

James Hardie 180 LINEA weatherboards installed, flashed and finished to the latest James Hardie specifications and in accordance with NZBC: E2/AS1 External Moisture. Merchant to include all flashings & fixings as required by cladding system.

Cavity battens (ex50x20 H3.1 timber cavity battens fixed to studs):

- · be minimum 18mm thick.
- · be minimum as wide as the width of studs.
- be fixed by the cladding fixings to the main framing through the building underlay.
- until claddings are fixed the battens need only to be tacked to framing.
   (Batten fixing is required temporarily to keep them straight on the wall during construction.)

The cavity battens are installed as described below:

- · Fix cavity battens to studs at maximum 600mm centres.
- Battens should be fixed with 40 x 2.8mm nails at 800mm centres maximum

Rockcote 40mm EPS Plaster system on ex50x25 H3.1 cavity battens, installed, flashed and finished to the latest Manufacturers specifications and in accordance with NZBC: E2/AS1 External Moisture. Merchant to include all flashings & fixings as required by cladding system.

Austral Designa Schist veneer in strict accordance with manufacturers specifications & NZBC: E2/AS1 External Moisture. Weep holes @ max 800crs to top and base course of bricks and as required @ joinery. Ensure weep holes are free of excess mortar. Fit vertical control joints @ 8.0m max crs to any wall over 10m long.

### **External Joinery**

Aluminium joinery installed to comply with NZBC: E2/AS1. Pre-primed jambs, architraves.

Approved window sealing tape to all openings.

Protecto Tape flashing tape over flashing fixings. Do not fix cladding through flashings.

Glazing to comply with NZS:4223. & 2008 amendments.

### Internal Walls (SG8)

90x45 H1.2 frame + 90x45 top plate, studs @ 600crs max, nogs @ 800crs. Standard 10mm gib linings throughout, except wet areas. Fixed to comply with the latest Winstones Gib Manual.

Bottom Plate Fixing: Ramset HD875 drive pin + washer (or equivalent) @ 600crs

### Wet Areas

Floor finish: BATHROOM, ENSUITE, WC, LAUNDRY, KITCHEN, ENTRY Non-slip tiles over waterproofed floor. Minimum slip resistance co-efficient for level surface between 0.25 - 0.50 acceptable in accordance with NZBC: D1/AS1 Access

Tiler to waterproof floor & wall to comply with NZBC: E3/AS1 Internal Moisture. Approved waterproofer (nominated by tiler) applied to manufacturers instructions, non-slip ceramic tiles laid over with even grout lines. Use flexible MS sealant to internal corners, wall & floor – tiler to supply producer statement for waterproofing & tiling (Contractor/Owner to confirm finish)

### Wall & Ceiling finish: BATHROOM, ENSUITE

GIB Aqualine: 10mm to walls and (13mm to) ceilings 1/coat GIB Sealer with 2/coats semi-gloss or gloss, acrylic enamel paint.

### Ceilings

Rondo battens fixed to trusses as per manufacturers specifications @ 600crs. Ensure battens are straight prior to lining. 13mm Gib linings with 32mm x 6g GIB® Grabber™Screws @ 600crs. Glue daubs to be minimum of 200mm from centre screw. Do not screw where you glue. 32mm x 6g GIB® Grabber™ Screws @ 200crs around the perimeter. Gib stopping to level 4 paint finish. 1/850sq ceiling access to roof space. 12mm ply in Garage, Living and Patio

### Insulation

R3.2C pink Batts insulation to all ceilings, except garage.

Maintain a 25mm gap clearance between the insulation and roof underlay

R2.2W pink Batts insulation to all exterior wall cavities excluding garage, however including walls between house & garage. Friction fitted.

### Roof (SG8)

Pre-fabricated GANGNAIL 3 &  $7.5^\circ$  pitch H1.2 trusses @ 900crs - galv wire netting with Thermakraft 215 self supporting underlay laid horizontally with min 150mm lap.

hyJOIST's to raking ceiling areas

Purlin spacings - End Span - 600mm, Intermediate Span - 900ctrs.

Fixing - Type T - 1/10g self-drilling screw, 80mm long purlin/truss connection (2.4KN fixing)

Lumberlok strip brace & tensioners tightened firmly across roof planes.

Longrun colorsteel roofing as per elevations. Roofing fixed with compatible roofing nails or screws and sealing washers, by qualified persons with flashings as required to all junctions - flashings fixed with compatible roofing screws and sealing washers

Fixing pattern = T1 fixing pattern = fix every crest

Note: every sheet of roof cladding to span at least 3 supports)

### 8.4.8 Fixings: (Trapezoidal)

Fixings shall be as shown in Tables 11, 12, 14 and 15, and shall be a minimum 12-gauge screw, as shown in Figure 39, which complies with Class 4 of AS 3566: Part 2.

8.4.8.1 Fixing requirements

Fixings shall:

a) Be fixed through crests,

b) Penetrate purlins by a minimum of 40 mm for nail fixings and 30 mm for screw fixings,

c) Include sealing washers of:

i) neoprene (having a carbon black content of 15% or less by weight),

ii) profiled washer and EPDM washer where required to allow for expansion of the profiled metal roof cladding.

### Soffit

4.5mm Hardiflex soffit lining fixed to underside of truss top chord extentions. Refer to roof plan for eave widths, 25x19pp soffit mould. 200x25pp Fascia with Colorsteel spouting & Downpipe system.

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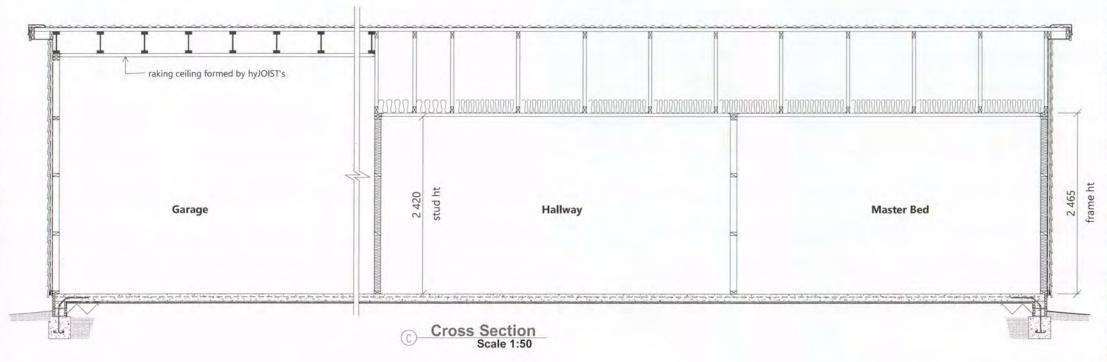
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### **Engineer Design Chimney & Patio**

Plans to be read in conjunction with 'West Point Engineers' design and Producer Statement - in case of discrepancies engineer design shall take precedence



### **Microclimatic Considerations:**

In addition to exposure zones, evidence of local environmental effects (microclimates), and those produced by the erection of a structure or installation of equipment, shall be considered.

Significant acceleration of the corrosion of structural fasteners and fixings beyond what could be expected from the geographical location can occur in the following circumstances:

- (a) Industrial contamination & corrosion atmospheres;
- (b) Contamination from agricultural chemicals or fertilisers; and
- (c) Geothermal hot spots. Hot spots are defined as being within 50m of a bore, mud pool, steam vent,

Microclimatic conditions (a) to (c) require specific engineer design.

### (1) Allowable ranges of moisture content are specified on the basis that 90 % of pieces shall be within the specified range, the remainder shall be within a further 2 % moisture content above or below. The moisture content of individual boards shall be normally distributed within the range allowed. In special circumstances,

(2) Buildings periodically heated by open fires, electric heaters, etc., such as most domestic buildings.

e.g. flooring exposed in rooms with large window area, the upper limits may be reduced.

### **Timber Moisture Content:**

Table 4 - Allowable moisture content (%)(1) at time of installation or in the case of framing timber at time of enclosure

	Use category level of finish	Air-conditioned or centrally heated buildings	Intermittently heated buildings <sup>(2)</sup>	Unheated buildings
1	Timber to which linings are attached to achieve a "level of finish" 4 to 5	8-18	12 – 18	12/18
2	Enclosed framing (including roof trusses) to achieve a "level of finish" 0 to 3	12-18	12 – 24	12-24
3	Load-bearing lintels and beams	8-18	12 - 20	12-20
4/	Weatherboards, exterior joinery and finishing timbers	14-18	14-18	14-18
5	Flooring exposed to ground atmosphere	10-14	12-16	14/18/
8	Interior joinery and finish, furniture, corestock	8-12	10-14	12-16
7	Flooring not exposed to ground atmosphere	8-12	10 – 14	12-16

### 10.0 Construction Moisture 10.1 Moisture in materials

Acceptable Solution E2/AS1

Moisture contained in the building structure at completion of construction shall not be permitted to damage the building elements

- Construction moisture includes the moisture contained in: a) Timber products as a result of a treatment or manufacturing
- b) Green timber, and timber or other materials that have been exposed to the weather, and
- c) Concrete, mortar or plaster that is not completely cured.

10.2 Maximum acceptable moisture contents

The maximum moisture contents shall be:

- a) For timber framing at the time of installing interior linings, the maximum acceptable moisture content shall be the lesser of:
- i) 20% for insulated buildings, 24% for non-insulated buildings, or ii) as specified in NZS 3602,
- b) For timber weatherboards and exterior joinery, 20% at the time
- c) For reconstituted wood products, 18% at all times, and d) For concrete floors, sufficiently dry to give a relative humidity
- reading of less than 75% at the time of laying fixed floor coverings.
- · Where nail popping, joint peaking and ridges formed by stud warping and twisting are undesirable on the finished surfaces within 12 months of installation of wall linings, kiln dried timber shall be used, or alternatively the timber framing shall be dried to less than 18 % moisture content before wall linings are installed.
- · Where timber framing is installed green or kiln dried timber that is wetted and allowed to dry, those members which are likely to deflect under their own weight shall be propped until they dry below a moisture content of 20 %.



### **Exposure Notes:**

Note: Exposure Zone C

(exposure environments as defined by NZS 3604: fig 4.2 & table 4.1)

Fixings & Fastenings (excludes nails and screws):

Nail Plates - In 'closed' & 'roof space' environments = continuously coated

Wire Dogs & Bolts - In 'closed' & 'roof space' environments = hot-dip

All other structural fixings - In 'closed' environments = mild steel (uncoated, non-galvanized)

All other structural fixings (except fabricated brackets (1)) - In sheltered environments = hot-dip galv. steel

In exposed environments = type 304 stainless steel

Nails & screws used for framing & cladding:

Non-structural cladding (15 year durability) = galv. steel Framing in 'closed' areas including roof spaces = mild steel (3) Framing in 'exposed or sheltered' areas = galv. steel (3)

1. - "fabricated brackets" shall be made from 5mm (minimum thickness) mild steel and shall be hot-dip galv.

3. - steel fixings and fastenings in contacts with timber treated with copper-based timber preservatives (H3.2 or higher) shall be minimum of type 304 stainless steel (exposed and Sheltered environments), and hotdip galv. steel (all other locations)

Minimum concrete strength after 28 days shall be: 17.5 MPa OR 20 MPa exposed to weather

(a) comply with the provisions of NZS 4210

(b) Minimum cover to steel reinforcement from an uncoated masonry external face 50mn

(c) Minimum grout strength 20MPa

Fixing Materials: (as per Acceptable Solution E2/AS1) - for definitions refer to E2/AS1

Hidden/Exposed

Aluminium, or Bronze, or type 304 stainless steel

Nails = galv. steel

Screws = galv. steel, Painted or unpainted to AS 3566: Part 2 Sheltered:

Aluminium, or Bronze, or type 304 stainless steel Screws = galv. steel, Painted or unpainted to AS 3566: Part 2

The use of stainless steel fixings is not recommended by steel manufacturers for use with coated steel in severe marine and industrial environments, as they are considered to cause deterioration

> NPDC Approved for 1 3 MAY 2015

> > Scale:

**Building Consent Client Details:** Brad Dent & Natalie Brien

Address: 20 Keene Drive Bell Block

New Design Date: 2/04/2015 Sheet no :

NC429

**Cross Section & Plan** 12 1:50 Notes Call 0800 A1homes 2 1 4 6 6 3 DS Check: N.Davis Earthq: Exposure: Snow: www.A1homes.co.nz

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I DESIGN ARCHITECTURE



### **Engineer Design Chimney & Patio**

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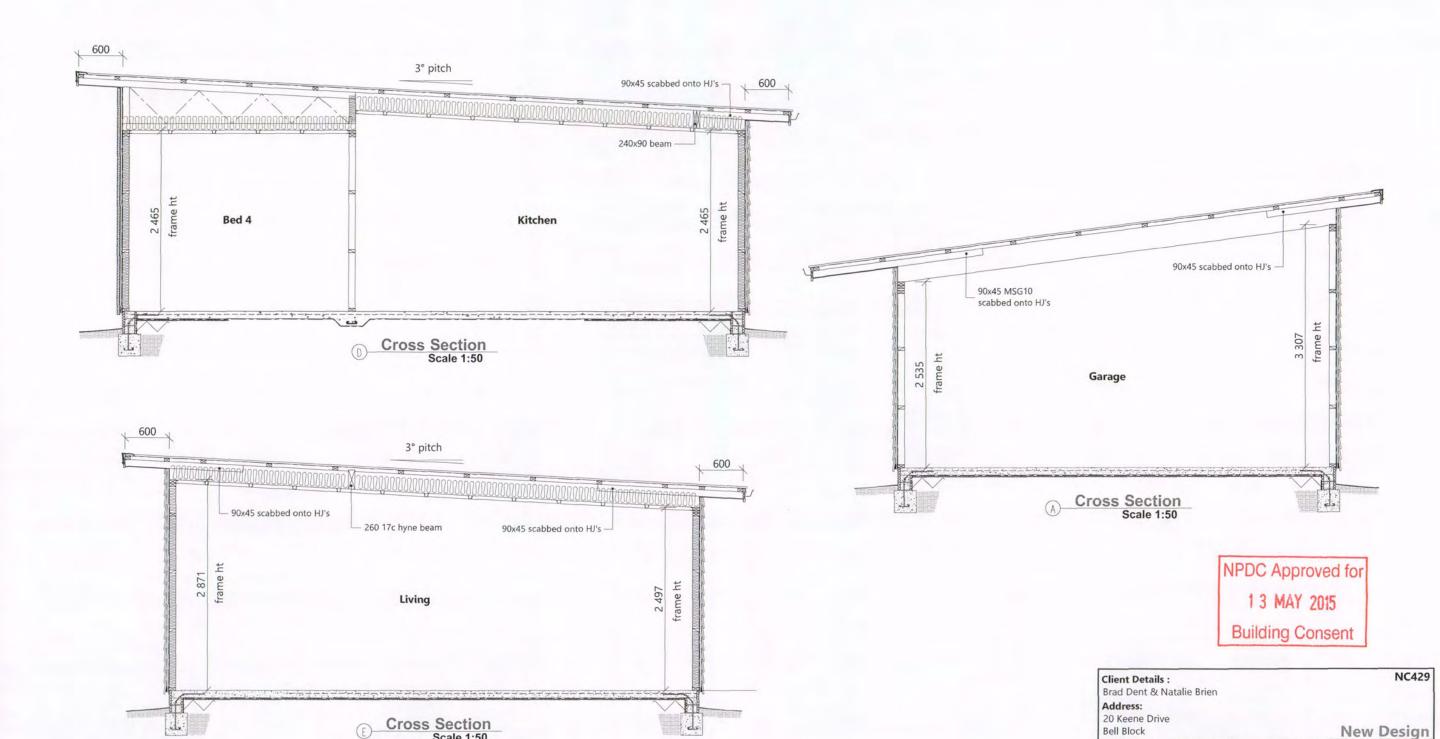
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1:50

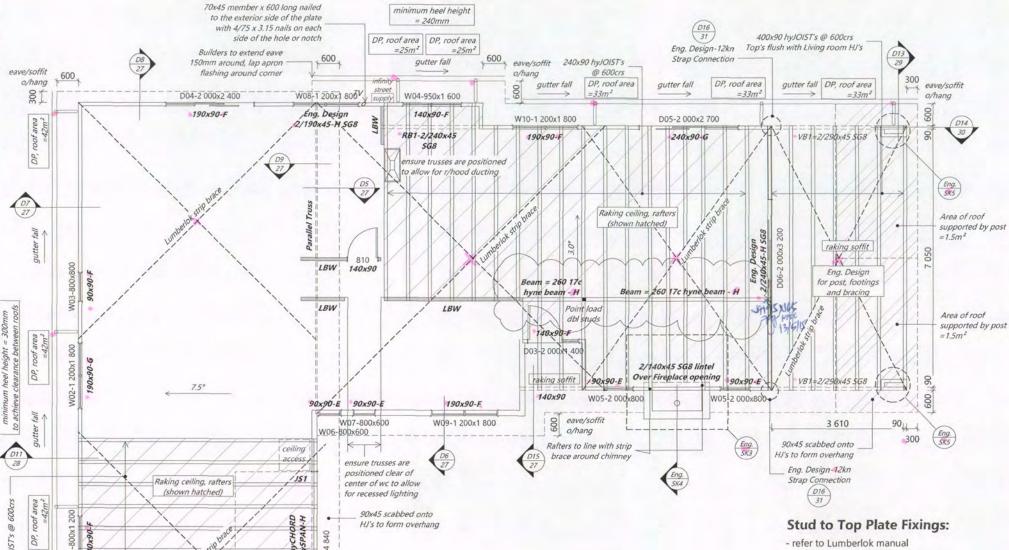
**Cross Sections** 

A,D & E

DS Check: N.Davis
Earthq: Exposure: Snow:







**Engineer Design Chimney & Patio** 

Plans to be read in conjunction with 'West Point Engineers' design and Producer Statement - in case of discrepancies engineer design shall take precedence

> NOTE TO PRENAIL: Minimum 390mm required between top chords to allow sufficient room to flash and clad

Stud to top plate:

Use Mitek type B fixing (excl. gable ends) Gable end - Use Mitek type A fixing

FIXING TYPE A 2 x 90mm x 3.15 dia. plain steel wire nails driven vertically into stud.

2 x 90mm x 3.15 dia. plain steel

**FIXING OPTIONS** 

FIXING TYPE B CHOOSE ANY OF THE 3 OPTIONS BELOW

ded for internal wall options to avoid lining issues

2 x 90mm x 3.15 dia. plain steel

To calculate the number of B type fixings required, divide the wall length

by the stud centres, add 1 to this figure and locate this number of fixings as evenly as possible along the wall length. This figure includes the star and end studs in each wall length.

2 x 90mm x 3,15 dia. plain steel

Table 5:	5: Downpipe Sizes for Given Roof Pitch and Area Paragraph 4.2.1							
Downpipe	e size (mm)		Roof	pitch				
(minimum	internal sizes)	0-25°	25-35°	35-45°	45-55°			
			Plan area of roof serv	ed by the downpipe	(m²)			
63 mm dia	ameter	60	50	40	35			
74 mm dia	ameter	85	70	60	50			
100 mm d	liameter	155	130	110	90			
150 mm d	diameter	350	290	250	200			
65 x 50 re	ectangular	60	50	40	35			
100 x 50 r	rectangular	100	80	70	60			
75 x 75 re	ectangular	110	90	80	65			
	rectangular	150	120	105	65 90			



### **Cautionary Notes:**

This layout is preliminary. Read in conjunction with final PS1 & pre-cut design & documents. Truss manufacturer to inform designer of any further load bearing footing / slab thickenings (piles or bearer lines) that are required to support roof loads. If a discrepancy occurs contact I Design Architecture immediately on 07 578 7345

### **Construction Notes:**

Ensure that all downpipes are positioned clear of Joinery units

refer to Lumberlok manual

### **Lintel Key:**

190x90 - G ← Fixing

### **Trimming Studs:**

JS1 = Jamb studs

refer to CHH Design IT calcs and PS1

Refer to following page for trimming stud requirements All Lintels GREATER than 1.8m span require an additional trimming stud

### Rondo Clip System:

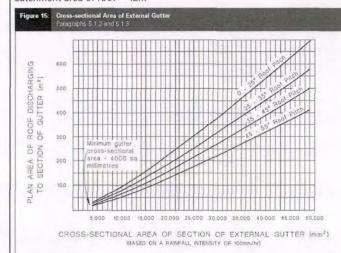
Bottom chord restraints required at 1.800crs

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### **Gutter Calculation**

Spouting: Metalcraft Quarter Round Gutter Cross Sectional Area = 4880mm<sup>2</sup>

Catchment area of roof = 42m<sup>2</sup>

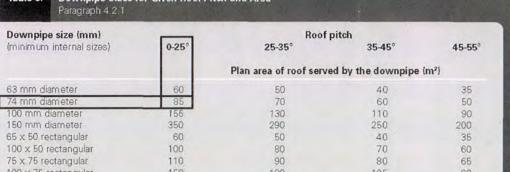


NC429 **Client Details:** Brad Dent & Natalie Brien Address: 20 Keene Drive Bell Block **New Design** 

Date: 12/05/2015 Sheet no Scale: **Roof Plan** 1:100 14 Call 0800 A1homes 214663 Check: N.Davis NO www.A1homes.co.nz

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fall

300

1 150 1

eave/soffit

o/hang

121

J51

18

600 eave/soffit



### NZS 3604:2011 8.5.2 Trimming studs

A trimming stud shall be provided to each side of any opening as follows;

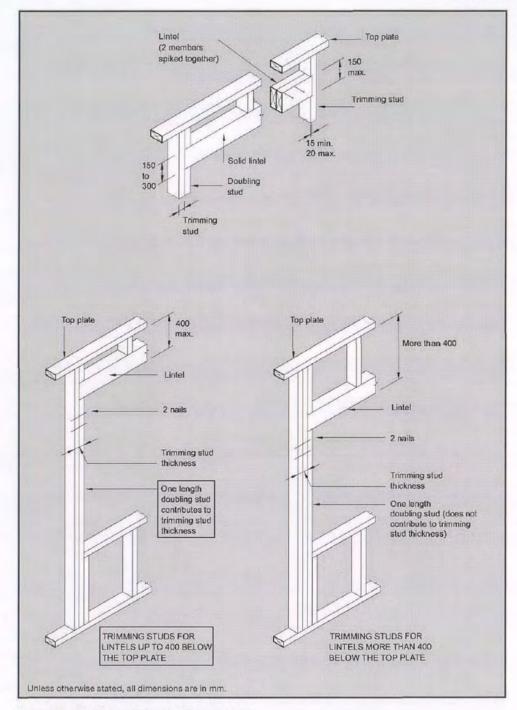
- · must be the same width as the studs in the wall
- whether single or double, shall not contain holes, notches, checks, or cuts in the middle third of their length.
- Where a doubling stud which provides support for a lintel is shorter by 400 mm or more than the full stud height, its thickness shall not be included as contributing to the thickness of trimming studs from table 8.5

Table 8.5 - Trimming studs (see 8.5.2.1)

Maximum clear width of opening (span of lintel)	Stud thickness required for 600 mm spaced studs	Thickness of trimming studs*
(a) Single storey, top storey or non-	loadbearing walls	
(m)	(mm)	(mm)
1.8	35	45
	45	45
	70	90
	90	115
3.0	35	45
	45	70
	70	90
	90	135
3.6	35	70
	45	90
	70	140
	90	180
4.2/	/ 35/ /	105 /
	45	135
	/ / 70 /	210
	90/	270
(b) Any other location		
0.9	35/	45 /
	45	/ 70/
	/ /70 / /	90
	90/	135
1.8	35	70/
	45	/ /10
	/ / 70/	115 /
	96	135
3.0	35	70
	45/	90
	/ 10	140
	90 /	180

<sup>\*</sup> For brick veneer openings add extra stud for fixing veneer ties.





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Figure 8.5 - Trimming studs and lintels (see 8.5.2.1)

	Details : ent & Nat	alie Brien				NC429	
Addres							
Bell Blo	ne Drive ck				New	Design	
_				Scale:	Date: 2/04/2015	Sheet no :	
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r in part without written permission obtained from A1 Homes Limited.

NOTE - To use this table:

<sup>(1)</sup> Enter the row corresponding to the lintel span being considered.

<sup>(2)</sup> From the second column, select the thickness of the studs required for the body of the wall, assuming that they are spaced at 600 mm.

<sup>(3)</sup> Read the trimming stud thickness from the right side column.





10/2011

### LINTEL FIXING OPTIONS



### LINTEL FIXING SCHEDULE **ALTERNATIVE TO TABLE 8.14 & FIGURE 8.12** NZS 3604:2011

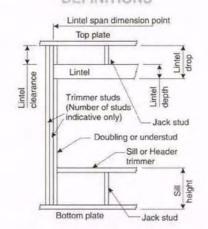
### NOTE:

- All fixings are designed for vertical loads only. Dead loads include the roof weight and standard ceiling weight of 0.20 kPa
- 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.

### SELECTION CHART FOR LINTEL FIXING

Lintel	Loaded Dimension	_		ght F					evy F		
Spair	(See Fig. 1.3 NZS 3604:2011)	-		ind Z	-	-			nd Zo	200	
	NZS 3604 2011)	L	M	Н	VH	EH	L	M	H	VH	EH
0.7	2.0	E	E	E	E	E	E	E	E	E	E
	3.0	E	E	E	F	F	E	E	E	E	F
	4.0	E	E	F	F	F	E	E	E	F	F
	5.0	E	F	F	F	G	E	E	F	F	F
0.9	6.0 2.0	E	E	E	G	G	E	E	E	E	G
0.9	3.0	E	E	E	F	F	E	E	E	E	F
	4.0	E	E	F	F	F	E	E	E	£	F
	5.0	E	F	F	F	G	E	E	F	F	F
	6.0	E	F	F	G	G	E	E	F	F	G
1.0	2.0	E	E	E	F	F	E	E	E	E	F
	3.0	E	E	F	F	F	E	E	E	F	F
	4.0	E	F	F	F	G	E	E	F	F.	F
	5.0	E	F	F	G	G	E	E	F	F	G
776	6.0	E	F	F	G	G	E	E	F	F	G
1.2	2.0	E	E	F	F	F	E	E	E	F	F
	3.0	E	E	F	F	F	E	E	FF	4	F
	5.0	E	F	F	G	G	E	E	F	F	G
	6.0	E	F	G	G	H	E	E	F	G	G
1.5	2.0	E	E	F	F	F	E	E	E	F	E
110	3.0	E	F	F	F	G	E	E	E	P	F
	4.0	E	F	F	G	G	E	E	F	F	G
	5.0	F	F	G	G	Н	E	E	F	G	G
	6.0	F	F	G	H	H	E	E	F	G	Н
2.0	2.0	E	F	F	F	G	E	E	F	F	F
	3.0	E	F	F	G	G	E	E	F	F	G
	4.0	F	E	G	G	Н	E	E	F	G	G
	5.0	F	F	G	Н	H	E	E	F	G	H
2.4	6.0	F	G	G	H	H	E	F	G	H	H
2.4	3.0	E	F	G	G	Н	E	E	F	G	G
	4.0	F	F	G	Н	Н	E	E	F	G	Н
	5.0	F	G	G	н	н	E	IE	G	Н	н
	6.0	F	G	Н	H	-	E	F	G	н	н
3.0	2.0	E	F	F	G	G	E	E	F	F	G
	3.0	F	F	G	Н	Н	E	E	F	G	H
	4.0	F	G	G	H	H	E	F	G	H	H
	5.0	F	G	H	H	*	E	F	G	H	H
	6.0	F	G	Н		-	E	F	G	Н	
3.6	2.0	F	F	G	G	Н	E	E	F	G	G
	3.0	FF	F	G	H	н	E	F	G	G	H
	5.0	F	G	H	H		E	F	G	H	Н
	6.0	G	H	Н			E	F	Н	-	
4.2	2.0	F	F	G	G	н	E	E	E	G	G
4,4	3.0	F	G	H	Н		E	E	G	Н	Н
	4.0	F	G	н	-		E	F	G	Н	
	5.0	G	Н	H			E	F	H		
	6.0	G	H	*			E	F	H	-	
4.5	2.0	F	F	G	H	H	E	E	F	G	H
	3.0	F	G	H	H		E	F	G	H	H
	3.4	F	G	H	Н	-	E	F	G	H	
	4.0	F	G	H	-	-	E	F	G	H	*
	5.0	G	H	-	-		E	F	H		-
-	6.0	G	Н	7	*	*	E	F	Н		
4.8	2.0	F	F	G	H	Н	E	E	F	G	H
	3.0	F	G	H	H	1	E	F	G	H	Н
	3.2	F	G	H	H	-	E	F	G	H	
	5.0	G	GH	Н			E	F	H	п	
	6.0	G	Н				E	F	H		

### DEFINITIONS



### **Lintel Supporting Girder Trusses:**

Roof	Ligh	nt Roc	of	Heavy Roof		
Tributary	Win	d Zon	Wind Zone			
Area	L, M, H	VH	EH	L.M.H	VH	EH
8.6 m²	G	G	Н	G	G	H
11.6 m <sup>2</sup>	G	н	H	G	G	н
12.1 m²	G	H	H	G	Н	H
15.3 m <sup>2</sup>	H	H		G	H	н
19.1 m²	Н	-	-	G	H	-
20.9 m <sup>2</sup>	Н	-	-	Н	H	-
21.8 m <sup>2</sup>	Н	-		Н	-	
34.3 m <sup>2</sup>				Н	-	

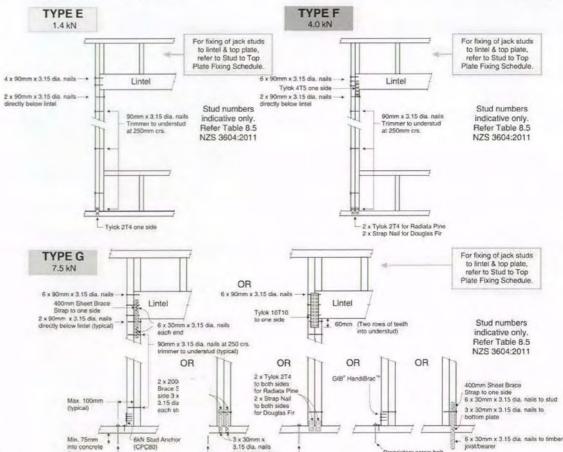
- 1) Roof Tributary Area = approx. 1/2 x (Total roof area on girder
- and rafter trusses supported by lintel)

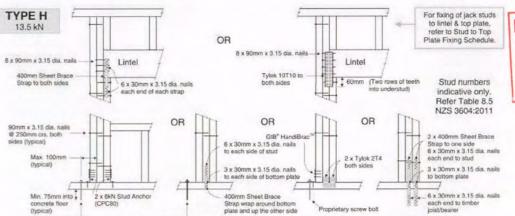
  2) Assumed girder truss is at mid-span or middle third span of lintel
- Use similar fixings for both ends of lintel
   All other cases require specific engineering design

MiTek

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8. WALLS





sher or M12 x 150mm coach screw with 50x50

70

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into concrete floor M12 pro

> NC429 Client Details : Brad Dent & Natalie Brien Address: 20 Keene Drive **New Design** Bell Block Date: 2/04/2015 Sheet no: Scale: **Lintel Fixing Schedule** N.T.S 16

Call 0800 A1homes 214663 Check: N.Davis Exposure: Snow: Earthq: www.A1homes.co.nz 1 C NO High

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TVI. MiTek\*





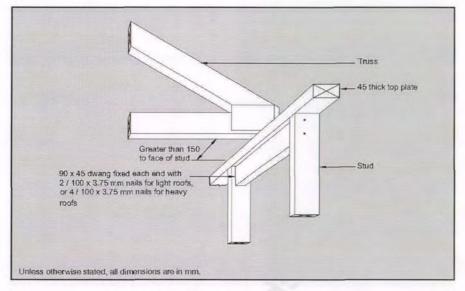


Figure 8.13 - Strengthening top plate (see 8.7.1.1 and table 8.16)

### Joints in plates:

Joints in top plates shall be made only over supports being either a stud or

Joints in the top plate of a wall that does not contain any wall bracing elements (either in line or at wall intersections), shall be halved and nailed at the joints, see figure 8.14 (A), or be butted over blocking and nailed, see figure 8.14 (B), or be provided with an alternative fixing, having a capacity in tension or compression of

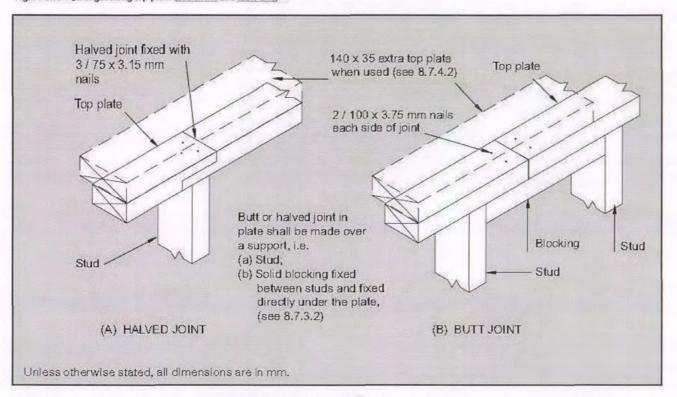


Figure 8.14 - Connecting top plates - Walls not containing bracing (see 8.7.3.2)

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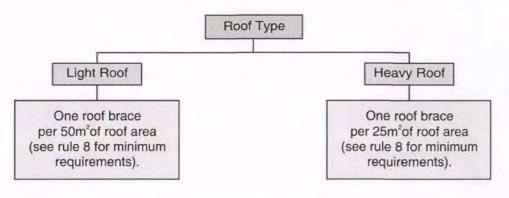
## LUMBERLOK®

### ROOF BRACING SPECIFICATION

### AS PER NZS 3604:2011

- Covers roof bracing requirements to resist horizontal loads as set out in NZS 3604:2011 Section 10.
- A definitive guide to the description and installation of Roof Plane Braces and Roof Space Braces.

### **Roof Bracing Requirements**



### Roof Bracing - Rules & Definitions

- 1. The bracing described in this brochure covers both framed roofs and fully trussed
- 2. Roof planes less than 6m<sup>2</sup> (e.g. dormers & porches) do not require bracing.
- 3. Roof braces can consist of either i) Roof Plane Brace or ii) Roof Space Brace or combination of the two.
- 4. Roof braces are not required on roofs where sarking is installed as per NZS 3604:2011 Clause 10.4.4 or where a ceiling diaphragm is installed and is attached to the rafters.
- 5. Roof area is the actual plan area of the roof and includes overhangs.
- 6. A hip or valley rafter running continuously from ridge to top plate can be classed as one roof plane brace.
- 7. A pair of crossed LUMBERLOK Strip Brace (preferred for ease of installation) can be classed as one roof plane brace and shall be installed as detailed in this brochure.
- 8. There must be at least one roof plane brace in each roof plane. Each ridge line shall have a minimum of two roof braces.
- 9. Every design effort should be made to distribute the roof braces as evenly as possible over the entire roof area and run alternately in opposite directions.



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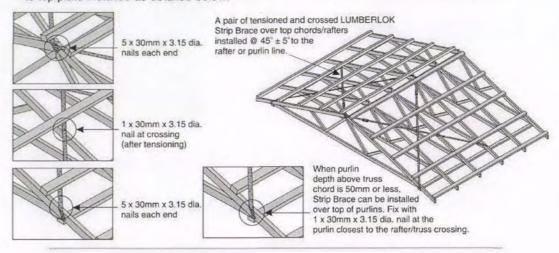
### **Roof Bracing Options** i) ROOF PLANE BRACE



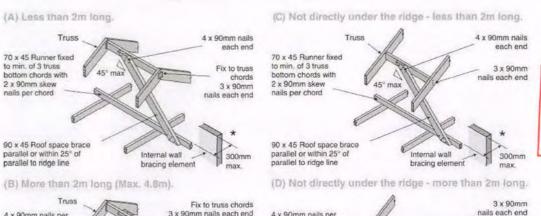
Each roof plane brace can be:

10/2011

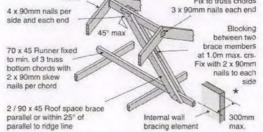
- . A hip or valley rafter running continuously from ridge to the top plate in accordance with NZS 3604:2011 Clauses 10.2.1.3.2 or 10.2.1.3.3
- · A pair of tensioned and crossed LUMBERLOK Strip Brace running continuously from ridge to top plate installed as detailed below.

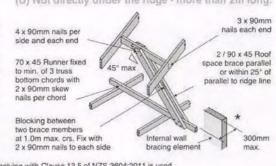


### ii) ROOF SPACE BRACE



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\*Not required when a ceiling diaphragm complying with Clause 13.5 of NZS 3604:2011 is used.



GANG-NAIL® LUMBERLOK® BOWMAC®

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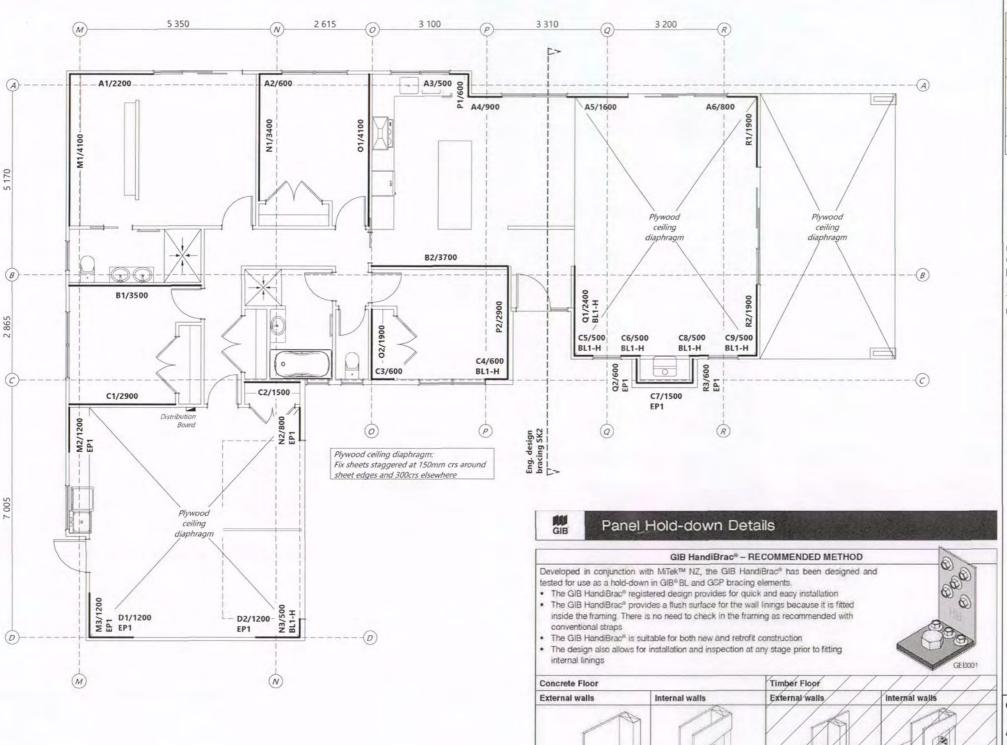
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### All braces are GS1-N, unless otherwise stated





### **Cautionary Notes:**

ALL GIB® BRACES FIXED IN ACCORDANCE WITH THE LATEST WINSTONES GIB BRACING MANUAL & GIB SITE GUIDE

Bracing	Element Table
Brace Type	
GS1-N	10mm GIB std plasterboard on one side, min. length 0.4m
BL1-H	10mm GIB BRACELINE on one side, min. length 0.4m + GIB Handibrac hold down ea. end
EP1	7mm Ecoply or Ecoply Barrier one side, min. length 0.6m + Use GIB Handibrac® hold-down connections at each end
	All braces are GS1-N, unless otherwise stated

Label No.

### A1 / 1800

Brace Length

### **Openings in Bracing Elements**

(as per GIB Ezybrace System)

Openings are allowed within the middle third of a wall bracing element's length and height. Neither opening dimension shall be more than one third of the element height. Wall linings are fixed to opening trimmers at 150mm centres. 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.

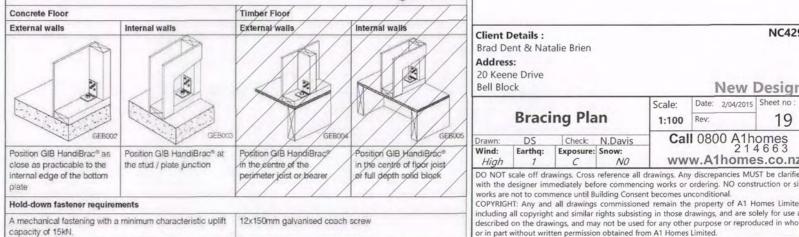
### Connecting top plates to external walls:

Each wall that contains one or more wall bracing elements shall be connected at the top plate level, either directly, or through a framing member in the line of the wall, to external walls at right angles to it. - Refer to following page.

### Ply ceiling diaphragm:

Fix sheets staggered at 150mm crs around sheet edges and 300mm crs

NPDC Approved for 1 3 MAY 2015 **Building Consent** 





NC429 **Client Details:** Brad Dent & Natalie Brien Address:

20 Keene Drive Bell Block

> Date: 2/04/2015 Sheet no **Bracing Plan** 19 1:100

**New Design** 

DS Check: N.Davis
Earthq: Exposure: Snow: www.A1homes.co.nz DO NOT scale off drawings. Cross reference all drawings. Any discrepancies MUST be clarified

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### Connecting top plates to external walls:

For single-storey buildings the connection in line of the top plate of a wall that contains one or more wall bracing elements shall be jointed according to the bracing capacity of the highest-rated individual wall bracing elements as follows:

- (a) Bracing capacity not exceeding 100 bracing units: A 3 kN connection as shown in figure 8.15;
- (b) Bracing capacity exceeding 100 bracing units: A 6 kN connection as shown in figure 8.15.
- (c) Wall top plates to which ceiling diaphragms are attached: A 6 kN connection as shown in figure 8.15

Each wall that contains one or more wall bracing elements shall be connected at the top plate level, either directly, or through a framing member in the line of the wall, to external walls at right angles to it. Top plate fixing(s) of the capacity in tension or compression along the line of the wall bracing element are given as follows:

(a) For each wall containing wall bracing elements with a total bracing capacity of not more than 125 bracing units: to at least one such external wall by a fixing as shown in figure 8.16 of 6 kN capacity;

(b) For each wall containing wall bracing elements with a total bracing capacity of not more than 250 bracing units: to at least 2 external walls by fixings as shown in figure 8.16 each of 6 kN capacity;

(c) For each wall containing wall bracing elements with a total bracing capacity of more than 250 bracing units: to at least 2 external walls by fixings as shown in figure 8.16 each having a rating of not less than 2.4 kN per 100 bracing units.

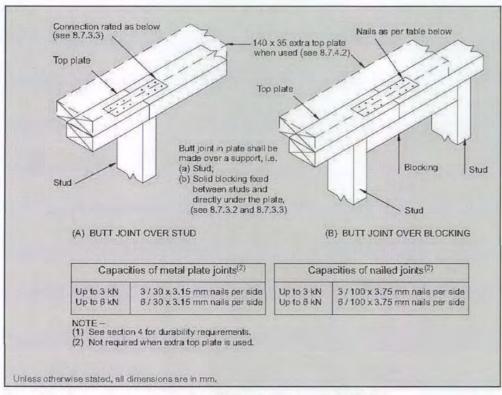


Figure 8.15 - Connecting top plates in line - Walls containing bracing (see 8.7.3.3)

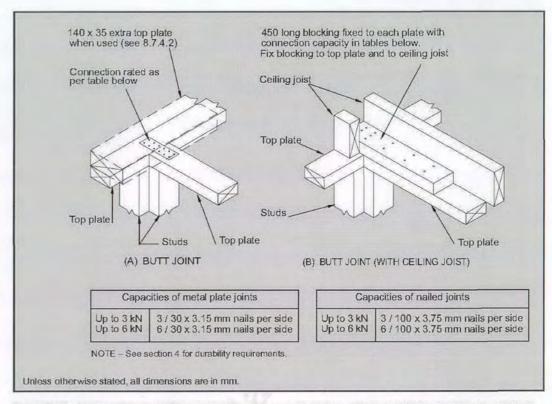


Figure 8.16 - Connecting top plates to external walls at right angles - Walls containing bracing (see 8.7.3.4)

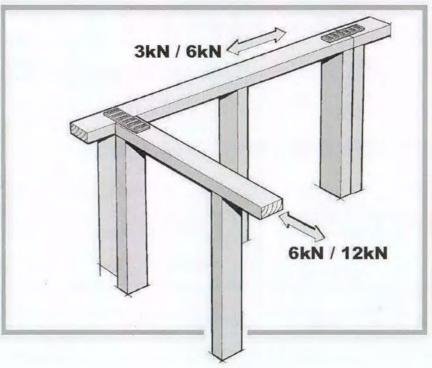


### Top Plates at Right Angles

Connection capacity	LUMBERLOK Connector
6 kN	Tylok 6T10 OR 2 x Strap Nails
	2 x Sheet Brace Straps fixed with 6 x LUMBERLOK Product Nails 30mm x 3.15 dia. per end per strap (24 nails total)

### Top Plates in Line

Connection capacity	LUMBERLOK Connector
3 kN	Tylok 6T5 OR Strap Nail
6 kN	Tylok 6T10 OR 2 x Strap Nails



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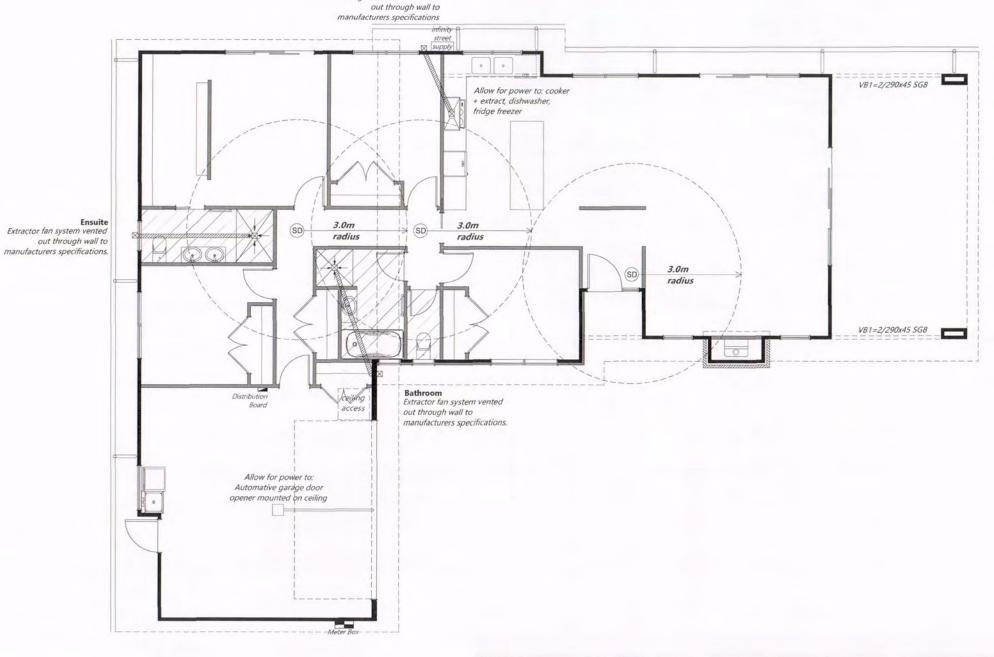
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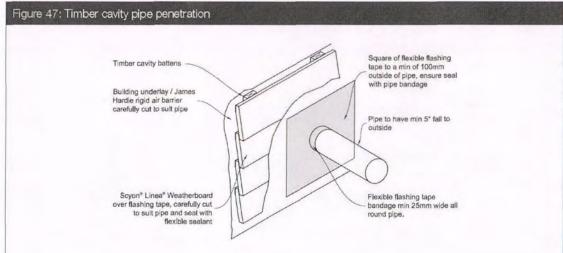
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Rangehood extract vented



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### Notes:

All electrical work & items to comply with; NZBC F7/AS1, AS/NZS 3000, AS/NZS 3008, AS 3786, AS/NZS 5000.2: 2006

SD - Approved smoke detectors required within 3.0m of any sleeping space

- first alert or similar, smoke alarms to have both a test & hush button

Position of Smoke detectors:

- Not less than 200mm from a wall

- Idealy in the centre of ceiling where possible (hallways)

Down lights to be CA 80 or CA 135 Rated (max 1 per 5m<sup>2</sup>).

Ventilation system to vent ducts & r/hood to soffit outlet

### **Ventilation of Sanitary rooms**

Percentage of ventilated opening to be minimum 5% of room floor area

Room Floor area Window opening Percentage 
 Bath
 5.74m²
 800x600 = 0.48m²

 wc
 1.71m²
 800x600 = 0.48m²
 28.1% Ens  $5.21\text{m}^2$   $800x800 = 0.64\text{m}^2$  12.3%

Client I		alie Brien					NC42
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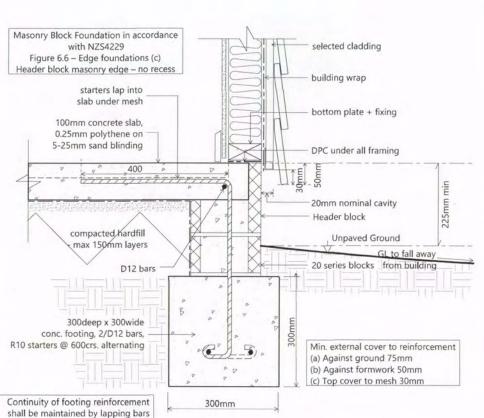
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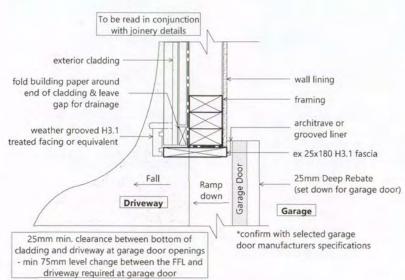
**Foundation** 

bottom of cladding and driveway

at garage door openings

**Engineer Design Chimney & Patio** 

Plans to be read in conjunction with 'West Point Engineers' design and Producer Statement - in case of discrepancies engineer design shall take precedence



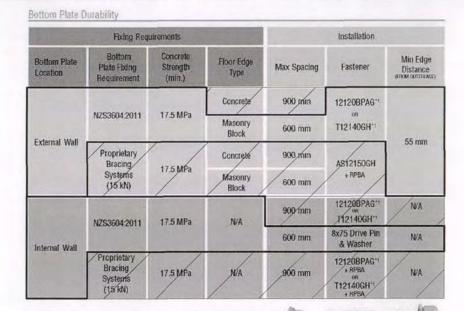
D2 Garage Door Rebate (plan view)

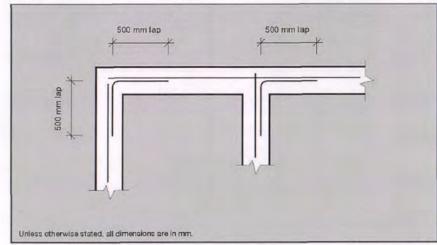
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### | Meets NZS 3604:2011 Requirements| 90 x 45 Bottom Plate

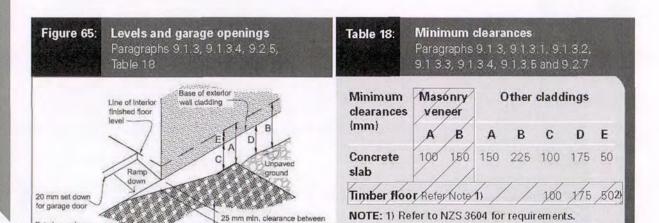




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2) Cladding to extend minimum 50 mm below

bearer or lowest part of timber floor framing.

(Linea)

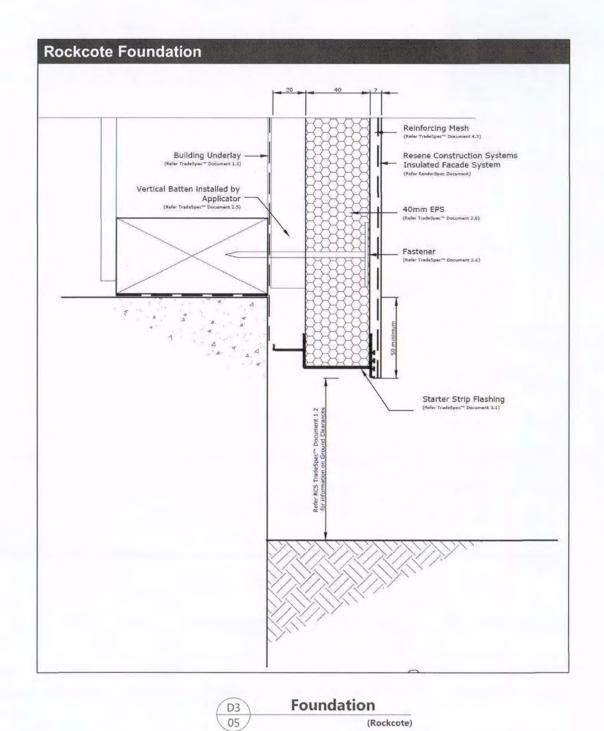


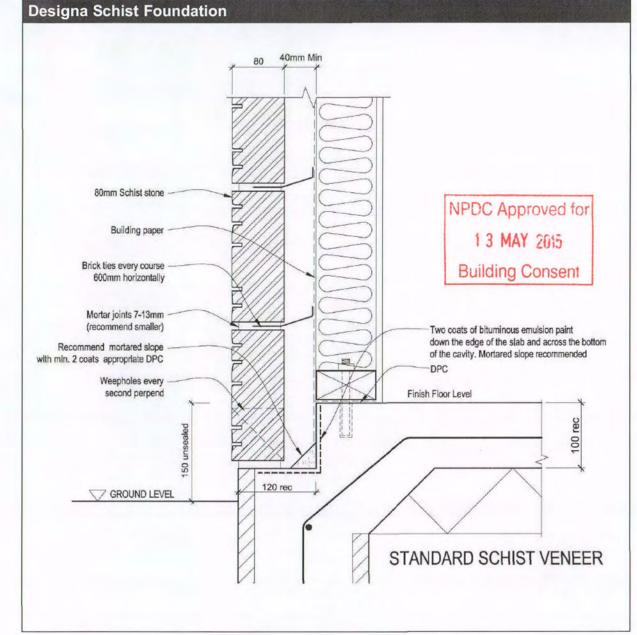
with a lap length of not less than 40 times the diameter of the bar.

05









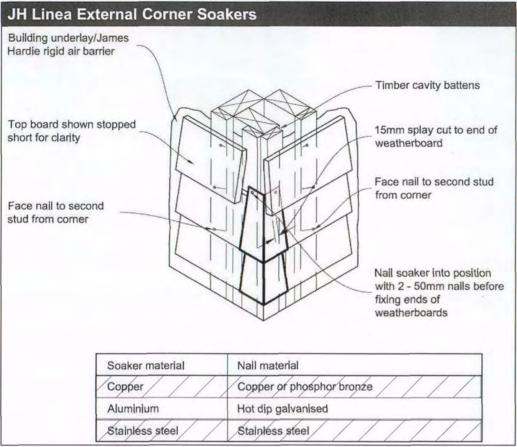
D4 05 **Foundation** (Designa Schist)

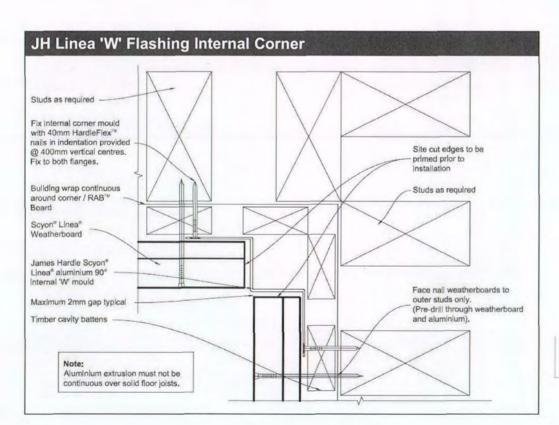
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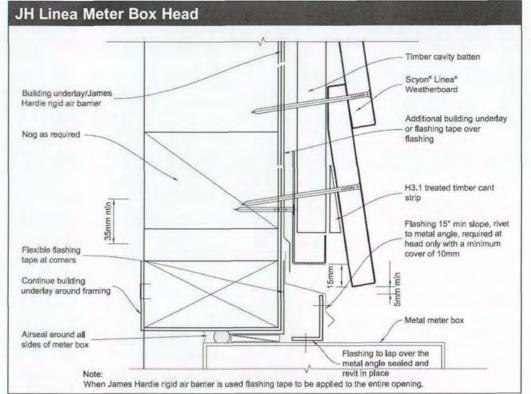
with the designer immediately before commencing works or ordering. NO construction or site

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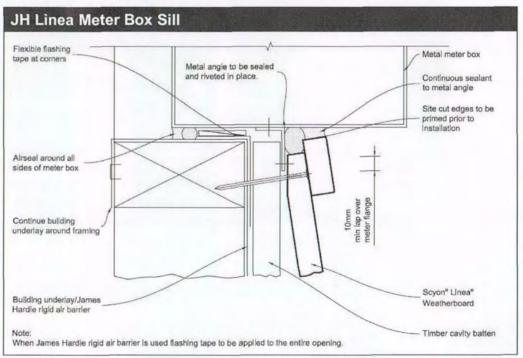












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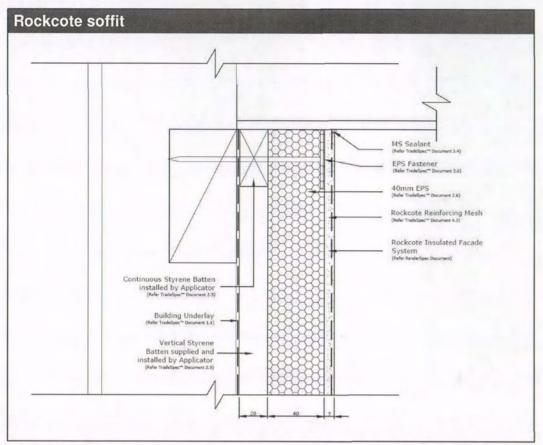


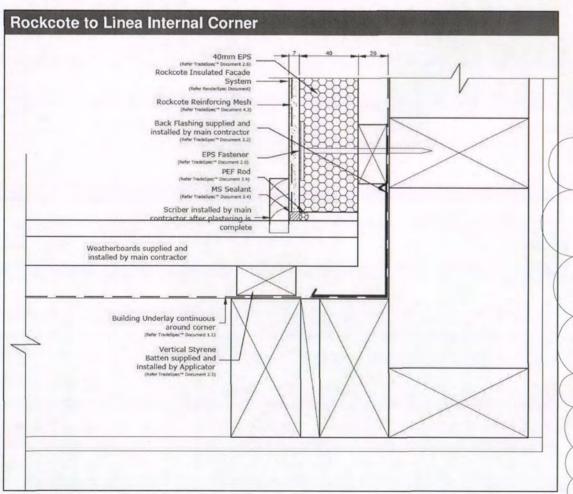
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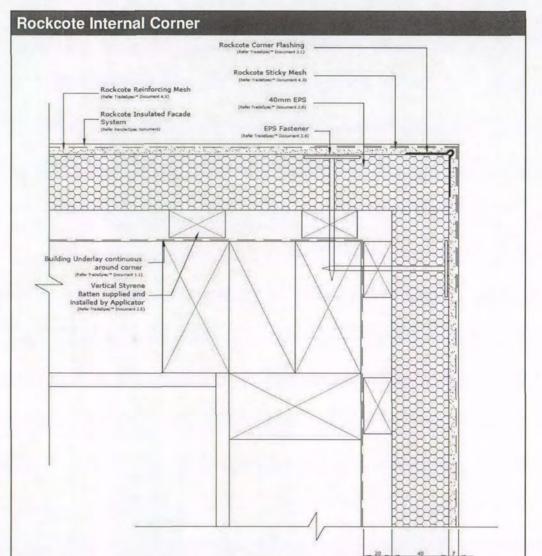
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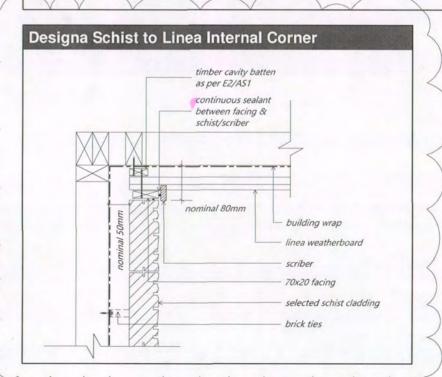








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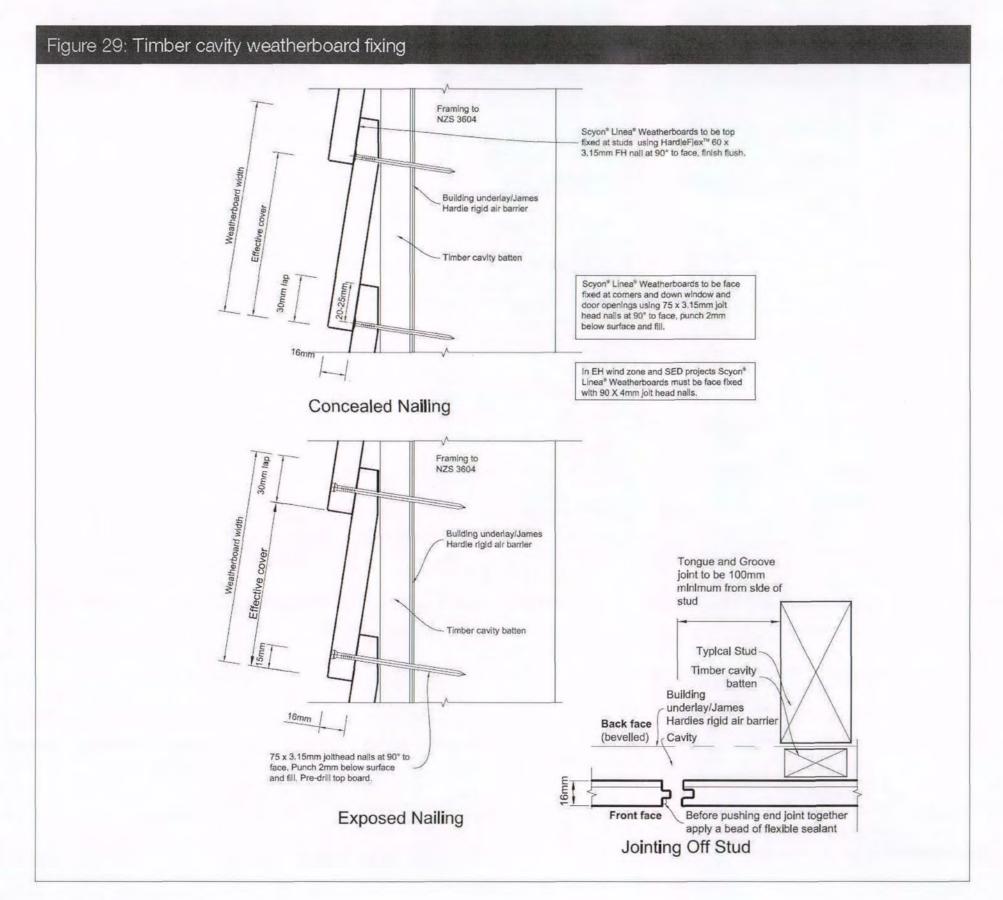
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### Jointing:

The ends of Scyon Linea Weatherboards are jointed off-stud by means of a tongue and groove joint. Tongue and groove joints may be located centrally between studs but no closer than 100mm from the edge of a stud. The joints must be staggered by 600mm minimum. Sealant must be provided in the tongue and groove joint.

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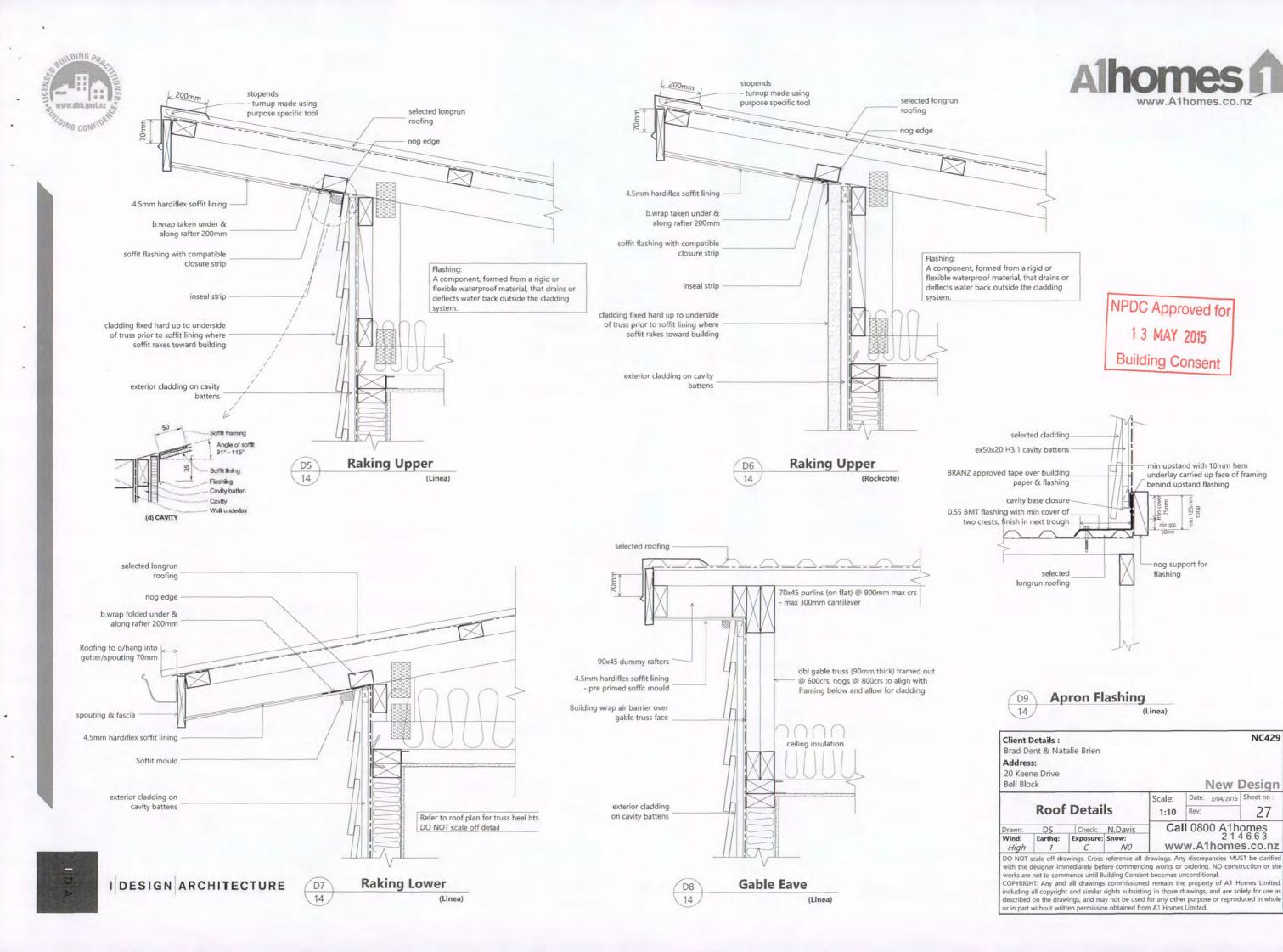
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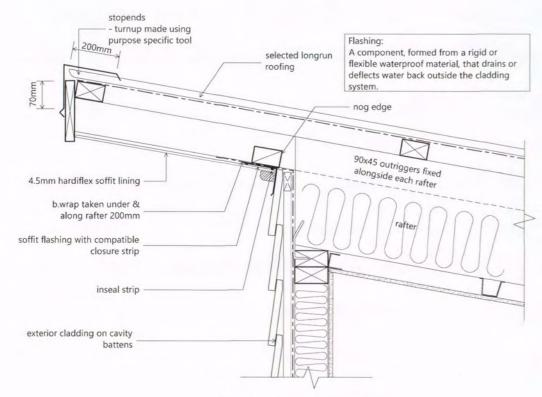
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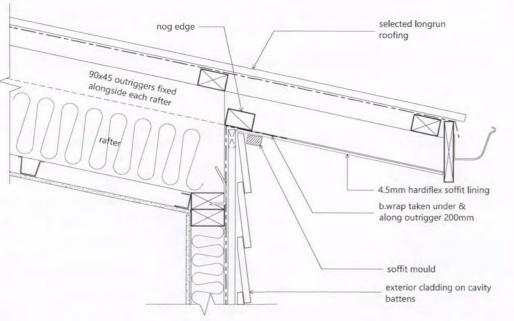




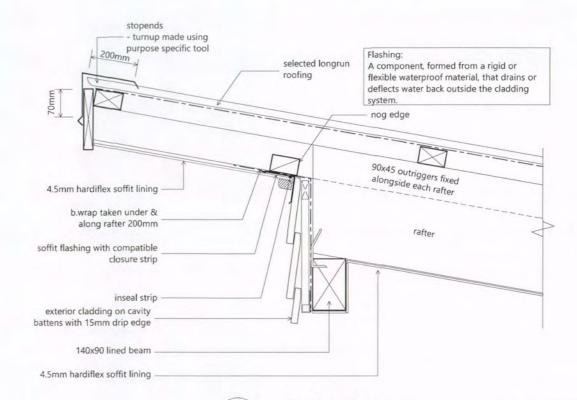




Raking Upper Rafter



D11 Raking Lower Rafter



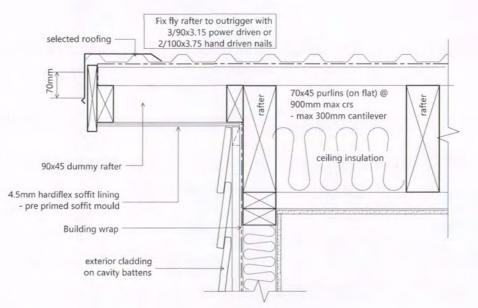
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1 3 MAY 20!5

Building Consent



Gable Eave Rafter

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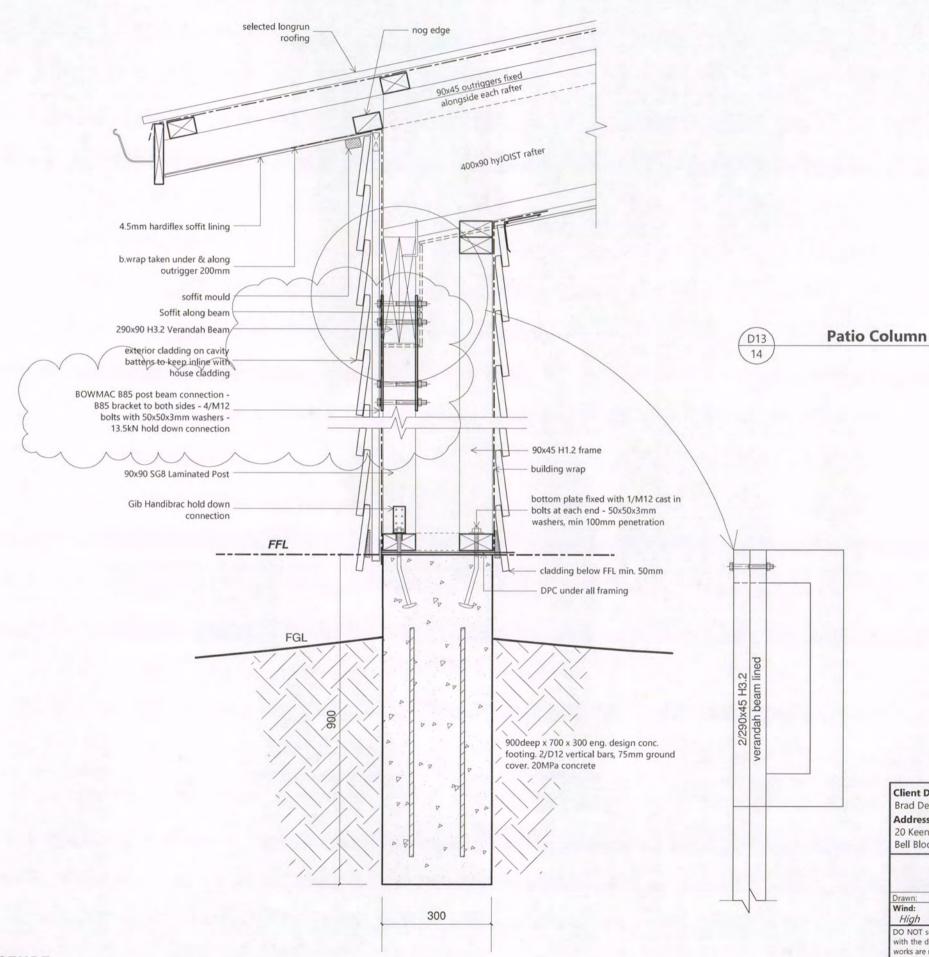
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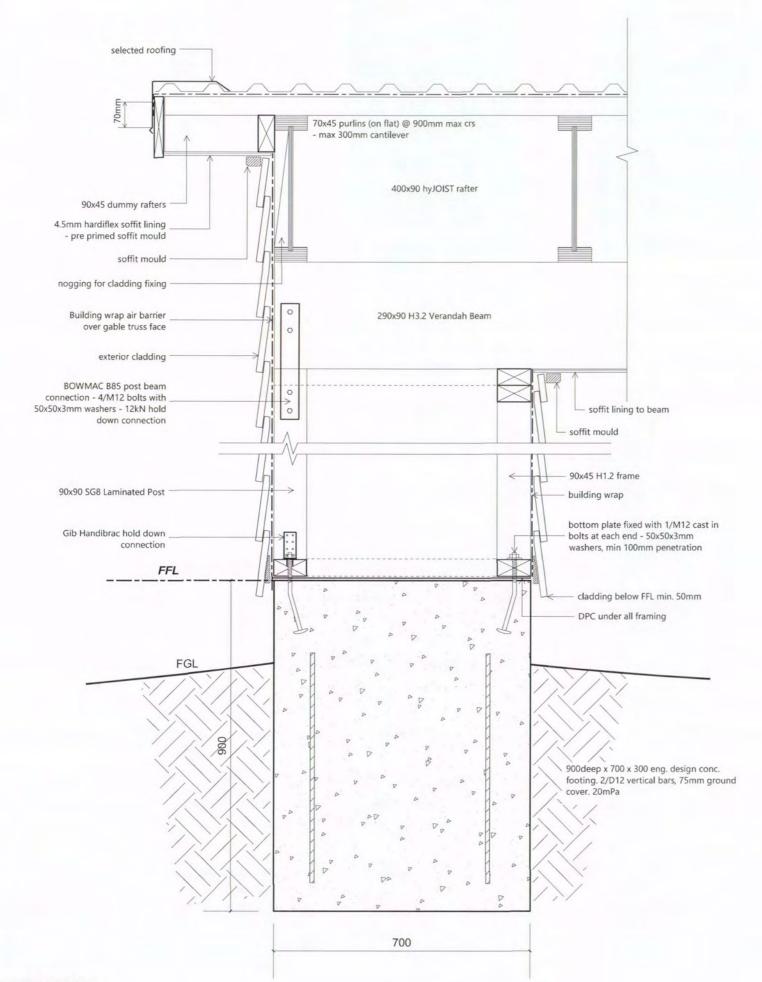
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NC429 Client Details : Brad Dent & Natalie Brien Address: 20 Keene Drive **New Design** Bell Block Date: 12/05/2015 Sheet no : Scale: **Roof Details** 29 1:10 Call 0800 A1homes 214663 DS Check: N.Davis Earthq: Exposure: Snow: www.A1homes.co.nz

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D14 14 **Patio Column** 

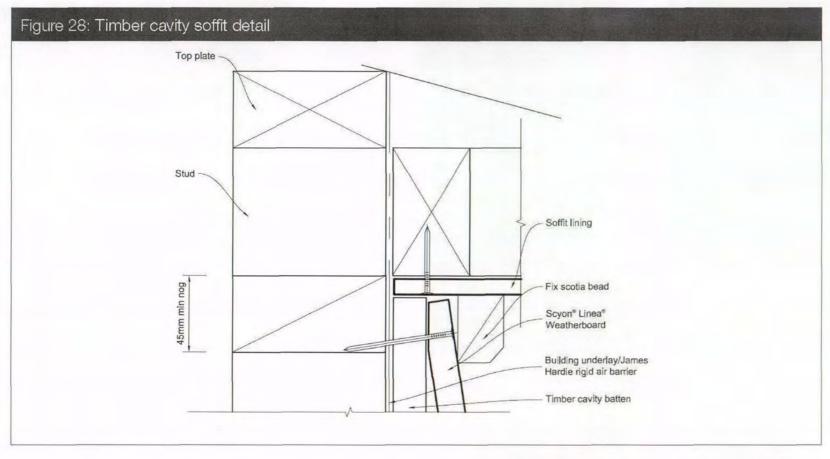
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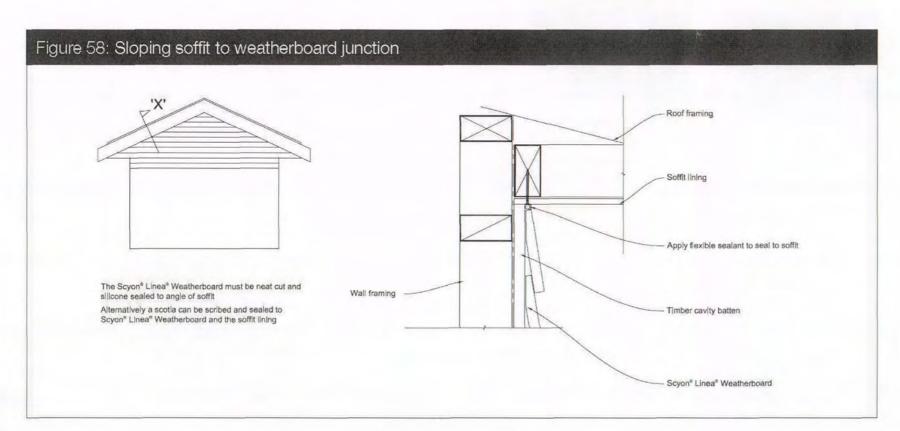
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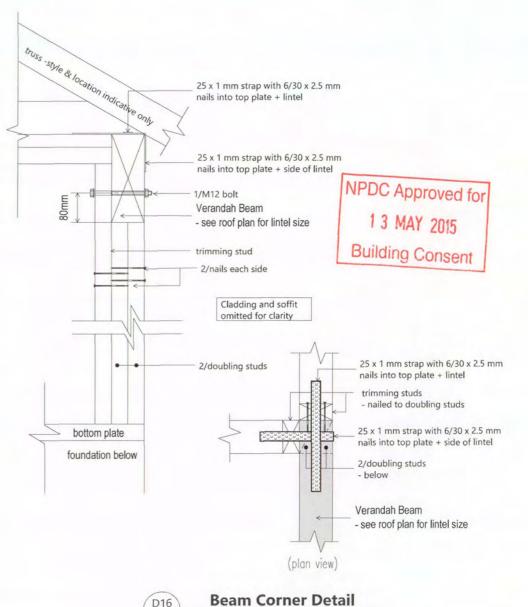
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12Kn Connection (2 x 6Kn straps)

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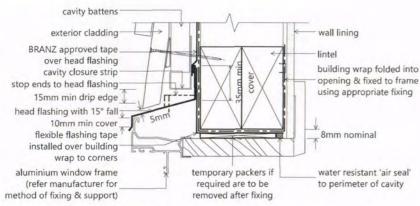
Cavity batten

Flexible tape turned out 50 mm min. over underlay

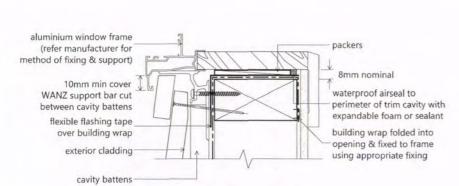
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13 MAY 2015

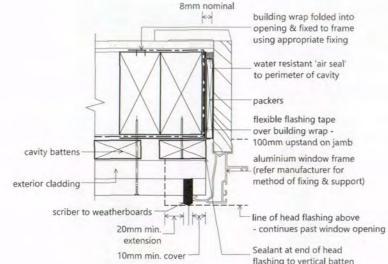
**Building Consent** 



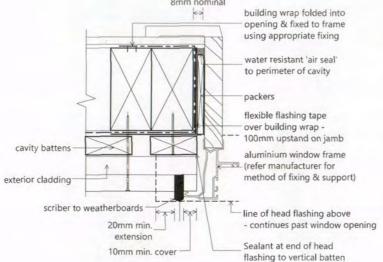
### Window Head



Window Sill



Window Jamb



50 mm min, lap ine of cladding Flexible tape full width of opening over underlay

Figure 72B: General window and door opening with drainage cavity

Wall underlay turned into opening

100 mm mln. turn-up to

flexible tape

SIII support bar - refer 9.1.10.5 b)

Wall underlay turned into

opening over framing

Paragraphs 9.1.5, 9.1.9.3, 9.1.10.2, Figures 73C, 76, 85, 86, 91, 99, 116 and 128

(2) Head to be treated similarly with continuous wall underlay and flexible tape at corners.

(1) Detailed cladding omitted for clarity, refer to specific claddings.

(3) Refer individual cladding details for jamb flashings.

Flexible air seals;

The air seal shall be installed over a closed cell polyethylene foam (PEF) backing rod, or similar and made of self-expanding polyurethane foam

Backing rods are used for self-expanding polyurethane foam as there is a danger foam will expand to the outside of the wall and form a moisture bridge to the interior.

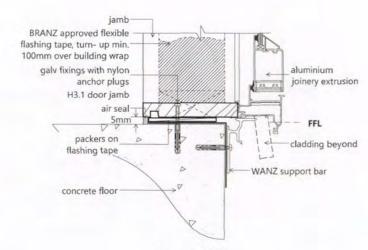
- 9.1.10.8 Attachments for windows and doors Install windows and doors using pairs of minimum 75 x 3.15 galvanised jolt head nails or 8 gauge x 65 mm stainless steel screws, through reveals into surrounding framing at:
- a) Maximum 450 mm centres along sills, jambs and heads, and
- b) Maximum 150 mm from reveal ends. Install packers between reveals and framing at all fixing points, except between head reveals and lintels.

Flashing tape must be proven compatibility with selected building underlay and other building materials with which it comes into contact as per table 21 of 'E2/AS1'

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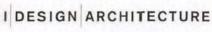
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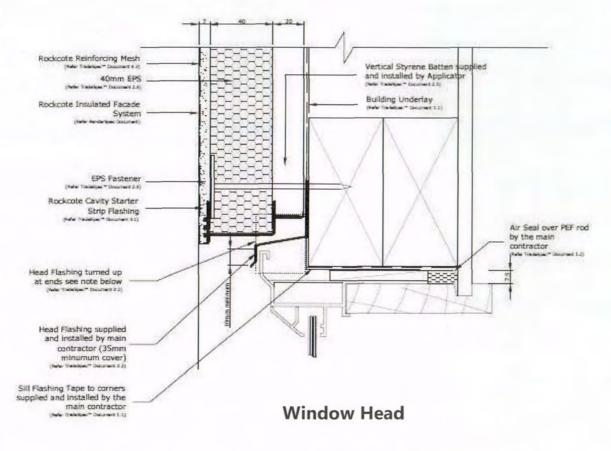
**Door Sill** 

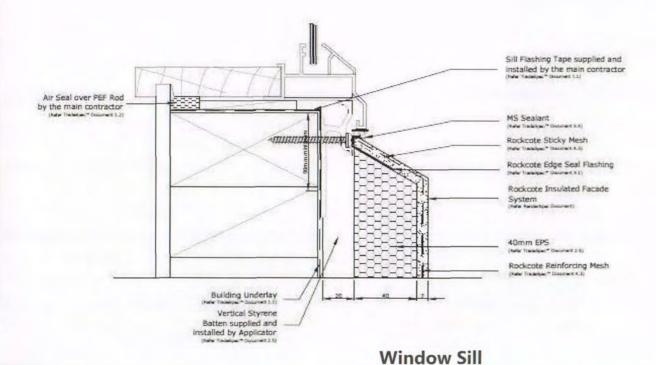


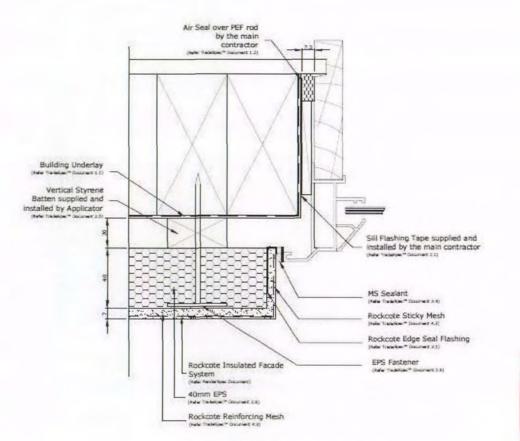












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**Window Jamb** 

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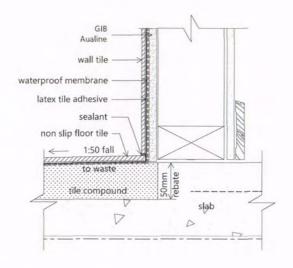
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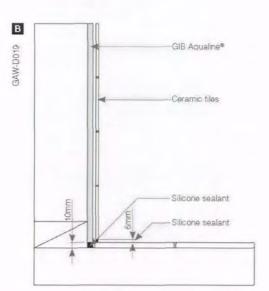
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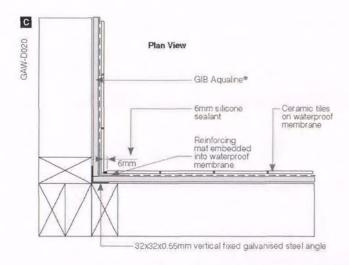
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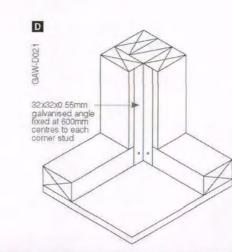


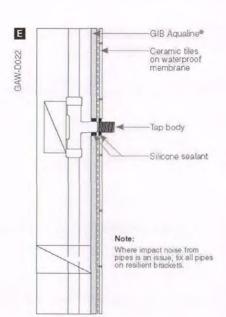


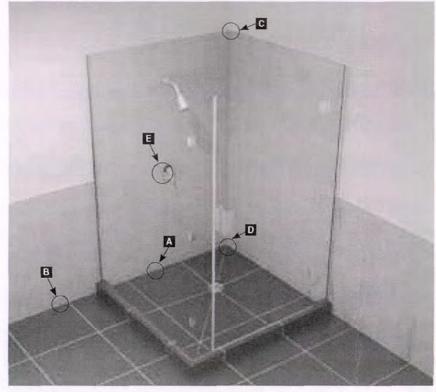




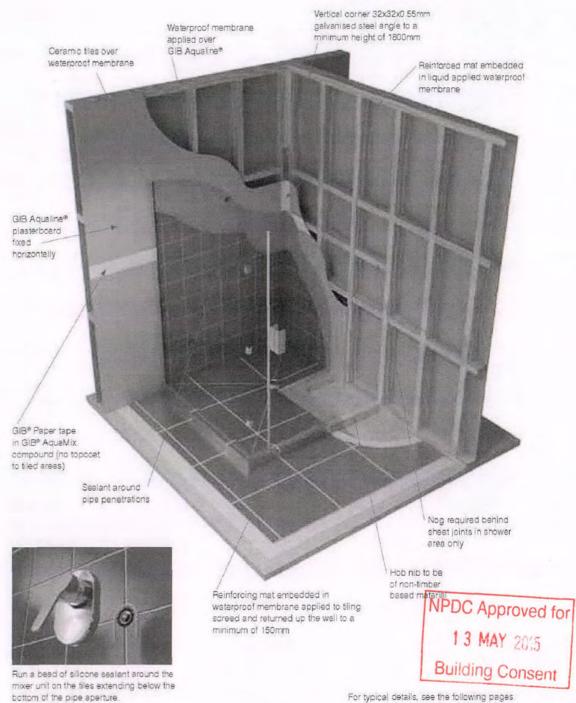




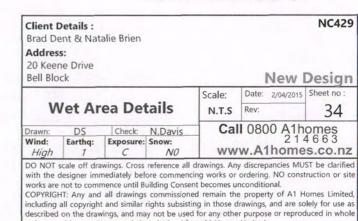






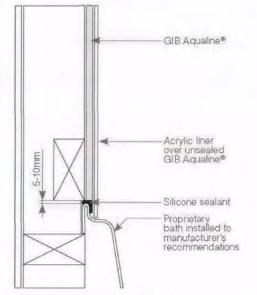


For typical details, see the following pages.

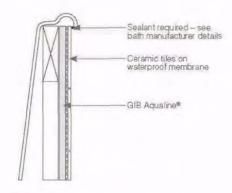


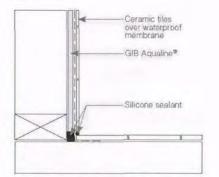
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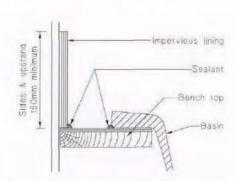


### **Bath to Wall Junction**





**Bath to Floor Junction** 



**Tub, Sink and Basin Junction** 

I DESIGN ARCHITECTURE

### GIB AQUALINE® WET AREA SYSTEMS - FRAMING AND LINING INSTALLATION



Important: See page 6 and 7 for waterproof membrane requirements.

### Wall Framing

Framing dimensions and spacing must comply with the requirements of NZS 3604:1999 or relevant NZ Standard.

- Prior to lining in tiled areas (shower cubicles and shower over bath only) the internal corners shall be reinforced with a minimum 32 x 32 x 0.55mm galvanised metal angle. Each side of the angle shall be fastened to the framing with 30mm galvanised clouts at 300mm centres
- · Steel stud systems do not generally require nogs except as below:
- Adjacent to each pipe penetration and behind sink and tub flashings
- Between all studs above bath flanges and preformed shower bases
- For impact protection in shower cubicles or shower over bath situations it is important that all sheet joints are made on solid framing. This may require either vertical fixing of the GIB Aqualine® or the installation of some additional nogs.

### Fasteners

- For 10mm GIB Aqualine® use minimum 25mm x 6g GIB® Grabber® Drywall Screws
- For 13mm GIB Aqualine® use minimum 32mm x 6g GIB® Grabber® Drywall Screws.

### **Fastener Centres**

- GIB® Grabber® Drywall Screws at 100mm centres to perimeter of wall and to all intermediate studs
- · Adhesive is not to be used in place of mechanical fastenings.

### Lining

- 10mm or 13mm GIB Aqualine® is suitable for use on timber framing and for tile weights up to 20kg/m²
- 13mm GIB Aqualine® must be used for tile weights between 20 and 32kg/m² and when light steel framing has been used
- GIB Aqualine® may be fixed vertically or horizontally
- Provide a 5-10mm gap at the wall/floor junction
- Provide a 5-10mm gap between the bottom edge of the GIB Aqualine® and any bath rim or preformed shower base to allow for placement of sealant
- . GIB Aqualine® sheets shall be touch fitted
- Where the framing or fastener centres required for tiled areas are closer than those specified for GIB® Fire Rated and GIB® Noise Control Systems, the tiling specification shall prevail. Where relevant, check that fastener lengths comply with the requirements of GIB® Fire Rated Systems or GIB® Noise Control Systems.

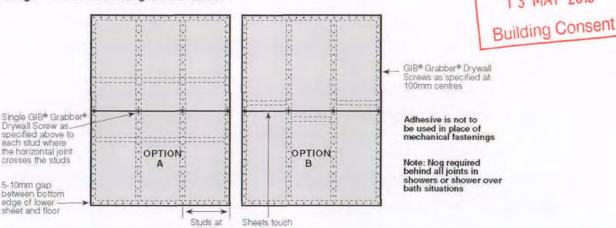
NPDC Approved for

1 3 MAY 2015

### Jointing

- . Jointing shall be carried out in accordance with instructions in the GIB® Site Guide
- Water resistant GIB® AquaMix is recommended for the first two coats
- . No top coat is required.

### Fastening the Linings - Horizontal Fixing in Tiled Areas

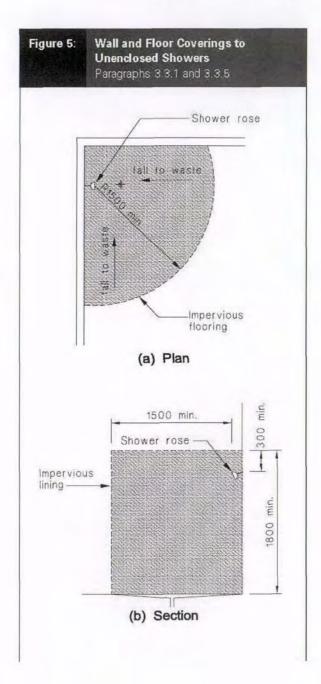


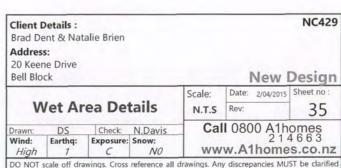
### Note:

GIB Aqualine® is suitable for tiling to full height of walls, but if a wall is to be partially tiled (i.e. half high), only the area of wall under the tiles needs to be fixed as above. The remainder of the wall may be fixed as for non-tiled area (see page 10 & 11).

600mm

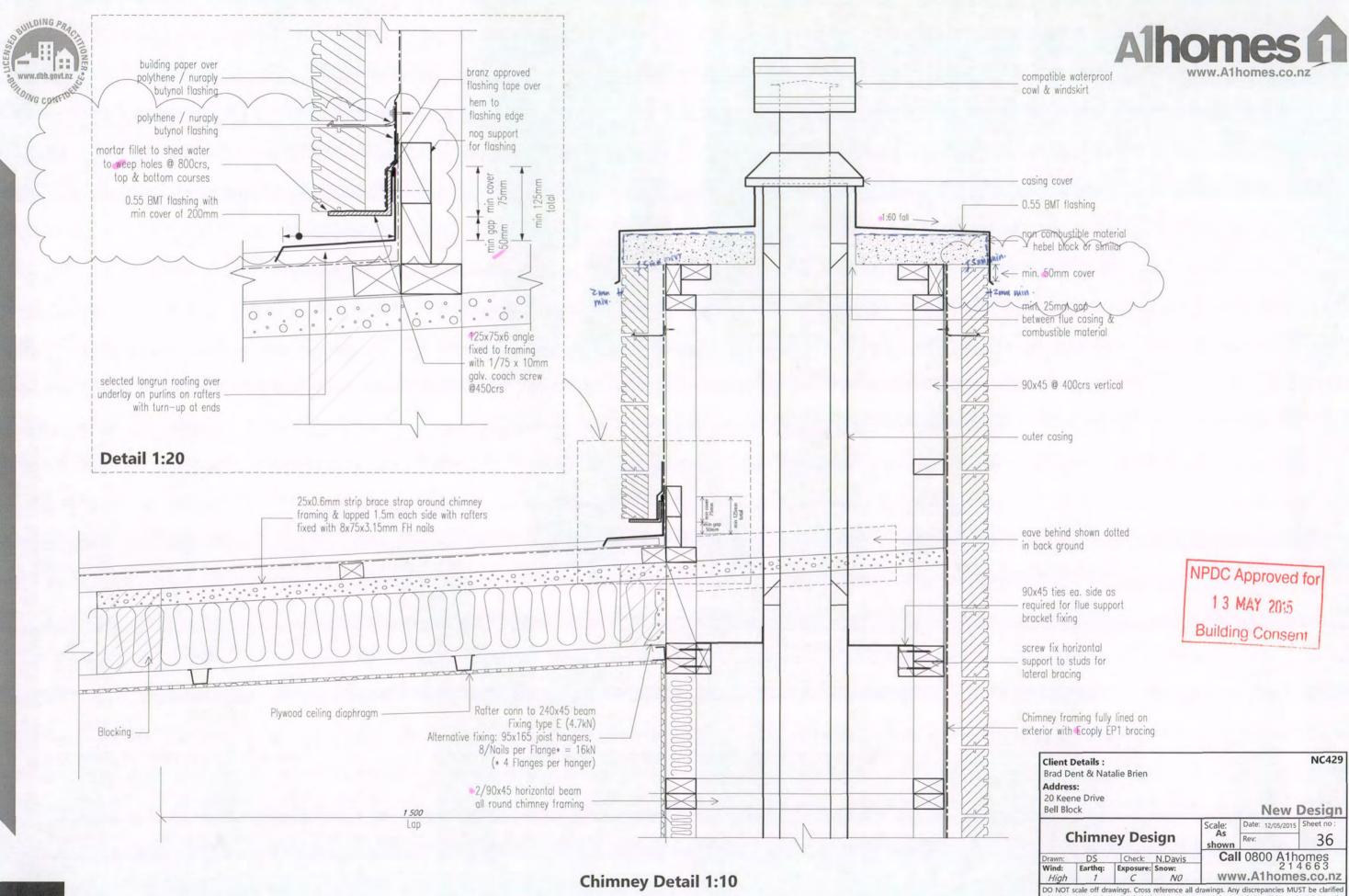






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I DESIGN ARCHITECTURE

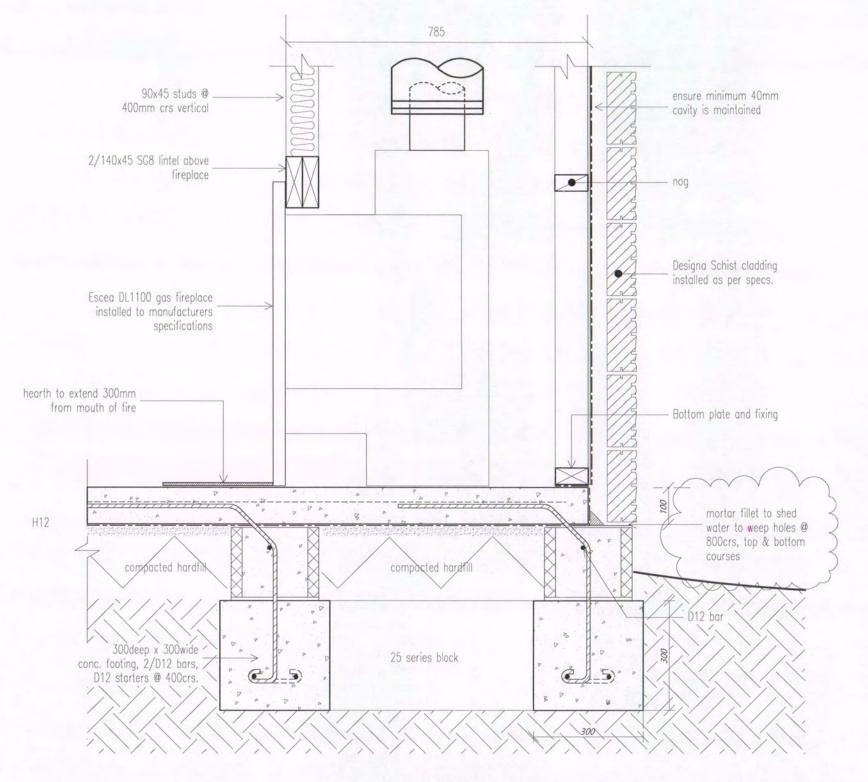
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**Chimney Foundation 1:10** 

Address:
20 Keene Drive
Bell Block

Chimney Design

Chimney Design

Scale: As Shown

Drawn: DS Check: N.Davis
Wind: High Earthq: C NO WWW.Alhomes.co.nz

DO NOT scale off drawings. Cook reference all drawings. And disconagging MINT he clarified

Client Details :

Brad Dent & Natalie Brien

NC429

NPDC Approved for

1 3 MAY 2015

**Building Consent** 

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MANAGE CONFIDENCES

8' Data.
2 - MOMI
1 35 Rosessed.
1 TV SHHAR

Filer in

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Googe dear Fridge Mood Hos gos Over Micro Dus Woole.

inhouses

Hecho

NZS 5261:2003 Gas Hob Installation

Cut out for hob: min, 60mm from back of bench top.

Overhead clearances: not less than 600mm from the highest part of hob to range hood Side clearances: Where dimension from periphery of nearest burner to any vertical combustible surface is less than 200 mm, surface shall be protected to a min. height of 150 mm above hob for full dimension (width or depth) of cooking surface area. Horizontal surface shall be greater than 10 mm below surface of hob.

Protection of combustible surfaces: 5mm thick ceramic tiles or graphic glass is suitable to protect 10mm Gib board.

IR - 1×N mm Posite Promoter 3 dentes

G3/AS1

1.1.3 Food preparation surfaces shall be easily maintained in a hygienic condition. Stainless steel, decorative high pressure laminate, and tiles are examples of suitable materials for these surfaces.

1.6 Wall linings

Wall linings adjacent to appliances and facilities shall have surfaces that can be easily maintained in a hyglenic condition. Stainless steel, decorative high pressure laminate, tiles, wallboards with painted or applied impervious coatings or films, are examples of suitable materials for these surfaces.



### Cautionary Notes:

Always cross reference the foundation plan with the framing plan prior to setting out

Joinery sizes shown are box sizes & are preliminary only.

Site measure and confirm all joinery sizes, reporting to designer any changes, PRIOR to ordering joinery. No liability shall be held by designer for incorrect supply of joinery.

Refer to all written dimensions, DO NOT scale off drawings.

### **Construction Notes:**

Gas hotwater & cooking with vented r/hood. Ensure gas appliance installation complies to NZS 5261: 2003. Polybutylene water supply pipes, Hot water supply pipes shall be thermally insulated to comply with H1/AS1 5.0

The delivered hot water temperature at any sanitary fixture used for personal hygiene shall not exceed 55°C

Gas via street supply

gas water heater: 300mm from any opening door or window, 75mm from down pipes, 500mmm fuse or electric box, 1000mm from gas botttles, 300mm from wall or corner, 1500mm from ground.

(gas fitter to confirm)

Tapered edge joints in ceilings

To reduce the risk of cracks caused by substrate movement, back-blocking of tapered edge joints is required in the following situations.

When timber battens have been used:

Any area containing 3 or more tapered joints

When steel battens have been used:

Any area containing 6 or more tapered joints

Please confirm layout & fittings of kitchen & bathrooms etc before foundation commences

### Gas fireplace:

installed to manufacturers specifications

NPDC Approved for 1 3 MAY 2015 Building Consent

### Floor Area:

= 194.23sqm o/frame

= 195.04sqm o/brick

Client Details:
Brad Dent & Natalie Brien
Address:
20 Keene Drive
Bell Block

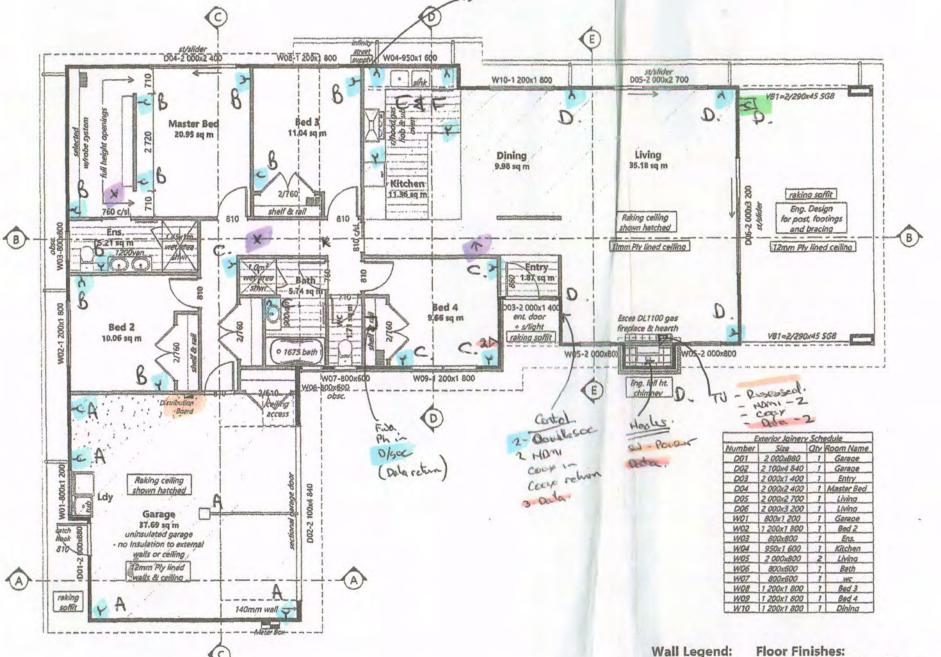
New Design
Date: 2/04/2015 Sheet no:

NC429

| Scale; | Date: 2/04/2015 | Sheet no: | | Scale; | 1:100 | Rev: | Sheet no: | | Scale; | 1:100 | Rev: | Sheet no: | | Scale; | 1:100 | Rev: | Sheet no: | | Scale; | 1:100 | Rev: | Sheet no: | | Scale; | 1:100 | Rev: | Sheet no: | | Scale; | 1:100 | Rev: | Sheet no: | | Scale; | 1:100 | Rev: | Sheet no: | | Scale; | 1:100 | Rev: | Sheet no: | | Scale; | 1:100 | Rev: | Sheet no: | | Scale; | 1:100 | Rev: | Sheet no: | | Scale; | 1:100 | Rev: | Sheet no: | | Scale; | 1:100 | Rev: | Sheet no: | | Scale; | 1:100 | Rev: | Sheet no: | | Scale; | 1:100 | Rev: | Sheet no: | Scale; | 1:100 | Rev: | Sheet no: | Scale; | 1:100 | Rev: | Sheet no: | Scale; | 1:100 | Rev: | Sheet no: | Scale; | 1:100 | Rev: | Sheet no: | Scale; | 1:100 | Rev: | Sheet no: | Scale; | 1:100 | Rev: | Sheet no: | Scale; | 1:100 | Rev: | Sheet no: | Scale; | 1:100 | Rev: | Sheet no: | Scale; | 1:100 | Rev: | Scale; |

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www. Linea

Carpet = 118.9m²
Master Bed

Bed 2
Bed 3
Bed 4
Living
Dining

Dining Hallways, cupd.s & wdrbs

Garage
Laundry

Bathroom

Ensuite

Kitchen

Entry

Wet Area = 25.89m2



TWN SLIM U.

NZS 5261:2003 Gas Hob Installation

@ For/ugul.

H 5' TON 460

Cut out for hob: min, 60mm from back of bench top.

Overhead clearances: not less than 600mm from the highest part of hob to range hood Side clearances: Where dimension from periphery of nearest burner to any vertical combustible surface is less than 200 mm, surface shall be protected to a min. height of 150 mm above hob for full dimension (width or depth) of cooking surface area. Horizontal surface shall be greater than 10 mm below surface of hob.

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1.1.3 Food preparation surfaces shall be easily maintained in a hygienic condition. Stainless steel, decorative high pressure laminate, and tiles are examples of suitable materials for these

surfaces that can be easily maintained in a hygienic condition. wallboards with painted or applied impervious coatings or films, are examples of suitable materials for these surfaces.

W04 950x1 600 1 Kitchen

W05 2 000x800 2 Living

Floor Finishes:

Hallways, cupd.s & wdrbs

Carpet = 118.9m2

W06 800x600 1 Bath

W07 800x600 1 W08 | 1 200x1 800 | 1 | Bed 3 W09 | 1 200x1 800 | 1 | Bed 4 W10 | 1 200x1 800 | 1 | Dining

Master Bed

Bed 2

Red 3

Bed 4

Living

Dining

Wall Legend:

Designa Schist

Linea

Rockcote 40EPS

### **Cautionary Notes:**

Always cross reference the foundation plan with the framing plan prior to

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Refer to all written dimensions, DO NOT scale off drawings.

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When timber battens have been used:

Any area containing 3 or more tapered joints · When steel battens have been used:

Any area containing 6 or more tapered joints

Please confirm layout & fittings of kitchen & bathrooms etc before foundation commences

### Gas fireplace:

installed to manufacturers specifications

NPDC Approved for 13 MAY 2015 **Building Consent** 

### Floor Area:

= 194.23sqm o/frame

= 195.04sgm o/brick Client Details : Brad Dent & Natalie Brien

Address: 20 Keene Drive Bell Block

Wet Area = 25.89m<sup>2</sup>

Concrete = 38.0m<sup>2</sup>

Bathroom

Ensuite

Kitchen

Garage Laundry

Entry

New Design Date: 2/04/2015 Sheet no:

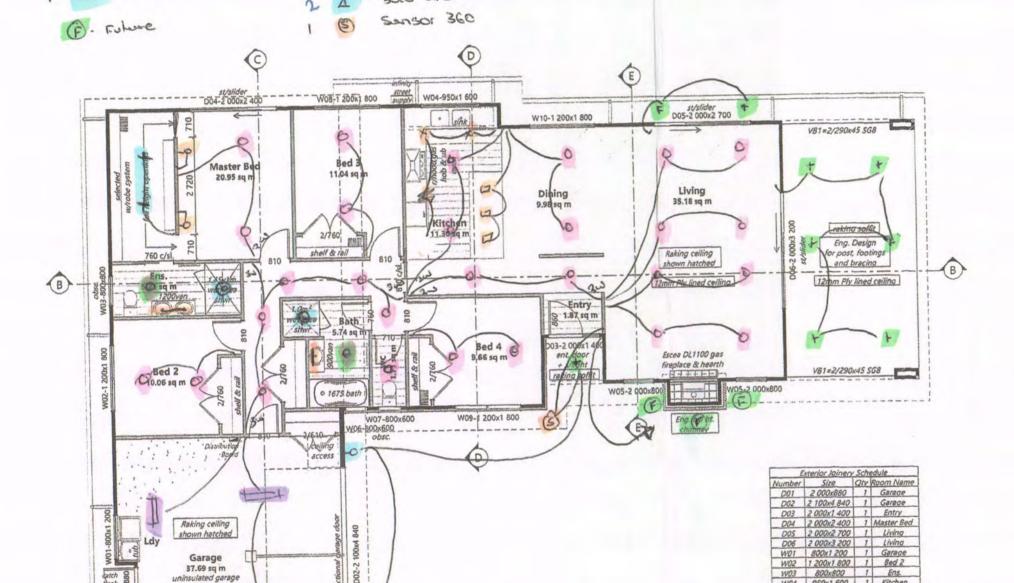
NC429

Scale: Floor Plan 8 1:100 Call 0800 A1homes 214663 Check: N.Davis Earthq: Exposure: Snow: www.A1homes.co.nz

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no Insulation to exten

walls or ceiling

12mm Ply lined

walls & ceiling

140mm wall -

### THESE PLANS HAVE BEEN

## SUPERSEDED

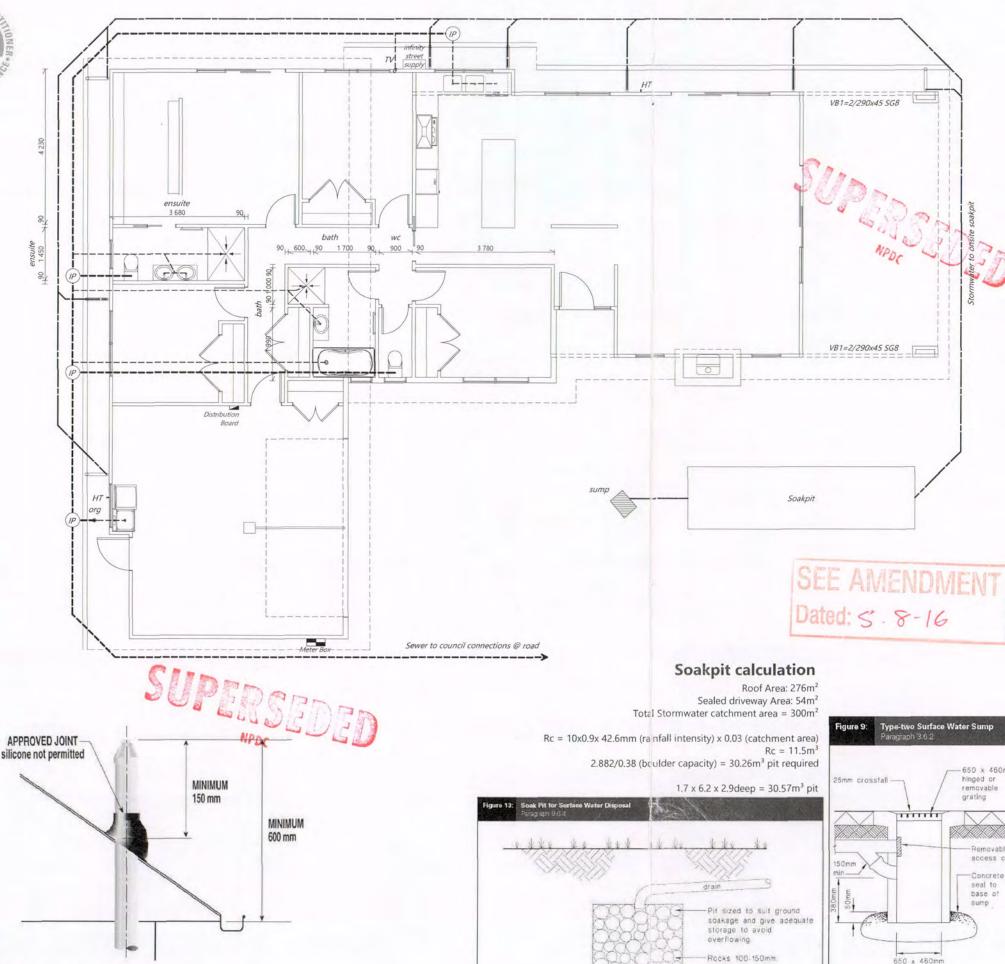
## REPLACEMENT PLANS WILL BE IN THE APPROVED OFFICE COPY.

3C:		20 Meere Drive
Amer	ndment No & Date of Amendments tha	t these superseded plans relates to are:
	<sup>1</sup> AMENDMENT	6.
	01 050816	7.
	3.	8.
	4.	9.
	5.	10.

THESE ARE TO BE KEPT AND SCANNED AT THE END OF THE PROJECT FOR FUTURE REFERENCE



I DESIGN ARCHITECTURE





### **Construction Notes:**

Plumbing to AS/NZS:3500.2.2 (min 1:60 pipe gradient) by qualified tradesman.

Contractor to locate all service connections on site prior to earthworks confirm all boundary setbacks & restrictions comply with current regulations prior to commencement of foundations.

All waste pipes PVC. Sizes, fall, venting & discharge to be confirmed by NZ qualified plumber. Confirm positions of available services cabling etc on site prior to any excavation

### Water supply:

Internal water pipes to Polybutylene.

All pipework and pipes exposed to freezing to be lagged with closed cell foam
- Closed cell foam polymer insulation or fibre glass insulation which is preformed to
the shape of the pipe and not less than 13 mm thick, is acceptable material for preventing pipes less than or equal to 40 mm diameter from freezing. Any insulation material that absorbs moisture shall be protected in a waterproof membrane.

### Fixture unit rating:

= 33 units Water Closet - 6 (x2)

Basin - 1 (x2)

Shower - 2 (x2) Laundry tub - 5 Kitchen sink - 3 Dishwasher - 3

NPDC Approved for

1 3 MAY 2015

**Building Consent** TABLE 3.5

### SIZE AND RATING OF VENTS

Size of vent pipe DN	discha	re units orging to rain	Vent rating	
40 50	>1	≤10 ≤30	0.5	
65	>30	≤175	2	
80 100	>175 >400	≤400 —	3 6	

NB: DN80 minimum vent when connected to septic tank

Plumbing Legend as per AS/NZS 3500					
Symbol	Item	Symbol	Item		
(IP)	Inspection point		DN100 PVC SS pipe, DN100 min water closets (ref specs) min 1:60 gradient		
	Downpipe		DN100 PVC SW pipe, min 1:120 gradient		
HT *	Hose Tap		min PVC fixture waste pipe sizes: DN40 basins, single head showers,		
⊖org	Overflow relief gully		baths, sinks, dishwasher & Idy tubs, DN50 multiple heads showers, DN65 unvented branch drains		
oTV	Terminal vent		exceeding 2.5m long (max 5 fixture unit rating) DN65 to all wastes discharging directly into drain under slab min 1:40 gradient. 20mm HWC vent drain (copper)		

Water supply pipe (from water tank or council mains) = DN20

hinged or

removable grating

access cap

seal to base of sump

Filter cloth surrounding

(a) Rock sook pit

SECTION

	alie Brien				NC429	
				New	Design	
			Scale:	Date: 2/04/2015	Sheet no :	
<b>Drainage Plan</b>				Rev:	3	
Drawn: DS Check: N.Davis				Call 0800 A1homes		
Earthq:	Exposure:	Snow: NO	2 1 4 6 6 3 www.A1homes.co.nz			
	s: ne Drive ck <b>Drain</b>	ent & Natalie Brien s: ne Drive ck  Drainage Pl DS Check:	ent & Natalie Brien s: ne Drive ck  Drainage Plan  DS Check: N.Davis Earthq: Exposure: Snow:	ent & Natalie Brien s: ne Drive ck  Ck  Drainage Plan  DS Check: N,Davis Earthq: Exposure: Snow:  Scale: 1:100  Cal	ent & Natalie Brien s: ne Drive ck   Drainage Plan  DS Check: N.Davis Earthq: Exposure: Snow:  Call 0800 A1h 2 1	

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### HORIZONTAL DATUM New Zealand Geodetic Datum 2000

MAP PROJECTION

New Zealand Transverse Mercator

4.75 9.5

20 Keene Drive



Date: 8/4/2022 1:250