Timber / Subfloor Plan *(NZS3604 NZS 3602 & 3640 , B1,B2)*

Comments

Layout

- ☐ ☐ ☑ Layout dimensions
- ☐ ☐ ☐ Bearers details.....B1; Sec 6 ; B2
- ☐ ☒ ☐ Joist details.....B1:B2 cantilever alw span
- ☐ ☐ ☐ Alternative.....specify reason
- ☐ ☐ ☐ Purlins.....BI B2
- ☐ ☐ ☐ Grade.....BI B2
- ☐ ☐ ☐ Rafters.....BI B2

Section

- ☐ ☐ ☐ Foundation type/size..... *NZS 3604;B2*
- ☐ ☐ ☐ Piles post sizes & treatment ..... *NZS 36043602;3640;B2*
- ☐ ☐ ☐ Pile c/c..... *NZS 3604*
- ☐ ☐ ☐ Fixing..... *NZS 3604:B2*
- ☐ ☐ ☐ Ventilation& Access to sub floor spaces ..... *NZS 3604*
- ☐ ☐ ☐ Alternative.....specify reason

If the addition is an upper storey show details on upgrading existing foundations, joints, piles; etc (may require Engineer design)

	Cant'lever

Floor plans / layout *(B1, B2, C1-4, D1, E3, F7, G1, G2, G12 G3, G9, G11, G13)*

Comments

General

N/A NO YES

- ☐ ☐ ☑ Room dimensions
- ☐ ☐ ☑ Sectional lines
- ☐ ☐ ☑ Location of partitions
- ☐ ☐ ☑ All designated spaces
- ☐ ☐ ☑ Location of sanitary fixtures
- ☐ ☐ ☑ Lintels..... *NZS 3604:B2*
- ☐ ☐ ☑ Beams..... *NZS 3604, by engineer*
- ☐ ☐ ☑ Point loads by engineer or prenailer....B1 B2
- ☐ ☐ ☑ Smoke detectors.....F7
- ☐ ☐ ☑ Wet areas / WCs .....*NZS 3602: 2003 sec. 10.3.1 ;D1, Table 2.*
- ☐ ☐ ☐ Alternative.....specify reason

Changes to existing work requires both an existing floor plan & a proposed floor plans
Facility provided for washing utensils / food G3, Section 1.1 & Figure 1:
Preparation Area and Access to Facility Paragraphs 1.1.2 and 1.5

Wall / Framing B1, B2, E3

Comment

General

- ☐ ☐ ☑ Identify engineering / Structural items/ portals. B1 B2
- ☐ ☐ ☑ By prenailer or to NZS 3604
- ☐ ☐ ☑ Fixing types ..... *NZS 3604*
- ☐ ☐ ☑ Stud c/c as per wind zone.... *NZS 3604*
- ☐ ☐ ☑ Building wrap..... *NZS 3604 E2/AS1*
- ☐ ☐ ☑ Stud heights of rooms..... *NZS 3604*
- ☐ ☐ ☐ Alternative.....specify reason

Roof..... *NZS 3604,3602 &3640 B1B2E2*

Comments

Preliminary Only
Please provide buildable layout + PSI

Trussed / by prenailer or Framed roof *NZS 3604*

N/A NO YES
- ☐ ☐ ☑ Fixing layout & details.....B1 B2
- ☐ ☐ ☐ Correct layout.....B1
- ☐ ☐ ☐ Max span (12m or Engineer).....B1
- ☐ ☐ ☐ Purlin or batten c/c....B1 B2
- ☐ ☐ ☐ Rafters / Beams.....B1 B2
- ☐ ☐ ☐ Alternative.....specify reason

Metal ; Profiled Metal; Masonry, Membrane Roofs *Code E2/AS1 B2*
- ☐ ☐ ☐ Pitch / profile.....B1
- ☐ ☐ ☐ Underlay.....E2
- ☐ ☐ ☐ Flashings.....E3;E2
- ☐ ☐ ☐ Parapets.....B1 E2 B2
- ☐ ☐ ☐ Membrane Roofs and substrate *Code E2/AS1 B2*
- ☐ ☐ ☐ Gutters, Barges & Fascias detail Refer E2, section 8.3, cl 8.3.9
- ☐ ☐ ☐ Alternative.....specify reason

Installation of profiled metal roof cladding shall be by trained installers, approved by the tile manufacturer or NZ agent. In some cases experienced builders undertake installation, refer E2, section 8.4, cl 8.4.2 'General'.

Claddings *Code B1 & B2 E2/AS1, Branz good practice Guides &, Weather tightness Vol 1 2&3*

Comments

Poly

- ☐ ☐ ☑ Risk matrix Cavity or direct.....E2
- ☐ ☐ ☐ Brick Veneer.....E2 "The brick book" Branz Masonry Guide
- ☐ ☐ ☑ Timber Weatherboard ....E2 Branz Timber Guide Vol 1&2
- ☐ ☐ ☐ Stucco .....B1 NZS 3604 Branz good practice guide
- ☐ ☐ ☐ Profiled Metal.....E2 Metal Roofing Practice
- ☐ ☐ ☐ Plywood E2
- ☐ ☐ ☑ Fiber Cement W/b.....E2
- ☐ ☐ ☐ Board & Batten..... Branz good practice guide
- ☐ ☐ ☑ Fiber Cement Sheet.....E2
- ☐ ☐ ☐ Weathertightness details.....E2
- ☐ ☐ ☐ Alternative.....specify reason

Head Flashing not to wall Wanz (Poly)

Bracing *NZS 3604* B1, B2, E3

Comments

N/A NO YES
- ☐ ☐ ☐ Subfloor bracing.....B1& *NZS 3604*
- ☐ ☐ ☑ Wall bracing..... B1 & *NZS 3604*
- ☐ ☐ ☑ Roof bracing..... B1& *NZS 3604*
- ☐ ☐ ☑ Bracing calculations..... B1 & *NZS 3604*
- ☐ ☐ ☑ Provide bracing plan layout..... B1 & *NZS 3604*
- ☐ ☐ ☐ Double top plate (if > 5m)..... B1 & *NZS 3604*
- ☐ ☐ ☐ Indicate dragon tie (if > 6.m)..... B1.& *NZS 3604*
- ☐ ☐ ☑ Diaphragm ceilings (if > 7.5m)..... B1 & *NZS 3604*
- ☐ ☐ ☑ Check for distribution ..... B1 & *NZS 3604*
- ☐ ☐ ☐ Alternative.....specify reason

Light & Ventilation *B1 G4, Clause 1.2 ; G4, clause 1.3* G7,G9 F2

Comments

General

- ☐ ☐ ☑ Vent 5%.....G4
- ☐ ☐ ☐ Light 10%.....G7
- ☐ ☐ ☑ Electrical.....G9
- ☐ ☐ ☐ Mechanical ventilation.....G4
- ☐ ☐ ☐ Exterior space for awareness.....G7

Glazing

- ☐ ☐ ☐ Safety glass.....F2 *NZS 4223,NZS 4211*
- ☐ ☐ ☐ Wind zone..... B1.& *NZS 3604*
- ☐ ☐ ☐ Alternative.....specify reason

Insulation *BRANZ Home Insulation Guide, NZS 4218, AS/NZS 2918*

Comments

- ☐ ☐ ☐ Floor H1
- ☐ ☐ ☑ Wall.....H1
- ☐ ☐ ☑ Roof.....H1
- ☐ ☐ ☑ Windows/glazing.....H1
- ☐ ☐ ☐ Alternative.....specify reason

Stairs / Landings / Handrails *D1,sec 4*

Comments

- ☐ ☐ ☐ Stair tread & risers.....D1
- ☐ ☐ ☐ Landing size.....D1
- ☐ ☐ ☐ Handrail.....D1
- ☐ ☐ ☐ Riser opening (min) where children.....D1
- ☐ ☐ ☐ Residential Accessibility.....D1
- ☐ ☐ ☐ Alternative.....specify reason

Stair type

Minor Private: Max rise 220mm/Min tread 220mm,
Secondary Private: Max rise 200mm/Min tread 250mm,
Main Private: Max rise 190mm/Min tread 280mm. (Main private includes exterior stairs)

Decks / Balconies / Barriers *D1, F4 & NZS 3604, Section6 & 7,*

Comments

- ☐ ☒ ☐ Barrier & deck fixing durability.....D1 B1 B2
- ☐ ☒ ☐ Top rails, balusters, bottom rails, palings.....D1 B1
- ☐ ☒ ☐ If Engineer then calculations required.....B1 B2
- ☐ ☐ ☐ Max 3m height or Engineer.....B1 B2
- ☐ ☒ ☐ Deck joist sizes, grade, treatment, span & spacing.....D1 B1 B2
- ☐ ☐ ☐ Piles & bearers the correct grade, treatment, size, spacing & span.....D1 B1 B2
- ☐ ☐ ☐ Slip resistance D1
- ☐ ☒ ☐ Appropriate waterproofing membrane..... B1 B2
- ☐ ☐ ☐ Stringer size & connections D1 B1 B2
- ☐ ☐ ☐ Thresholds.....D1 E2
- ☐ ☐ ☐ Alternative.....specify reason

Joists ok but

Cantilever floor joists out - back 2 · 25

Fire *(Residential) NZBC F7;Cdoc*

Comments

- ☐ ☐ ☑ Travel distances max 24m.....C3.15
- ☐ ☐ ☐ Smoke detectors.....F7
- ☐ ☐ ☑ Wood burners F7
- ☐ ☐ ☐ Garage fire wall details C7 (C7.10 C7.8)
- ☐ ☐ ☐ Alternative.....specify reason

X Flue height

Swimming Pool & Fencing *Fencing of Swimming Pools Act 1987'*

Comments

- ☐ ☐ ☐ Refer to Compliance for sign off
- ☐ ☐ ☐ Specific Engineering Design
- ☐ ☐ ☐ Proprietary system/design
- ☐ ☐ ☐ Section/construction
- ☐ ☐ ☐ Pool backwash discharging the sewer
- ☐ ☐ ☐ Fence height
- ☐ ☐ ☐ Gate(s) / door(s) open outward

Ambiguity / Contradictions

- ☐ ☐ ☐ Manufacturers Specs
- ☐ ☐ ☐ Engineer compared with Designer/Architect
- ☐ ☐ ☐ Other

Alternative Solutions

Record assessment, decision and reasons for decisions below. Has the designer substantiated why they believe the proposal complies with the building code? Is there a determination on a similar proposal? Has corroborative evidence been provided (peer review, appraisal or determination)? Include reference to comparison with acceptable solutions, other documents / standards / best practice guides / publications, expert opinion, determinations, in-service history, product certification, professional judgment, building code objectives. Refer BRANZ Bulletin # 456 (Dec 2004). List any conditions / communications / actions:

General

Comments

- ☐ ☐ ☑ Kitchen area.....G3/AS1
- ☐ ☐ ☑ Laundry..... *G2/AS1, cl 1.01&.2; E3/AS1 cl 3.1*

Effluent Disposal Systems

Comments

- ☑ ☐ ☐ Engineering Site Investigation
- ☑ ☐ ☐ Design Specification & Producer Statement

(The design criteria should include; Capacity based on bedroom numbers, Loading calculation, site evaluation, soil profile, site characteristics.)

Water Supplies

Comments

- ☐ ☐ ☑ G 12
- ☐ ☐ ☑ Town supply,
- ☑ ☐ ☐ Private scheme
- ☐ ☐ ☑ Type & location Council
- ☑ ☐ ☐ Alternative.....specify reason

Details on wet back / H.W.C's below wetback

Details of flow + return pipes from Solar panels to H.W.C

Sanitary Drainage

Comments

ORG?

- ☐ ☐ ☑ G13
- ☐ ☐ ☑ Layout
- ☑ ☐ ☐ Council availability or
- ☐ ☐ ☑ Septic tank design & calcs
- ☐ ☐ ☐ Registration/qualification T.B.A
- ☑ ☐ ☐ Alternative.....specify reason

Stormwater Drainage

Comments

- ☐ ☐ ☑ Layout
- ☑ ☐ ☐ Council availability
- ☐ ☐ ☐ Registration/qualification T.B.A
- ☐ ☐ ☐ Alternative.....specify reason

Sanitary Plumbing

Comments

- ☐ ☐ ☑ Layout
- ☑ ☐ ☐ Council availability
- ☐ ☐ ☐ Registration/qualification T.B.A
- ☑ ☐ ☐ Alternative.....specify reason

Date / Time	Dialogue Record List Further Information Requested – Record / Reference Communication: Phone / Email / letter / counter / fax
Date 20/4/09 Time	*State the content of discussion* !!!!! Letter sent + (emailed) Plumbing info requested H.W.C/wetback Simon
Date 22 Time	letter Sent + Email
Date 23 Time	Simon @ Architechrem contacted by phone and told letter ammended tanking system required + amendment sent post + Email
Date Time	
Date 24 Time 226	Telephoned tom 0212441643 left message to call me back
Date 24 Time 455	Spoke to tom re info outstanding all going well may be approved next week Sfx
Date 8-05 Time 10-40	Spoke to Simon re tanking — change from Mulsel plus to Brane approval SKeys.

Compliance Schedule – Sec 100 - 107: *(record if new / amended compliance schedule required, and attach copy of replica compliance schedule. Ensure that note is recorded on building consent that new / amended compliance schedule will be issued).*

Date:	

Change Of Use – Sec 114: *(record decisions and basis for decisions – confirm whether sec 115 applies)*

Date:	

Alteration to Existing Building – Sec 112: *(record decisions and basis for decisions – confirm whether sec 118 applies and if so, has it been complied with?). List conditions / communications / actions:*

Date:	

Hazards – Sec 71-74 : *(record decisions and basis for decisions – see under "site plan above already done")*

Note :- Refer to the associate code clause along side each prompt above for compliance or reason of decision	I am satisfied on reasonable grounds that the provisions of the Building Code are met and the
Plan checked yet Unsatisfactory (request for further information)	**Building consent may be granted (refer Bld Act Sec 49(1))**
	All previous Further Information Requests now satisfactory.
Signature, name & date	**Signature, name & date**
Bldg Shunt Nepen 220405	Bldg Shunt Nepen 12-05-09
Plumbing Simon Copp 20/4/2009	Plumbing Simo Copp 5/11/2009
Fire	Fire

Accessibility D1 ; NZS 4121

Comments

- ☐ ☐ ☐ Manifestation to windows
- ☐ ☐ ☐ Ramps gradient / total rise / up stand
- ☐ ☐ ☐ Corridor widths / spaces between doors/ lobbies etc
- ☐ ☐ ☐ 300mm wall length to handle sides of doors
- ☐ ☐ ☐ Public buildings / induction loops / reception areas / visual impairedness
- ☐ ☐ ☐ Fixed seating / arrangements
- ☐ ☐ ☐ Sound insulation

Fire report C1,C2, C3, C4

Comments

- ☐ ☐ ☐ Purpose group FHC
- ☐ ☐ ☐ Fire cell separation /use of building
- ☐ ☐ ☐ f- rating
- ☐ ☐ ☐ s- rating
- ☐ ☐ ☐ Occupancy numbers
- ☐ ☐ ☐ Means of escape
- ☐ ☐ ☐ Travel distances
- ☐ ☐ ☐ External walls/unprotected areas
- ☐ ☐ ☐ Fire resistance to supporting elements/floors/ walls
- ☐ ☐ ☐ Risks to/below escape routes
- ☐ ☐ ☐ Fire safety precautions
- ☐ ☐ ☐ SFI's / SDI's
- ☐ ☐ ☐ Alternatives
- ☐ ☐ ☐ Referal to DRU
- ☐ ☐ ☐ Alternative.....specify reason

Solid waste G15

Comments

- ☐ ☐ ☐ Waste bin area
- ☐ ☐ ☐ Environmental health referral
- ☐ ☐ ☐ Alternative.....specify reason

Hazardous Agents, Materials & substances F1 - F3

Comments

- ☐ ☐ ☐ Waste bin area
- ☐ ☐ ☐ Environmental health referral

Addenda to Form 436

(staff members may review each others work at any stage as an audit or at least one Audit every 2months)

Allocation of work to approvals officer outside current competency

Building Category	*Circle appropriate category* 0 1 2 3

1) Authorized by Team leader or delegate	Level of supervision reqd	Reason for decision
Name, Signature &date	Coaching Mentoring Peer review on completion	In training Vetting one level above competency Other
2) Approval Officer undertaking training	**Record of Learning**	**Decision**
Name, Signature & date Current competency level Category 0,1or 2		I am satisfied on reasonable grounds that the provisions of the Building Code are met and the building consent may be granted (refer Bld Act 49(1))
3) Coach/Mentor/Peer reviewer	**Training needs identified**	**Comments**
Name,Signature & date Current competency level Category 1,2 or 3		I am satisfied on reasonable grounds that the provisions of the Building Code are met and the building consent may be granted (refer Bld Act 49(1))

Allocation notes

- Categories of building are determined on receipt of application
- All applications are placed in processing shelves according to category
- Approvals staff are aware of their own competency level and have access to staff competency matrix
- Approval staff will select work from category range for which they are deemed competent
- Approvals staff may select, for training purpose, a consent 1 (one) category higher than their current competency for the purpose of increasing their skill level provided they gain approval from the Team Leader Building Consent Approvals. Once approval is given the Team Leader Building Consent Approvals will arrange for the appropriate supervision and final peer review.

Processing Check Sheet
for
Project Information Memorandum (PIM)

Property Address: 125 NIKAU PALM ROAD.
Legal Description: Lot: 4 **DP:** 82049
Building Project: NEW DWELLING
Building Consent/PIM Number: BC 090214P
Zone: RURAL (NIKAU VALLEY)

Items to check	Yes	No	Action reqd	Actioned	Date & Signature
Certificate of Title	✓		No action required.	—	
Easements	✓		No action required.	—	
Section 221	✓		Include copy of S221	Included on file.	
Section 72		✓	Advise Approvals Team of S72 reqd		
Existing Resource Consent	✓		Include copy RM970401. Attached.	—	
District Plan features		✓			
Designations		✓			COLIN BRIDGES
Heritage register		✓			
Flood hazards		✓			
Min floor level reqd		✓	Advise F.F.level		16-04-09
Other hazards		✓			
EQ faults		✓			
Services		✓			
ECO sites		✓			
Yards		✓	Neighbours approval for one yard encroachment		
HIRB		✓			
Maximum height		✓			
Site coverage		✓			
Earthworks		✓			
Permeable surface area		✓			
Onsite parking		✓			
DIF fees		✓	Calculate fees Paid at time of subdivision.		
Recourse Consent reqd		✓	Apply Section 37		

Decision: *(delete items that don't apply)*
Application complies and PIM can be issued.
PIM can be issued subject to section 37 Certificate
PIM is refused

P/D checked Simon Copp
24/4/2009

KAPITI COAST
DISTRICT COUNCIL

Project Information Memorandum No. 090214P

Building Project...

New Dwelling
125 Nikau Palm Road
PARAPARAUMU

FOR OFFICE USE ONLY

FEES		PIM Fee	$.....
	$.....		
	$.....	RECEIPT NO.	DATE .....
	$.....		
	$.....	INVOICE NO	DATE .....
	$.....		
	$.....	RECEIPT NO	DATE .....
SUBTOTAL	$.....		
Less Deposit Paid	$.....		
TOTAL	$.....		
GST INCLUDED	$.....		

PROJECT INFORMATION MEMORANDUM

Section 34, Building Act 2004

Building Consent Number:	**BC090214P**
Applicant Name:	**Architecture DM**
Applicant Address:	**17 Gear Street**
	PETONE
Application Date:	**2009-04-01**
Pim Decision Issued:	**2009-04-24**
Project:	**Excavation of site & construction of New Dwelling**
Intended Use:	**99**
Estimated Value:	**300000**
Legal:	**LOT 4 DP 82049**
Location:	**125 Nikau Palm Road, Paraparaumu**
Valuation No:	**1515007804**

This project information memorandum is confirmation that the proposed building work may be undertaken, subject to the provisions of the Building Act 2004, and any requirements of the building consent.

This project information memorandum includes:
___ Information identifying special features of the land concerned
___ Details of relevant utility systems
___ Details of authorisations which have been granted

Signed for and on behalf of the Council:

Name: Sarah Kershaw **Date:** 12 May 09

General

Use permitted:	Permitted activity
Resource Consent granted:	RM070401: Consent Notice on Title. Complies.
Designations on property:	None listed
Easements:	Right of way, services: Building is sited clear.
Site subject to inundation:	Not known to be
Coastal building line restriction:	N/A
Relocatable zone:	N/A
Minimum floor level: (50 year event)	N/A
Floor level: (100 year event)	N/A
Yard and height requirements:	Comply
Tree/building preservation:	None listed
Other comments:	Should a waahi tapu or other cultural site be unearthed during earthworks, the operator and/or owner shall: 1) Cease operations; 2) Inform local Iwi; 3) Inform the New Zealand Historic Places Trust (NZHPT) and apply for an appropriate authority is required; and 4) Take appropriate action, after discussion with NZHPT, Council and Tangata Whenua, to remedy damage and/or restore the site. NB: In accordance with the Historic Places Act 1983, where an archaeological site is present (or uncovered), authority from the NZHPT is required if the site is to be modified in anyway. All work to be carried out in accordance with Resource Consent RM970401 and the conditions of the Consent Notice registered against the certificate of title for the property.

Planning

Potential erosion:	Not known to be.

Potential avulsion:	Not known to be.
Potential subsidence:	Not known to be.
Potential slippage:	Not known to be.
Potential alluvion:	Not known to be.
Potential inundation:	Not known to be.
Presence of hazardous contaminants:	Not known to be.
Other features:	

Plumbing & Drainage

Sewer available / connected:	Not available
Water available / connected:	Available
Site plan of existing services: (if any)	Not supplied
Location of sewer lateral:	none
Location and size of water toby:	20mm restricted supply
Location of easements: (if any)	see the Planners comments
Location of public drains: (if any)	N/A
Stormwater disposal to:	confined to the lot/stream
Plumbing and drainage notes:	letter sent regarding a request for minor further information plumbing
Rain Water System:	No
Rain Water Size:	
Grey Water System:	No
Grey Water Manufacturer:	

KAPITI COAST
DISTRICT COUNCIL

KAPITI COAST DISTRICT COUNCIL

CONSENT NOTICE PURSUANT TO SECTION 221

OF THE RESOURCE MANAGEMENT ACT 1991

FOR THE DEPOSIT OF LAND TRANSFER PLANS 82049 & 82050

THE SUBDIVISION OF PT LOT 9 DP 2183 PT MUAUPOKO A2 SECT 2 SUBD 4 & 5, MUAUPOKO A2 SECT 2 SUBD 6, MUAUPOKO A9 AND B, AND PT SEC 6 & 7 BLK XIII KAITAWA S.D.

950421

MAHAKI HOLDINGS LTD
MAIN ROAD NORTH, PARAPARAUMU

TO: The District Land Registrar at Wellington

Pursuant to Section 221 (1) of the Resource Management Act 1991, the Kapiti Coast District Council hereby certifies that it has consented to the subdivision on the following conditions to be complied with on a continuing basis:

1. Lots 4, 5, 7, 8, 9 and 10 shall install Home Aeration Plants with disinfection by chlorination as the primary treatment device to prevent the possibility of contamination of the adjacent stream.

2. That Home Aeration Plants, Ecotanks and other equipment are to be cleaned and serviced in accordance with the manufacturer's specifications - refer to Tse Group report dated 10 May 1996 for on lot effluent disposal recommendations.

3. Any on site effluent disposal system equipped with a pump must have it inspected and serviced annually by a suitably qualified person.

4. Baffles or valves in distribution boxes must be alternated monthly.

5. Stormwater diversion drains around trenches or beds must be regularly cleaned out.

6. If the potable water is to be collected form an on-site bore, or from roof collection or by any other on-site method, then the Drinking Water Standards for New Zealand 1995 or its updated equivalent are to be complied with and the owners or owners is/are to maintain and monitor the supply in accordance with such standards.

7. For Lots 7 & 8, soil tests carried out on the site indicate that a satisfactory soil bearing pressure at a depth of 1 metre is suitable for the erection of residential buildings not requiring specific design in terms of NZS 3604 and related documents providing that the house site is located in the area shown on Tse Group Plan No. 103/01/2/1.

8. The dam within the balance area shall be monitored and maintained by the owners on an ongoing basis.

Dated at Paraparaumu this 22nd day of May 1996.

for GENERAL MANAGER

COMPUTER FREEHOLD REGISTER
UNDER LAND TRANSFER ACT 1952

Search Copy

R.W. Muir
Registrar-General
of Land

Identifier	**WN48D/201**
Land Registration District	**Wellington**
Date Issued	26 July 1996

Prior References
WN45B/819

Estate	Fee Simple
Area	2.2730 hectares more or less
Legal Description	Lot 4 Deposited Plan 82049
Proprietors	
Thomas Sinclair Roulston and Olga Roulston	

Interests

516880 Subject to reservations as to coal, gold and silver

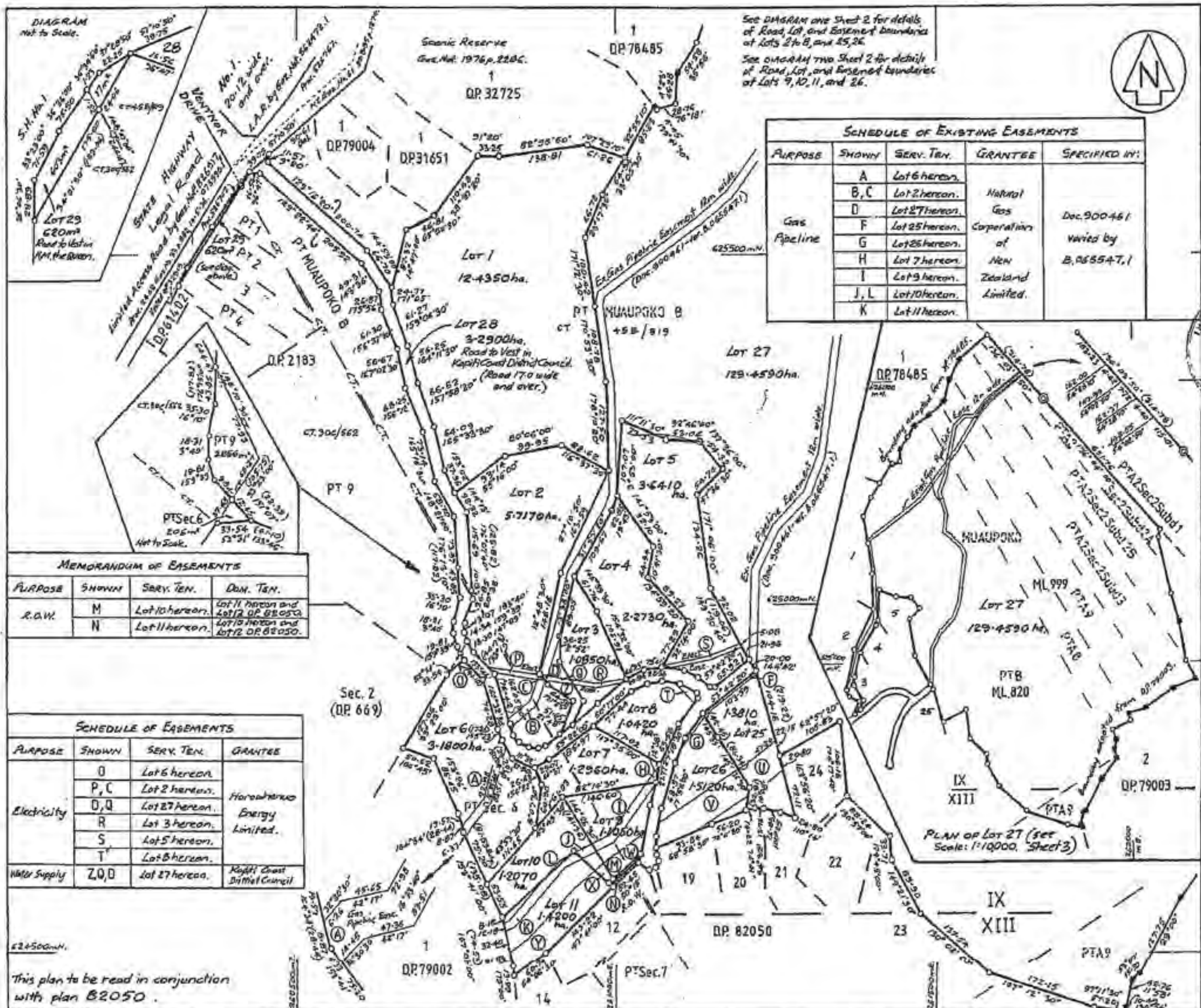
Appurtenant hereto are water supply rights specified in Easement Certificate B400853.7

B531004.4 Consent Notice pursuant to Section 221 Resource Management Act 1991 imposing ongoing conditions - 26.7.1996 at 12.34 pm

Land Covenant in Transfer B531004.12 - 26.7.1996 at 12.34 pm

Land Covenant in Transfer B727216.2 - 11.6.1999 at 9.59 am

Subject to an electricity and telecommunications right (in gross) over part marked L on DP 87177 in favour of Transpower New Zealand Limited created by Transfer B800861.3 - 6.9.2000 at 3.55 pm



See DIAGRAM one Sheet 2 for details of Road, Lot, and Easement boundaries at Lots 2 to 8, and 25, 26.

See DIAGRAM two Sheet 2 for details of Road, Lot, and Easement boundaries at Lots 9, 10, 11, and 26.

SCHEDULE OF EXISTING EASEMENTS

PURPOSE	SHOWN	SERV. TEN.	GRANTEE	SPECIFIED IN:
Gas Pipeline	A	Lot 6 hereon.	Natural Gas Corporation of New Zealand Limited.	Doc. 900461 varied by B.065547.1
	B, C	Lot 2 hereon.		
	D	Lot 27 hereon.		
	F	Lot 25 hereon.		
	G	Lot 26 hereon.		
	H	Lot 7 hereon.		
	I	Lot 9 hereon.		
	J, L	Lot 10 hereon.		
	K	Lot 11 hereon.		

MEMORANDUM OF EASEMENTS

PURPOSE	SHOWN	SERV. TEN.	DOM. TEN.
R.O.W.	M	Lot 10 hereon.	Lot 11 hereon and Lot 12 DP 82050.
	N	Lot 11 hereon.	Lot 10 hereon and Lot 12 DP 82050.

SCHEDULE OF EASEMENTS

PURPOSE	SHOWN	SERV. TEN.	GRANTEE
Electricity	O	Lot 6 hereon.	Horowhenua Energy Limited.
	P, C	Lot 2 hereon.	
	D, Q	Lot 27 hereon.	
	R	Lot 3 hereon.	
	S	Lot 5 hereon.	
	T	Lot 8 hereon.	
Water Supply	Z, Q, D	Lot 27 hereon.	Kapiti Coast District Council

This plan to be read in conjunction with plan 82050.

Approvals

[signature] Director

[signature] Director

Approved pursuant to Section 223 of the Resource Management Act 1991 on the 17th day of April 1996. Subject to the granting or reserving of the easements set out in the Memorandum hereon.
The Common Seal of the Kapiti Coast District Council is affixed hereto in the presence of:

THE COMMON SEAL OF THE KAPITI COAST DISTRICT COUNCIL

[signature] Mayor.

[signature] General Manager.

NEW C.T. ALLOCATED:

LOT	C.T.	LOT	C.T.	LOT	C.T.
1	48D/198	6	48D/203	11	48D/208
2	48D/199	7	48D/204	25	48D/209
3	48D/200	8	48D/205	26	48D/210
4	48D/201	9	48D/206	27	48D/211
5	48D/202	10	48D/207	Bal. 30C/562	48D/214
				Bal. 458/819	48D/215

Total Area 170.1050 ha.

Comprised in C.T. 30C/562 (Pt.) and 458/819 (Pt.)

I, ROBERT GRAHAM LONGLEY Registered Surveyor and holder of an annual practising certificate (or who may act as a registered surveyor pursuant to section 25 of the Survey Act 1986) hereby certify that this plan has been made from surveys executed by me or under my directions, that both plan and survey are correct and have been made in accordance with the Survey Regulations 1972 or any regulations made in substitution thereof.
Dated at Otaki this 21st day of March 1996 Signature [signature]

Field Book 6268 p. 6-39 Traverse Book 548 p. 131-157
Reference Plans DP's 2183, 31651, 32725, 32919, 61402, 62221, 66232, 66223, 78485, 79002, 79003, 79004, SO's 35068, 34790, 34901, ML's 820, 999, 1592.
Examined H. Khan Correct

Approved as to Survey
3.6.96 [signature] Chief Surveyor

Deposited this [illegible] day of July 1996
[signature] District Land Registrar

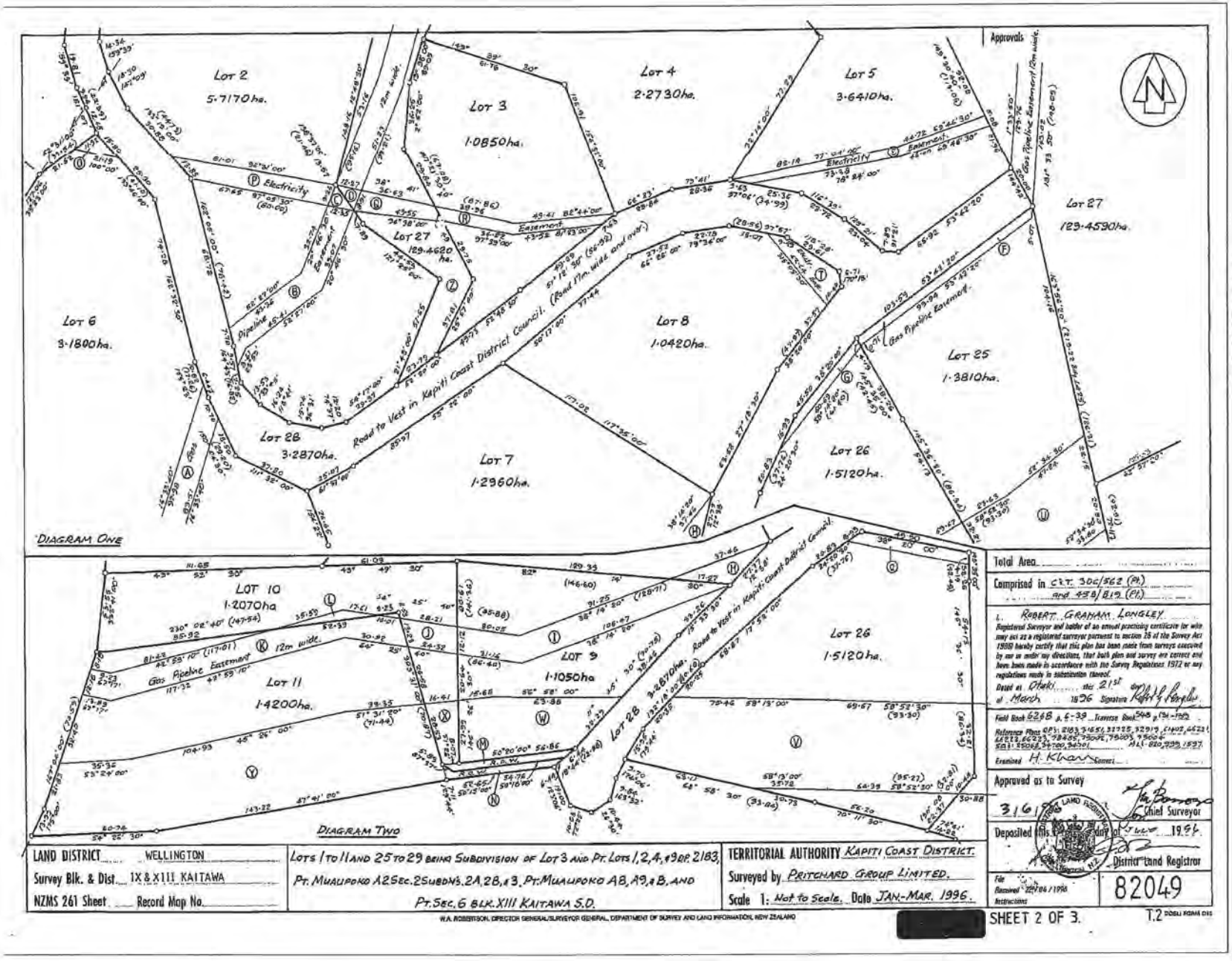
File
Received 22/04/1996
Instructions

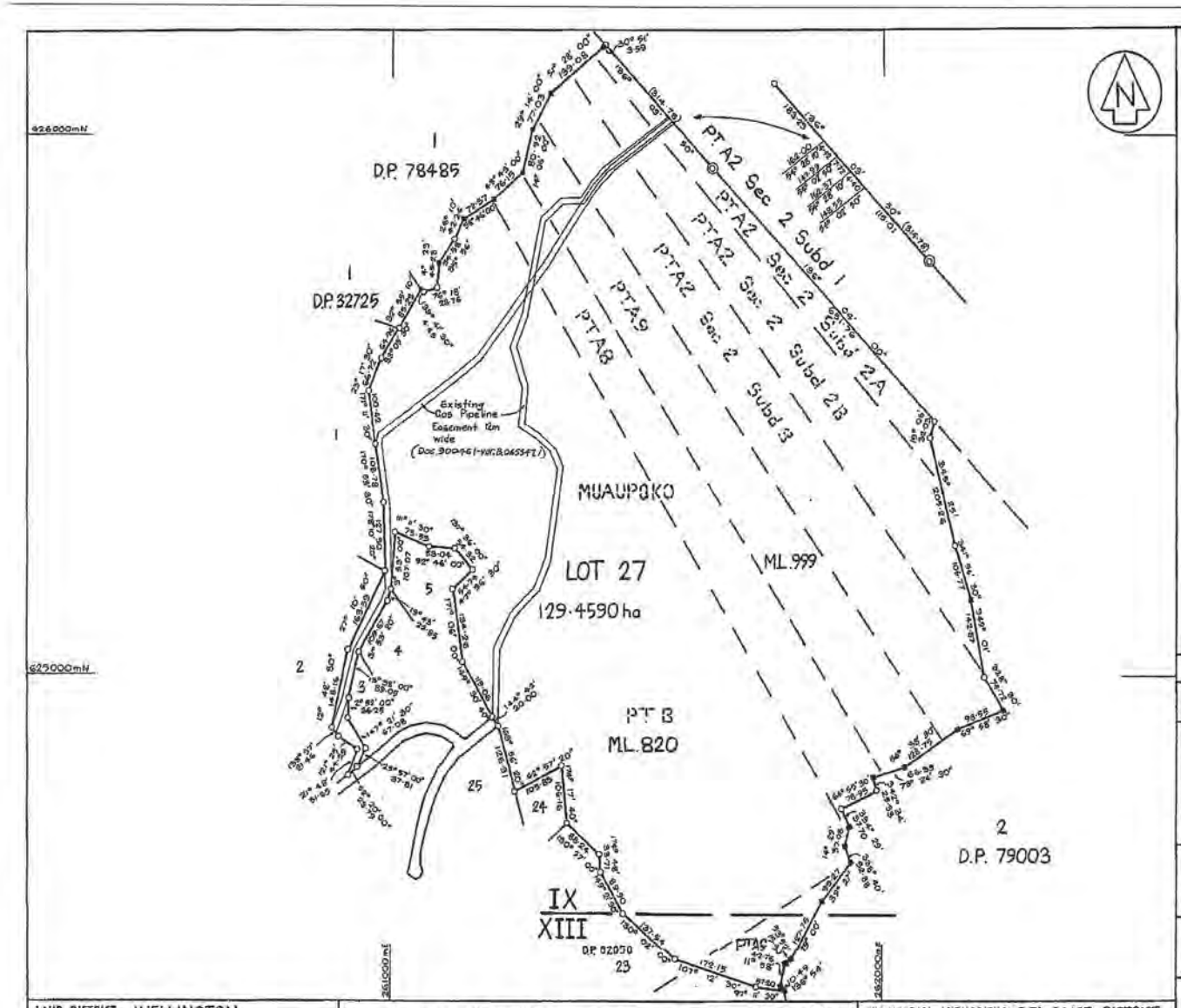
82049

LAND DISTRICT WELLINGTON	LOTS 1 TO 11 AND 25 TO 29 BEING SUBDIVISION OF LOT 3 AND PT. LOTS 1, 2, 4, & 9 DP 2183, PT. MUAUPOKO A2 SEC. 2 SUBDN'S. 2A, 2B, & 3, PT. MUAUPOKO AB, A9, & B, AND PT. SEC. 6 BLK. XIII KAITAWA S.D.
Survey Blk. & Dist. IX & XIII KAITAWA	TERRITORIAL AUTHORITY KAPITI COAST DISTRICT.
NZMS 261 Sheet Record Map No.	Surveyed by PRITCHARD GROUP LIMITED. Scale 1:4000 Date JAN.-MAR. 1996.

W.A. ROBERTSON, DIRECTOR GENERAL/SURVEYOR GENERAL, DEPARTMENT OF SURVEY AND LAND INFORMATION, NEW ZEALAND

[redacted] SHEET 1 OF 3 T.1 DOSLI FORM D15


Approvals
Lot 2
5·7170ha.
Lot 3
1·0850ha.
Lot 4
2·2730ha.
Lot 5
3·6410ha.
Lot 27
129·4590ha.
Lot 27
129·4620ha.
Lot 6
3·1800ha.
Lot 8
1·0420ha.
Lot 25
1·3810ha.
Lot 28
3·2870ha.
Lot 7
1·2960ha.
Lot 26
1·5120ha.
Road to Vest in Kapiti Coast District Council. (Road 17m. wide and over.)
Gas Pipeline Easement
Pipeline
Electricity
Easement
DIAGRAM ONE
Lot 10
1·2070ha
Lot 11
1·4200ha.
Lot 9
1·1050ha
Lot 28
3·2870ha.
Lot 26
1·5120ha.
12m wide.
Gas Pipeline Easement
Road to Vest in Kapiti Coast District Council.
DIAGRAM TWO
Total Area
Comprised in C.T. 30C/562 (Pt.) and 458/819 (Pt.)
I, ROBERT GRAHAM LONGLEY
Registered Surveyor and holder of an annual practising certificate for who may act as a registered surveyor pursuant to section 28 of the Survey Act 1986 hereby certify that this plan has been made from surveys executed by me or under my directions, that both plan and survey are correct and have been made in accordance with the Survey Regulations 1972 or any regulations made in substitution thereof
Dated at Otaki this 21st day of March 1996 Signature
Field Book 6268 p. 6-39 Traverse Book 548 p. (Pt.-192)
Examined H. Kloan Counsel
Approved as to Survey
Chief Surveyor
Deposited this day of 19
District Land Registrar
82049
LAND DISTRICT WELLINGTON
Survey Blk. & Dist. IX & XIII KAITAWA
NZMS 261 Sheet Record Map No.
Lots 1 to 11 and 25 to 29 being Subdivision of Lot 3 and Pt. Lots 1, 2, 4, 9 DP. 2183, Pt. Muaupoko A2 Sec. 2 Subdns. 2A, 2B, & 3, Pt. Muaupoko A8, A9, & B, and Pt. Sec. 6 Blk. XIII Kaitawa S.D.
TERRITORIAL AUTHORITY Kapiti Coast District.
Surveyed by Pritchard Group Limited.
Scale 1: Not to Scale. Date JAN.-MAR. 1996.
W.A. ROBERTSON, DIRECTOR GENERAL/SURVEYOR GENERAL, DEPARTMENT OF SURVEY AND LAND INFORMATION, NEW ZEALAND
SHEET 2 OF 3.
T.2



Approvals

Total Area

Comprised in C/T. 30C/562 (PT) and 45B/819 (PT)

I, ROBERT GRAHAM LONGLEY

Registered Surveyor and holder of an unlimited practising certificate (or who may act as a registered surveyor pursuant to section 25 of the Survey Act 1986) hereby certify that this plan has been made from surveys executed by me or under my directions, that both plan and survey are correct and have been made in accordance with the Survey Regulations 1972 or any regulations made in substitution thereof.

Dated at Otaki this 24th day of May 1996 Signature

Field Book 6268 p. 6-39 Traverse Book 548 p. 154-155

Reference Plans DP's 2183, 31611, 32725, 32978, 61402, 66221, 66222, 66225, 78485, 79002, 79003, 79004, 80.5, 25068, 34700, 34910, [illegible] 820, 999, 1527

Examined H. Khan Correct

Approved as to Survey

3 / 7 / 1996 Chief Surveyor

Deposited this day of July 1996 District Land Registrar

File Received Instructions

82049

LAND DISTRICT WELLINGTON	LOTS 1 TO 11 AND 25 TO 29 BEING SUBDIVISION OF LOT 3 AND PT LOTS	TERRITORIAL AUTHORITY KAPITI COAST DISTRICT
Survey Blk. & Dist IX & XIII KAITAWA	1, 2, 4 & 9 DP 2183 PT MUAUPOKO A2 SEC 2 SUB'NS. 2A, 2B & 3, PT MUAUPOKO	Surveyed by PRITCHARD GROUP LTD
NZMS 261 Sheet Record Map No.	A8, A9 & B AND PT. SEC. 6 BLK. XIII KAITAWA S.D.	Scale 1:5000 Date JAN-MAR. 1996

W.A. ROBERTSON, DIRECTOR GENERAL/SURVEYOR GENERAL, DEPARTMENT OF SURVEY AND LAND INFORMATION, NEW ZEALAND

SHEET 3 OF 3 T.3 DOSLI FORM 015

KAPITI COAST
DISTRICT COUNCIL

DEPARTMENT	TICK FOR REFERRAL	COMMENTS	APPROVING OFFICER DATE
Planning			
Plumbing and Drainage			
Building	✓	03/02/10	
Fire Design			
Compliance Schedule			
Structural			
Hazardous Substances			
Environmental Health			

NOTES:

Amended BC Application

Building Consent No. 090214A

Building Project. Change Proxical to Sika Rainlite in Balcony areas 125 Nikau palm

CONSENT DATA INPUT REQUIREMENTS

REQUIRED INSPECTIONS									
	Foundation/Piles	32		Lapse and cancellation after 12mths of consent	23		Installation of solid fuel appliance (wood burner) comply and secured
	Block	2		Engineer design specific components	23A		Second hand wood burner certified
	Pre-Slab (Plumbing)	3		Foundations to solid bearing of 200mm	25		Contractor to leave site clean and clear
	Pre-Slab (Building)	4		NZS3604 as acceptable solution in terms of NZ Building Code	30		To comply with Food Hygiene Regulations 1974
	Sub-Floor	6		Not approved as Habitable Room	31		As in CCZ, all fixings need to be stainless steel
	Drainage	9		Note and comply with all endorsements on approved plans	33		Approval only given for relocation purposes
	Pre-Wrap	10		Names and Registration of plumber and drain-layer required	34		If cladding to have pre-finished colour coating, to be appropriate for coastal conditions
	Pre-Clad	11		Concealed soil and TV pipes and gas flues only allowed in ducts or minimum framed	38		Window sashes on upper levels less than 760mm above floor to have stays fixed
	Weathertightness	12		Hot & Cold water pipes tested to 1500kPa	39		Construction of playground to comply with NZS5828
	Pre-lining (Building)	13		Roof stormwater to be connected to existing	40		Fencing, gates, doors directly leading to swimming pool to comply with Pool Act 1987
	Pre-lining (Plumbing)	14		Copper water pipes not permitted	43		Textured systems should be applied by licensed, trained applicators – supply warranty
	Wet areas - membrane	15		Owner/builder to ensure prop foundation height will allow satisfactory connection	44		Exterior cladding system to be completed and inspected prior to internal lining
	Post Lining	21		Minimum FFL to comply with NZS3604			
	Brick Veneer						
	Retaining Wall						
	Final (Dwelling)						
	Final (Commercial &Multi-resd)						

STANDARD CONSENT CONDITIONS		
	37	
	72	
	80	

NON-STANDARD ADDENDA

GST 51-860-608

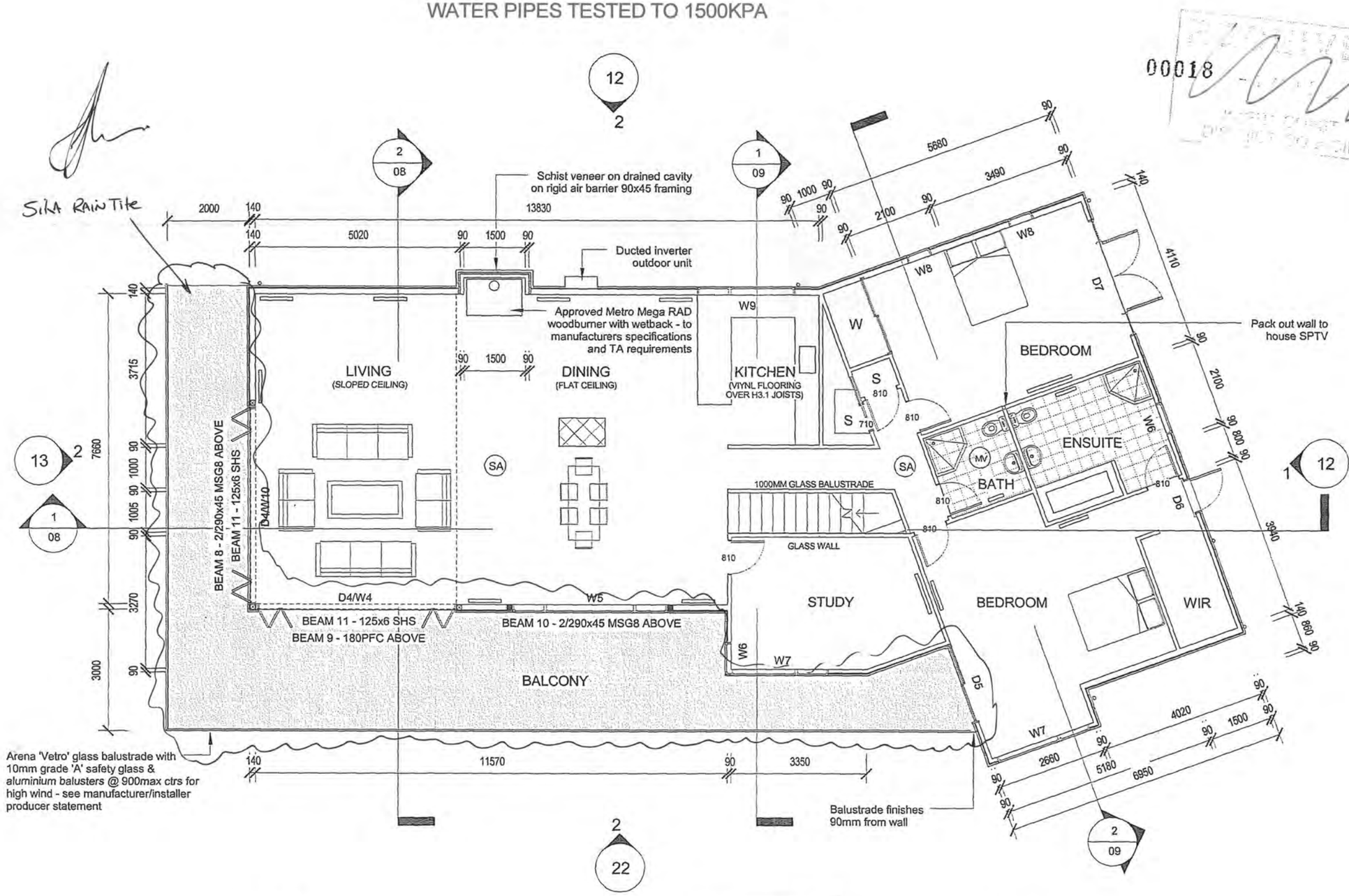
Received with thanks by 10/01
KAPITI COAST DISTRICT COUNCIL

11-01-10 15:54 Receipt no.327034

DR BC090214A
T & O ROULSTON 184.00-
T & O Roulston::28 Stellin Street:Avalo
CQ EFT
T & O Roulston 184.00

PRELINE PLUMBING INSPECTION REQUIRED

WATER PIPES TESTED TO 1500KPA



LEVEL 2

1 : 100

RECEIVED
11 JAN 2010
KAPITI COAST
DISTRICT COUNCIL

SA = SMOKE ALARM

MV = MECHANICAL VENTILATION

= ALUMINIUM FARAL LINEAL 80 RADIATORS

= HI-COP 3.61 FUJITSU LOW PROFILE DUCTED INVERTER EMBEDDED IN CEILING

= 2/90x45 MSG8 UNDERSTUDS

= 125x6 SHS COLUMNS

RECEIVED
00018
KAPITI COAST DISTRICT COUNCIL

ROULSTON RESIDENCE

125 NIKAU PALM ROAD
PARAPARAUMU

REVISIONS:

Rev:	Description:	Date:

GENERAL NOTES:

Check and confirm all dimensions prior to commencing any work on-site.
Use stated dimensions in preference to scaled.
If in doubt ASK.
Drawings at a larger scale take precedence over those drawn at a smaller scale.
Site measure all openings/spaces for items manufactured off-site.
Notes on one plan and not necessarily on other drawings are applicable to all drawings.
Any conflicts on the documents are to be notified to the designer prior commencing work.

IF IT ISN'T DIMENSIONED - DO NOT SCAL

UPPER FLOOR PLAN

06

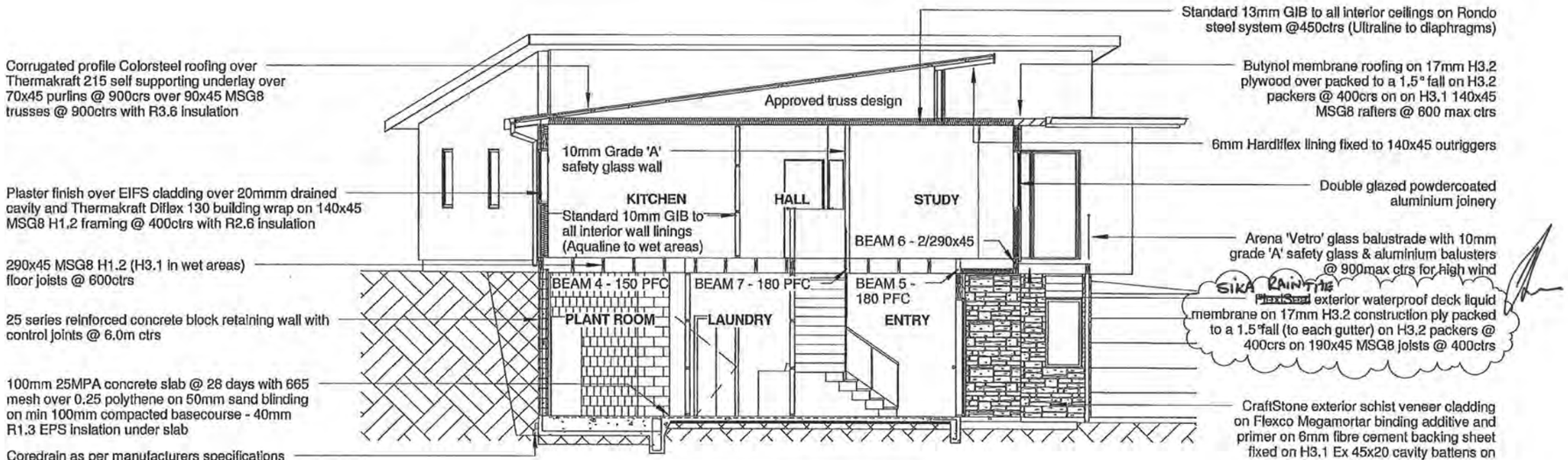
DATE: ~~26 MAR 2009~~ 11 Jan 2010
SCALE: 1 : 100 @
JOB NUMBER: NA
DRAWN BY: S JOHNSON
DESIGN BY: Designer

ARCHITECTURE DM

17 GEAR ST
PETONE

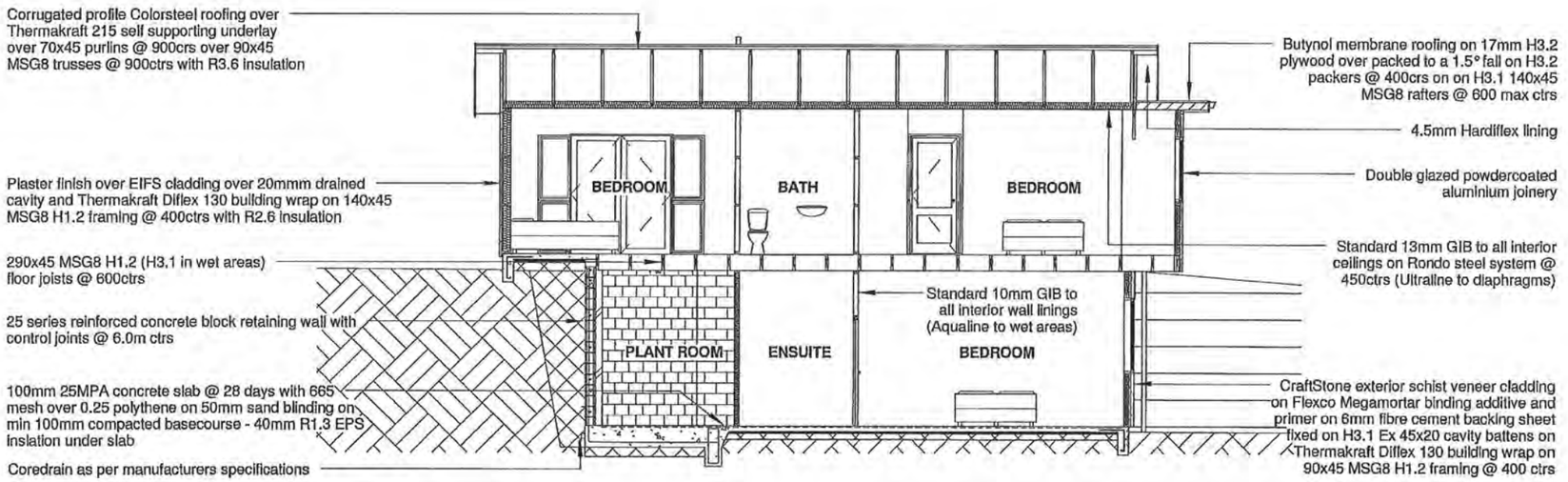
P (04) 568 8468
F (04) 568 8468
M 027 452 4670
E dean@architecturedm.co.r

A D | N Z
ARCHITECTURAL DESIGNERS N



Section 3

1 : 100



Section 4

1 : 100

NOTE: All beams are engineered design - please refer to engineers documentation for all calculations and connection/fixing details

ROULSTON RESIDENCE

125 NIKAU PALM ROAD
PARAPARAUMU

REVISIONS:

Rev:	Description:	Date:
-	Canterlevered joist size altered	
-	Balcony membrane changed	

GENERAL NOTES:

Check and confirm all dimensions prior to commencing any work on-site.
Use stated dimensions in preference to scaled.
If in doubt ASK.
Drawings at a larger scale take precedence over those drawn at a smaller scale.
Site measure all openings/spaces for items manufactured off-site.
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Any conflicts on the documents are to be notified to the designer prior to commencing work.

IF IT ISN'T DIMENSIONED - DO NOT SCALE!

SECTIONS

09

DATE: ~~5 MAY 2009~~ 11-Jan 2010
SCALE: 1 : 100 @A3
JOB NUMBER: NA
DRAWN BY: S JOHNSON
DESIGN BY: Designer

ARCHITECTURE DM

17 GEAR ST
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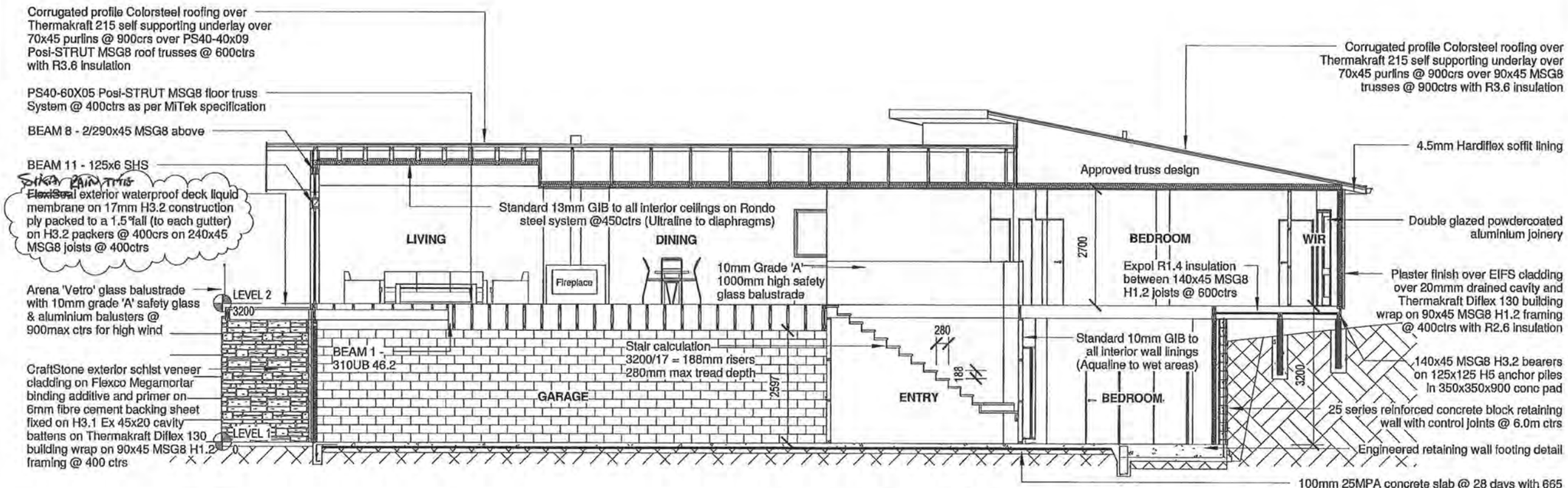
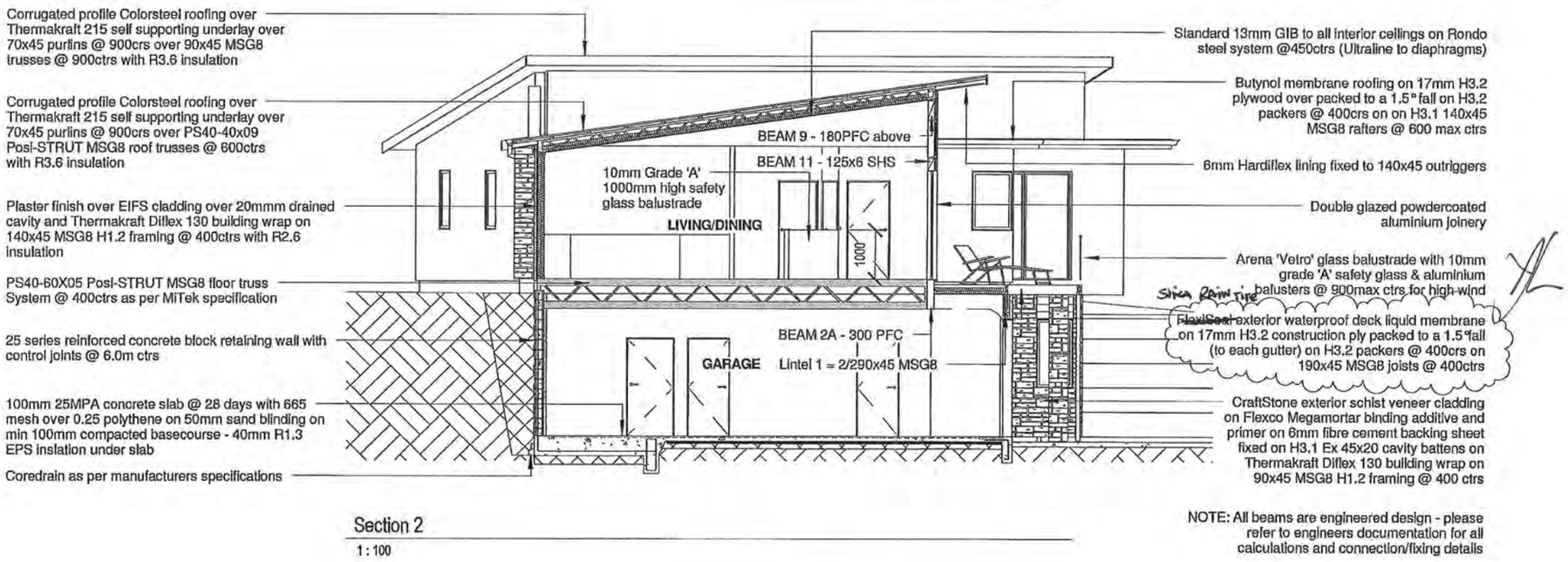
E dean@architecturedm.co.nz



Section 1

1 : 100



Section 2

1 : 100

NOTE: All beams are engineered design - please refer to engineers documentation for all calculations and connection/fixing details

ROULSTON RESIDENCE

125 NIKAU PALM ROAD
PARAPARAUMU

REVISIONS:

Rev:	Description:	Date:
	- Canterlevered joist size altered - Balcony membrane changed	

GENERAL NOTES:

Check and confirm all dimensions prior to commencing any work on-site.
Use stated dimensions in preference to scaled.
If in doubt ASK.
Drawings at a larger scale take precedence over those drawn at a smaller scale.
Site measure all openings/spaces for items manufactured off-site.
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Any conflicts on the documents are to be notified to the designer prior to commencing work.

IF IT ISN'T DIMENSIONED - **DO NOT SCALE!**

SECTIONS

08

DATE:	~~5 MAY 2009~~ 11-Jan 2010
SCALE:	1 : 100 @A3
JOB NUMBER:	NA
DRAWN BY:	S JOHNSON
DESIGN BY:	Designer

ARCHITECTURE DM

17 GEAR ST
PETONE

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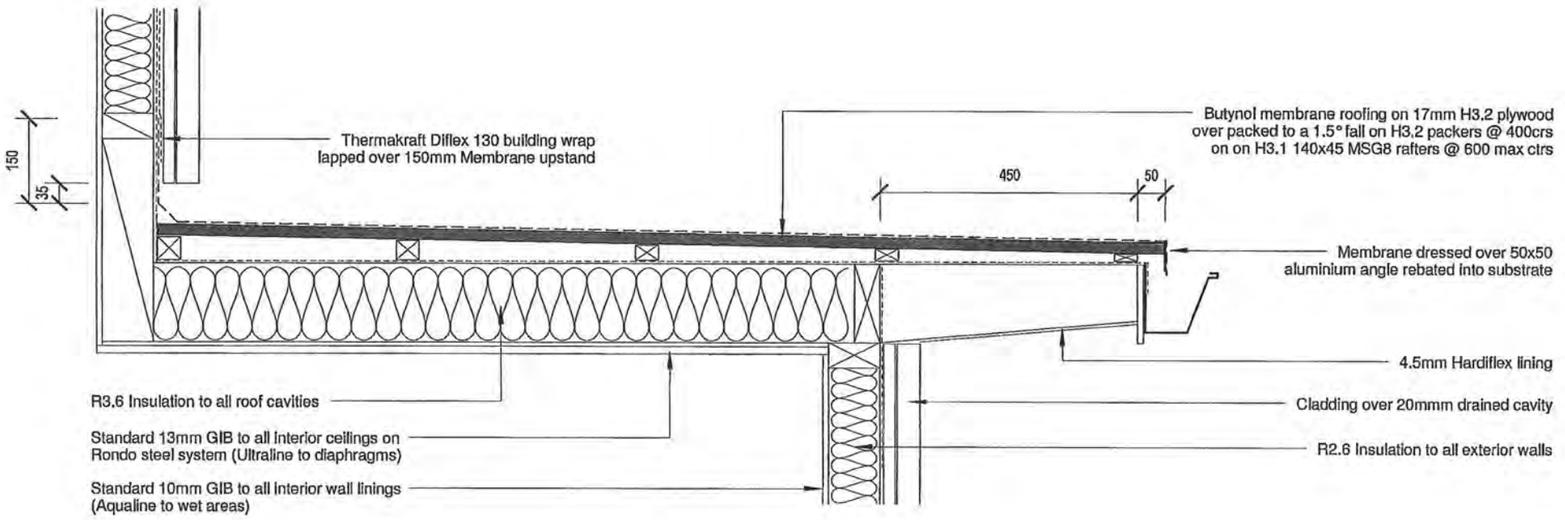
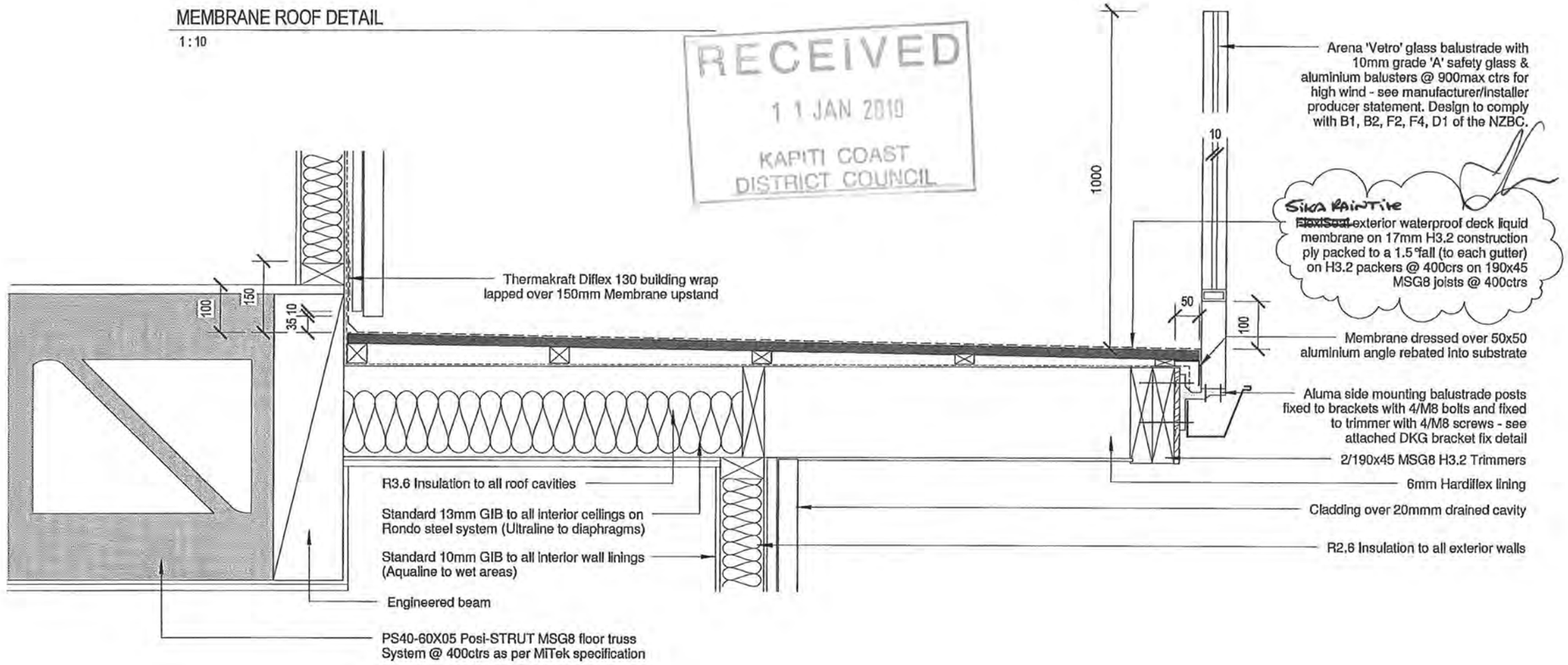
E dean@architecturedm.co.nz



MEMBRANE ROOF DETAIL

1 : 10



MEMBRANE DECK DETAIL

1 : 10

ROULSTON RESIDENCE

125 NIKAU PALM ROAD
PARAPARAUMU

REVISIONS:

Rev:	Description:	Date:
	- Canterlevered joist size altered - Balcony membrane changed	

GENERAL NOTES:

Check and confirm all dimensions prior to commencing any work on-site.
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Any conflicts on the documents are to be notified to the designer prior to commencing work.

IF IT ISN'T DIMENSIONED - **DO NOT SCALE!**

CONSTRUCTION DETAILS

19

DATE: ~~5 MAY 2009~~ 11 Jan - 2010
SCALE: 1 : 10 @A3
JOB NUMBER: NA
DRAWN BY: S JOHNSON
DESIGN BY: Designer

ARCHITECTURE DM

17 GEAR ST
PETONE

P (04) 568 8468
F (04) 568 8468
M 027 452 4670
E dean@architecturedm.co.nz

Warranty

Warranty Number:	**Draft Warranty no CW 1807**
Date issued	**TBA**
Issued to:	**Tom Roulston**
Project Name:	**Nikau Valley project**
Project Address:	**Nikau Valley, Paraparaumu**
Product:	**Sika Raintite**
Original Coating Colour(s):	**Grey**
Completion Date:	**TBA**
Approved Applicator:	**TBA**
Total Area:	**85 m2**

1. Sika (Sika) Limited ("Sika") hereby warrants that the Sika Raintite ("The Product") supplied for use on the above project will conform with the technical data detailed on the attached Sika datasheet (together "the Datasheets") for a period of 15 years from the date of application.

2. This Warranty is provided on the basis that the Product is stored, transported, used, Installed, applied and maintained in strict accordance with the instructions contained in the Datasheets, and any other written instructions that may be provided by Sika, and that the Project is used within its stated shelf life. Failure to comply with such instructions or failure to use the Product prior to the expiry date of the Product will invalidate this Warranty.

3. In the event that it is proved to the complete satisfaction of Sika that the product does not conform with the technical data detailed on the Datasheets, Sika will, on request made in writing to the Head Office of Sika, at the sole and absolute discretion of Sika either:

   (a) Supply free of charge such quantities of the Product that is proved not to so conform to replace that originally supplied; or
   (b) Pay an account equal to the replacement value of the Product that is proved not to so conform multiplied by the unexpired warranty period divided by the warranty period, such adjustment to be calculated on the date of payment. Any amount calculated by Sika will be deemed correct in the absence of Manifest error.

Construction

Sika RainTite (au)

Liquid acrylic waterproofing membrane

Positioning

Description

Sika RainTite (au) is a water based elastomeric waterproof liquid membrane for waterproofing external and internal areas in conjunction with the Architextures coatings and claddings.

Use

Sika RainTite (au) is suitable for application to most common building substrates including concrete, masonry, fibre cement, treated plywood, and timber. Has been tested to CSIRO to **AS 3740 - 2004 "Waterproofing of wet areas within residential buildings"**

Sika RainTite (au) can be used as a waterproofing membrane and decorative coating on most building surfaces including:

- Liquid flashings for the Sika Architextures coating / cladding range
- Parapet cappings (concrete and masonry)
- Window reveals and recesses prior to installing windows (concrete and masonry)

Advantages

- Non toxic, water based acrylic, free of solvents.
- Accommodates movement and minor cracking of substrates.
- UV stable.
- One component liquid readily applied.
- Colour – grey only
- Approved in accordance with **AS 4858:2004 "Wet Area Membranes".**

Product Data

Colour:	Grey
Storage & shelf life:	Stored in the original sealed packaging, in dry conditions away from direct sunlight, this product will keep for at least twelve (12) months.
Packaging:	15 litre pails

Technical Data

Specific gravity:	1.2 kg / litre
Solids Content:	51%
Drying times:	Tack free: 1.5 hours
(20°C, 50% RH)	Recoat: 3 – 4 hours
	Fully cured: 7 days
VOC	14.4gms / 1 litre (1.2% by weight)
Application temperatures:	Ambient: 5°C to 40°C
	Substrate: 5°C to 40°C
Consumption:	0.3 to 0.5 litres/m² (per coat)
No. of coats:	3 coats minimum
Elongation at break:	312% (AS4858) Class III (High Extensibility)
Moisture vapour transfer:	~4.2 g/m² /24 hrs
Chemical resistance:	Resistant to a wide range of chemicals and solvents

Application Conditions
Instructions for use

Surface Preparation	Remove dirt, dust, oil, grease and all other contaminants from the surface. Surface irregularities should be ground or sanded to remove protrusions or filled using Sika MonoTop repair mortars or Sikadur epoxy repair mortars. A polyurethane joint sealant (Sikaflex Construction) should be used to form a 10mm fillet at corners, or to fill chased out movement cracks and construction joints. All substrates to receive the Sika Raintite (au) are to be structurally sound and stable and be free from excessive deflection or movement.
Priming	A priming coat must be used on all substrates as part of the surface preparation. Prime timber and plywood using Sika Primer MB. Prime concrete and fibre cement using Primer S or Primer W. For all other substrates and further information on priming consult Sika (NZ) Ltd Technical Services.
Application	Sika RainTite (au) can be applied by brush, roller or spray. When brushing or rolling, lay the material out onto the surface. Apply 2 to 3 coats of Sika RainTite (au), plus the primer coat. Observe recommended dry times between coats.
Reinforcement	Sika fabric reinforcement is recommended as it provides strong support against substrate or cracking movement and protects the membrane against rupture. Sika fabric reinforcement must be used where the SikaTite (au) membrane is used over joints, junctions or cracks in the substrate or areas subject to flexing or vibration. Approved Sika fabrics include 300gsm chopped strand fiberglass mat, 9oz woven glass cloth or Dekweb Mesh. When using the Sika fabric reinforcement, embed the cloth into the first coat of Sika RainTite (au) whilst it is still wet. Roll the fabric using an approved laminating roller to ensure total "wet out" of the fabric. Apply a second or third coat of Sika RainTite (au) as required. **<u>Overcoating</u>** Sika RainTite (au) can be overcoated using Sika Architextures Basecoats or Glazes.
Cleaning	All tools and equipment can be cleaned with water immediately after use. Hardened material can only be removed mechanically.
Notes	All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.
Local Restrictions	Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

Health & Safety Instructions

Protective Measures

- To avoid rare allergic reactions, we recommend the use of protective gloves. Change soiled work clothes and wash hands before breaks and after finishing work.
- Local regulations as well as health and safety advice on packaging labels must be observed.
- For further information refer to the Sika Material Safety Data Sheet which is available on request.
- If in doubt always follow the directions given on the pack or label.

Construction

Important Notes

- Residues of material must be removed according to local regulations. Fully cured material can be disposed of as household waste under agreement with the responsible local authorities.
- Detailed health and safety information as well as detailed precautionary measures e.g. physical, toxicological and ecological data can be obtained from the Safety Data Sheet.

Legal Notes

Sika (NZ) Ltd
PO Box 19192
Avondale
Auckland 1746
New Zealand

Phone: 0800 SIKA NZ 0800 745 269
Fax: 0800 SIKA FAX 0800 745 232
Email: info@nz.sika.com www.sika.co.nz

Construction

Sikaflex® Construction

Flexible sealant for porous substrates

Positioning

Description

Sikaflex Construction is a one component polyurethane based joint sealant. It cures by reacting with atmospheric moisture to produce a permanently elastomeric material that has excellent long term durability properties.

Uses

Sikaflex Construction is especially suited to, and has been designed primarily for, use on porous substrates. It is ideal for use as a flexible joint sealant for exterior building facade applications such as:

- Joints between precast concrete panels.
- Joints between natural stone e.g. granite/marble.
- Sealing around timber joinery.
- Joints between masonry / brickwork.
- Sealing pipes or other protrusions.

Advantages

- One component, ready to use.
- Excellent long-term weathering and aging properties.
- Non- sag in vertical and overhead joints.
- Excellent adhesion to many substrates even without the use of a primer.
- Short skinning time, fast curing.
- Can be over-painted (preliminary tests recommended).
- Excellent workability, easy to use.

Tests
Approvals / Standards

- Satisfies the durability requirements of the New Zealand Building Code.
- ISO 11600 Classification F 25HM / F 20LM.

Product Data

Type: Moisture curing polyurethane prepolymer.

Packaging: Available in 600 ml unipac foil sausages (20 per carton) in Concrete Grey only.

Storage & Shelf Life: Twelve (12) months shelf life from date of production when stored in unopened original packaging in cool dry conditions between 10°C and 25°C.

Technical Data

Density:	1.4 kg/litre depending on colour.
Service temperature:	Dry = -40°C to 70°C Wet = up to 40°C (temporary up to 50°C).
Application temperature:	+5°C to +40°C (substrate and ambient).
Shore A hardness:	~ 25 after 28 days (at +23°C, 50% RH) (DIN 53 505).
Elastic recovery:	> 70% (DIN EN ISO 7389B)
E-Modulus:	~ 0.4 MPa at 100% elongation (+23°C, 50% RH) (DIN 52 455)
Elongation at break:	> 700% (DIN 53 504)
Tensile strength at break:	> 1.0 MPa (DIN 53 455)
Movement capacity:	± 25% of joint width (expansion - contraction)
Skinning time:	~ 60 minutes (at +23°C, 50% RH) (Subject to ambient conditions)
Cure rate:	1 mm per day (at +23°C, 50% RH) (subject to ambient conditions)

Joint Design

Precast Concrete Facade Joints:

Joint Spacing (m)	2	2 - 3.5	3.5 - 5.0	5.0 - 6.5	6.5 - 8.0
Joint Width (mm)	10	15	20	25	30
Joint Depth (mm)	8	10	12	15	15

Joints for General Use:

Joints up to 10 mm wide: Width : Depth ratio = 1 : 1.
Joints between 10mm and 20mm wide: Joint dimension = width x 10mm deep.
Joints over 20mm wide: Width : Depth ratio = 2 : 1.
Minimum joint depth = 8 mm.
Minimum joint width = 8 mm.

Application Conditions

Surface Preparation	• All surfaces must be clean, dry and free from any loosely adhering particles or surface contaminants such as dirt, dust, oil, grease, etc.
Backing Rod/ Bond Breaker	• In open based joints the correct depth should be established by inserting a Sika PEF Backing Rod of a suitable dimension. (Refer to **PEF Rod** data sheet). • If the joint has a solid, formed base it is essential to apply a bondbreaker tape to this surface in order to prevent back adhesion. This will then allow the sealant unrestrained movement throughout the depth of the joint.
Priming	• Sikaflex Construction generally has excellent adhesion to most clean, sound, porous substrates. However, in areas of critical, high performance application such as multi storey building work, high stress joints and extreme weather exposure we always suggest the use of substrate primers and cleaners for optimum adhesion. • For *porous substrates,* e.g. concrete, masonry, brickwork, hardiflex, timber etc, use **Sika Primer No. 3N**. • When using primers it is essential that they have fully cured before applying Sikaflex Construction. • For further information refer to **Sika Primer** data sheet or contact the Sika Technical Dept.
Application	• Protect each outside face of the prepared joint with a layer of masking tape. • Apply the Sikaflex Construction using a Sika hand or pneumatically operated caulking gun at an angle to eliminate the inclusion of air pockets. The sealant should be firmly extruded into the joint, making sure that it is in full contact with the sides of the joint. Tool off the sealant to achieve a smooth finish. Tooling will also compress the sealant, promoting adhesion to the joint walls. • Remove masking tape before sealant starts curing.
Cleaning of Tools	• Clean tools and equipment immediately after use with Sika Colma Cleaner. Cured Sikaflex can only be removed mechanically.
Notes on Application / Limitations	• Sikaflex Construction will not adhere to polyethylene, polypropylene, polybutylene, polycarbonate, silicone or teflon. If in doubt about substrate suitability consult the Sika Technical Dept or conduct preliminary adhesion tests. • Protect against water for 8 hours after application. • Over-painting of sealants with a rigid coating may inhibit their movement capabilities and is generally not recommended. • Do not apply Sikaflex Construction to pre-painted surfaces without conducting adhesion tests first to determine compatibility. • Silicone based sealants and coatings can negatively affect the curing and adhesion of other sealants such as Sikaflex Construction. • Do not apply Sikaflex Construction to bitumen based coatings or surfaces. Do not overcoat Sikaflex Construction with bitumen based products. • Do not use Sikaflex Construction for securing glass in structural glazing systems. • All joints subjected to hydrostatic pressure must have a solidly formed base to provide bearing for the sealant. • Sikaflex Construction, as with all elastomeric sealants, will ultimately break down when continuously exposed to chlorinated water in swimming pools. For pool joints use Sikadur Combiflex system (refer to separate data sheet for further information). • For potable water tank jointing refer to **Sikaflex 11FC** Technical Data Sheet. • Sikaflex Construction satisfies the durability requirements of the New Zealand Building Code, provided that it has been used strictly in accordance with all the information contained in this data sheet. All applications must be carried out in accordance with good joint design principles and installation procedures, and the designer, contractor, builder or applicator must satisfy themselves that these requirements will be met. • Refer to the "Sikaflex Elastomeric Sealants" data sheet, for information on joint design and calculation of joint movement.
Notes	All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.
Local Restrictions	Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

Health & Safety Information

Protective Measures

- To avoid rare allergic reactions, we recommend the use of protective gloves. Change soiled work clothes and wash hands before breaks and after finishing work.
- Local regulations as well as health and safety advice on packaging labels must be observed.
- For further information refer to the Sika Material Safety Data Sheet which is available on request.
- If in doubt always follow the directions given on the pack or label.

Transportation Class

Sikaflex-Construction is classed as non-hazardous for transportation.

Legal Notes

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

Fosroc Limited
Head Office and Factory

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Petone, New Zealand
PO Box 38 079, Petone
Tel 0-4-568 8046
Fax 0-4-568 8043

MATERIAL SAFETY DATA SHEET (MSDS)

IDENTIFICATION

PRODUCT: **DECKWEB**

Chemical Family	Spunbonded polyester	**UN No**	Not applicable
		Hazard Class	Not applicable
Proper Shipping Name	Not applicable	**Subsidiary Risk**	Not applicable
		Hazchem Code	Not applicable
Use	Reinforcing fabric for use in Deckclad system.	**Poisons Schedule**	Not scheduled
		Packing Group	Not applicable

DESCRIPTION/PROPERTIES:

Appearance	White fabric	**Percent Volatiles**	Nil
Odour	Nil	**Specific Gravity**	Not applicable
Boiling Point °C	Not applicable	**Solubility in Water**	Not soluble
Melting Point °C	250 - 300	**Flash Point °C**	**Not applicable**
Vapour Pressure	Not applicable		
Flammability Limits	Not applicable	**Autoignition Temperature °C**	Not applicable

INGREDIENTS:	**Content**	**CAS. No**
SPUNBONDED POLYESTER	HIGH	

Content: High >60%, Medium 10 to 60%, Low 1 to 10%, Very Low <1% RND: Registered Not Disclosed

HEALTH HAZARD INFORMATION

HEALTH EFFECTS

Swallowed

Not applicable for this product

Eye

Physical damage only

Skin

Physical damage only

Inhaled

Fibres may cause aerial hazard as nuisance dust.

FIRST AID

Swallowed

Not a likely source of hazard.

Eye

Not applicable

Skin

Not applicable

Inhaled

Not applicable

The National Poison Centre

CALL 0800 POISON OR 0800 764 766

PRECAUTIONS FOR USE

EXPOSURE LIMITS (Dept of Labour Workplace Exposure Standards 1994)

(TLV = Threshold Value Limit, TWA = Time-Weighted Average, STEL = Short-Term Exposure Limit)

VENTILATION

PERSONAL PROTECTION
Respiratory protection not required under normal conditions of use.

FLAMMABILITY
Product is not flammable.

SAFE HANDLING INFORMATION

STORAGE AND TRANSPORT
Product has no special storage or handling requirements. Store in cool dry area in original sealed containers.

SPILLS AND DISPOSAL
Not applicable for this product.

FIRE/EXPLOSION HAZARD
Nil

EXTINGUISHING MEDIA
Use water spray to cool storage containers exposed to fire.

SPECIAL FIRE FIGHTING PROCEDURES
Wear self contained breathing apparatus in confined spaces.

DANGEROUS DECOMPOSITION PRODUCTS
Not known.

OTHER INFORMATION

Ensure that you obtain the latest MSDS's for any associated materials from Fosroc.

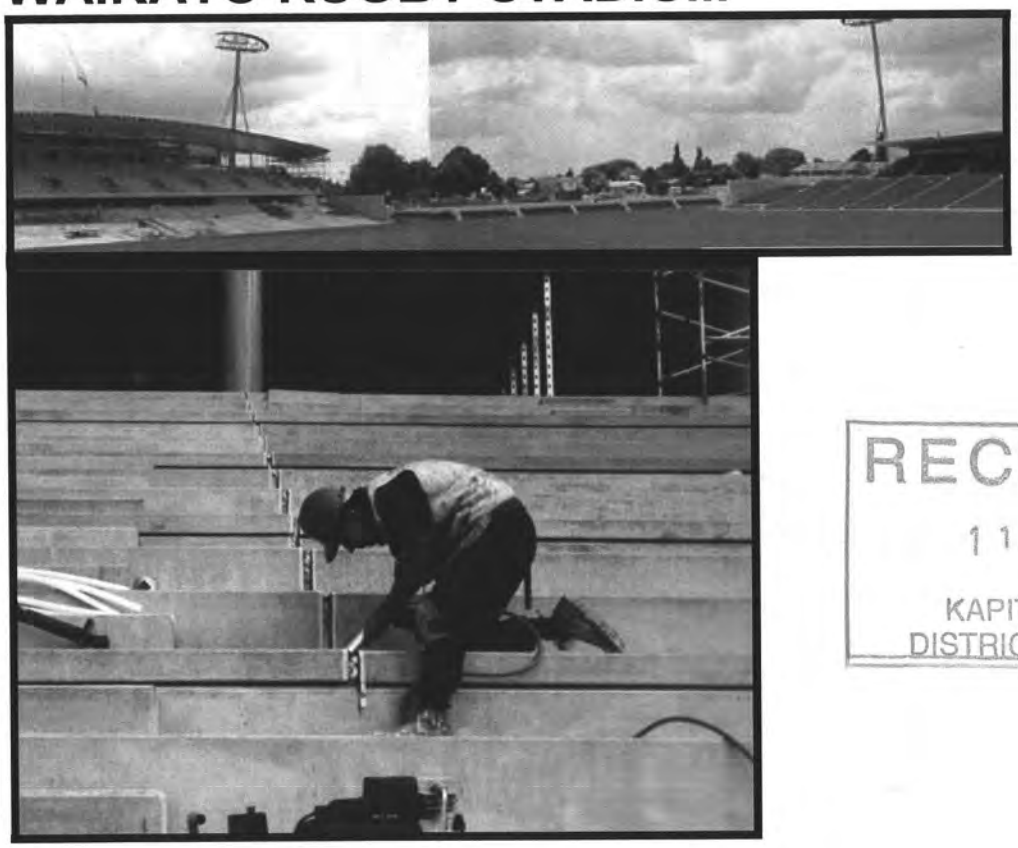
CONTACT POINT: The Technical Manager, phone (04) 568-8046 (business hours)
In emergency, or after hours, contact a doctor or the National Poison Centre.

IMPORTANT NOTE: This MSDS was prepared following the recommended N.Z. Dept.of Health format. Data quoted is typical for the product, but does not constitute a specification, and is based on the most accurate information available to Fosroc Limited at the time of writing. All information contained herein is given in good faith, but is subject to change without notice, and no warranty expressed or implied is made as to its accuracy.

Approved: Chief Chemist _____ **Quality Manager** _____

Construction

Project Reference
WAIKATO RUGBY STADIUM



Requirement:
A flexible sealant was required to seal the joints between precast bleacher units and the construction joints in in-situ concrete elements.

Solution:
Sikaflex-Construction and Sikaflex 11FC were used. Sikaflex-Construction allows greater joint movement, while Sikaflex 11FC provides better edge support in more heavily loaded joints.

Products Used:		
Sikaflex 11FC Sikaflex-Construction	}	Jointing
Sikaflex PRO	-	Windows
Purigo 5S	-	Concrete dustproofer and surface hardener
Formol	-	Concrete form release agent
Emulsion 93	-	Waterproof bonding agent and mortar improver
Sikadur 32	-	High performance epoxy tie coat
Sika Grout 212	-	High strength, shrinkage compensated pourable cementitious grout

Reference: AKL230

Sika (NZ) Ltd
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New Zealand

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Email: info@nz.sika.com www.sika.co.nz

Responsible Care

Certified Quality System ISO 9001/EN 29001 since 1986

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INDUSTRIAL RESEARCH SERVICES

Registered Testing Authority - Building Code of Australia

23 February, 2005 Our Ref. EN13/1272

TEST REPORT No. 3137-3

Requested by: Andre Chan
on (date): 4 November 2004
Manufacturer: Sika Australia Pty Ltd
Product Desc: Sika RainTite Waterproofing Membrane

Sampling details:
Where: Highett
Date: Delivered
By Whom: Andre Chan
How (methods): N/A

The results reported relate only to the sample(s) tested and the information received.

No responsibility is taken for the accuracy of the sampling unless it is done under our own supervision.
CSIRO cannot accept responsibility for deviations in the manufactured quality and performance of the product.

This test report consists of 10 pages

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SUMMARY OF RESULTS

AS4858:2004 Wet Area Membranes

Appendix A: Assessment of Durability of waterproof membranes

Requirement for Sika Rain Tite Waterproofing Membrane:
The sample requires an elongation at break strain greater than 184% at 56 days.

DUABILITY OF MEMBRANES: Elongation to break	Strain %	Result
Control	312%	Class III High Extensibility
Water Immersion	165%	PASS
Bleach Immersion	241%	PASS
Detergent Immersion	180%	PASS
Heat Ageing	267%	PASS

The Sika Rain Tite Waterproofing Membrane passes the criteria requirement of AS4858 Appendix A: Assessment of Durability of waterproof membranes. The Durability is in excess of 50% of the Control set of samples.

Appendix B: Assessment of Resistance of Waterproofing Membranes to Cyclic Movement

The test sample achieved a control Elongation of Break of 312% as per AS4858 Appendix A. For a Class III membrane type the extension movement used for cycling is 4 mm extension

Number of Cycles completed	50
Surface Crazing	Nil
Surface Tears	Nil
Membrane Rupture	Nil

Meets requirement for Moving Joint Test

ASTM 96 Desiccant Method: Moisture Vapour Transmission Rate

Result: 4.19 g/m^2/24 hrs PASS

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REPORT NO: 3137-3
ISSUE DATE: 23 February, 2005
MANUFACTURER: Sika Australia Pty Ltd
PRODUCT DESC: Sika RainTite Waterproofing Membrane

TEST CARRIED OUT IN ACCORDANCE WITH
AS4858:2004 Wet Area Membranes
Appendix A: Assessment of Durability of waterproof membranes

Test Date: December 2004

RESULTS:

Location:	Ceramic Tile Laboratory
Conditions:	7 days at 23°C 55%RH
Sample Number:	3137-3-1 (Numbered 1 to 5)
Samples:	Average of 5 samples
Load rate:	150mm/min

Elongation at Break

CONTROL SET

Sample Number	Sample Thickness Mean (mm)	Maximum Extension (mm)	Maximum Stress MPa	Maximum Strain %
3137-3-1-1 to 5	0.39	102.93	30.55	312

Requirement for Class III: The specimens have an average percentage strain of ≥300%.

Classification: Class III (High Extensibility)

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TEST CARRIED OUT IN ACCORDANCE WITH
AS4858:2004 Wet Area Membranes
Appendix A: Assessment of Durability of waterproof membranes

Test Date: December 2004

RESULTS:

Location:	Ceramic Tile Laboratory
Conditions:	7 days at 23°C 55%RH
Sample Number:	3137-3-2 (Numbered 1 to 12)
Samples:	Average of 3 samples
Load rate:	150mm/min
Solution:	1L of deionised water

Elongation at Break

WATER IMMERSION

Sample and Number	Sample Thickness Mean (mm)	Maximum Extension (mm)	Maximum Stress MPa	Maximum Strain %
7 Days 3137-3-2-1 to 3	0.35	172.73	35.41	523
28 Days 3137-3-2-4 to 6	0.48	154.38	1.77	468
56 Days 3137-3-2-7 to 9	0.50	54.49	3.54	**165**

Requirement: The sample requires an elongation at break strain greater than 156% at 56 days.

Result: **165%** PASS

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PRODUCT DESC: Sika RainTite Waterproofing Membrane

TEST CARRIED OUT IN ACCORDANCE WITH Test Date: December 2004
AS4858:2004 Wet Area Membranes
Appendix A: Assessment of Durability of waterproof membranes

RESULTS:

Location:	Ceramic Tile Laboratory
Conditions:	7 days at 23°C 55%RH
Sample Number:	3137-3-3 (Numbered 1 to 12)
Samples:	Average of 3 samples
Load rate:	150mm/min
Solution:	1L of 10.5 g/L sodium hypochlorite & 2.25 g/L of sodium hydroxide

Elongation at Break

BLEACH IMMERSION

Sample and Number	Sample Thickness Mean (mm)	Maximum Extension (mm)	Maximum Tensile MPa	Maximum Strain %
7 Days 3137-3-3-1 to 3	0.43	128.38	27.76	389
28 Days 3137-3-3-4 to 6	0.42	122.12	1.82	370
56 Days 3137-3-3-7 to 9	0.40	79.63	3.04	**241**

Requirement: The sample requires an elongation at break strain greater than 156% at 56 days.

Result: 241% PASS

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PRODUCT DESC: Sika RainTite Waterproofing Membrane

TEST CARRIED OUT IN ACCORDANCE WITH
AS4858:2004 Wet Area Membranes
Appendix A: Assessment of Durability of waterproof membranes

Test Date: December 2004

RESULTS:

Location:	Ceramic Tile Laboratory
Conditions:	7 days at 23°C 55%RH
Sample Number:	3137-3-4 (Numbered 1 to 12)
Samples:	Average of 3 samples
Load rate:	150mm/min
Solution:	1L of 2% solution N8 detergent

Elongation at Break

DETERGENT IMMERSION

Sample and Number	Sample Thickness Mean (mm)	Maximum Extension (mm)	Maximum Stress MPa	Maximum Strain %
7 Days 3137-3-4-1 to 3	0.46	140.13	29.05	425
28 Days 3137-3-4-4 to 6	0.33	64.54	1.51	196
56 Days 3137-3-4-7 to 9	0.40	59.30	2.72	**180**

Requirement: The sample requires an elongation at break strain greater than 156% at 56 days.

Result: 180% PASS

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PRODUCT DESC: Sika RainTite Waterproofing Membrane

TEST CARRIED OUT IN ACCORDANCE WITH
AS4858:2004 Wet Area Membranes
Appendix A: Assessment of Durability of waterproof membranes

Test Date: December 2004

RESULTS:

Location:	Ceramic Tile Laboratory
Conditioning:	23°C 55%RH
Sample Number:	3137-3-5 (Numbered 1 to 3)
Samples:	Average of 3 samples
Load rate:	150mm/min

Elongation at Break

HEAT AGEING

Sample and Number	Sample Thickness Mean (mm)	Maximum Extension (mm)	Maximum Stress MPa	Maximum Strain %
7 Days 3137-3-5-1 to 3	0.53	88.15	32.91	**267**

Requirement: The sample requires an elongation at break strain greater than 156% at 56 days.

Result: 267% **PASS**

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PRODUCT DESC: Sika RainTite Waterproofing Membrane

TEST CARRIED OUT IN ACCORDANCE WITH Test Date: February 2005
Appendix B: Assessment of Resistance of Waterproofing Membranes to Cyclic movement
(Known as the CSIRO Moving Joint Test)

RESULTS:

Location:	Laboratory
Test Rig:	Applied Test Systems Series 904 Vertical Sealant Tester
Number of Cycles:	50
Type of Cycle:	Full cycle
Cycle Time:	2 hours to complete full cycle
Cycle expansion:	2 to 4 mm
Sample Size:	65mm x 25mm
Sample Span:	2mm between header plates
Sample Thickness:	mm

The test sample achieved a control Elongation of Break of 312% as per AS4858 Appendix A. For a Class III membrane type the extension movement used for cycling is 4 mm extension

Number of Cycles completed	50
Surface Crazing	Nil
Surface Tears	Nil
Membrane Rupture	Nil

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REPORT NO: 3137-3 Page 9 of 10
ISSUE DATE: 23 February, 2005
MANUFACTURER: Sika Australia Pty Ltd
PRODUCT DESC: Sika RainTite Waterproofing Membrane

TEST CARRIED OUT IN ACCORDANCE WITH
AS4858:2004 Wet Area Membranes
Method: ASTM E96 Desiccant method

Test Date: January 2005

RESULTS:

Location:	Ceramic Tile Laboratory
Sample Thickness:	2.0mm
Open mouth dish:	Diameter 100mm
Test Period:	900 hours
Conditions:	23°C / RH 50%
Membrane to dish sealant:	wax
Desiccant:	Silica gel

Desiccant Method (Procedure A)

Sample	Thickness mm	Water Vapour Transmission	
		$g/m^2/hr$	$g/m^2/24/hr$
Specimen 1	1.05	0.154	3.69
Specimen 2	0.95	0.179	4.29
Specimen 3	0.93	0.192	4.60
Mean			**4.19**

Requirement: If > 8g/m2/24 hours, additional testing referred to in (e) will be required to establish suitability for use over particleboard.

Result: **4.19** **PASS**

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Date and Place 23 February, 2005, Highett, Vic

Name(s), Title(s) and Signatures(s):

Gerry Eccleston

GERRY ECCLESTON
SENIOR MATERIALS SCIENTIST
MATERIALS
INDUSTRIAL RESEARCH SERVICES

Building product registers

Back to all registers

Internal membranes register

Type and manufacturer	Suitable use and limitations	Substrate / limitations	Conditions of consent
Aquadex Jaydex International Ltd	For use under vinyl ceramic or stone tile finishes **Maintenance:** Any cracked or damaged tiles/grout to be replaced immediately. Any damaged membrane to be repaired immediately	Plywood H3.2.2 CCA treated not LOSP* * Floor joists and noggs to be spaced no greater than 400mm centres in each direction. Concrete and concrete masonry	At the completion of the works and prior to the issue of the Code Compliance Certificate, the applicant shall provide to Auckland City Environments the following documentation to assist Council in establishing compliance with the Building Code. 1) Copy of applicators approval certificate from Jaydex International Ltd 2) A Producer Statement/ Installation Certificate from the applicator 3) Copy of manufacturer's importer's or distributors warranty
Aquron 2000 Markham Ltd	Concrete floor slabs	Surfaces must be clean, dust free and sound prior to application.	At the completion of the works and prior to the issue of the Code Compliance Certificate, the applicant shall provide to Auckland City Environments the following documentation to assist Council in establishing compliance with the Building Code. 1) Copy of applicators approval certificate from Markham Ltd 2) A Producer Statement/ Installation Certificate from the applicator 3) Copy of manufacturer's importer's or distributors warranty
Bitustick Sealtec Ltd	For use in internal wet areas	Plywood (17.5mm CD grade structural and H3.2 treated, not LOSP) Concrete slabs Fibre cement Deck joist and nogs supporting plywood to be spaced no greater than 400 centres in each direction.	At the completion of the works and prior to the issue of the Code Compliance Certificate, the applicant shall provide to Auckland City Environments the following documentation to assist Council in establishing compliance with the Building Code. 1) Copy of applicators approval certificate from Sealtec Ltd 2) A Producer Statement/ Installation Certificate from the applicator 3) Copy of manufacturer's importer's or distributors warranty
Boscoseal AC2 Bostik NZ Ltd	For use under vinyl ceramic or stone tile finishes **Maintenance:** Any cracked or damaged tiles/grout to be replaced immediately. Any damaged	Plywood H3.2.2 CCA treated not LOSP* Fibre cement compressed sheet/ tile underlay* * Floor joists and noggs to be spaced no greater than 400mm centres in each direction.	At the completion of the works and prior to the issue of the Code Compliance Certificate, the applicant shall provide to Auckland City Environments the following documentation to assist Council in establishing compliance with the Building Code. 1) Copy of applicators approval

Financial contributions
Fires
Food grading search
Food premises
Forms and brochures - property development and use
Garden and food waste
Graffiti
Grants and funding
Grass verge maintenance
Health licences
Heritage
Interactive maps
Land Information Memoranda (LIMs)
Liquor bans
Liquor licences
Litter offences
Mud and sediment run-off
Noise
Orakei Basin usage
Own your own pensioner unit
Parking
Pests
Pool fencing
Pools and recreation centres
Pre-lodgement meetings
Producer statements
Project Information Memoranda
Property and rates information search
Public toilets
Rates
Resource consents
Retail bonds
Road and parking signs
Road safety
Road stopping
Roads and footpaths
Rubbish and recycling
Safe Swim
Septic tanks
Signs on public land
Stormwater
Street lighting
Street performance licences
Subdivision consents
SuperGold Card for seniors
Traffic signals
Trees

	membrane to be repaired immediately	Concrete and concrete masonry **Walls only** Fibre cement compressed sheet Wet area plasterboard	certificate from Bostik NZ Ltd 2) A Producer Statement/ Installation Certificate from the applicator 3) Copy of manufacturer's importer's or distributors warranty
Boscoseal AC3 Bostik NZ Ltd	For use under vinyl ceramic or stone tile finishes **Maintenance:** Any cracked or damaged tiles/grout to be replaced immediately. Any damaged membrane to be repaired immediately	Plywood H3.2.2 CCA treated not LOSP* Fibre cement compressed sheet/ tile underlay* * Floor joists and noggs to be spaced no greater than 400mm centres in each direction. Concrete and concrete masonry **Walls only** Fibre cement compressed sheet Wet area plasterboard	At the completion of the works and prior to the issue of the Code Compliance Certificate, the applicant shall provide to Auckland City Environments the following documentation to assist Council in establishing compliance with the Building Code. 1) Copy of applicators approval certificate from Bostik NZ Ltd 2) A Producer Statement/ Installation Certificate from the applicator 3) Copy of manufacturer's importer's or distributors warranty
Dampfix 2 ASA	For use under vinyl ceramic or stone tile finishes **Maintenance:** Any cracked or damaged tiles/grout to be replaced immediately. Any damaged membrane to be repaired immediately	Plywood H3.2.2 CCA treated not LOSP* Fibre cement compressed sheet/ tile underlay* * Floor joists and noggs to be spaced no greater than 400mm centres in each direction. Concrete and concrete masonry **Walls only** Wet area plasterboard	At the completion of the works and prior to the issue of the Code Compliance Certificate, the applicant shall provide to Auckland City Environments the following documentation to assist Council in establishing compliance with the Building Code. 1) Copy of applicators approval certificate from ASA 2) A Producer Statement/ Installation Certificate from the applicator 3) Copy of manufacturer's importer's or distributors warranty
Dampfix 3 ASA	For use under vinyl ceramic or stone tile finishes **Maintenance:** Any cracked or damaged tiles/grout to be replaced immediately. Any damaged membrane to be repaired immediately	Plywood H3.2.2 CCA treated not LOSP* Fibre cement compressed sheet/ tile underlay and compressed sheet concrete* * Floor joists and noggs to be spaced no greater than 400mm centres in each direction. Concrete and concrete masonry. **Walls only** Wet area plasterboard	At the completion of the works and prior to the issue of the Code Compliance Certificate, the applicant shall provide to Auckland City Environments the following documentation to assist Council in establishing compliance with the Building Code. 1) Copy of applicators approval certificate from ASA 2) A Producer Statement/ Installation Certificate from the applicator 3) Copy of manufacturer's importer's or distributors warranty
Dampfix PU ASA	Wet area for use under vinyl ceramic or stone tile finishes **Maintenance:** Any cracked or damaged tiles/grout to be replaced immediately. Any damaged	Plywood H3.2.2 CCA treated not LOSP* Fibre cement compressed sheet/ tile underlay and compressed sheet concrete* * Floor joists and noggs to be spaced no greater than 400mm centres in	At the completion of the works and prior to the issue of the Code Compliance Certificate, the applicant shall provide to Auckland City Environments the following documentation to assist Council in establishing compliance with the Building Code. 1) Copy of applicators approval certificate from ASA

Urban design
Utilities
Valuation
Valuation packages
Vehicle crossings
Water
Wharves and boat ramps
Zoning

	membrane to be repaired immediately	each direction. Concrete and concrete masonry. **Walls only** Wet area plasterboard	2) A Producer Statement/ Installation Certificate from the applicator 3) Copy of manufacturer's importer's or distributors warranty
Davco K10 plus Jacobsen Creative Surfaces Ltd	For use under vinyl ceramic or stone tile finishes **Maintenance:** Any cracked or damaged tiles/grout to be replaced immediately. Any damaged membrane to be repaired immediately	Concrete and concrete masonry, Plywood* (17.5mm CD grade structural and H3.2.2 treated), Compressed fibre cement sheet*, Fibre cement sheet tile underlay* * Floor joists and noggs to be spaced no greater than 400mm centres in each direction **Walls only** Wet area fibre cement sheet lining systems Wet area plasterboard lining system	At the completion of the works and prior to the issue of the Code Compliance Certificate, the applicant shall provide to Auckland City Environments the following documentation to assist Council in establishing compliance with the Building Code. 1) Copy of applicators approval certificate from Jacobsen Creative Surfaces Ltd 2) A Producer Statement/ Installation Certificate from the applicator 3) Copy of manufacturer's, importer's or distributors warranty
Dryflex Pump Internal Waterproof Membrane System Flexco (NZ) Ltd	For internal use only	Concrete and concrete masonry, Plywood* (17.5mm CD grade structural and H3.2.2 treated), Compressed fibre cement sheet*, Fibre cement sheet tile underlay* * Floor joists and noggs to be spaced no greater than 400mm centres in each direction. Substrate must be clean, dry, dust free and sound. Suitable for timber floor overlayed with a tile and slate underlay or concrete substrates.	At the completion of the works and prior to the issue of the Code Compliance Certificate, the applicant shall provide to Auckland City Environments the following documentation to assist Council in establishing compliance with the Building Code. 1) Copy of workmanship statement from applicator 2) Copy of manufacturer's warranty
Duro Qik Waterproofing Systems Ltd	For use under vinyl ceramic or stone tile finishes **Maintenance:** Any cracked or damaged tiles/grout to be replaced immediately. Any damaged membrane to be repaired immediately	Concrete and concrete masonry, Flooring grade particle board*, Plywood* (17.5mm CD grade structural and H3.2.2 treated), Compressed fibre cement sheet*, Fibre cement sheet tile underlay* * Floor joists and noggs to be spaced no greater than 400mm centres in each direction **Walls only**	At the completion of the works and prior to the issue of the Code Compliance Certificate, the applicant shall provide to Auckland City Environments the following documentation to assist Council in establishing compliance with the Building Code. 1) Copy of applicators approval certificate from Waterproofing Systems Ltd 2) A Producer Statement/ Installation Certificate from the applicator 3) Copy of manufacturer's, importer's or distributors warranty

		Wet area fibre cement sheet lining systems Wet area plasterboard lining system	
Duro Set Waterproofing Systems Ltd	For use under vinyl ceramic or stone tile finishes **Maintenance:** Any cracked or damaged tiles/grout to be replaced immediately. Any damaged membrane to be repaired immediately	Concrete and concrete masonry Flooring grade particle board*, Plywood* (17.5mm CD grade structural and H3.2.2 treated), Fibre cement sheet tile underlay/ compressed sheet* * Floor joists and noggs to be spaced no greater than 400mm centres in each direction **Walls only** Wet area fibre cement sheet lining systems Wet area plasterboard lining system	At the completion of the works and prior to the issue of the Code Compliance Certificate, the applicant shall provide to Auckland City Environments the following documentation to assist Council in establishing compliance with the Building Code. 1) Copy of applicators approval certificate from Waterproofing Systems Ltd 2) A Producer Statement/ Installation Certificate from the applicator 3) Copy of manufacturer's, importer's or distributors warranty
Equus-Dexx (aka Chevaline Dexx) Equus	For use under ceramic tiles or stone tile finishes **Maintenance:** Any cracked or damaged tiles/grout to be replaced immediately. Any damaged membrane to be repaired immediately	Concrete and concrete masonry Plywood* (17.5mm BD grade structural and H3.2.2 treated) Fibre cement sheet tile underlay* * Floor joists and noggs to be spaced no greater than 400mm centres in each direction **Walls only** Wet area fibre cement sheet lining systems Wet area plasterboard lining	At the completion of the works and prior to the issue of the Code Compliance Certificate, the applicant shall provide to Auckland City Environments the following documentation to assist Council in establishing compliance with the Building Code. 1) Copy of applicators approval certificate from Equus 2) A Producer Statement/ Installation Certificate from the applicator 3) Copy of manufacturer's, importer's or distributors warranty
Equus-Dexx (aka Chevaline Dexx) Temproof 3000	For use under ceramic tiles or stone tile finishes. Membrane system not UV resistant. If used in exposed location must have Temproof 4000M as second layer. **Maintenance:** Any cracked or damaged tiles/grout to be replaced immediately. Any damaged membrane to be repaired immediately.	Concrete and concrete masonry Plywood* (17.5mm BD grade structural and H3.2.2 treated) Fibre cement sheet tile underlay* * Floor joists and noggs to be spaced no greater than 400mm centres in each direction **Walls only** Wet area fibre cement sheet lining systems Wet area plasterboard lining	At the completion of the works and prior to the issue of the Code Compliance Certificate, the applicant shall provide to Auckland City Environments the following documentation to assist Council in establishing compliance with the Building Code. 1) Copy of applicators approval certificate from Equus 2) A Producer Statement/ Installation Certificate from the applicator 3) Copy of manufacturer's, importer's or distributors warranty
Equus-Dexx (aka Chevaline Dexx) Temproof 4000	For use under ceramic tiles or stone tile finishes only.	Concrete and concrete masonry Plywood* (17.5mm BD	At the completion of the works and prior to the issue of the Code Compliance Certificate, the applicant shall provide to Auckland

	Membrane system not UV resistant. If used in exposed location must have Temproof 4000M as second layer. **Maintenance:** Any cracked or damaged tiles/grout to be replaced immediately. Any damaged membrane to be repaired immediately.	grade structural and H3.2.2 treated) Fibre cement sheet tile underlay* * Floor joists and noggs to be spaced no greater than 400mm centres in each direction **Walls only** Wet area fibre cement sheet lining systems Wet area plasterboard lining	City Environments the following documentation to assist Council in establishing compliance with the Building Code. 1) Copy of applicators approval certificate from Equus 2) A Producer Statement/ Installation Certificate from the applicator 3) Copy of manufacturer's, importer's or distributors warranty
Flexi-Seal Flexco NZ Ltd	Internal wet areas when protected from physical damage by ceramic tiles or stone finishes.	**Floor** Concrete Flooring grade particle board*, Plywood* (17.5mm CD grade structural and H3.2 treated), Fibre cement sheet tile underlay* * joist spans given in NZS 3604 shall be reduced by 20% **Walls** Wet area fibre cement sheet lining systems Wet area plasterboard lining system	At the completion of the works and prior to the issue of the Code Compliance Certificate, the applicant shall provide to Auckland City Environments the following documentation to assist Council in establishing compliance with the Building Code. 1) Copy of applicators approval certificate from Flexco NZ Ltd 2) A Producer Statement/ Installation Certificate from the applicator 3) Copy of manufacturer's, importer's or distributors warranty
Hydrothane Construction Chemicals	For use under ceramic or stone tiles Minimum falls 1:60 (1.0 degree) Maintenance: Any cracked or damaged tiles/grout to be replaced immediately. Any damaged membrane to be repaired immediately	Compressed fibre-cement sheet* Fibre-cement tile underlay* Concrete and concrete masonry* Plywood 17mm CCA treated*, *Floor joists and noggs to be spaced no greater than 400mm centres in each direction Walls only Wet area fibre cement sheet, Wet area plasterboard	At the completion of the works and prior to the issue of the Code Compliance Certificate, the applicant shall provide to Auckland City Environments the following documentation to assist Council in establishing compliance with the Building Code. 1) Copy of applicators approval certificate from Construction Chemicals Ltd 2)A Producer Statement/ Installation Certificate from the applicator 3) Copy of manufacturer's, importer's or distributors warranty
Idrobuild Kerakoll NZ Ltd	For use under ceramic or stone tiles **Minimum falls** In showers and shower areas minimum 1:50 (1.2 degrees) **Maintenance**: Any cracked or damaged tiles/grout to be replaced immediately. Any damaged membrane to be repaired immediately	Concrete, Flooring grade particle board*, Plywood 17mm CCA treated*, Compressed fibre cement sheet*, Fibre cement sheet tile underlay*# *Floor joists and noggs to be spaced no greater than 400mm centres in each direction Specific check of deflection of joists (1/360th) span required to confirm compliance with appraisal	At the completion of the works and prior to the issue of the Code Compliance Certificate, the applicant shall provide to Auckland City Environments the following documentation to assist Council in establishing compliance with the Building Code. 1) Copy of applicators approval certificate from Jacobson Creative Surfaces Ltd 2) A Producer Statement/ Installation Certificate from the applicator 3) Copy of manufacturer's, importer's or distributors warranty

		Walls only Wet area fibre cement sheet, Wet area plasterboard # sub-strate must have current BRANZ appraisal	
Idrobuild FX Jacobsen Creative Surfaces Ltd *[**WITHDRAWN from schedule. BRANZ appraisal lapsed]*	For use under ceramic or stone tiles **Minimum falls** In showers and shower areas minimum 1:50 **Maintenance:** Any cracked or damaged tiles/grout to be replaced immediately. Any damaged membrane to be repaired immediately	Concrete, Flooring grade particle board*, Plywood 17mm CCA treated*, Compressed fibre cement sheet*, Fibre cement sheet tile underlay*# *Floor joists and noggs to be spaced no greater than 400mm centres in each direction **Walls only** Wet area fibre cement sheet, Wet area plasterboard# # sub-strate must have current BRANZ appraisal	At the completion of the works and prior to the issue of the Code Compliance Certificate, the applicant shall provide to Auckland City Environments the following documentation to assist Council in establishing compliance with the Building Code. 1) Copy of applicators approval certificate from Jacobson Creative Surfaces Ltd 2) A Producer Statement/ Installation Certificate from the applicator 3) Copy of manufacturer's, importer's or distributors warranty
Lastogum X Waterproof Membrane BASF	For under ceramic tiles **Maintenance:** Any cracked or damaged tiles/grout to be replaced immediately. Any damaged membrane to be repaired immediately. Tiles to be cleaned weekly	Concrete and concrete masonry, Flooring grade particle board* Plywood* (17.5mm CD grade structural and H3.2.2 treated) Fibre cement sheet tile underlay and compressed sheet* *Floor joists and noggs to be spaced no greater than 400mm centres in each direction **WALLS ONLY** Wet area fibre cement sheet lining systems Wet area plasterboard lining system	At the completion of the works and prior to the issue of the Code Compliance Certificate, the applicant shall provide to Auckland City Environments the following documentation to assist Council in establishing compliance with the Building Code. 1) A Producer Statement/ Installation Certificate from the applicator 2) Copy of manufacturer's, importer's or distributors warranty
Liquid Flash (aka Liquid Flash I) Construction Chemicals	For use under ceramic or stone tiles **Minimum falls** 1:60 (1.0 degree) Maintenance: Any cracked or damaged tiles/grout to be replaced immediately. Any damaged membrane to be repaired immediately	Compressed fibre-cement sheet* Fibre-cement tile underlay* Concrete and concrete masonry* Plywood 17mm CCA treated*, *Floor joists and noggs to be spaced no greater than 400mm centres in each direction **Walls only**	At the completion of the works and prior to the issue of the Code Compliance Certificate, the applicant shall provide to Auckland City Environments the following documentation to assist Council in establishing compliance with the Building Code. 1) Copy of applicators approval certificate from Construction Chemicals Ltd 2)A Producer Statement/ Installation Certificate from the applicator 3) Copy of manufacturer's, importer's or distributors warranty

		Wet area fibre cement sheet, Wet area plasterboard	
Liquid Flash II Construction Chemicals	For use under ceramic or stone tiles **Minimum falls** 1:60 (1.0 degree) **Maintenance:** Any cracked or damaged tiles/grout to be replaced immediately. Any damaged membrane to be repaired immediately	Compressed fibre-cement sheet* Fibre-cement tile underlay* Concrete and concrete masonry* Plywood 17mm CCA treated*, Flooring grade particle board*, *Floor joists and noggs to be spaced no greater than 400mm centres in each direction **Walls only** Wet area fibre cement sheet, Wet area plasterboard	At the completion of the works and prior to the issue of the Code Compliance Certificate, the applicant shall provide to Auckland City Environments the following documentation to assist Council in establishing compliance with the Building Code. 1) Copy of applicators approval certificate from Construction Chemicals Ltd 2) A Producer Statement/ Installation Certificate from the applicator 3) Copy of manufacturer's, importer's or distributors warranty
Mapegum WPS Mapei (NZ) Ltd	For use under ceramic or stone tile finishes **Maintenance:** Any cracked or damaged tiles/grout to be replaced immediately. Any damaged membrane to be repaired immediately	Concrete, Flooring grade particle board*, Plywood (17.5mm H3.2.2 CCA)*, Compressed fibre-cement sheet*, Fibre-cement sheet tile underlay* *Floor joists and noggs to be spaced no greater than 400mm centres in each direction **Walls only** Wet area fibre-cement sheet lining system, Wet area plasterboard lining system	At the completion of the works and prior to the issue of the Code Compliance Certificate, the applicant shall provide to Auckland City Environments the following documentation to assist Council in establishing compliance with the Building Code. 1) Copy of applicators approval certificate from Mapei New Zealand Ltd 2)A Producer Statement/ Installation Certificate from the applicator 3) Copy of manufacturer's, importer's or distributors warranty
Maplelastic Mapei (NZ) Ltd	For use under ceramic or stone tile finishes **Maintenance:** Any cracked or damaged tiles/grout to be replaced immediately. Any damaged membrane to be repaired immediately	Concrete, Flooring grade particle board*, Plywood (17.5mm H3.2.2 CCA)*, Compressed fibre-cement sheet*, Fibre-cement sheet tile underlay* *Floor joists and noggs to be spaced no greater than 400mm centres in each direction **Walls only** Wet area fibre-cement sheet lining system,	At the completion of the works and prior to the issue of the Code Compliance Certificate, the applicant shall provide to Auckland City Environments the following documentation to assist Council in establishing compliance with the Building Code. 1) Copy of applicators approval certificate from Mapei New Zealand Ltd 2) A Producer Statement/ Installation Certificate from the applicator 3) Copy of manufacturer's, importer's or distributors warranty

		Wet area plasterboard lining system.	
Matoflex Ultratuff Coatings Ltd	For use under ceramic or stone tile finishes Shower recess **Minimum fall 1.3 deg** **Maintenance:** Any cracked or damaged tiles/grout to be replaced immediately. Any damaged membrane to be repaired immediately	Concrete, Flooring grade particle board*, Plywood (17.5mm H3.2.2 CCA)*, Compressed fibre-cement sheet*, Fibre-cement sheet tile underlay* *Floor joists and noggs to be spaced no greater than 400mm centres in each direction **Walls only** Wet area fibre-cement sheet lining system, Wet area plasterboard lining system	At the completion of the works and prior to the issue of the Code Compliance Certificate, the applicant shall provide to Auckland City Environments the following documentation to assist Council in establishing compliance with the Building Code. 1) Copy of applicators approval certificate from Ultratuff Coatings Ltd 2) A Producer Statement/ Installation Certificate from the applicator 3) Copy of manufacturer's, importer's or distributors warranty
Miracryl 2 part Flexco (NZ) Ltd	For under ceramic tiles or stone finishes **Maintenance:** Any cracked or damaged tiles/grout to be replaced immediately. Any damaged membrane to be repaired immediately	Concrete and concrete masonry Flooring grade particle board* Plywood* (17.5mm CD grade structural and H3.2.2 treated) Fibre cement sheet tile/compressed sheet underlay* * Floor joists and noggs to be spaced no greater than 400mm centres in each direction **Walls only** Wet area fibre cement sheet lining systems Wet area plasterboard lining	At the completion of the works and prior to the issue of the Code Compliance Certificate, the applicant shall provide to Auckland City Environments the following documentation to assist Council in establishing compliance with the Building Code. 1) Copy of applicators approval certificate from Flexco New Zealand Ltd 2) A Producer Statement/ Installation Certificate from the applicator 3) Copy of manufacturer's, importer's or distributors warranty
Nuradeck Nuralite Waterproofing Ltd	Suitable for use in internal wet areas.	Suitable for use on: Plywood (17.5mm) H3.22 CCA treated (not LOSP) Fibre cement compressed sheet concrete floors *Floor joists and nogs to be spread no greater than 400c/s in each direction **Maintenance**: Any cracked or damaged tile/ grout to be replaced immediately. Any damage to membrane to be repaired immediately.	At the completion of the works and prior to the issue of the Code Compliance Certificate, the applicant shall provide to Auckland City Environments the following documentation to assist Council in establishing compliance with the Building Code. 1) Copy of applicators approval certificate from Nuralite Waterproofing Ltd 2) A Producer Statement/ Installation Certificate from the applicator 3) Copy of manufacturer's, importer's or distributors warranty
Protecto wrap AFM-WM* Marshall Waterproofing NZ/Aus Ltd * Note there is a similar product Protecto wrap	For use under ceramic tile finishes **Maintenance:** Any cracked or damaged tiles/grout to be replaced immediately.	Plywood* (17.5mm CD grade structural and H3.2.2 treated) LOSP treatment is permitted provided solvents have been allowed to evaporate for a minimum	At the completion of the works and prior to the issue of the Code Compliance Certificate, the applicant shall provide to Auckland City Environments the following documentation to assist Council in establishing compliance with the

AFM they are NOT the same and it is only Protecto wrap AFM-WM that is accepted by Council Atlantis bathroom systems use this product	Any damaged membrane to be repaired immediately	one week before installation of membrane. Concrete, Flooring grade particle board*, Plywood (17.5mm H3.2.2 CCA)*, Compressed fibre-cement sheet*, Fibre-cement sheet tile underlay* *Floor joists and noggs to be spaced no greater than 400mm centres in each direction	Building Code. 1) Copy of applicators approval certificate from Marshall Waterproofing NZ/Aus Ltd 2) A Producer Statement/ Installation Certificate from the applicator 3) Copy of manufacturer's, importer's or distributors warranty
Rasogum Protective Surfaces Ltd	For use under ceramic or stone tiles **Maintenance:** Any cracked or damaged tiles/grout to be replaced immediately. Any damaged membrane to be repaired immediately	Plywood H3.2 LOSP treatment is not to be used* Fibre-cement compressed sheet* Fibre-cement tile underlay Concrete and concrete masonry *Floor joists and noggs to be spaced no greater than 400mm centres in each direction **Walls only** Wet area fibre-cement sheet lining system, Wet area plasterboard lining system	At the completion of the works and prior to the issue of the Code Compliance Certificate, the applicant shall provide to Auckland City Environments the following documentation to assist Council in establishing compliance with the Building Code. 1) Copy of applicators approval certificate from Protective Surfaces Ltd 2) A Producer Statement/ Installation Certificate from the applicator 3) Copy of manufacturer's, importer's or distributors warranty
Rosolastik Protective Surfaces Ltd	For use under ceramic or stone tiles **Maintenance:** Any cracked or damaged tiles/grout to be replaced immediately. Any damaged membrane to be repaired immediately	Plywood H3.2 LOSP treatment is not to be used* Fibre-cement compressed sheet* Fibre-cement tile underlay* Concrete slabs *Floor joists and noggs to be spaced no greater than 400mm centres in each direction **Walls only** Wet area fibre-cement sheet lining system, Wet area plasterboard lining system	At the completion of the works and prior to the issue of the Code Compliance Certificate, the applicant shall provide to Auckland City Environments the following documentation to assist Council in establishing compliance with the Building Code. 1) Copy of applicators approval certificate from Protective Surfaces Ltd 2) A Producer Statement/ Installation Certificate from the applicator 3) Copy of manufacturer's, importer's or distributors warranty
Sika RainTite (au) Sika (NZ) Ltd	For use under ceramic tiles or stone tile finishes **Maintenance:** Any cracked or damaged tiles/grout to be replaced immediately. Any damaged	Concrete and concrete masonry Plywood* (17.5mm BD grade structural and H3.2.2 treated) Fibre cement sheet tile underlay*	At the completion of the works and prior to the issue of the Code Compliance Certificate, the applicant shall provide to Auckland City Environments the following documentation to assist Council in establishing compliance with the Building Code. 1) Copy of applicators approval certificate from Sika (NZ) Ltd

	membrane to be repaired immediately	* Floor joists and noggs to be spaced no greater than 400mm centres in each direction	2) A Producer Statement/ Installation Certificate from the applicator 3) Copy of manufacturer's, importer's or distributors warranty
Strataflex Protective Surfaces Ltd	To be protected from damage by ceramic or stone tiles **Maintenance:** Any cracked or damaged tiles/grout to be replaced immediately. Any damaged membrane to be repaired immediately	Concrete and concrete masonry, except where hydrostatic or vapour pressure is present Flooring grade particle board*, Plywood* (17.5mm CD grade structural and H3.2 treated NOT LOSP treated), Fibre cement sheet tile underlay* Compressed fibre-cement sheet* *Floor joists and noggs to be spaced no greater than 400mm centres in each direction **WALLS ONLY** Wet area fibre cement sheet lining systems Wet area plasterboard lining system	At the completion of the works and prior to the issue of the Code Compliance Certificate, the applicant shall provide to Auckland City Environments the following documentation to assist Council in establishing compliance with the Building Code. 1) Copy of applicators approval certificate from Protective Surfaces Ltd 2) CA Producer Statement/ Installation Certificate from the applicator 3) Copy of manufacturer's, importer's or distributors warranty
Superflex Ardex NZ Ltd	For under ceramic tiles **Maintenance:** Any cracked or damaged tiles/grout to be replaced immediately. Any damaged membrane to be repaired immediately	Concrete and concrete masonry, Flooring grade particle board* Plywood* (17.5mm CD grade structural and H3.2.2 treated) Fibre cement sheet tile underlay and compressed sheet* *Floor joists and noggs to be spaced no greater than 400mm centres in each direction **WALLS ONLY** Wet area fibre cement sheet lining systems Wet area plasterboard lining system	At the completion of the works and prior to the issue of the Code Compliance Certificate, the applicant shall provide to Auckland City Environments the following documentation to assist Council in establishing compliance with the Building Code. 1) Copy of applicators approval certificate from Ardex New Zealand Ltd 2) A Producer Statement/ Installation Certificate from the applicator 3) Copy of manufacturer's, importer's or distributors warranty
Ultraseal Bostik NZ Ltd	For use under ceramic or stone tiles Maintenance: Any cracked or damaged tiles/grout to be replaced immediately. Any damaged membrane to be repaired immediately	Concrete and concrete masonry, Flooring grade particle board* Plywood* (17.5mm CD grade structural and H3.2.2 treated) Fibre cement sheet tile underlay and compressed sheet* *Floor joists and noggs to be spaced no greater than 400mm centres in	At the completion of the works and prior to the issue of the Code Compliance Certificate, the applicant shall provide to Auckland City Environments the following documentation to assist Council in establishing compliance with the Building Code. 1) Copy of applicators approval certificate from Bostik New Zealand Ltd 2) A Producer Statement/ Installation Certificate from the applicator

		each direction **WALLS ONLY** Wet area fibre cement sheet lining systems Wet area plasterboard lining system	3) Copy of manufacturer's, importer's or distributors warranty
Ultraflex Ultratuff	***Minimum falls*** *To shower recess 1:45 (1.3 degrees)*	*Plywood H3.2.2 CCA treated not LOSP** *Fibre-cement compressed sheet ** *Suspended concrete slabs minimum 28 days cured* **Joist spans shall be per NZS 3604 with the maximum joist spacings no greater than 400mm*	*At the completion of the works and prior to the issue of the Code Compliance Certificate, the applicant shall provide to Auckland City Environments the following documentation to assist Council in establishing compliance with the Building Code.* *1) Copy of applicators approval certificate from Ultratuff Coatings Ltd* *2) A Producer Statement/ Installation Certificate from the applicator* *3) Copy of manufacturer's, importer's or distributors warranty*
Wet-Seal system Wet-Seal NZ Ltd	For under ceramic tiles **Maintenance:** Any cracked or damaged tiles/grout to be replaced immediately. Any damaged membrane to be repaired immediately. Tiles to be cleaned weekly	Concrete and concrete masonry, Flooring grade particle board* Plywood* (17.5mm CD grade structural and H3.2.2 treated) Fibre cement sheet tile underlay and compressed sheet* *Floor joists and noggs to be spaced no greater than 400mm centres in each direction **WALLS ONLY** Wet area fibre cement sheet lining systems Wet area plasterboard lining system	At the completion of the works and prior to the issue of the Code Compliance Certificate, the applicant shall provide to Auckland City Environments the following documentation to assist Council in establishing compliance with the Building Code. 1) Copy of applicators approval certificate from Wet-Seal New Zealand Ltd 2) A Producer Statement/ Installation Certificate from the applicator 3) Copy of manufacturer's, importer's or distributors warranty

Updated September 2009

CODE COMPLIANCE CERTIFICATE

Section 95 Building Act 2004

Consent No: 170617

Kāpiti Coast DISTRICT COUNCIL

The Building			
Street address of building:	125 Nikau Palm Road, Paraparaumu	**Building name:**	N/A
Current, Lawfully established, use:	Rural dwelling	**Location of building within site/block number:**	Internal
		Intended life of the building if 50 years or less:	-
Level/unit number:	Single Level	**Year first constructed:**	2009
Legal description of land where building is located:	LOT 4 DP 82049		

The Owner			
Name of owner:	Roulston Thomas Sinclair & Roulston Olga Mikhailovna	**Street address /registered office:**	N/A
Contact person:	As above	**Phone numbers:**	
Mailing address:	4 Trinity Place Paraparaumu 5032	**Landline:**	04 297 0066
		Mobile:	021 244 1643
		Daytime:	-
Email address:	tom@dvcs.co.nz	**After hours:**	-
Website:	-	**Facsimile number:**	-

First point of contact for communications with the Kapiti Coast District Council:

As above

Building Work			
Building Consent No:	170617	**Issued by:**	Kapiti Coast District Council
Project Description:	Replacement installation 14 NZ V.11 multi fuel stove using existing flue & wetback (to central heating only)		

Code Compliance

The building consent authority named below is satisfied, on reasonable grounds, that:

(a) the building work complies with the building consent;

Michelle Salmon –
Building Inspections Team Leader
On behalf of **Kapiti Coast District Council**

Date: 13 September 2017

INSTALLERS CHECKSHEET: FREESTANDING OR INBUILT FIRE

Kāpiti Coast DISTRICT COUNCIL
Me Huri Whakamuri, Ka Titiro Whakamua

Note: Please have this form completed by the installer and ready for our Building Inspector to collect when doing the final inspection.

Building Consent Number:	BC 170617
Installers Details:	
Installers Name: (Please print)	Tom Roulston
Address: 125 N. Kau Palm Rd **Phone:**	021 2441643
Freestanding Fire or Inbuilt Fire installed at:	
Address:	125 N. Kau Palm Road Paraparaumu.
For:	Tom and Olga Roulston

The following requirements under NZS 7421:1990 or AS/NZ 2918:2001 have been met and the solid fuel burning domestic appliance type and model Hunter Herald. has been installed in accordance with the manufacturer's installation instructions.

Please Tick (where applicable) the following:	✓
The chimney has been cleaned.	✓
The chimney is in a sound condition.	✓
The chimney is of pumice and correct dimensions to comply with BRANZ zero clearance certificates.	NA
The chimney is ventilated to manufacturer's requirements.	✓
The appliance is restrained against seismic activity (freestanding & fireplace heaters).	✓
The Inbuilt heating appliance has been approved by BRANZ as complying with their zero clearance certificate.	N/A
The hearth is an approved type according to the manufacturer's requirements. same as previous	✓
The hearth is restrained against seismic activity. Built into the floor	✓
The fire-surround at its connection to the fire place is fully insulated with approved material [see BRANZ Building Information Bulletin 248 (1986).	N/A
The ash hearth is of correct dimensions according to the installation instructions.	✓

Signed:	**Date:** 4/9/2017

GoGet Processing Summary Report

Consent No: 170617

Site Address: 125 Nikau Palm Road, Paraparaumu

Description: Replacement installation 14 NZ V.11 multi fuel stove using existing flue & wetback (to only)

Checklist/Elements	Status	Notes
Vetting	Pass	
Application documentation	Pass	
Application type	Pass	The application is for a building consent.
Application form signed	Pass	The owners match those listed on the CT. The application form is signed by the owner or an agent nominated by the owner.
Proof of ownership	Pass	A relevant rates bill has been provided for a m works application.
Drawings and plans	Pass	Detailed plans are provided that clearly show existing building and the proposed modificatio new build.
Compliance documentation	Pass	Relevant documentation is shown for: - C2: fireplace documentation;
Building act	Pass	
S 112 - Alterations to existing buildings	Pass	Smoke alarms are shown on the plans.
Quick Consent	Pass	
Consent type	Pass	

Request for Further Information:

Request: Provide evidence from a suitably qualified person (member of the Home Heating Association) re used flues and flashing for this free standing appliance will meet a durability requirement of

Response: *Spoken with Mr Roulston the installer and he has confirmed that system will be installed per flu manufacturers requirements and that hydronic system is existing . There is no wet back.*
Flue has had minimal use as specified by installer and he has confirmed that it will meet the du requirement of 5 years.

Minor works	Pass	Since you are not using the specified flues and heat shields provided by the manufacturer con that they have been tested with these heaters detail on the submitted plans that their install clearances will be those specified in AS/NZS 2918:2001 for untested flue installations. Thes distances will probably be more onerous than manufacturers clearances detailed with their fl kit. Contact the manufacturer as they provide the required flue and heat shield with ceiling plate enabling a 3 skinned existing arrangement to b used. Detail on the plan where the air supply openin be located in accordance with page 7 of the installation guide (Herald 14) provided. Wood

Checklist/Elements	Status	Notes
		a 3 skinned existing arrangement to be used. Detail on the plan where the air supply opening will be located in accordance with page 7 of t installation guide (Herald 14) submitted. Confirm the installation options to be used either four or two tapping system. Refer page 12 installation manual submitted. Please clarify the model you are installing. Is it the central heating stove which has a water ja in or, as stated on the consent documents, are you using the existing wetback. If you are usi existing wet back please confirm that it will handle the rated Kw rating for the stove and prov correct stove details.
Response		*Spoken with Mr Roulston the installer and he has confirmed that system will be installed pe manufacturers requirements and that hydronic system is existing . There is no wet back.*
Checklist	Pass	
C1 - C6: Protection from fire	Pass	Manufacturers requirements to be met.
E1 - E3: Moisture	Pass	E2 not affected as existing flashing's will meet durability requirement .
F1 - F8: Safety of users	Pass	Smoke alarms fitted to comply at all levels.
H1: Energy efficiency	Pass	Total efficiency rating at 71.1%
Reviews	Pass	
Supervision review	Pass	
Signing officer (building)	N/A	I have reviewed Jon Moser assessment of the plumbing and drainage process for approval of building consent and all relevant code clauses checked and were ok and the building consent be granted .Simon Copp Technical leader.
Signing officer (plumbing)	Pass	I have reviewed Jon Moser assessment of the plumbing and drainage process for approval of building consent and all relevant code clauses checked and were ok and the building consent be granted .Simon Copp Technical leader.
Quick Consent	Pass	
Signing officer	Pass	

I am satisfied on reasonable grounds that the provisions of the Building Code will be met if the building to the attached application is properly completed in accordance with the attached plans and specifica

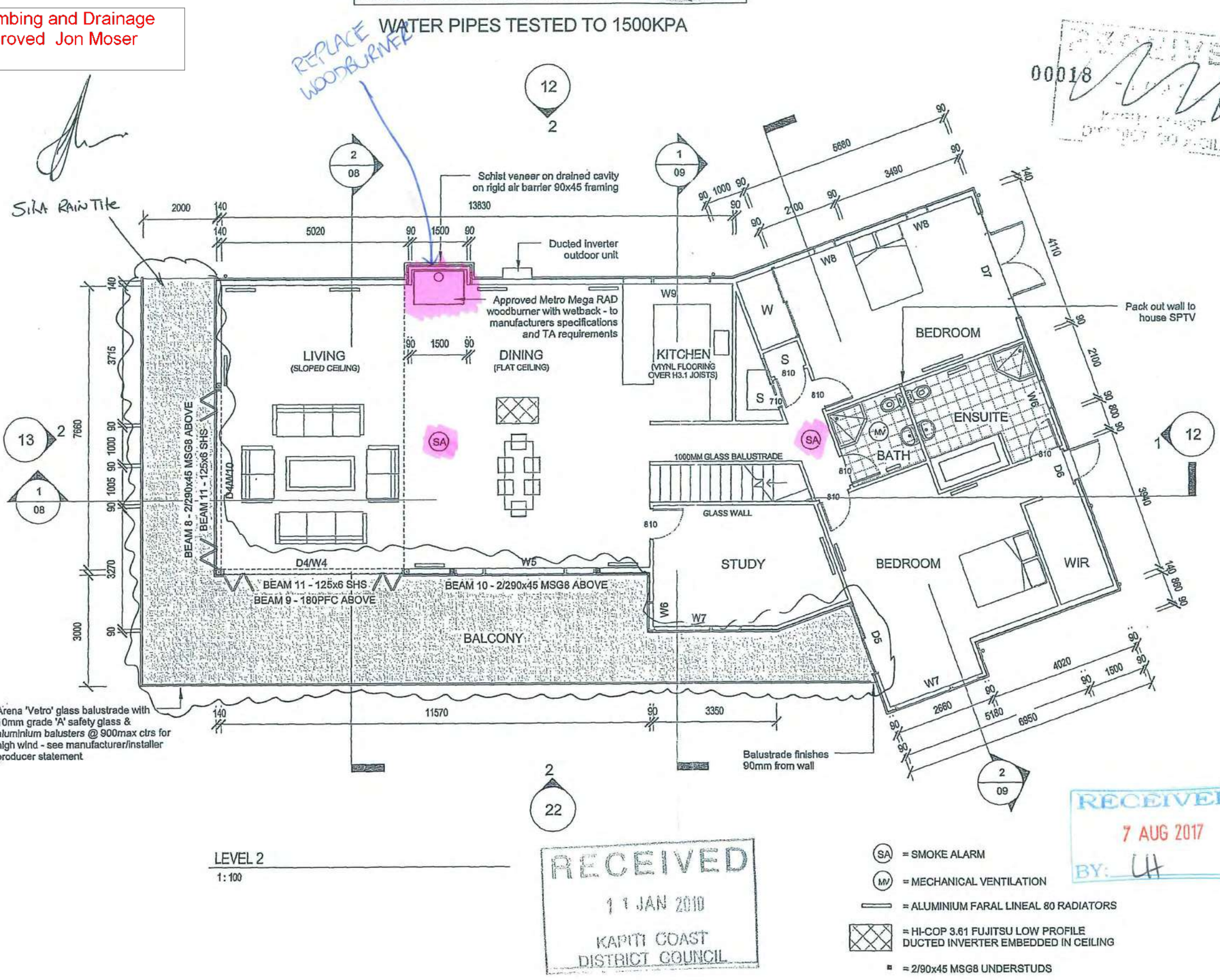
Signed: _____ Date: 21 August 2017 2:40 pm

Simon Copp

PRELINE PLUMBING INSPECTION REQUIRED

Plumbing and Drainage
Approved Jon Moser

WATER PIPES TESTED TO 1500KPA



LEVEL 2
1:100

RECEIVED
00018

RECEIVED
11 JAN 2010
KAPITI COAST DISTRICT COUNCIL

RECEIVED
7 AUG 2017
BY: LH

ROULSTON RESIDENCE

125 NIKAU PALM ROAD
PARAPARAUMU

REVISIONS:

Rev:	Description:	Date:

GENERAL NOTES:

Check and confirm all dimensions prior to commencing any work on-site.
Use stated dimensions in preference to scaled.
If in doubt ASK.
Drawings at a larger scale take precedence over those drawn at a smaller scale.
Site measure all openings/spaces for items manufactured off-site.
Notes on one plan and not necessarily on other drawings are applicable to all drawings.
Any conflicts on the documents are to be notified to the designer prior commencing work.

IF IT ISN'T DIMENSIONED - DO NOT SCAL

UPPER FLOOR PLAN

06

DATE: ~~26 MAR 2009~~ 11 Jan 2010
SCALE: 1:100 @
JOB NUMBER: NA
DRAWN BY: S JOHNSON
DESIGN BY: Designer

ARCHITECTURE DM

17 GEAR ST
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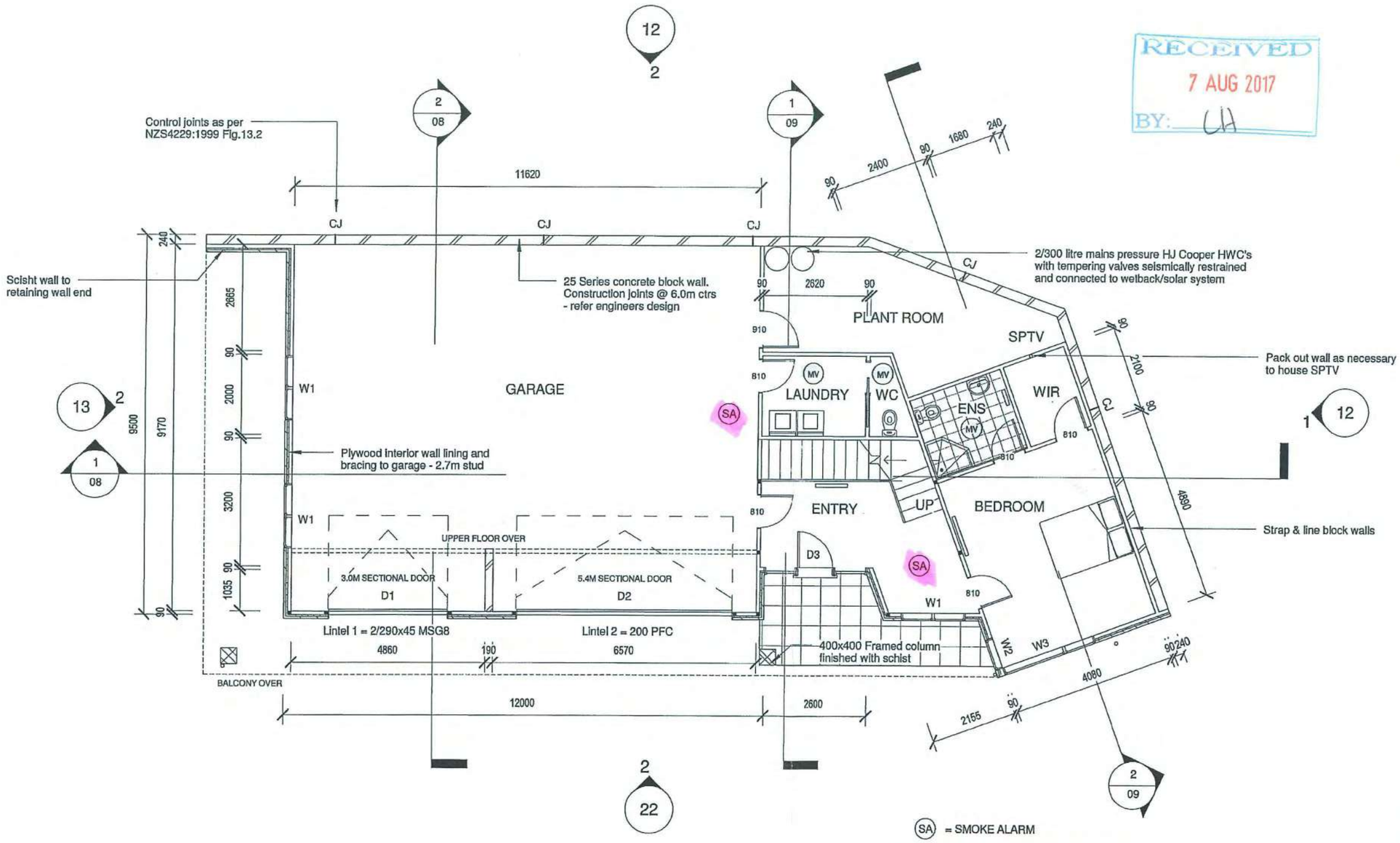
E dean@architecturedm.co.r

A D|N Z
ARCHITECTURAL DESIGNERS

TPR drain is to be run in copper pipe for its entire lenght to a point of discharge at low level.

.00002



LEVEL 1

1 : 100

(SA) = SMOKE ALARM

(MV) = MECHANICAL VENTILATION

= ALUMINIUM FARAL LINEAL 80 RADIATORS

■ = 2/90x45 MSG8 UNDERSTUDS

- Bottom plate to be fixed to framing with 3/90x3.15 nails @ 600ctrs
- Bottom plate to be fixed to foundation walls with M12 bolts (75mm embedment) @ 1400ctrs - DPC between framing and concrete

All fixings to be max 300mm from corners

RECEIVED
7 AUG 2017
BY: CH

APPROVED BY P & D
Simon Copp
Officer
9/4/2009

ROULSTON RESIDENCE

125 NIKAU PALM ROAD
PARAPARAUMU

REVISIONS:

Rev:	Description:	Date:
-	Bottom plate fixing requirements	

GENERAL NOTES:

Check and confirm all dimensions prior to commencing any work on-site.
Use stated dimensions in preference to scaled.
If in doubt ASK.
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Site measure all openings/spaces for items manufactured off-site.
Notes on one plan and not necessarily on other drawings are applicable to all drawings.
Any conflicts on the documents are to be notified to the designer prior to commencing work.

IF IT ISN'T DIMENSIONED - DO NOT SCALE!

LOWER FLOOR PLAN

04

DATE:	5 MAY 2009
SCALE:	1 : 100 @A3
JOB NUMBER:	NA
DRAWN BY:	S JOHNSON
DESIGN BY:	Designer

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CLASSIC COOKERS LTD 151 BRAMLEYS ROAD, RD1,KAIAPOI 7691 NEW ZEALAND

HERALD 14

NZ V.II

MULTIFUEL CENTRAL-HEATING STOVE

Installation and Operating Instructions

Tested to AS/NZS 2918:2001

Test report14/2659

WARNING: Improper installation, adjustment, alteration, service or maintenance can cause injury or Property damage. For assistance or additional information consult an authorized technician, or your Hunter Dealer.

FOR YOUR SAFETY: Do not store or use gasoline or other flammable vapours and liquids in the vicinity off this appliance. Installation and service must be performed by authorized personnel.

PLEASE KEEP THESE INSTRUCTIONS FOR FURTHER REFERENCE.

Manufactured in United Kingdom by:
Hunter Stoves Limited
Aspen House
Pynes Hill
Exeter
Devon, EX2 5AZ
E Mail: info@hunterstoves.co.nz
Web: www.Hunterstoves.co.uk

Distributed in New Zealand by:
Classic Cookers
151 Bramleys Road
R D 1
Kaiapoi
Ph. 03 3106534
Email: info@classiccookers.co.nz
Web: www.classiccookers.co.nz

Contents

Page No

Herald 14 NZ V.II Central-Heating
Technical Specification

Stove Mass 163 kg

Wood

Total Efficiency	73.6%
Nominal Heat Output	14 KW
Output to Water	9.1 KW
Output to Room	4.8 KW
Mean CO Emission (at 13% O2)	0.50 %
Mean Flue Gas Temperature	344 °C
Flue Gas Mass Flow	11.0 g/s

Ancit

Total Efficiency	71.1 %
Nominal Heat Output	14 KW
Output to Water	9.5 KW
Output to Room	4.8 KW
Mean CO Emission (at 13% O2)	0.31 %
Mean Flue Gas Temperature	347 °C
Flue Gas Mass Flow	12.5 g/s

This appliance is not suitable for use in a shared flue

This appliance is suitable for continuous burning

Assembly Instructions

PLEASE READ THESE INSTRUCTIONS CAREFULLY

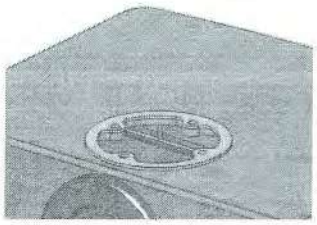
It is important that your stove is correctly installed, as Hunter Stoves Limited cannot accept responsibility for any fault arising through incorrect use or installation.

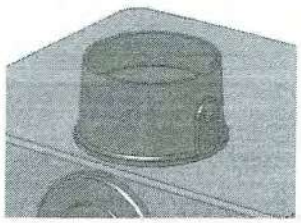
Important Warning

This stove must **not** be installed into a chimney that serves any other heating appliance. There must **not** be an extractor fan fitted in the same room as the stove as this can cause the stove to emit fumes into the room.

Flue Collar

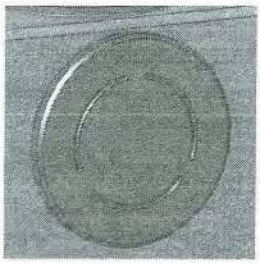
Place the Flue Gasket on the top or rear outlet as required. Place the Flue Collar on top of the Gasket. Secure to the four locating tabs, inside the flue outlet, using the M6 nuts & bolts supplied. Fit the 2 - M8 carriage bolts, washers & nuts into the Damper Holes, located on each side of the Flue Collar.



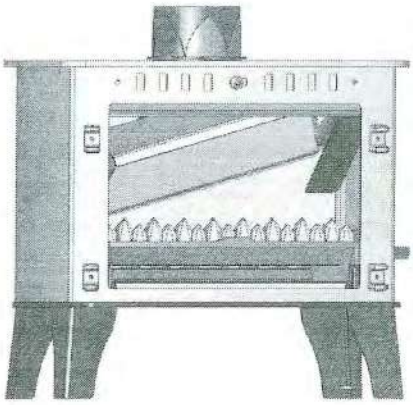


Blanking Plate

Fit the Flue Gasket and Blanking Plate on the remaining free outlet and secure it, using the 2 - M6 screws.



Baffle Removal/fitting



Lift the Baffle and slide to the right. When the left side of the Baffle clears the support, lower the Baffle into the Fire Box and remove. Refit in reverse order making sure that the back edge of the baffle is located between the two baffle supports.

Installation Instructions

READ THESE INSTRUCTIONS CAREFULLY BEFORE INSTALLATION

These instructions cover the basic principles to ensure satisfactory installation of the stove, although detail may need slight modification to suit particular local site conditions. In all cases the installation must comply with current Building Regulations, Local Authority Byelaws, and national standards and other specifications or regulations as they affect the installation of the stove. It should be noted that the Building Regulations requirements may be met by adopting the relevant recommendations given in ASNZ2918:2001 as an alternative means to achieve an equivalent level of performance

Health And Safety Precautions

Handling

Adequate facilities must be available for loading, unloading and site handling.

Fire Cement

Some types of fire cement are caustic and should not be allowed to come into contact with the skin. In case of contact, wash immediately with plenty of water.

Asbestos

This stove contains no asbestos. If there is a possibility of disturbing any asbestos in the course of installation then please seek specialist guidance and use appropriate protective equipment.

Metal Parts

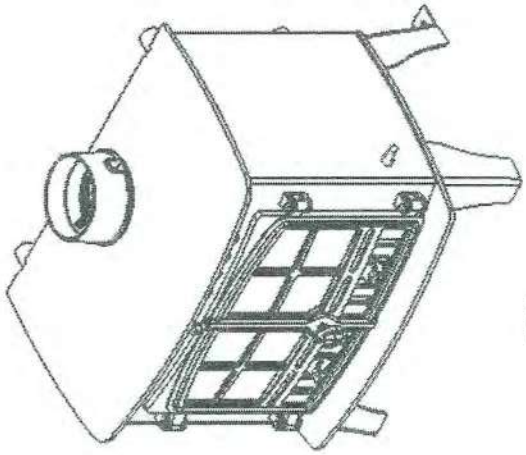
When installing or servicing this stove, care should be taken to avoid the possibility of personal injury.

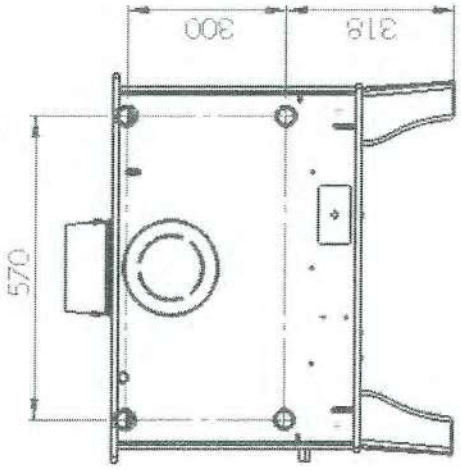
POSITIONING YOUR FREE-STANDING STOVE (WOODFIRE)

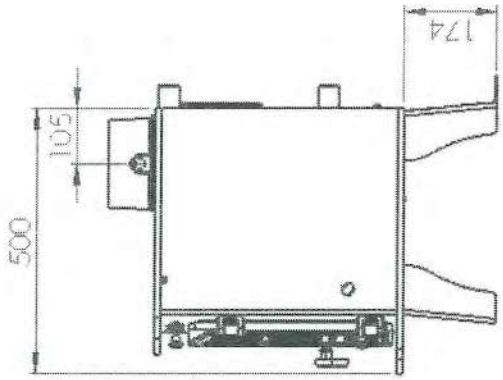
No wall or other fixed object may be closer to the front of the wood fire than one meter.
When fitting a hot water boiler, the wood stove should be close (no more than 10m of Pipe) to the water cylinder.

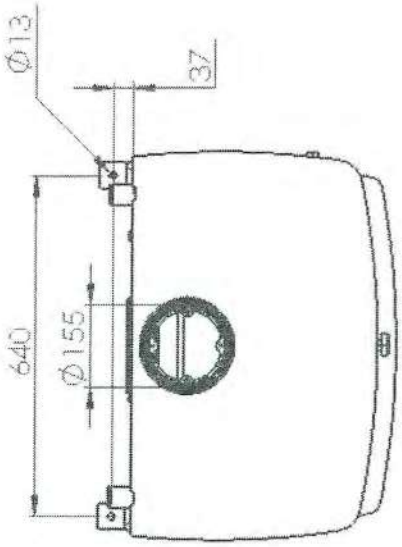
Determine the installation position for your wood fire only after considering the necessary clearances and checking the practicability of installing the flue system.
Regard heat resistant walls with heat sensitive surface treatments (e.g. wallpaper or heat sensitive paints) as heat sensitive walls.
There must be a 25mm gap between the flues casing (see Installation Specification Sheets for size) and any combustible material. This space must be available without the removal of structural beams.
Flue installations other than strictly vertical ones are possible. See AS/NZS 2918 for Information on non-vertical flues and flues passing through walls and eaves.

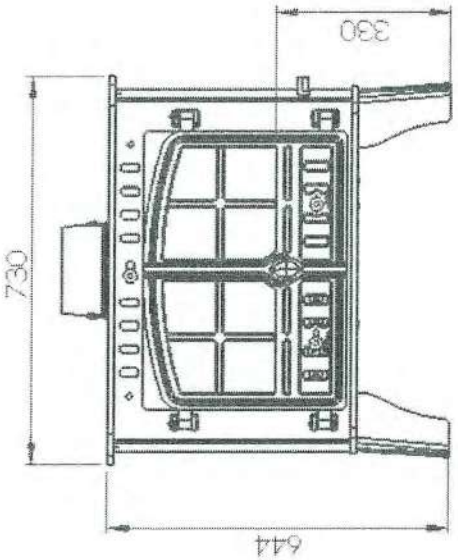
Herald 14 Wet Dimensions (In Millimetres)











Installation

Installing the Flue

Only flue systems tested for the appliance can be used.
The flue system to be used is a CCHS150.

Full instructions are supplied with the flue kit, and these MUST be followed closely, including the minimum flue exit height from the top of the floor protector and the minimum exit height above the roofline or roof ridge as detailed in the instructions.

Always seal the flue to the flue socket of the firebox using firebox cement and/or fibreglass rope.

Other Flue Systems

Flues and flue heat shields other than those listed on the Installation Specification Sheets may be used, but if they have not been tested with these heaters, their installation Clearances will be those specified in AS/NZS 2918:2001 for untested flue installations. Unless otherwise specified, all heat sensitive wall material must be kept at least 600mm away from any flue, which is not fitted with a flue heat shield.

Flue Draught

A flue draught of minimum 1.2mm to a maximum 2.5mm water gauge is required for satisfactory appliance performance. The flue draught should be checked under fire at high output. If it exceeds the recommended maximum, a draught stabiliser must be fitted so that the rate of burning can be controlled and to prevent over firing. If the reading is less than the recommended minimum then the performance of the appliance will be compromised.

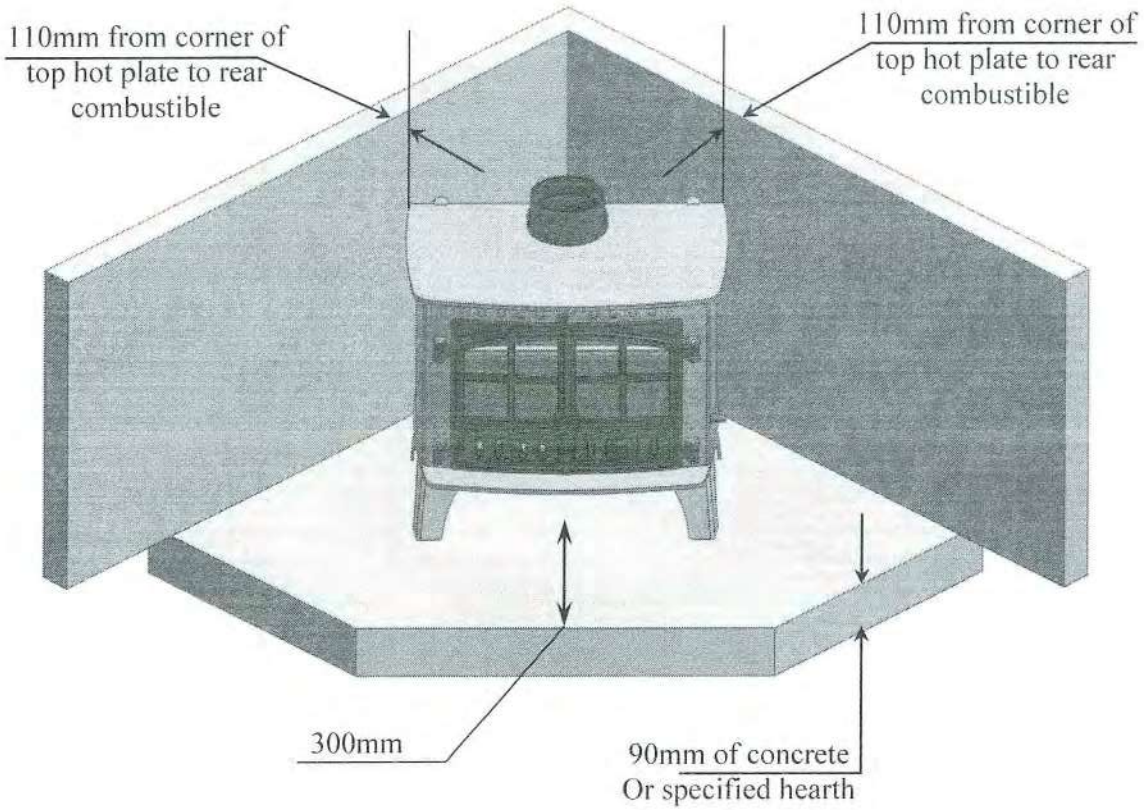
Air Supply

The room or space containing this appliance needs a permanent, unobstructed air opening of at least 4950 mm^2.
If a draught stabiliser is fitted, the air opening should be at least 9150 mm^2. Due consideration should be given to air requirements for any other appliances in the same room or space.

Material Clearances

Corner Orientation

Where the sides of the stove are at 45 degrees to the walls
Rear corner of the stove to combustibles is 110mm



These clearances can be reduced by using shield as stated in ASNZ 2918:2001

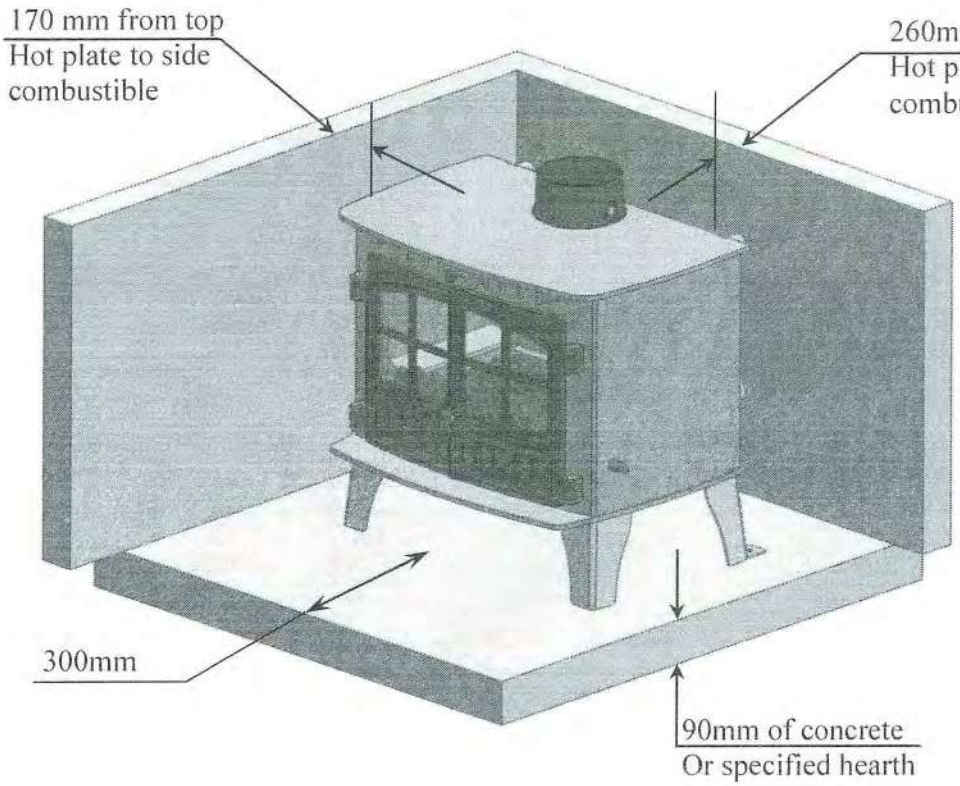
There should be **NO** combustible material (i.e. furniture) placed within a distance of **900mm** from any surface of the stove.

Note: combustible material refers to any material that will degrade when subjected to heat e.g. plaster.

Normal Orientation

MINIMUM DISTANCE TO COMBUSTIBLE MATERIAL	
Behind the stove	260mm
At the side of the stove	170mm

Material Clearances



Note: walls and hearth are non-combustible and all dimensions stated are minimum

FLOOR PROTECTOR (Hearth) REQUIREMENTS —

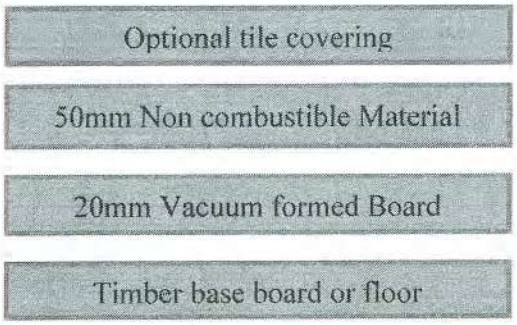
Freestanding models

Unless your wood fire will be standing on an un-covered fireproof floor 90mm of concrete (containing no combustible material) extending at least 500mm from the appliance, it will be necessary to provide a floor protector (hearth). See below for construction details. (Fig 1)

Where the minimum size requirements bring the side of the floor protector nearly to a wall, it is advisable to extend the protector to meet the wall.

This is the only tested floor protection and must be used on timber floors
Raw hearth can be covered in ceramic tiles or bricks.

Fig1

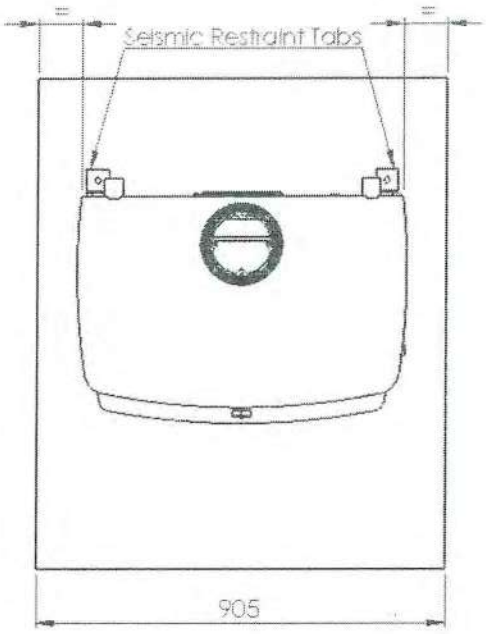


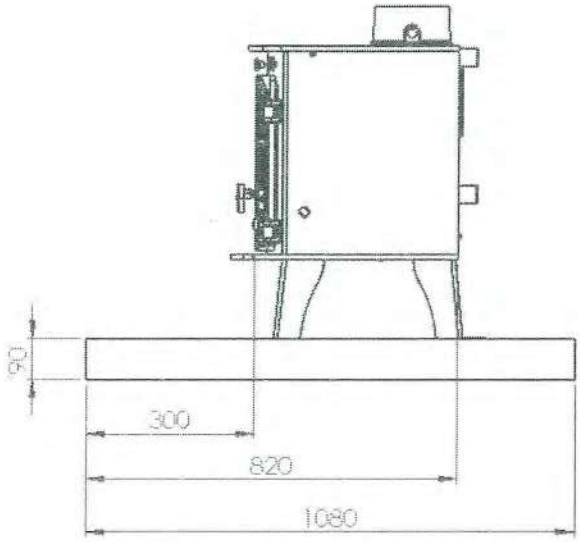
Hearth Size

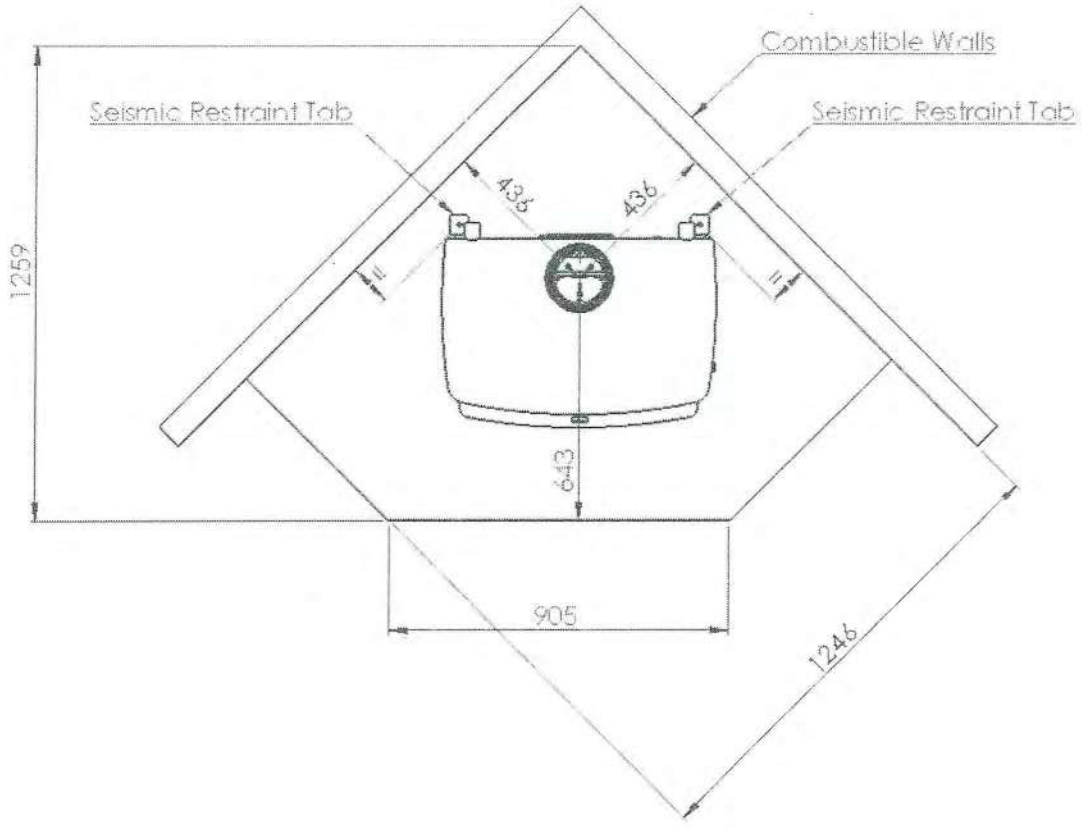
The minimum size hearth for a Herald 14 Central Heating Stove is 905mm wide with the stove sitting central on the hearth.

The minimum measurement from the front of the hearth to the back of the stove's bottom plate is 820mm. This measurement gives the minimum hearth requirement of 300mm.

Total length of the hearth when no wall shielding is used is 1080mm.







Earthquake Restraints

In New Zealand, Standards require that the wood fire and floor protector be secured to prevent shifting in the event of an earthquake.

On the hind most legs there are two tabs with 12mm diameter holes for seismic restraint

- On a concrete floor installation your Hunter stove is secured by 2 x 10mmx60mm concrete anchors

- Hearth over timber floor installation your Hunter stove is secured by 2 x 10mm diameter coach screws which are long enough to pass through the hearth and into the timber floor or 2 x 10mm diameter bolts which are long enough to pass through the floor and all hearth materials and bolt all together.

INSTALLATION OF BOILER MODELS

We strongly recommend that a knowledgeable, experienced and qualified plumbing and heating engineer is responsible for the design and installation of the heating and hot water system. Hunter Stoves Ltd cannot accept responsibility for any consequential loss, however caused, due to under or over specification of the appliance in any installation.

Do Not – Under any circumstances connect the stove to a sealed (pressurised) heating system or unvented hot water cylinder.

Do Not – Link the stove into a heating or hot water system with an existing boiler without the use of suitable equipment such as a neutralizer. When fitting this type of system the neutralizer manufacturers instructions must be followed.

Do – Fit an open cold feed and expansion cistern with separate cold feed and vent pipes. The cold feed and vent pipes must be unvalved. The open vent pipe should have a diameter of 22mm and rise continuously from the boiler. It is common practice to form the vent pipe from an extension of the primary flow (see diagram).

Do – Connect the stove to a **double feed, indirect** hot water cylinder via 28mm copper flow and return pipework, rising continuously from the boiler to the cylinder. The cylinder and heat leak radiator must be sited higher than the stove.

Semi pumped systems should be used on heating and hot water systems with gravity circulation to the hot water cylinder and one unvalved 2 KW radiator to act as a heat leak when the central heating is switched off.

All four tappings on wraparound boilers should be used for systems incorporating separate gravity and pumped heating loops. Each flow and return should be taken from diagonally opposite sides of the boiler.

If a common flow and return is used, these should also be taken from diagonally opposite sides of a wraparound boiler, and plugs inserted into the sockets not used.

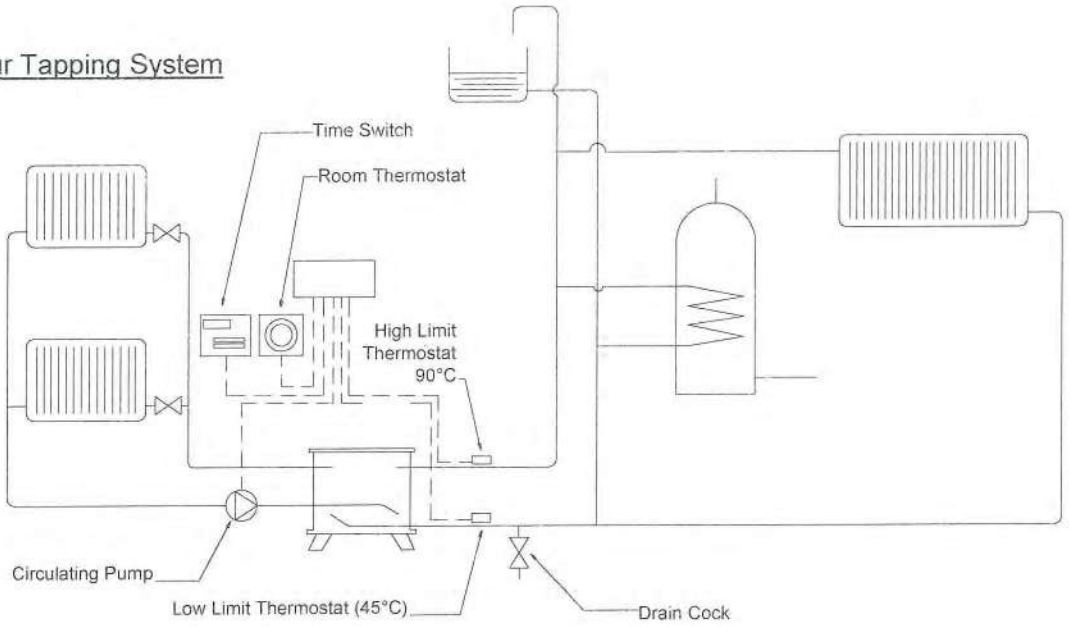
Systems using a common flow and return to the boiler should incorporate an injector tee on the primary return connection from the central heating pump (see diagram).

A HIGH LIMIT thermostat should be fitted to the gravity flow pipe close to the boiler and set at 90°C. This should override any pump control, switching the pump on and dissipating any excess heat around the radiator circuit.

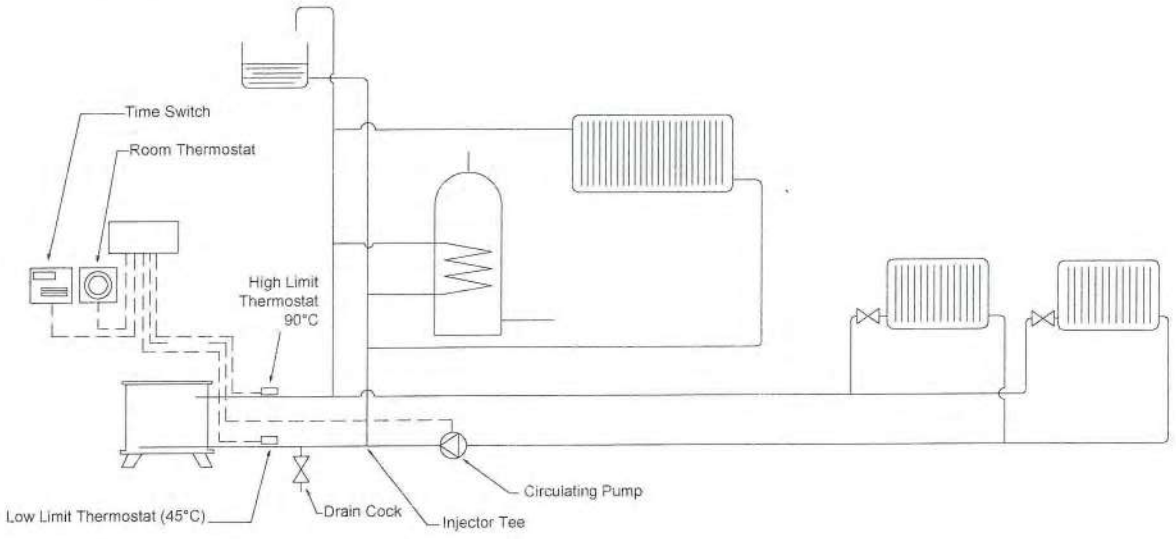
To prevent boiler corrosion due to condensation it is necessary to maintain the return water temperature above 45°C. This can be achieved by the use of a LOW LIMIT thermostat on the return pipe from the hot water cylinder, close to the boiler. The thermostat should make on temperature rise, preventing the circulating pump from operating until the gravity circuit is up to temperature.

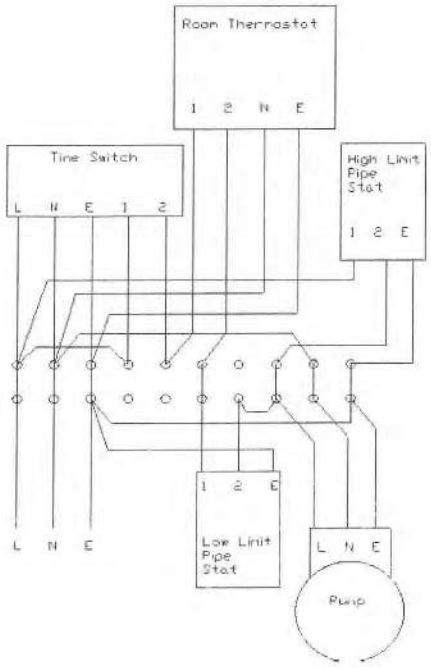
A corrosion inhibitor should be added to the system to ensure satisfactory performance and long system life.

Four Tapping System



Two Tapping System





Wiring Diagram for general guidance only

All electrical work must be carried out by a competent electrician in accordance with the rules in force and the instructions provided by the circulating pump and heating controls manufacturer

Commissioning and Handover

Upon completion of the installation, allow a suitable period of time for any fire cement and mortar to dry out.

A small fire may then be lit and checked to ensure the smoke and fumes are taken from the stove up the chimney and emitted safely to atmosphere. Do not run the stove at full output for at least 24 hours.

On completion of the installation and commissioning, ensure that the operating instructions and operating tools for the stove are left with the customer.

Advise the customer on the correct use of the appliance with the fuels likely to be used on the stove and warn them to use only the recommended fuels for the stove.

Advise the user on what to do should smoke or fumes be emitted from the stove.

The user should be warned to use a fireguard in the presence of children, aged and/or infirm persons.

Operating Instructions

This appliance is **not** suitable for use in a shared flue
This appliance should **not** be operated with the doors open

Aerosol Sprays

Do not use an aerosol spray on or near the stove when it is alight.

Air Controls

This stove has been designed to burn cleaner and more efficiently than a conventional wood burning stove. If used correctly this stove will burn far more efficiently than normal with the obvious notable feature of CLEAN GLASS.

However, for this product to work properly it must be used correctly.
It is essential that the stove has an adequate air supply for combustion and ventilation.

The primary and secondary air inlets must be kept clear from obstruction and blockage.

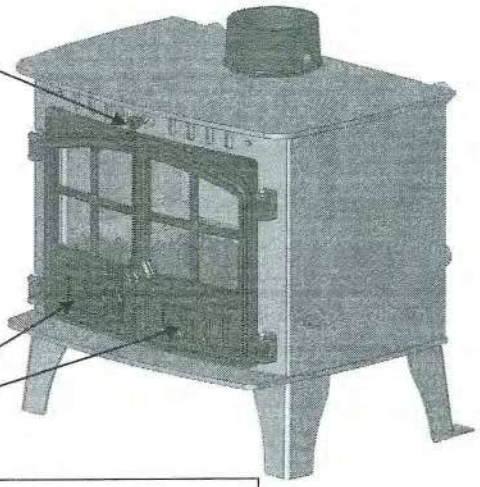
Air Controls

Secondary Air Control (Open Right)

Secondary Air
Secondary air is controlled via the slider above the doors; it is this "Airwash" that keeps a clean and uninterrupted view of the fire.

Primary Air
The thermostat at the rear of the stove controls the primary air. The door sliders should be kept closed or the thermostat will not be able to control the fire.

Primary Air Control (Open Outwards)

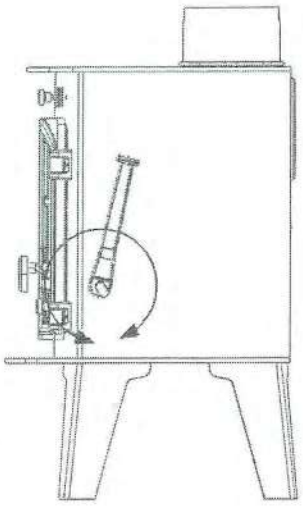


Warning! This Appliance will be **hot** when in operation and due care should be taken. The riddling tool may be used to operate the door handle. Thick gloves could be used to operate the primary and secondary air controls.

Damper Assembly (Optional)

When the damper is set in the open position the chimney draws at full draught, increasing the volume of airflow through the stove and flue. Shutting the damper restricts the flow, slowing the rate of burning. Close all other air controls and allow the fire to die down before closing the damper.

Multifuel Grate



Your Hunter Stove is fitted with a locomotive type grate. So that de-ashing can be carried out cleanly and easily, it is riddled from the outside of the stove with the doors closed. The grate is designed to burn both wood and solid fuels.

To burn solid mineral fuels place the operating tool over the riddling spigot and pull it down towards you. When left in that position, air is directed under and up through the slots in the firebed, giving the optimum conditions for burning solid fuels.

It is important that the riddling tool is used to remove the ash to ensure airflow through the firebed and allow the fire to burn over the entire area of the grate.

The ashpan should be emptied at least daily and ash should never be allowed to build up over a period of time as this will result in damage to the fire bars. The flat end of the riddling tool can be used to carry the ashpan.

To burn wood, push the operating tool up and away from you. When left in this position, air is restricted through the bed of the fire providing a solid base to build up a bed of ash. Surplus ash can be removed either by gentle riddling or with a shovel.

It might prove beneficial when burning more reactive fuels to leave the grate in a "neutral" position, thus directing some under fire air and some over fire air to the firebed.

Notes on solid mineral fuel burning

Solid mineral fuel should be placed in the stove so that there is no more than a 30° incline of the fuel bed from front to back. It should **not** be stacked above the bottom of the baffle as this may result in damage to the stove.

With a full load of fuel, the stove will need to be refuelled approximately once every 4 hours.

Solid mineral fuel burns most efficiently with the secondary air control in the closed position. The thermostat control can then be used to control the burn rate of the stove. For optimum performance when burning only solid-mineral fuel, it may also be beneficial to close the tertiary air cover plate on the back of the stove.

Always de-ash before refuelling and do not let the ash build up to the underside of the grate bars. Solid mineral fuel produces ash, which if allowed to build up will stifle the airflow through the Primary air sliders and grate. This will eventually cause the fire to die.

With some solid mineral fuels a residue of burnt fuel or clinker will accumulate on the grate, allow the fire to go out periodically to remove this.

Important! - We cannot stress firmly enough how important it is to empty the ashpan regularly. Air passing through the firebed cools the grate bars. Distortion or burning out the grate bars is nearly always caused by ash being allowed to build up to the underside of the grate.

Notes on Wood burning

With a full load of wood, the stove will need to be refuelled approximately once every 1.5 hours.

Wood can be stacked higher in the stove than solid mineral fuel but care must be taken that logs do not move the baffle.
Wood burns most efficiently with the primary air sliders in the closed position and the secondary control open. Moving the secondary control will control the burn rate of the stove.

Note - primary and secondary air is needed to light the stove, see section entitled 'Lighting the Stove'

Wood burns best on a bed of ash and it is therefore only necessary to remove surplus ash from the stove occasionally.
Burn only dry, well-seasoned wood, which should have been cut, split and stacked for at least 12 months, with free air movement around the sides of the stack to enable it to dry out. Burning wet or unseasoned wood will create tar deposits in the stove and chimney and will not produce a satisfactory heat output.

Lighting the Stove

We recommend that you have two or three small fires before you operate your stove to its maximum heat output. This is to allow the paint to cure in steadily and to give a long service life of the paint finish. During this curing in process you may notice an unpleasant smell. It is non-toxic, but for your comfort we would suggest that during this period you leave all doors and windows open.

First, load the fire with starting fuel, i.e. paper, dry sticks and/or firelighters in the mode chosen, either wood or solid mineral fuel.

Light the fire at the base leaving all air controls open. Allow the fuel to reach a steady glow and build the fire up gradually. Once you have a good fire established across the grate bed, further fuel can be added as required.

Extended burning

The stove can be banked up for extended burning. When burning solid fuel, empty the ashpan. Open air controls and let the fire burn brightly for a short period. Refuel and close primary and secondary air controls, the exact setting required will depend on the fuel used and the chimney draw so some practice may be necessary. To revive the fire, open the air controls until the fire is burning brightly de-ash if necessary and refuel. Set air controls as required.

Reduced Combustion

In order to reduce the combustion of the fire to a minimum, close the primary air sliders, then close the secondary air slider by moving the handle all the way to the left. If the controls are left in this position, the fire will receive the minimum of air and will die down. If you want to revive the fire it is recommended that the Thermostat control is open first and then open the secondary air slider.

Warning! - The stove will remain **hot** for a considerable time after the fire has been extinguished.

Safety notes for your guidance

FIRES CAN BE DANGEROUS – Always use a fireguard in the presence of children, the elderly or the infirm.

DO NOT OVERFIRE – it is possible to fire the stove beyond its design capacity, this could damage the stove, so watch for signs of overfiring – if any part of the stove starts to glow red, the fire is in an overfire situation and the controls should be adjusted accordingly. Never leave the stove unattended for long periods without first adjusting the controls to a safe setting – careful air supply control should be exercised at all times.

WARNING – FUME EMISSION

Properly installed and operated, this appliance will not emit fumes. Occasional fumes from de-ashing and refuelling may occur. Persistent fume emission must not be tolerated.

If fume emission does persist, then the following immediate action should be taken: -

1. Open doors and windows to ventilate room.
2. Let the fire out, or eject and safely dispose of fuel from the appliance.
3. Check for flue chimney blockage and clean if required.
4. Do not attempt to re-light the fire until the cause has been identified and corrected.

If necessary, seek professional advice.

Important! – Do not fit an extractor fan in the same room as this appliance.

IN THE EVENT OF A CHIMNEY FIRE

- Raise the alarm to let others in the house know.
- Call the Fire Brigade.
- Reduce the appliance-burning rate by closing all air controls.
- Move furniture and rugs away from the fireplace and remove any nearby ornaments.
- Place a fireguard or spark guard in front of the stove.
- Feel the chimney breast for signs of excessive heat.

If the wall is becoming hot, move the furniture away. Ensure that the Fire Brigade can gain access to your roof space in order to check this area for signs of fire spread.

GENERAL MAINTENANCE

NO unauthorised modification of this appliance should be carried out.

This appliance requires regular maintenance by a competent engineer.

Baffle

This should be removed and cleaned at least once a month to prevent any build up of soot or fly ash that could lead to blocked flue ways and dangerous fume emission.
If the baffle is removed the chimney/flue way can be swept through the appliance (top flue outlet with no damper fitted).

Stove Body

The stove is finished with a heat resistant paint and this can be cleaned with a soft brush. Do not clean whilst the stove is hot; wait until it has cooled down. The finish can be renovated with Hunter stove paint.

Glass Panels

Clean the glass panels when cool with a Hunter glass cleaner. Highly abrasive substances should be avoided as these can scratch the glass and make subsequent cleaning more difficult. Wet logs on heated glass, a badly aimed poker or heavy slamming of the doors could crack the glass panels. The glass will not fracture from heat.

Firebricks

In normal use, these can last for many years. It is possible however, to crack them if logs are continually jammed against them or if they are frequently struck with a poker.
Check periodically for seriously cracked bricks, which can be replaced with new; available from your dealer.

Door Catch

Should the door catch require adjustment, to maintain the door seal, it is adjustable. By slackening the locking nut and turning the door handle one turn clockwise, you will achieve a tighter lock when the door is closed.

Rope

Check the rope around the door and glass. If rope is becoming detached, use Hunter Stoves rope glue to reattach it. If the rope is in a poor condition, a replacement rope kit may be ordered from the Hunter Stoves spares range.

Boiler & Radiator

The boiler and radiator water needs to be treated yearly with boiler treatment, and flushed once every five years and replenished with treated water.

Chimney and Flue ways

It is important that the chimney, flue ways and any connecting flue pipe are swept regularly. This means at least once a year for smokeless fuels and at least twice a year for wood and other fuels.
The baffle will need to be removed from its supports in order to sweep the chimney (see assembly instructions).

Only wire-centred sweeps' brushes fitted with a guide wheel should be used.

If it is not possible to sweep all parts of the chimney through the appliance, ensure there is adequate access to cleaning doors.

If the stove is fitted in place of an open fire, then the chimney should be swept one month after installation to clear any soot falls which may have occurred due to the difference in combustion between the stove and the open fire.

Gaskets

All gasket used on this appliance are produced from a heat resistant material called Manniglas. Over time you may find that the gasket changes colour. This is due to a reduction in the pigment used in the manufacture of the product, and is no cause for concern.

Troubleshooting

Fire will not burn

Check that:

1. The air inlet is not obstructed in any way.
2. Chimneys and flue ways are clear.
3. A suitable fuel is being used.
4. There is an adequate air supply into the room.
5. An extractor fan is not fitted in the same room as the stove.
6. Flue draught is above minimum level (see installation instructions).

Fire blazing out of control

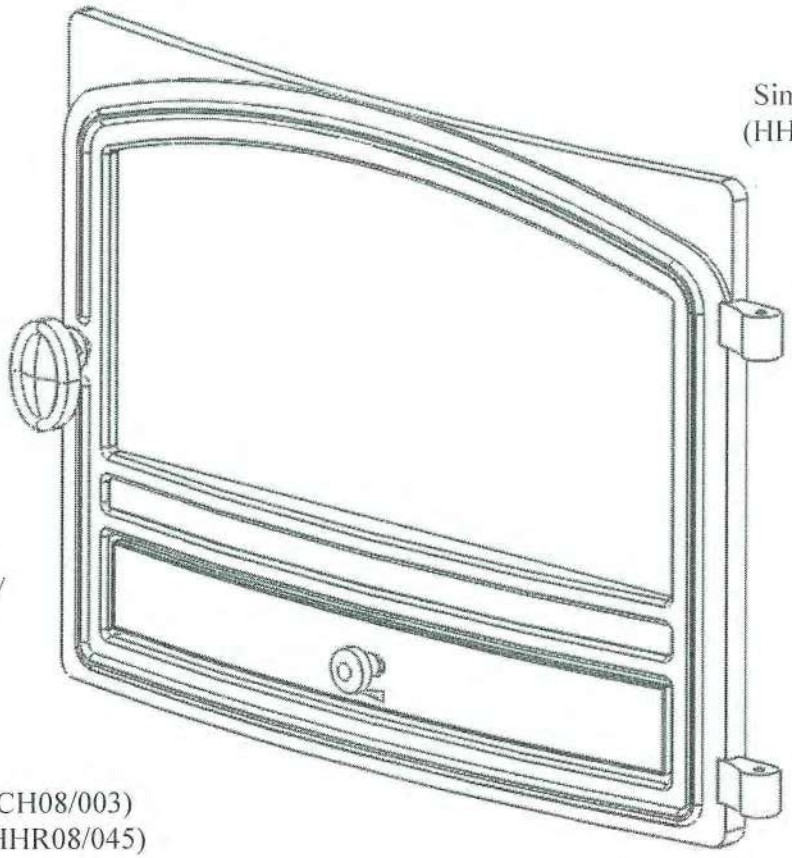
Check that:

1. The doors are tightly closed.
2. The air controls are all in the closed position.
3. A suitable fuel is being used.
4. The glass retaining clips are not loose.
5. The door rope seals are in good condition
6. Flue draught is below maximum level (see installation instructions).

STOVE SPARES

Only Hunter Stoves authorised spares should be used with this appliance

SINGLE DOOR



Door Glass
(HHR08/074)

Glass Gasket
(HHR08/075)

Door Handle
(HCR06/059)

Door Catch Assembly
(HH04/ARRT/034)

Door Slider (CH08/003)
Slider Knob (HHR08/045)

Single Door
(HHR08/072)

Glass Clip
(HHR08/164)

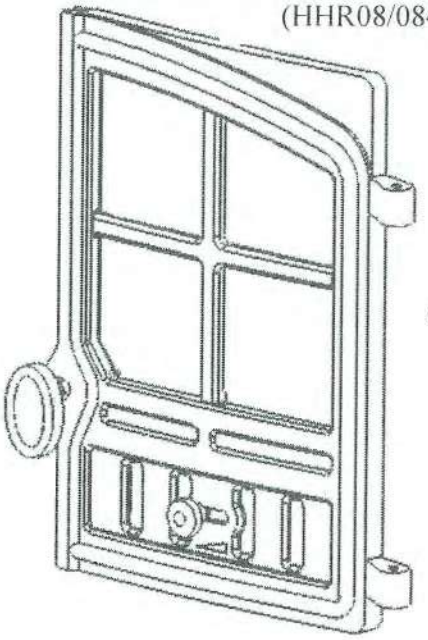
Glass Clip Screw
(FSJM05008SS)

Door Cover
(HHR08/073)

Rope Sealing Kit
(SCPH8SDSK)

RIGHT HAND DOOR

Right Hand Door
(HHR08/084)



Door Glass
(HHR08/082)

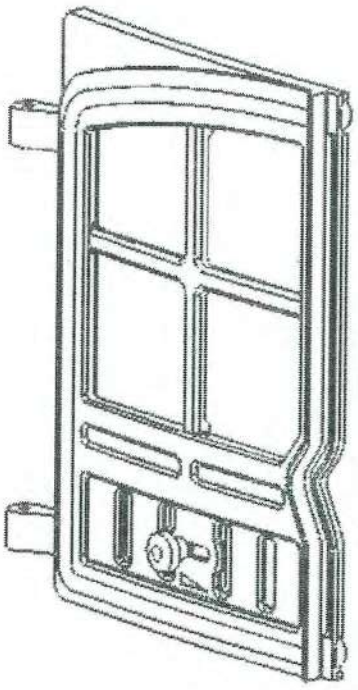
Glass Gasket
(HHR08/081)

Glass Clip (HHR08/046)
Glass Clip Screw (FSJM05008SS)

Door Knob (HCR06/059)
M8 Full Nut (FNFM08)
Catch Shaft (HHR08/111)
Circlip (FLRX07)
M8 Full Nut (FNFM08)
Catch (HMSS04/037)

Door Slider (HHR08/199)
Slider Knob (HHR08/045)

LEFT HAND DOOR



Left Hand Door
(HHR08/079)

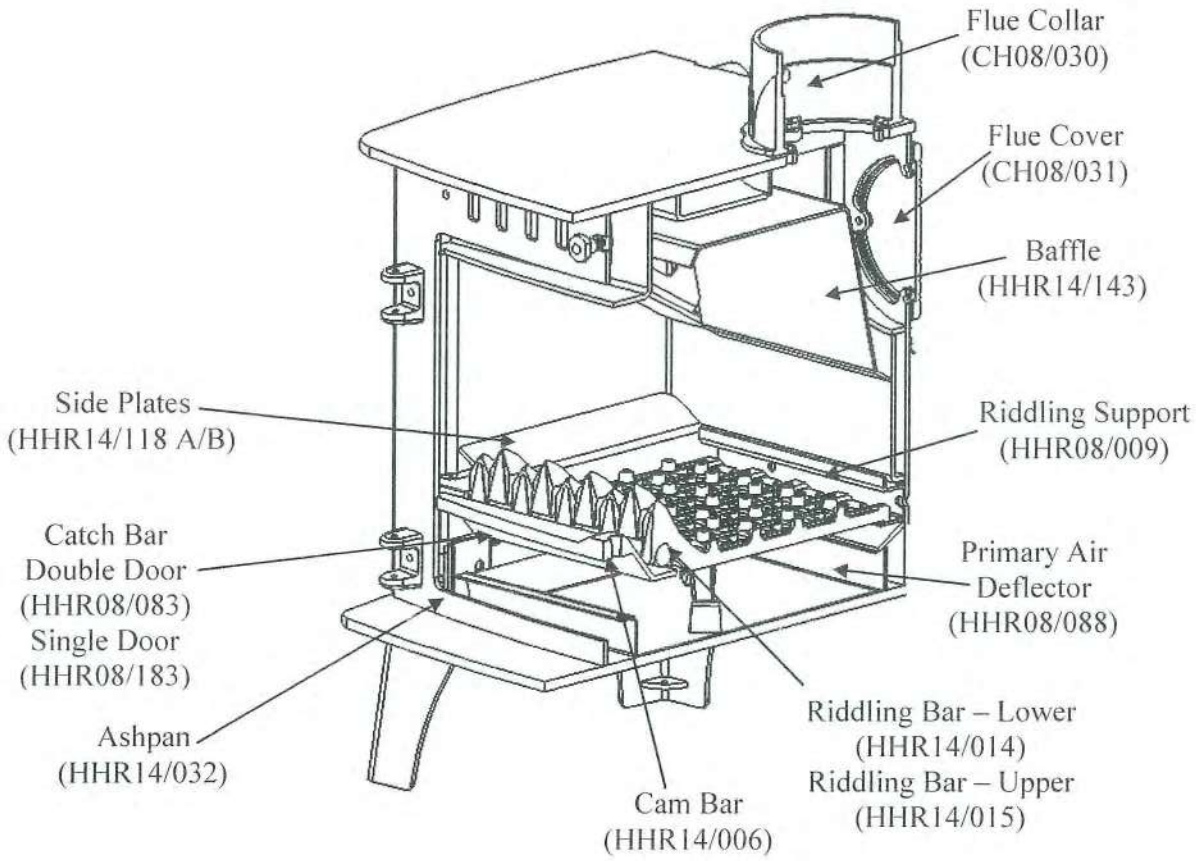
Glass Clip (HHR08/046)
Glass Clip Screw (FSJM05008SS)

Door Glass
(HHR08/082)

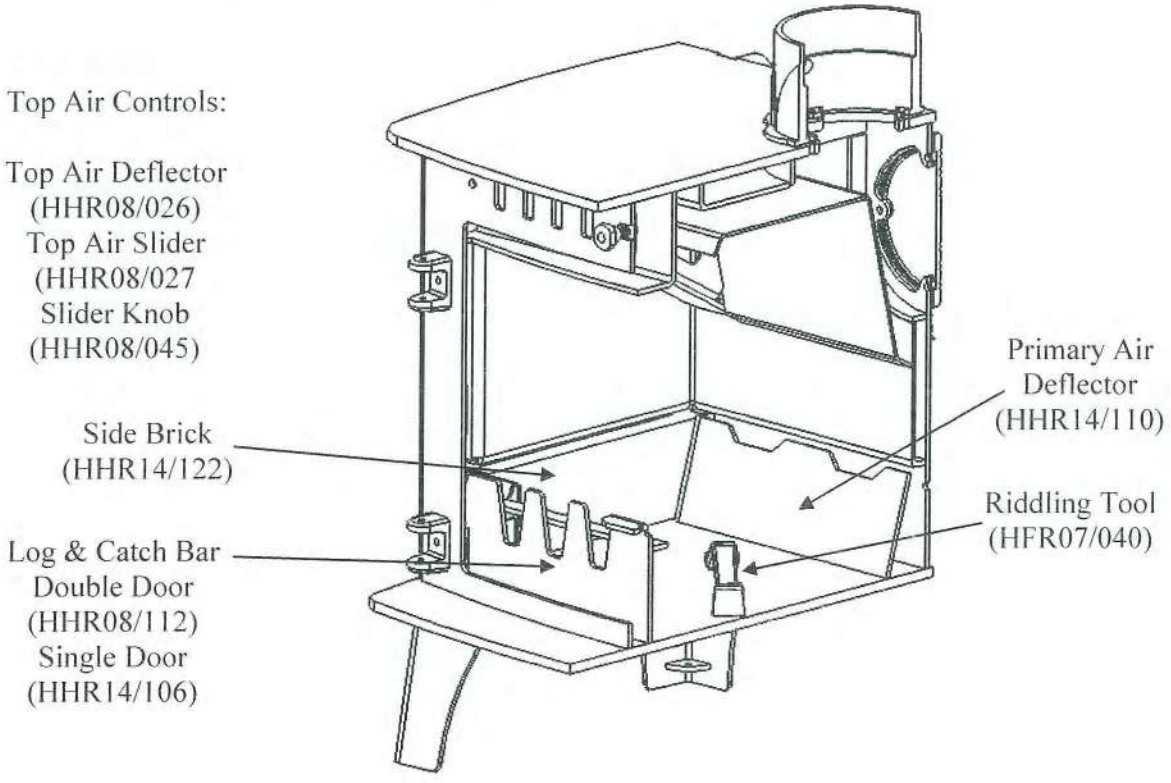
Glass Gasket
(HHR08/081)

Door Slider (HHR08/199)
Slider Knob (HHR08/045)

STOVE BODY ASSEMBLY - PART SECTION - MULTIFUEL



STOVE BODY ASSEMBLY - PART SECTION - WOOD



SREVICE RECORDS

"Services is Yearly for warranty"

1ST SERVICE
Date of Service:.....
Signed:.....
Company:.....
Next Service Due:.....

Baffle		Door Seals	
Boiler Treatment		Flue Cleaned	
Bricks		Grate	

2ND SERVICE
Date of Service:.....
Signed:.....
Company:.....
Next Service Due:.....

Baffle		Door Seals	
Boiler Treatment		Flue Cleaned	
Bricks		Grate	

3RD SERVICE
Date of Service:.....
Signed:.....
Company:.....
Next Service Due:.....

Baffle		Door Seals	
Boiler Treatment		Flue Cleaned	
Bricks		Grate	

4TH SERVICE
Date of Service:.....
Signed:.....
Company:.....
Next Service Due:.....

Baffle		Door Seals	
Boiler Treatment		Flue Cleaned	
Bricks		Grate	

5TH SERVICE
Date of Service:.....
Signed:.....
Company:.....
Next Service Due:.....

Baffle		Door Seals	
Boiler Treatment		Flue Cleaned	
Bricks		Grate	
Radiator Flush			

6TH SERVICE
Date of Service:.....
Signed:.....
Company:.....
Next Service Due:.....

Baffle		Door Seals	
Boiler Treatment		Flue Cleaned	
Bricks		Grate	

7TH SERVICE
Date of Service:.....
Signed:.....
Company:.....
Next Service Due:.....

Baffle		Door Seals	
Boiler Treatment		Flue Cleaned	
Bricks		Grate	

8TH SERVICE
Date of Service:.....
Signed:.....
Company:.....
Next Service Due:.....

Baffle		Door Seals	
Boiler Treatment		Flue Cleaned	
Bricks		Grate	

9TH SERVICE
Date of Service:.....
Signed:.....
Company:.....
Next Service Due:.....

Baffle		Door Seals	
Boiler Treatment		Flue Cleaned	
Bricks		Grate	

10TH SERVICE
Date of Service:.....
Signed:.....
Company:.....
Next Service Due:.....

Baffle		Door Seals	
Boiler Treatment		Flue Cleaned	
Bricks		Grate	
Radiator Flush			

11TH SERVICE
Date of Service:.....

Signed:.....

Company:.....

Next Service Due:.....

Baffle		Door Seals	
Boiler Treatment		Flue Cleaned	
Bricks		Grate	

12TH SERVICE
Date of Service:.....

Signed:.....

Company:.....

Next Service Due:.....

Baffle		Door Seals	
Boiler Treatment		Flue Cleaned	
Bricks		Grate	

13TH SERVICE
Date of Service:.....

Signed:.....

Company:.....

Next Service Due:.....

Baffle		Door Seals	
Boiler Treatment		Flue Cleaned	
Bricks		Grate	

14TH SERVICE
Date of Service:.....

Signed:.....

Company:.....

Next Service Due:.....

Baffle		Door Seals	
Boiler Treatment		Flue Cleaned	
Bricks		Grate	

15TH SERVICE
Date of Service:.....

Signed:.....

Company:.....

Next Service Due:.....

Baffle		Door Seals	
Boiler Treatment		Flue Cleaned	
Bricks		Grate	
Radiator Flush			

16TH SERVICE
Date of Service:.....

Signed:.....

Company:.....

Next Service Due:.....

Baffle		Door Seals	
Boiler Treatment		Flue Cleaned	
Bricks		Grate	

17TH SERVICE
Date of Service:.....

Signed:.....

Company:.....

Next Service Due:.....

Baffle		Door Seals	
Boiler Treatment		Flue Cleaned	
Bricks		Grate	

18TH SERVICE
Date of Service:.....

Signed:.....

Company:.....

Next Service Due:.....

Baffle		Door Seals	
Boiler Treatment		Flue Cleaned	
Bricks		Grate	

19TH SERVICE
Date of Service:.....

Signed:.....

Company:.....

Next Service Due:.....

Baffle		Door Seals	
Boiler Treatment		Flue Cleaned	
Bricks		Grate	

20TH SERVICE
Date of Service:.....

Signed:.....

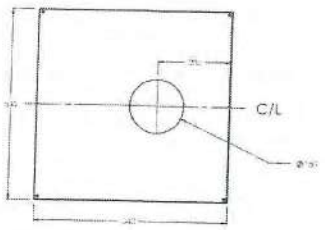
Company:.....

Next Service Due:.....

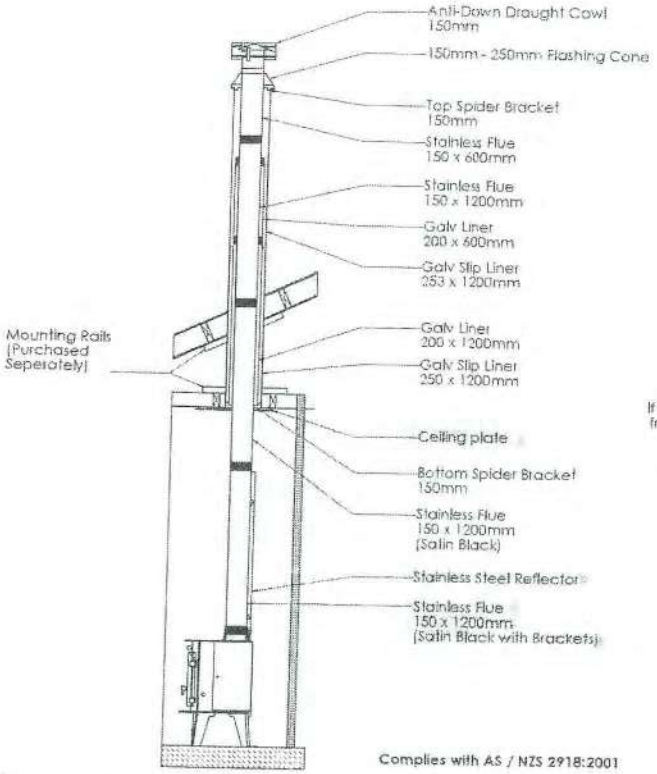
Baffle		Door Seals	
Boiler Treatment		Flue Cleaned	
Bricks		Grate	
Radiator Flush			

Classic Cookers ∅150mm Heat Shield Kit

Code	Qty	Description
CC150SB WITH BRACKETS	1	∅150mm x 1200mm Stainless Steel Flue (Satin Black, with Brackets)
CP150CC	1	∅150 Ceiling Plate (540mm x 540mm)
100	1	∅200mm x 600mm Galvanised Steel Liner
101	1	∅200mm x 1200mm Galvanised Steel Liner
156	1	∅250mm x 1200mm Galvanised Slip Liner
180	1	∅253mm x 1200mm Galvanised Slip Liner
202	1	∅150mm x 1200mm Stainless Steel Flue
202SB	1	∅150mm x 1200mm Stainless Steel Flue (Satin Black)
203	1	∅150mm x 600mm Stainless Steel Flue
1006	1	Stainless Steel Shield
522	1	Anti-Down Draught Cowl
602	1	Bottom Spider Bracket
622	1	Top Spider Bracket
802	1	∅150 - 250mm Flashing Cone



CEILING PLATE DETAIL
SCALE: 1:10

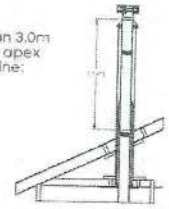


CCHS Min Flue Components

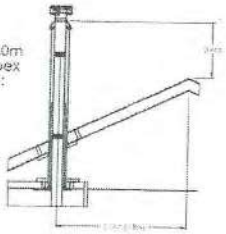
Complies with AS / NZS 2918:2001

MINIMUM HEIGHT OF FLUE SYSTEM EXIT (EXCLUDING COWL)

If more than 3.0m from roof apex centerline:

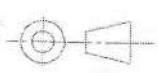


If less than 3.0m from roof apex centerline:



NOTES:

1. Refer to your nearest manufacturers recommendations for flue heights
2. Depending on local circumstances, taller chimneys may be required for satisfactory performance. Check with your local building authority.



DAVIN Industries Limited

CCHS150 KIT
30643
CLASSIC COOKERS - HEATSHIELD 150 KIT
AS PARTS
A3

Statement of Compliance with the NZ Building Code

Consent No: 170617

ISSUED BY: **Kapiti Coast District Council**

PROJECT

Site Address:	125 Nikau Palm Road, Paraparaumu
Legal Description:	LOT 4 DP 82049
Work Description:	Replacement installation 14 NZ V.11 multi fuel stove using existing flue & wetback (to central heating only)
Building Category:	R1

OWNER

Name(s): Thomas Roulston
Address: 125 Nikau Palm Road,Paraparaumu

[P] Application for CCC received and accepted
[P] Confirm all required inspections completed and documented in GoGet
[NA] If inspection(s) have been missed, have they been compensated for?
[NA] If supervision was required for any inspection - did it occur?
[P] Work in accordance with approved consent and approved amendments
[NA] Have any notices to fix been uplifted?
[P] Supporting documentation required in building consent addenda received
[P] Quality assurance documentation
[NA] Restricted building work
[NA] Additional information required and received
[NA] Compliance schedule issued
[NA] Earthquake prone building
[NA] Swimming Pool details updated
[NA] Warnings and Bans
[P] Approve to issue Code Compliance Certificate if all fees paid
[NA] Approve to issue Certificate for Public Use if all fees paid
[NA] Approve to issue Certificate of Acceptance if all fees paid
[NA] Supervision review

NOTES:
Inspections Prepaid:
Inspections Done:

On review of the documentation and inspection notes it can be considered on reasonable grounds that all work has been completed in compliance with the building consent.

Signed: Date: 12 September 2017
Name: Jeremy Lincoln
Position: Building Officer

GoGet Inspection Audit Report

Consent No: **170617**

Applicant: **Thomas Roulston**

Site Address: **125 Nikau Palm Road, Paraparaumu**

Work Type: **Replacement installation 14 NZ V.11 multi fuel stove using existing flue & wetback (to central heating only)**

Inspection Type: **Free Standing Solid Fuel Heater**

Inspection Outcome: **Pass**

Inspected By: **Jeremy Lincoln**

Inspection Date: **7 September 2017 3:53 p.m.**

Duration: **30 minutes**

Inspection Element	Status
Free Standing Solid Fuel Heater	Pass
Replacement appliance only/ reconnected to existing wetback system which heats central heating	
Flue height	N/A
Flue support ceiling	N/A
Roof	N/A
Ceiling plate **re images**	Pass
Seismic fixing **re images**	Pass
Flue flashing	N/A
Smoke detectors fitted	Pass
Make and model **Hunter herald**	Pass
Tempering Valve **existing**	N/A
Other **Distances from flammable materials OK** **inner flu only replaced**	Pass

Kapiti Coast District Council
175 Rimu Road
Private Bag 60601
Paraparaumu 5254
Phone (04) 296 4700

SITE NOTICE

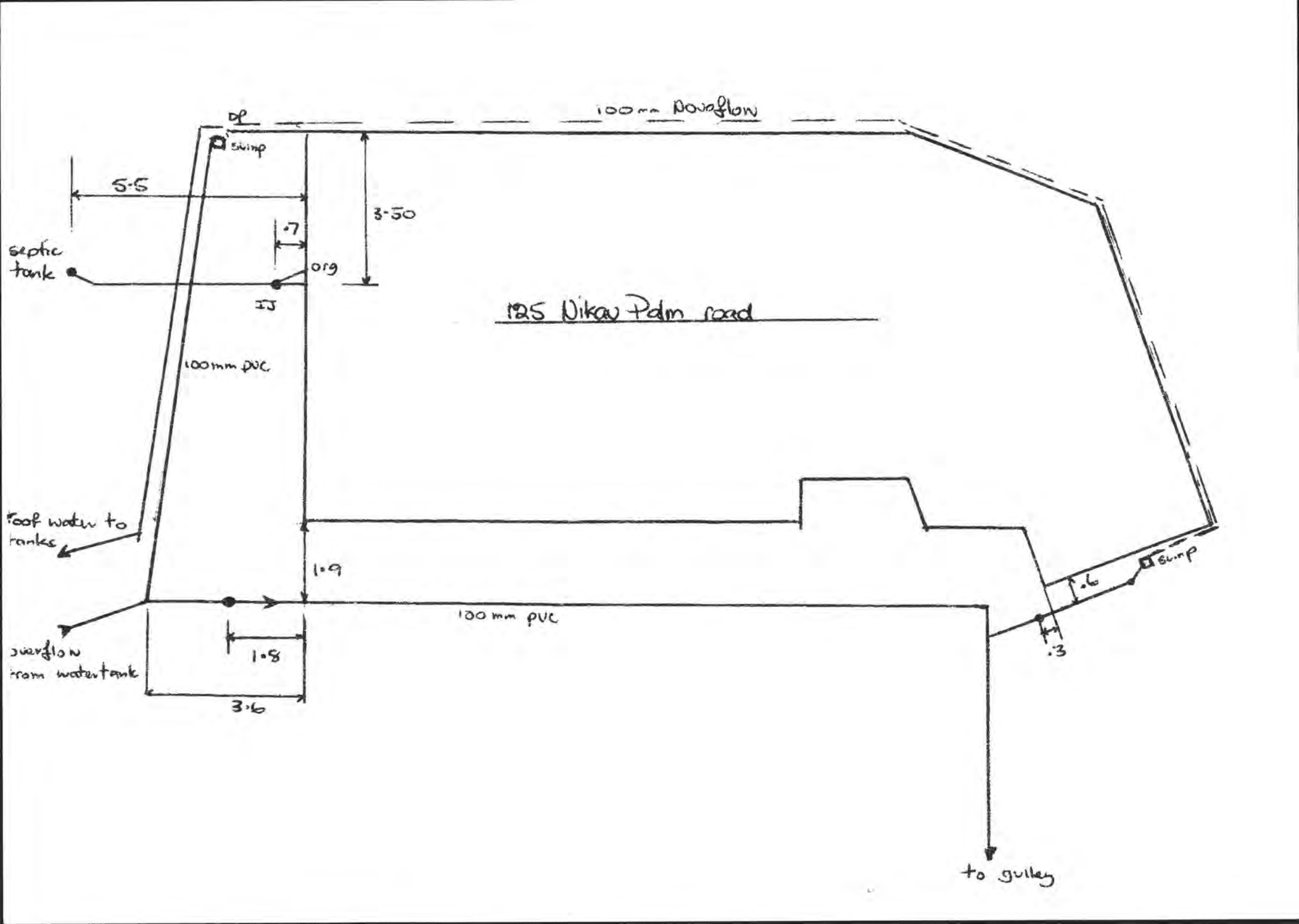
Consent No:	**170617**
Applicant:	**Thomas Roulston**
Site Address:	**125 Nikau Palm Road, Paraparaumu**
Work Type:	**Replacement installation 14 NZ V.11 multi fuel stove using existing flue & wetback (to central heating only)**
Building Category:	**R1**

Inspection Type:	**Free Standing Solid Fuel Heater**
Inspection Outcome:	**Pass**
Inspected By:	**Jeremy Lincoln**
Inspection Date:	**7 September 2017**

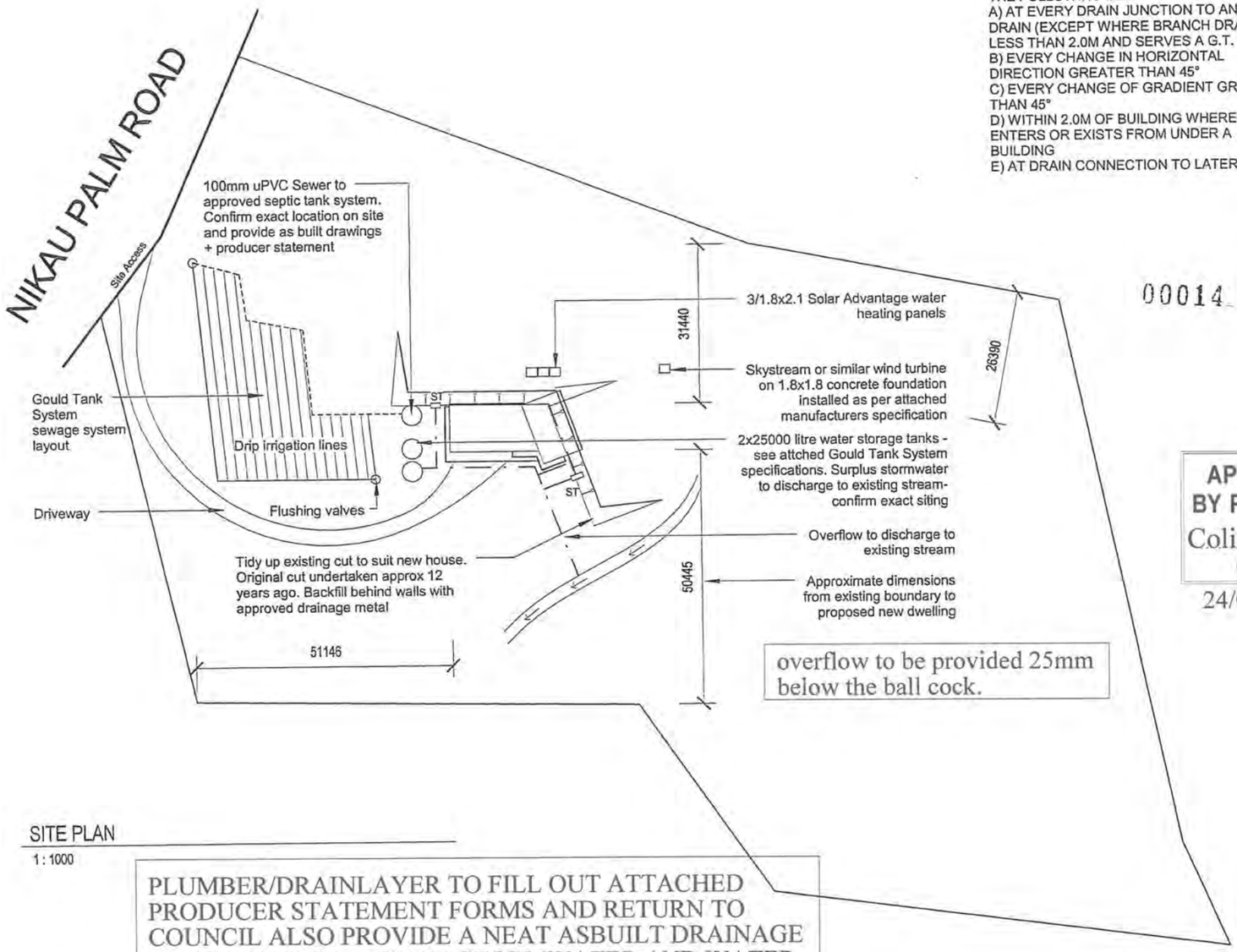
Passed Items

Free Standing Solid Fuel Heater	**Replacement appliance only/ reconnected to existing wetback system which heats central heating**
Ceiling plate	**re images**
Seismic fixing	**re images**
Smoke detectors fitted	
Make and model	**Hunter herald**
Other	**Distances from flammable materials OK inner flu only replaced**

Support Documentation	Status
Application for CCC	Required
Solid Fuel Heater Installer's Checksheet	Required


DP
100mm Downflow
sump
5·5
3·50
·7
septic tank
org
IJ
125 Nikau Palm road
100mm PVC
roof water to tanks
1·9
sump
·6
100 mm PVC
·3
overflow from water tank
1·8
3·6
to gulley

NORTH



SP = Soak pits for lower floor roof runoff and water tank overflow

ST = Silt traps for Coredrain runoff

SITE PLAN
1 : 1000

overflow to be provided 25mm below the ball cock.

PLUMBER/DRAINLAYER TO FILL OUT ATTACHED PRODUCER STATEMENT FORMS AND RETURN TO COUNCIL ALSO PROVIDE A NEAT ASBUILT DRAINAGE PLAN SHOWNING SEWER STORMWATER AND WATER.

LEGAL DESCRIPTION	COUNCIL	AREAS	ZONES
ADDRESS: 125 NIKAU PALM RD CITY: PARPARAUMU LOT 4 DP 82049	Zone: RURAL Setbacks: Compliant Height Restriction: Compliant Recession Plane: Compliant Site Coverage: Compliant	Allowed Coverage: 35% Site Area: 22730m² Footprint area: 193.7m² Coverage: 0.85%	Wind Zone: HIGH Wind Region: R2 Corrosion Zone: 1 Earthquake Zone: A

PLUMBING + DRAINAGE NOTES:
-ALL PLUMBING AND DRAINAGE TO COMPLY WITH AS/NZS 3500 PART 2.2
-ALL STORMWATER AND SEWER PIPES TO BE 110dia PVC @ GRADIENT 1:100MIN.
-PLUMBING INFORMATION SHOWN FOR BUILDING CONSENT ONLY
-DRAINLAYER IS TO PROVIDE AS-BUILT DOCUMENTATION TO T.A. ON COMPLETION.
-INSPECTION POINTS TO BE PROVIDED AT THE FOLLOWING LOCATIONS:
A) AT EVERY DRAIN JUNCTION TO ANOTHER DRAIN (EXCEPT WHERE BRANCH DRAIN IS LESS THAN 2.0M AND SERVES A G.T. ONLY)
B) EVERY CHANGE IN HORIZONTAL DIRECTION GREATER THAN 45°
C) EVERY CHANGE OF GRADIENT GREATER THAN 45°
D) WITHIN 2.0M OF BUILDING WHERE A DRAIN ENTERS OR EXISTS FROM UNDER A BUILDING
E) AT DRAIN CONNECTION TO LATERAL

00014

APPROVED BY PLANNING
Colin Bridges
Officer
24/04/09

LOWER FLOOR AREA = 193.7M2
UPPER FLOOR AREA = 201.2M2
TOTAL FLOOR AREA = 394.9M2
BALCONY AREA = 66.7M2

ROULSTON RESIDENCE

125 NIKAU PALM ROAD
PARAPARAUMU

REVISIONS:

Rev:	Description:	Date:

GENERAL NOTES:

Check and confirm all dimensions prior to commencing any work on-site.
Use stated dimensions in preference to scaled.
If in doubt ASK.
Drawings at a larger scale take precedence over those drawn at a smaller scale.
Site measure all openings/spaces for items manufactured off-site.
Notes on one plan and not necessarily on other drawings are applicable to all drawings.
Any conflicts on the documents are to be notified to the designer prior t commencing work.

IF IT ISN'T DIMENSIONED - DO NOT SCALI

SITE PLAN

02

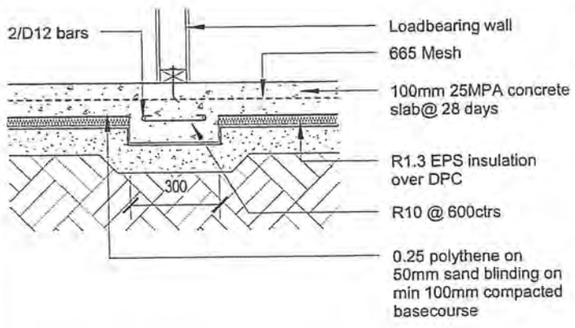
DATE:	26 MAR 2009
SCALE:	1 : 1000 @A
JOB NUMBER:	NA
DRAWN BY:	S JOHNSON
DESIGN BY:	Designer

ARCHITECTURE DM

17 GEAR ST
PETONE

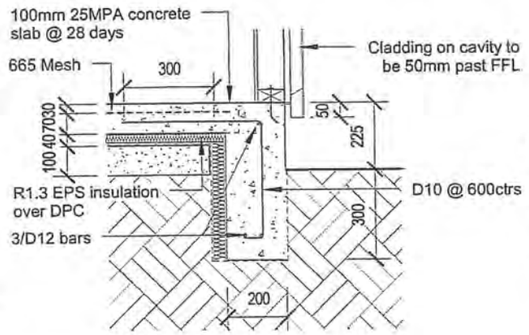
P (04) 568 8468
F (04) 568 8468
M 027 452 4670
E dean@architecturedm.co.nz

A D | N Z
ARCHITECTURAL DESIGNERS NZ



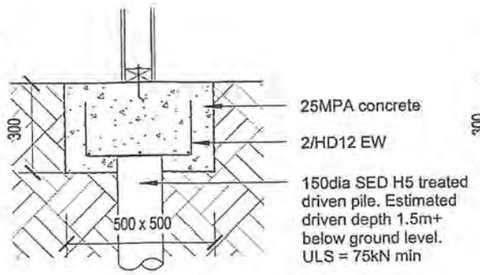
INTERNAL LOADBEARING FOOTING DETAIL

1 : 20



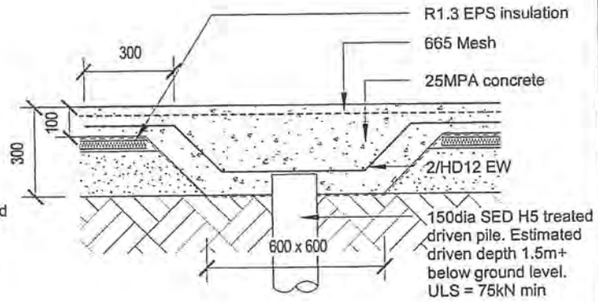
EXTERNAL WALL FOOTING DETAIL

1 : 20



TYPICAL ENGINERED PILE CAP DETAIL

1 : 20

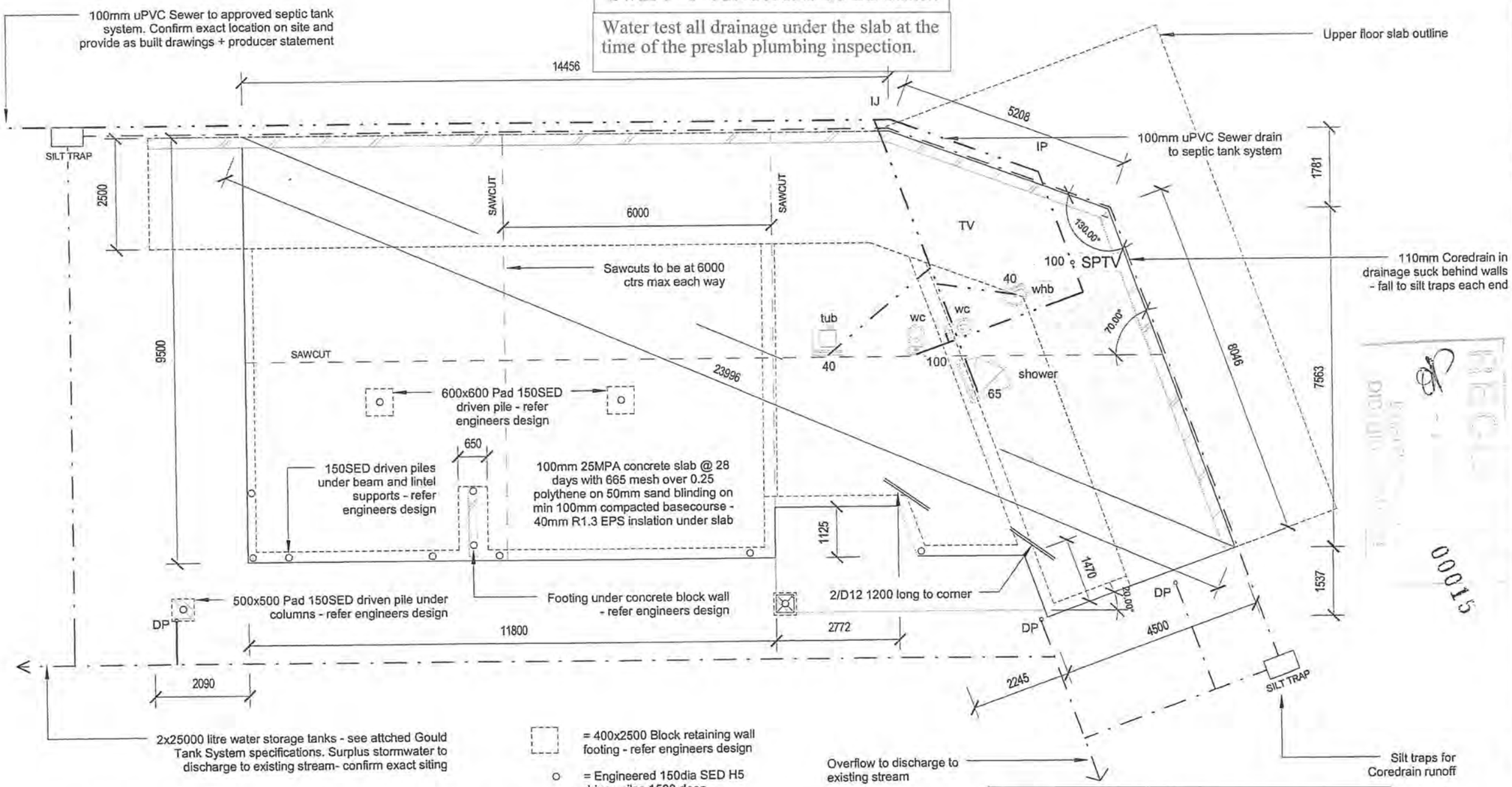


TYPICAL ENGINERED INTERNAL PAD DETAIL

1 : 20

MIMIMUM SIZE DRAIN 65MM
SWEPT "Y" JUNCTIONS TO BE USED.

Water test all drainage under the slab at the time of the preslab plumbing inspection.



FOUNDATION & DRAINAGE PLAN

1 : 100

PIPES TO BE INSPECTED BEFORE COVERING WITH SAND.

TPR drain is to be run in copper pipe for its entire lenght to a point of discharge at low level.

ROULSTON RESIDENCE

125 NIKAU PALM ROAD
PARAPARAUMU

REVISIONS:

Rev:	Description:	Date:

GENERAL NOTES:

Check and confirm all dimensions prior to commencing any work on-site.
Use stated dimensions in preference to scaled.
If in doubt ASK.
Drawings at a larger scale take precedence over those drawn at a smaller scale.
Site measure all openings/spaces for items manufactured off-site.
Notes on one plan and not necessarily on other drawings are applicable to all drawings.
Any conflicts on the documents are to be notified to the designer prior t commencing work.

IF IT ISN'T DIMENSIONED -DO NOT SCALI

FOUNDATION & DRAINAGE PLAN

03

DATE:	26 MAR 2009
SCALE:	As indicated @A
JOB NUMBER:	NA
DRAWN BY:	S JOHNSON
DESIGN BY:	Designer

ARCHITECTURE DM

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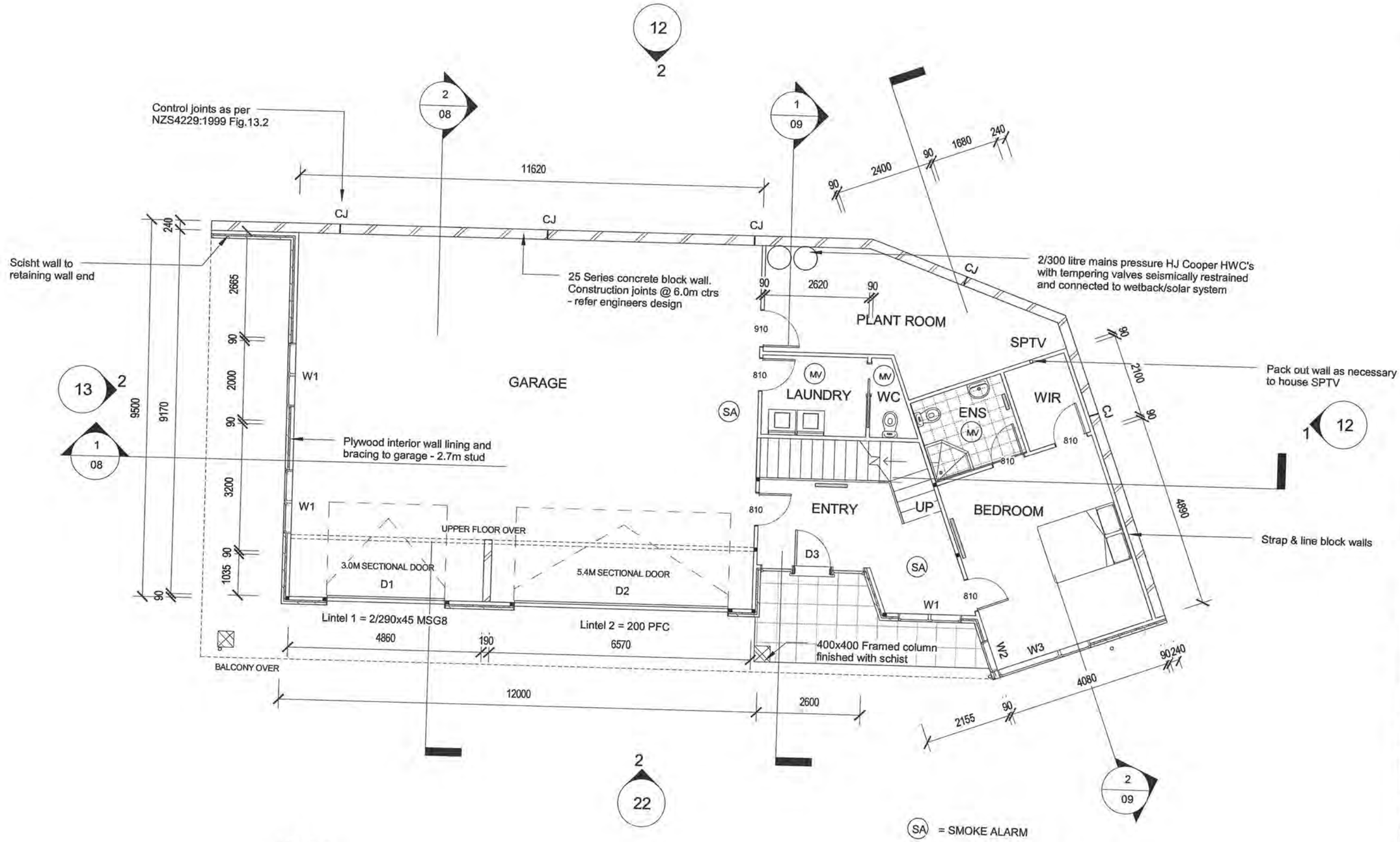

LEVEL 1

1 : 100

ROULSTON RESIDENCE

125 NIKAU PALM ROAD
PARAPARAUMU

REVISIONS:

Rev:	Description:	Date:

GENERAL NOTES:

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LOWER FLOOR PLAN

04

DATE:	26 MAR 2009
SCALE:	1 : 100 @A3
JOB NUMBER:	NA
DRAWN BY:	S JOHNSON
DESIGN BY:	Designer

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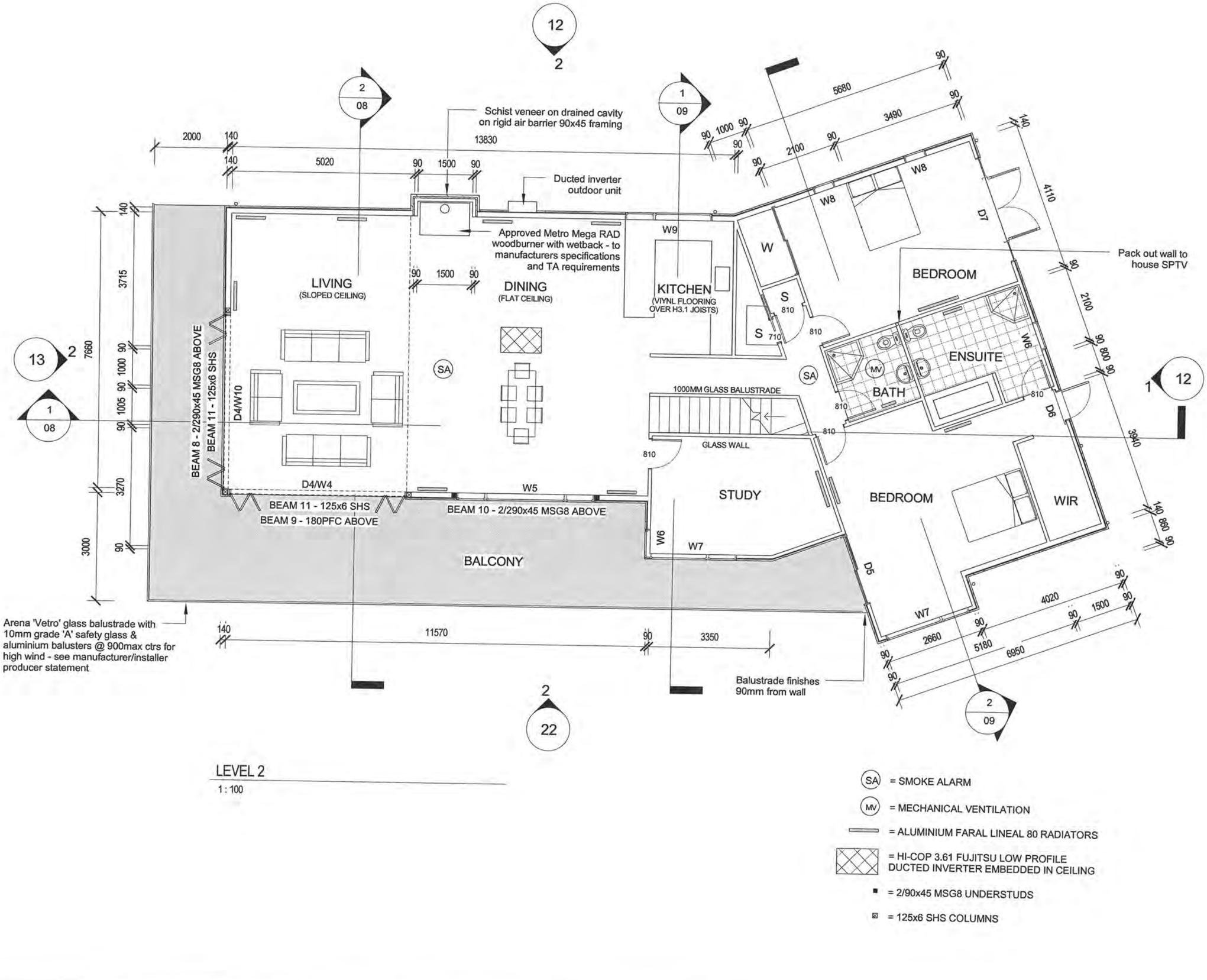

LEVEL 2

1 : 100

SA = SMOKE ALARM

MV = MECHANICAL VENTILATION

= ALUMINIUM FARAL LINEAL 80 RADIATORS

= HI-COP 3.61 FUJITSU LOW PROFILE DUCTED INVERTER EMBEDDED IN CEILING

= 2/90x45 MSG8 UNDERSTUDS

= 125x6 SHS COLUMNS

ROULSTON RESIDENCE

125 NIKAU PALM ROAD
PARAPARAUMU

REVISIONS:

Rev:	Description:	Date:

GENERAL NOTES:

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IF IT ISN'T DIMENSIONED - DO NOT SCALE

UPPER FLOOR PLAN

06

DATE:	26 MAR 2009
SCALE:	1 : 100 @A3
JOB NUMBER:	NA
DRAWN BY:	S JOHNSON
DESIGN BY:	Designer

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