GIB

Wall Bracing Calculation Sheet B

MARCH 2006

Along

SUBFLOOR

WALL OR BR	ACING LINE	BRAC	ING ELEMENTS PRO	VIDED
T 40 T	2	3	4	5
Line Label	Minimum BUs Required	Bracing Element No.	Bracing Type	Length Element (m) L
Α		8P	BRACED ALES	4
В		BP	BRACED	3
С		AP	ANCHOR	3
D				
E				

6 W 7 W Rating BUs Achieved (BU/m x L) W 160 640	V	VIND
BU/m Achieved (BU/m x L) W W W W W W W W W W W W W W W W W W	6 W	7 W
160 640	BU/m W	Achieved (BU/m x L) W
		-
160 480	160	480
	160	480

- Out	HQUAKE
6 E	7 E
Rating BU/m E	BUs Achieved (BU/m x L) E
150	480
120	360
120	360

	Totals Achieved	
From Sheet A	Totals Required	
Wreq/Ereq =		

W	1600	E
W	752	E

E	1200
E	490

^{*} If Wreq/Ereq is 1 or less complete E column only If Wreq/Ereq is 1.2 or more complete W column only Otherwise complete both W and E

Across

WALL OR B	RACING LINE	BRAC	ING ELEMENTS PRO	VIDED
1	2	3	4	5
Line Label	Minimum BUs Required	Bracing Element No.	Bracing Type	Length Element (m) L
М		BP	BRACED	2
		AP	ANCHOR	1 2
N			PILE	
		BP	BRACED	3
0		AP.	AUCHOR	1
Р		BP	BEACED	2
		AD	AUCHOR	1
Q			CILE	

	5.00
6 W	7 W
Rating	BUs
BU/m	Achieved
W	(BU/m x L) W
160	320
160	160
160	480
160	160
160	820
160	160

EART	HQUAKE
6 E	7 E
Rating BU/m	BUs Achieved (BU/m x L) E
120	240
120	120
120	360
120	120
120	240
120	120

	Totals Achieved	
From Sheet A	Totals Required	
Wreq/Ereq = .		

W	1600
w	516

1200
490

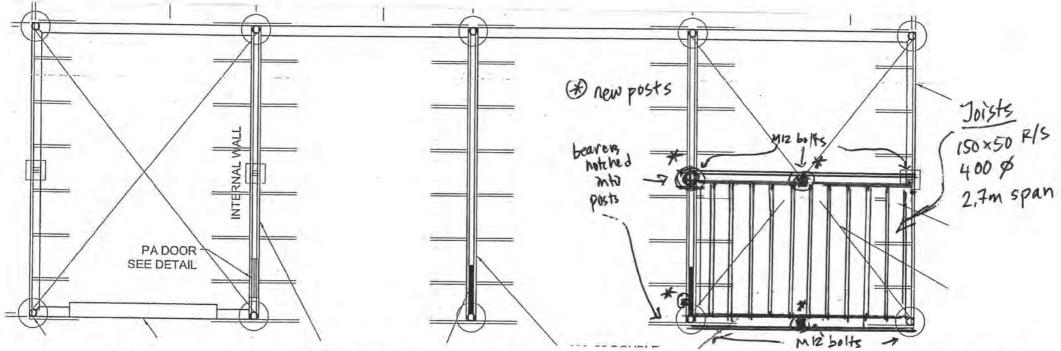
90106 Addition to plan: Storage Loft in bay 4 BC 100497 approx 12 m 2 RECEIVED Existing 4 Bay Shed - part of BC 100497 4.4m × 2.7m MIZ bolt KAPITI COAST BISTRICT COUNCIL (80×100 H5 POST 300×300 concrete 50×50 rails@ footing 100 mm spacings im height 6008 E Falvonised corrugated iron front cladding 15 mm structural phy (Table 7.4 N253604) 11 9mm IPI ~ MIZ bolts MIZ bolts w R/s on hangers 150 ×56 H3 clearance Titm Bearers -Paired 200x50 H3 new Round post H5 Note hed + now concrete footings 300 mm Notched into post amony bost, + 100 MM -300 mm. Span 2.2m 30 × 150 mm trem under post (4.4 with new post in centre) Bolted to existing rafters ON 1002,00 bosy cement footing 300×300

RECEIVED

1 4 FEB 2011

KAPITI COAST
DISTRICT COUNCIL

Addition to plan BC 100497 Storage loft in bay 4 of 4 Bay Shed 4.4×2.7 m



Piles - existing posts + I new post linked to rafters + 2 new 100 x 100 mm posts @ 2,2 m (s)

Joists - 150 x 50 R/S 1+3 on hangers + 4 x 100 x 40 FT skew nails, 400 min spacings

Bearers - paired 200 x 50 R/S H3 notched into posts & secured through w/ M12 bolts

Floor - 15 mm structural ply, face grain accross joists

Access - built-in ladder tread 150 x 50 mm H3, notched of nailed, post on one side of new

concrete footed 100 x 100 mm post on other side, Tread spacings 300 mm &

Addition to plan BC 100497 Storage loft in bay 4 of 4 Bay shed Fay 4 iron shed Bay 2 Bay 3 Bay 1 new post 100 × 100 H4 access - Brilt - m ladder

RECEIVED

1 4 FEB 2011

KAPITI COAST
DISTRICT COUNCIL

BC 100497 Addition to plan: storage loff in Bay 4-4 Bay Shed (Loft storage space only = not head height) post notch@top to fit between existing rafters existing roof + MIZ bolt top rail 50x100 T footed post to support Palings 50x50 Beavers 2x 200 +50 mm 12 600 mm -31 H3 R/S 19mm ply Span 2,2 m clearance 1.7m 1 between notched 2 × beavers mito post 200 ×50 mm #3 + M12 bolts HOOKIDD No.1 3.8m RECEIVED H4 R/S 150 × 150 round H5 Post 1 4 FEB 2011 001 09 concrete around POST × 400 Deep + 100m' existing ost. KAPITI COAST maire DISTRICT COUNCIL new posts

Council BC 100497 000 00001

23 February 2011

Dana Peterson & Jules Esther 83 Terrace Road RD1 Reikorangi Waikanae

Building Consent: 100497A

Dear Sir/Madam

Request for further information

Description: 1. Increased bracing for foundation of cottage & deck. 2. Building a

storage loft into 1 bay of the 4 bay shed.

Location:

142 Huia Street, Waikanae

Legal Description: LOT 10 DP 22652 BLK VI KAITAWA SD

Following checking of your Building Consent it is apparent that further information is required.

Information Needed:

House

1) Please mark the bracing lines on the new subfloor bracing layout and ensure all braces match the calculations.

Loft

- 2) The existing consented plans indicate a 150x50 girt that the bearer will attach to. this is outside the scope of NZS 3604.
- 3) 100x100 piles outside the scope of NZS 3604 also.
- 4) Please clarify the notch depth for the bearer to the post attachment.
- 5) Clarify the stress grade of the joists MSG8 or higher is acceptable with the current design.
- 6) As the structure is specifically designed (by an engineer) then confirmation should be sort that notching of the structural posts is acceptable and written evidence provided. I recommend contacting the manufacturer.

We have suspended your application and will not proceed any further with its processing until the above information is received. Please send it to us by 9/03/11. If we do not receive it by this date, we may not be able to issue your building consent.

Please contact me if you would like to discuss this matter. Yours faithfully

Jaime Sherlock

Direct line tel. no. (04) 296 4730

Jaime Sherlock

Dana Peterson [dana@fantailfarm.co.nz]

Tuesday, 3 May 2011 9:20 p.m. Sent:

gcbr@xtra.co.nz

Jaime Sherlock Cc:

Subject: Fwd: Amendment to building consent BC100497A

Hi Tony & team

As discussed, here is the most recent communication from the Council, and the related

I. KCDC advice about your original building consent for the roof of the cottage BC 090078 - see attached file named "KCDC BC090078" $\,$

This is the letter which you gave to us. However, this consent is issued to you @ GCBR. See Jaime's email below — please can you request an inspection, which can coincide with ours for the cottage relocation, septic field & shed, or ask for an extension?

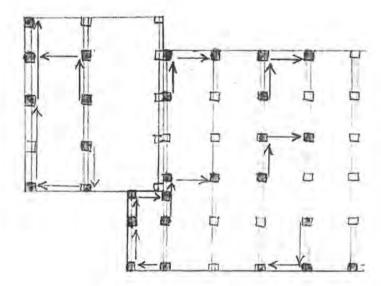
2. KCDC advice about the revised bracing plans for the cottage, due to the increased deck &

greater slope
Their response to the revised plans was:
"Please mark the bracing lines on the new subfloor bracing layout and ensure all bracings match the calculations".
When I asked Jaime what he meant, he said that the new plans did not have sufficient new detail comparable to what was originally submitted, and crucial details did not match.
When I've looked at the plans to try & understand what he needed, I also found that the bracing directions were different, and the plan was 180 degrees out from the original plans.

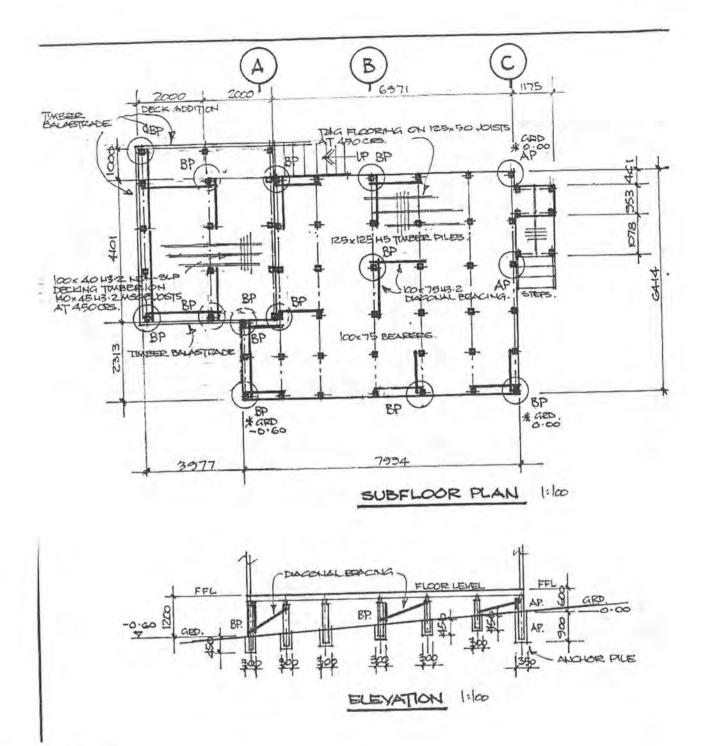
So based the near begging plan that Paul made which we submitted to the Council, but rotated

So, here's the new bracing plan that Paul made, which we submitted to the Council, but rotated

180 degrees to match the original plan (so the deck is to the west):



And here is the original plan, submitted for BC 100497. Perhaps you or Paul can talk to Jaime @ KCDC to work our what extra detail he wants.



Below is the

Thanks!! Dana







Kāpiti Coast District Council

Private Bag 60 601 Paraparaumu 5254 New Zealand

Tel (04) or 080 Fax (04) kapiti.council@kapiticos www.kapiticoa

6 December 2010

Gold Coast Building Removals Ltd Tony Greig PO Box 186 Waikanae 5036

Building Consent: 090078

Dear Sir/Madam

Progress of work on Building Consent 090078

Description:

Replacement of existing roof structure

Location: Legal Description:

545 State Highway 1, Paraparaumu PT LOT 79 DP 14701 - BALANCE AT 15260/37 4

I am writing to advise you that the work approved on the above building consent must be complete within two years of the issue date.

Under section 92 of the Building Act 2004, the building owner must apply for a code compliance certificate (CCC) after all building work to be carried out under a building consent is completed. This must be done within a 2-year period from the granting of the building consent. I have enclosed a copy of a CCC application form.

The Council, under section 93 of the same Act, must decide whether to issue a CCC within 20 working days of the 2-year anniversary of the date the building consent was issued. Your building consent was issued on 2 March 2009.

If your building work is complete, please ring and book a final inspection. The completed CCC application form will be collected by the building inspector when he/she visits.

If your building work is nearly complete and will be completed within the 2-year time frame, pleas ring and book a final inspection once the work is completed, or mail your CCC application form to the Council.

delivering on the community's plan KAPITI

Thanks! Dana & Jules KCDC Building Consent Authority

Building Consent AMENDMENTS Documentation Filed

COAST

DISTRICT COUNCIL

BC No.	100497A
Street Address.	142 Huja St
	Walkange

Tick indicates document(s) included in this Building Consent Amendment Consent Application, V Costing schedule, Amended Plans and specifications, Invoice and receipt, Processing records/checksheets, 486 Inspection page printouts Achemed 1080 Amended Building consent and memorandum, Producer statements and supporting documentation, 1080 AC1055 14-40 Peer review documents, Fire design documents, Poused ok Requests for further information and other correspondence, Supplementary information,

This form comprises part of the Building Consent documentation and indicates the contents of the Building Consent File. Refer KCDC Policy 029.

* Charify shiess grade of posts - MSG8 or higher to out.

Existing posts that are noticed - Should be thedred by an engineer (Gold Pine.

KCDC Form 121a ver.1

March 2008

Adorage loff removed from the plans -per enout from Dorna, what the food youdabath at the Counter he explained that the Skeet that was provided by the applicant was an as built provided to him by the Suiter he had reviewed it and had to add more bracing so that my should not have been grounded to us. Colorations decided above.

CODE COMPLIANCE CERTIFICATE

Section 95 Building Act 2004

Consent No: 130379



	The E	Building	
Street address of building:	142 Huia Street, Waikanae	Building name:	
o de la contraction	Vacant Land	Location of building within site/block number:	Access from Huia Street
Current, Lawfully established, use:		Intended life of the building if 50 years or less:	
Level/unit number:		Year first constructed:	
Legal description of land where building is located:	LOT 10 DP 22652 BLK VI KAITA	AWA SD	
	The	Owner	
Name of owner:	Esther Jules & Peterson Dana Rachelle	Street address /registered office:	
Contact person:		Phone numbers:	
Mailing address:	C/- David Reid Homes Ltd	Landline:	
	P.O. Box 148 Paraparaumu 5254	Mobile:	
	, ataparasina eng	Daytime:	
Email address:		After hours:	
Website:		Facsimile number:	
First poi	nt of contact for communication	ons with the Kāpiti Coast Distr	ict Council:
Full Name: David Reid Mailing Address: PO B Phones:: 021 880033: Email: timothy@davidr	ox 148, Paraparaumu 5254 04 9045959		

Building Work

Issued by:

Code Compliance

Project Description:

Building Consent No:

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

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

New single-level building.

130379

Russell Brook - Team Leader - Site Inspections

On behalf of Kapiti Coast District Council Date: 23 September 2014

Kāpiti Coast District Council



00,000	BCA 30	CTION SHE	ET	17
Date 9 7 7 7	вса / 50	3.4.9		/
Fime	// /		Documents on	
Owner Name ESTARY	-perersun	Project Description	wen de	NG
Site Address 140 17	WIG ST		Restricted Building W	OFK YES NO
		-		
Building Plumbing	Circle appropriate Ty	ype & Inspection	Other	
Site Found Piles PreSlab Subfloor	Drainage PreWrap PreClac	Weathertight Prel	ine PostLine Block Brid	ck Ret.Wall Final
Engineer Supervision Yes No	1/4 - Name	12 1		
Notes Of COMP	all go (ONSCOX,	Diagram (if necessary)	
* wood our	nel clarar	rus ache	ewed	
+ solar con	reach to t	SINC.		
* Inspections	ay con	ouras-		
+ deck not	part of con	1. Sence	/	
		********	1	
		anno I		
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
Photo's Taken – Nos	saved / scanned?	Y/N		
Site instruction issued				
,				
Confirmation of person on site		Result:	Pass Fail	
Name	LBP No.			
Your next inspection will be	heet)			
	1 TM SUM	RELAYD.		
Agreed, Print Name)	Sign			
Officer Name	[]	A/IX	,	
Information entere	d into data base	nitial	Date//	

SCOPE OF INSPECTION

Inspections are made in conjunction with, and with the cooperation of, the owner/owner's agent to ensure that the building work complies with the provisions of the Building Act and NZ Building Code. The inspection is general in nature and involves an audit of the following aspects:

Engineer - Civil/Structural/Fire/Geotechnical: An engineer has been engaged to carry out inspections on behalf of the owner. Please ensure those inspections are carried out. A Certificate of Expert Opinion is required to be supplied to Council.

Site: A surveyor's report, or visible boundary markers provided, so that the set out of the project can be clearly identified.

Foundation: When all formwork has been completed, footings have been excavated and reinforcement is in place.

Piles: When all holes are excavated prior to installation.

Pre-slab plumbing (concrete slab): When all plumbing and drainage pipes have been installed, prior to backfilling.

Pre-slab building (concrete slab): When DPM has been placed with all laps and penetrations sealed, reinforcing in place and in position with chairs as appropriate.

Sub-floor (timber suspended floor): When all sub-floor connections, joists and required blocking, and any suspended plumbing pipe work have been completed, but before any flooring or base boards have been fitted. Relocated dwellings require a sub-floor inspection prior to the base boards being fitted.

Drainage: When all drainage works is completed and is under test, before backfilling occurs. As laid drainage plan is required at time of inspection.

Pre-wrap: When all roof and wall framing is complete, including any exterior sheet bracing, but before building wrap has been installed.

Pre-clad: When building wrap and window and door flexible flashing tape has been installed, cavity battens (cavity systems), cavity closers and all flashing systems are in place, but before joinery has been installed.

Weathertightness: When exterior cladding has been installed, flashings in place, air seals fitted to openings, but before any coating system have been applied.

Pre-line (plumbing): When all internal plumbing is complete and plumbing pipe work is under test pressure.

Pre-line (building): When the exterior of the building is weather tight, all structural components (including bracing) have been completed and wall insulation is in place.

Wet area membranes, decks, roofs and shower area: Pre application of wet area membrane, when all outlets and flashings have been installed, ready for membrane installation.

Post application of wet area membrane.

Post-line: When all interior linings have been installed, but before skirting, Scotia or plastering stopping. Installation details of screws check of wall bracing element.

Block: When all masonry block work including block foundations for slab floors, is completed, reinforcing in place and washout openings in place.

Brick Veneer: When veneer is at half height and all flashings are in place.

Retaining wall: Pre application of waterproof membrane system.

Post application of waterproof membrane system.

Protection installed for membrane system and installation of perforated drainage system before back filling.

Final: Final inspections are carried out at the completion of the project and may include entire project, plumbing, drainage and storm water. The Code Compliance Certificate is issued if the building work complies with the approved building consent.

Free Standing Fireplace: Final inspection required only.

In Built Fireplace: Inspection required before installation and after installation.

PRIVACY STATEMENT

- The information contained on the Building Inspection Report Sheet is held by the Kapiti Coast District Council, whose address is Private Bag 60601, Paraparaumu, 5254.
- 2. The information is available for public inspection as part of the Building Record of the property concerned. It can be viewed at 175 Rimu Road, Paraparaumu, 5032.
- 3. You have the right under the Privacy Act 1993 to obtain access to, and to request correction of any personal information held by Council concerning you.

Council has a Privacy Officer. If you have any concerns regarding privacy issues please telephone (04) 296 4700



FINAL INSPECTION SINGLE RESIDENTIAL

vner Name	ne	<i>[</i>	1/4		roject	Desc	ription	Documents on	2//	Ž	
e Address	12	/	12.12	<u> </u>				Restricted Building	Work	YES /	NO
P = Pass F = F nspection decision	ail ns are l	NA base	= Non d on th	strict reference to the -Applicable ne extent of work insect for definition of t	oecte	d at	the tir	me of inspection.			
Applicable to al	linspe	ectio	ons								
Sighted previous inspection notes	0	N	NA	Conforms with approved drawings	0	N	NA	Confirm Additional information/amended plan	Υ	N) N
FINAL - Exterio	r		0		_				1		
Sub-floor ventilation	Р	F	(NA)	Roof fixings	P	F	NA	Spouting + Down-pipes	P	F	N
Deck Structure	Р	F	(NA)	Flashings – Roof	P	F	NA	Penetrations – Flashings	P) F	N
Barriers	Р	F	(NA)	Gully Dishes		F	NA	Storm-water + site drainage	(P)) _F	N
Handrails	Р	F	(NA)	Wastes to gully	P	F	NĄ	Fixings – Durability		F	N
Steps/Stairs	~ P	F	(NA)	Terminal vents/AAV's	P	F	NA	Cladding painted/sealed	(P)	F	N
Flashings – Windows/Doors	P) F	NA	Cladding Ground Clearance	P	F	NA	Signed	P	F	N
FINAL - Interior											
Service areas – floors/walls	P) _F	NA	Food storage/preparation	P	F	NA	Hot water temp	0	F	N
Stair design	P	F	(NA)	Ventilation	P	F	NA	Solid fuel heater	2	F	N
Handrails	Р	P	NA	Insulation + clearance	P	F	NA	Water supply tank	B	F	٨
Balustrades	Р	F	(NA)	HWC flues	(P)	Ê	NA	Trap seals + AAV's	P	F	٨
Lightings	(8)	F	NA	HWC valves	P	F	NA	Cistern flushing	(2)	F	N
Laundering	Per	F	NA	HWC restraint	(F	NA	WC pan connection	P	F	N
Cooking facilities	P	F	NA	Tempering valve	(P)	F	NA	Septic tank	P	F	(
Smoke detectors	P	F	NA	Glazing - Human Impact	(P)	F	NA	Window labels	P	F	N
FINAL - Interte	nancy	/Coi	nmer	cial							
				Guarantees/Warranties/		_	-		_	_	
Fire/Life systems sighted	P	F	NA	Certificates/ Expert Opinion	Р	F	NA	Intertenancy STC	Р	F	N
All Inspections							_		_		
Road Crossing Complete	0	F	NA	Energy Certificates supplied	Р	F	NA	Final Check Complete	Y	N	
							1				

November 2013 Page 5 of 5 Form 242j



ate 24/12/13	DPE OF INSPECTION SHEET BCA 130379 Inspection No
10-10	Documents on site VES NO
wner Name Este 7 Patters	
110 11,000 5	Restricted Building Work (ES)/ NO
te Address	
Building Plumbing	Circle appropriate Type & Inspection Other
ite Found Piles PreSlab Subfloor Drain	nage PreWrap PreClad Weathertight PreLine PostLine Block Brick Ret.Wall Fin:
	a – Name
	Element Diagram (if necessary)
as Per Dar	
* 13m Ceilings	
* Aqualine in	bathrooms 1
* Perefrations	shared fevired under Nouted off Supervision
* Ply in Garage	Nouted off
4	Supering
	Maroel
	saved / scanned? Y / N
2	
	saved / scanned: 1 / 14
Photo's Taken – Nos Site instruction issued	saveu / scameu: 1 / 14
	saved / scanned: 1 / N
	saved / scamed: 1 / N
	saved / scanned: 1 / N
	saveu / scameu: 1 / N
	Saved / Scanned: 1 / N
Site instruction issued	Z
Confirmation of person on site	Result: Pass Fail
Confirmation of person on site	Z
Confirmation of person on site	Result: Pass Fail
Confirmation of person on site	Result: Pass Fail
Confirmation of person on site	Result: Pass Fail
Confirmation of person on site Name	Result: Pass Fail
Confirmation of person on site	Result: Pass Fail
Confirmation of person on site Name Your next inspection will be	Result: Pass Fail
Confirmation of person on site Name	Result: Pass Fail



WEATHERTIGHTNESS / PRELINE / POSTLINE

ner Name		5/2		Pr	oject	Desci	iption	No Cos			NO.
Address								Restricted Building W	/ork Y	ES/	NO
P = Pass F = Fail	l are b	NA =	Non	trict reference to the Applicable ne extent of work inspect for definition of the	ecte	d at t	he tim	e of inspection.			
Applies to all insp	ecti	ons						a a substitution of			-
Sighted previous Inspection notes	(v)	N (NA	Conforms with approved drawings	F	N	NA	Confirm Additional information/amended plan	Y	N	NA
WEATHERTIGHT	VESS										
Cladding selection complies with BC?	Р	Ē	NA	Roof material complies with BC?	P	F	NA	Sheets fixed to manufacturers	Р	F	N
Roof fixing complies	Р	F	NA	Fixings appropriate for durability?	P	F	NA	Sheet layout	P	F	N
Ridge/hip flashings in place	Р	F	NA	Roof/wall junctions flashed	P	F	NA	Control joints where appropriate	Р	F	N
Penetrations correctly flashed	P	F	NA_	Fixings appropriate for bracing elements	Р	F	NA	Flashings in place	Р	F	N
Clearance provided for fascia & spouting	P	F	NA	Ground clearances achieved	Р	F	NA	Clearance off deck surface	Р	F	N
Flashings/wraps in place, parapets/barriers	Р	F	NA	Glazing – human impact	Р	F	NA	Truss/Rafter fixings	Р	F	N
PRELINE											
Max moisture Content%	Р	IF.	NA	Insulation R Value	P	F	NA	Bracing connections	P	E	K
Ventilation to rooms	P	F	NA	Top plate connection	Р	F	NA	Air seals	Р	В	N
Timber treatment	Р	F	NA	Ceiling batten spacing	P	F	NA	Bottom plate fixings	P	F	N
Lintel/beam size & fixing	Р	F	NA	Stud spacing	P	F	NA		Р	F	1
Plumber Name				TPR line	P	F	NA	Waste pipe size & test	P	F	1
Soil pipe size and test	P	P	NA	Inbuilt S/W pipes tested	Р	F	NA	Floor wastes	Р	F	1
Pipes fixed/supported	P	F	NA	Vents terminated	P	F	NA	Shut off valves	Р	F	1
System: AS3500, G13, Other	Р	F	NA	Pressure Test	P	F	NA	Fire wraps and collars	Р	F	1
POSTLINE											
Sheet bracing	0	F	NA	Wet area substrate system	P	F	NA	Sheet fixings	0	F	
Penetrations sleeved	P) F	NA		P	F	NA	Fire/Acoustic separation	P	F	(

November 2013



	BCA / 30 279 Inspection No. 10
rime 10-2/0	Documents on site YES NO
Owner Name Ester , Pat	Project Description NOW
ite Address 142 Hula	St Warkous Restricted Building Work YES / NO
Building Plumbing	Circle appropriate Type & Inspection Other
Site Found Piles PreSlab Subfloor D	Drainage PreWrap PreClad Weathertight PreLine PostLine Block Brick Ret.Wall Fin
	n/a – Name
ingineer supervision res 140 1	Diagram (if necessary)
Notes	
11 1 1	W reads 16-19%
throughout	, D
* Ribbin plate	runs through
top of wall	1918 ON for feviewed under supervision where
as per defail	FINE TO TOTALSION
as! element	Listel in Impry Supposed
	YURSYGE
~ / /	//
O/L 70	Continue
Photo's Taken – Nos	saved / scanned? Y / N
	saved / scanned? Y / N
	saved / scanned? Y / N
Photo's Taken – Nos Site instruction issued	saved / scanned? Y / N
	saved / scanned? Y / N
	saved / scanned? Y / N
	saved / scanned? Y / N
	saved / scanned? Y / N
Site instruction issued	saved / scanned? Y / N Result: Pass Fail
Confirmation of person on site	
Confirmation of person on site	Result: Pass Fail
Confirmation of person on site	Result: Pass Fail
Confirmation of person on site	Result: Pass Fail
Confirmation of person on site	Result: Pass Fail
Confirmation of person on site	Result: Pass Fail
	Result: Pass Fail LBP No.
Confirmation of person on site	Result: Pass Fail

November 2013

Page 1 of 5

Form 242e



WEATHERTIGHTNESS / PRELINE / POSTLINE Inspection No...... Documents on site YES / NO Project Description..... Restricted Building Work YES / NO All inspections are carried out with strict reference to the building consent granted. F = Fail NA = Non-Applicable P = Pass Inspection decisions are based on the extent of work inspected at the time of inspection. Please refer to the related scope sheet for definition of the inspections extent. Applies to all inspections Confirm Additional Conforms with approved Sighted previous NA N NA information/amended plan inspection notes NA drawings WEATHERTIGHTNESS Sheets fixed Roof material complies Cladding selection F F NA to manufacturers P NA P F with BC? NA complies with BC? Fixings appropriate for durability? F NA F P F NA Sheet layout P NA Roof fixing complies Control joints where Roof/wall junctions Ridge/hip flashings P F P NA P F NA NA appropriate flashed in place Fixings appropriate for Penetrations correctly P Flashings in place F NA F NA P F NA bracing elements flashed Clearance off Ground clearances Clearance provided for F NA P NA achieved F NA deck surface fascia & spouting Flashings/wraps in place, parapets/barriers Glazing -P Truss/Rafter fixings P F NA P F NA NA human impact PRELINE Max moisture Content Insulation (P NA F NA P F NA R Value F Bracing connections F NA P P F F NA Air seals Top plate connection Ventilation to rooms NA Bottom plate fixings P F NA P F P F NA NA Timber treatment Ceiling batten spacing P F NA P F NA P F NA Stud spacing Lintel/beam size & fixing Plumber Name F NA F NA Waste pipe size & test TPR line F P F NA Inbuilt S/W pipes tested P F NA Floor wastes P NA Soil pipe size and test P F NA NA F NA Shut off valves F Pipes fixed/supported P Vents terminated F NA Fire wraps and collars NA System: AS3500, G13, P F NA Pressure Test **POSTLINE** Wet area F NA NA Sheet fixings P Sheet bracing NA substrate system NA NA Fire/Acoustic separation Penetrations sleeved P NA

November 2013 Page 5 of 5 Form 242e

60N Sign: ...

Officer Name: ..



	Me Huri Whakamuri, i				
Date 13/12/13 SCC	DPE OF INSPEC	CTION SHEE	Inspection No.	9	
Time 10-40-				nts on site YES // N	0
Owner Name ESTHER + PATERS	on. Pr	oiect Description.	on Du	i	
Site Address 142 Hua S				1	0
Building Plumbing	Curio estado				_
	Circle appropriate Typ		Other		o
Site Found Piles PreSlab Subfloor Drain	age PreWrap PreClad	Weathertight PreLin	PostLine Bloo	ck Brick Ret.Wall	Final
Engineer Supervision des No n/a	- Name				
Notes Buildy in Carrier H	141-		Diagram (if ne	cessary)	
Insurian Boing inst					
In Station County 95	%	niie.			
coming Barrais times					
natical.					
Alasons To ofarmy	s confronts.	Same			
BOTTON PLATE FITTING	complated ?	na			
moure upus.					
Maisone contain	8-22.7%.				

Savananananananananan					

Photo's Taken – Nos		/ N			
Site instruction issued 05 7	o une co	in/s or	y		
_ 1 . 2	angunamannannan			•	
	ter on ho	Truce 70	unis -	L.	
In Sugaro					
A SAL	Fixing Disco	57/4	CUNE	2 1101	
CYCESTIC TOI MANG	Trans	22 YJ W 777	- CHCIS	PSC NOC	
Confirmation of person on site	1	Result:	Pass F	ail	
Name	LBP No.				
Birce		4			
		*			
		A			
Your next inspection will be . Attack	B. My en	21			
(Guidance notes for inspection on the rear of this sheet)		1			
Agreed, Ins More	Sign	/			
Officer Name A20-14-14	Sia				
Onice Ivalie					_
Information entered into	data base Init	ial	Date/		



WEATHERTIGHTNESS / PRELINE / POSTLINE

ner Name		ana ana ah		Pr	oject	Desc	ription.	and the		100	
P = Pass F = Fail nspection decisions Please refer to the re	are b	NA : based sco	Non	trict reference to the lands. -Applicable ne extent of work inspect for definition of the	ected	d at 1	the tim	ne of inspection.			
Applies to all insp	ecti	ons							/		
Sighted previous inspection notes	Y	N	NA	Conforms with approved drawings	Y	N	NA	Confirm Additional information/amended plan	Υ	N	NA
WEATHERTIGHTN	IESS	5									
Cladding selection complies with BC?	D	F	NA	Roof material complies with BC?	Р	F	NA	Sheets fixed to manufacturers	Р	F	NA
Roof fixing complies	Р	F	NA.	Fixings appropriate for durability?	-	F	NA	Sheet layout	B	F	NA
Ridge/hip flashings in place	Р	5	NA	Roof/wall junctions flashed	P	F	NA	Control joints where appropriate	Р	F	NA
Penetrations correctly flashed	P	F	NA	Fixings appropriate for bracing elements	Р	F	NA	Flashings in place	Р	F	NA
Clearance provided or fascia & spouting	Р	F	NA	Ground clearances achieved	Р	Ē	ÑA	Clearance off deck surface	Р	F	NA
Flashings/wraps in place, parapets/barriers	Р	F	NA	Glazing – human impact	P	F	NA	Truss/Rafter fixings	Р	F	NA
PRELINÉ											
Max moisture Content .1.72.2.%	P	6	NA	Insulation 36 26	0	F	NA	Bracing connections	3	F	N/
Ventilation to rooms	0	F	NA	Top plate connection	-P	oF:	NA.	Air seals	@	F	NA
Timber treatment	0	F	NA	Ceiling batten spacing	0	F	NA	Bottom plate-fixings (0	F	NA
Lintel/beam size & fixing	8	F	NA	Stud spacing	0	F	NA		Р	F	NA
Plumber Name				TPR line	Р	Ê	NA	Waste pipe size & test	Р	F	N/
Soil pipe size and test	Р	F	NA	Inbuilt S/W pipes tested	P	F	NA	Floor wastes	Р	F	N/
Pipes fixed/supported	P	F	NA	Vents terminated	P	F	NA.	Shut off valves	P	F	N/
System: AS3500, G13, Other	Р	F	NA	Pressure Test	Р	F	NA	Fire wraps and collars	P	F	N.
POSTLINE											
Sheet bracing	P	F	NA	Wet area substrate system	P	F	NA	Sheet fixings	P	F	NA
	P	F	NA		P	F	NA	Fire/Acoustic separation	P	F	N

November 2013

Page 5 of 5



Date 11/12/13 SCOPE OF INSPECTION S	HEET
Time 9-45 Owner Name Esthol - Pofer Project Descripti Site Address 142 Hua St. Warken	Documents on site XES/ NO
Ruilding Plumbing	
Site Found Piles PreSlab Subfloor Drainage PreWrap PreClad Weathertight	
Engineer Supervision Yes No n/a - Name Notes Head Floshings * All head floshings fitted os per consented drawings	Diagram (if necessary)
R	supervision phose
	Rhoel
Photo's Taken – Nossaved / scanned? Y / N Site instruction issued	
Confirmation of person on site Name LBP No.	Pass Part pass Fail
Your next inspection will be Welke hight Relie (Guidance notes for inspection on the rear of this sheet)	
Agreed, Morc Sign Officer Name Sign Sign Initial	Date / /



e 945		D	Jan	PRE WRAP / PF		D		New Dog	site Y	ÊS/ I	NO
Address 142	wi	a	5+	. Was kon	ject	Descr	iption	J. 8.5			*******
P = Pass F = Fail	re b	VA =	Non-	trict reference to the ke Applicable e extent of work inspe- eet for definition of the	ecte	d at	the tin	ne of inspection.			
Applies to all inspection notes	ctic	ons N	NA	Conforms with approved drawings	(¥)) N	NA	Confirm Additional information/amended plan	Y	N	NA
PRE WRAP											
Cladding type identified	P	F	NA	Exterior sheet bracing & angle brace fixing	P	F	NA	Bracing requirements	P	F	N
Framing moisture meets cladding requirements%	Р	E	NA	Bottom plate connections	P	F	NA	Purlin fixing	Р	F	N
Stud spacing appropriate for cladding	Р	F	NA	Building wrap type	P	F	NA	Decking substrate	Р	F	N
PRE CLAD							1	74.12	10	F	IN
Building wrap type			******	Building wrap	Р	F	NA	Head flashings	P	F	N
Flexible sealing tape type				Flexible sealing tape	P	F	NA	Sill flashings	P	F	+7
Deck membrane type				Deck membrane fixed in aecordance with Spec	Р	F	NA	Back flashings	P	F	1
Saddle flashings	P	F	NA	Internal/external corner flashings	P	F	NA	Jamb flashings Ground/deck	P	F	1
Capillary clearances	Р	F	NA	Flashing of penetrations	Р	F	NA	cladding clearance	P	F	1
CAVITY SYSTEM							1				1
Additional strapping to wrap	P	F	NA	Batten timber treatment	P	F	NA	Cavity closers	P	F	1
Battens in place	P	F	NA	Battens structural fixing	Р	F	NA	Cavity spacers	P	F	
Cavity spacers size & slope	P	F	NA	Reinforcing fixed in place (stucco)	P	F	NA	Proprietary self spacing mesh	P	F	
Mesh spacers (stucco)	P	F	NA	Proprietary control joints (stucco)	P	F	NA	Rigid backing type (stucco)	Р	F	
Fixings (galvanized or stainless) (stucco)	P	F	NA	Waterproofing to slab-edge	Р	F	NA.		Р	F	



/ / SCC	PE OF INSPECTI	ON SHEET	7	
Date 4/11/13	BCA 13037	?Inspection	No	
Time 10-40			cuments on site (YES)	NO
Owner Name ESTHOR + PATOR	So. Project	Description N.G.	Du	
Site Address / 42 Huin ST				
Building Plumbing	Circle appropriate Type & I	nspection Other		
Site Found Piles PreSlab Subfloor Drain	nage PreWrap PreClad Weat	hertight PreLine PostLine	e Block Brick Ret.Wa	ll Final
Engineer Supervision Yes No n/a)	_		
			ገ (if necessary)	
Notes MAIN FEW 20m		Diagram	T (II (lecessary)	
WATER CYCINSON.				
20m + 15m Aux	- SELLA			
PiPe + Fittings in For				
CUPPUS + Selece				
under TEST + HOUSE	4			
	/			
MARTE PIPES in Place	ب			
Photo's Taken - Nos	saved / scanned? Y / N			
Site instruction issued				·>······
				,.,.,
		(5)		F 1
Confirmation of person on site	766.0	Result: Pass	Part pass	Fail
Name	LBP No.	100		
D. Turibac mon				
rate sacra runs	7			
Your next inspection will be(Guidance notes for inspection on the rear of this sheet)				
- Plain Thomas	no - Dist	Hurns		
Agreed, (Print Name)	Sign	1.00		
Officer Name	Sign		ر	
Information antorodista	data base Initial	Date	//	



WEATHERTIGHTNESS / PRELINE / POSTLINE

wner Name			lvl.	Pro	oject	Desc	ription .	non Ang			
P = Pass F = Fail Inspection decisions Please refer to the re	are b	NA =	Nor	strict reference to the back n-Applicable ne extent of work inspe- eet for definition of the	ecte	d at	the tim	ne of inspection.			
Applies to all insp	ectio	ons									
Sighted previous inspection notes	Y	N	NA	Conforms with approved drawings	Υ	N	NA	Confirm Additional information/amended plan	Y	N	N/
WEATHERTIGHTN	IESS				_		1				
Cladding selection complies with BC?	Р	F	NA	Roof material complies with BC?	Р	F	NA	Sheets fixed to manufacturers	Р	F	N
Roof fixing complies	Р	F	NA	Fixings appropriate for durability?	Р	1	NA	Sheet layout	Р	F	N
Ridge/hip flashings in place	Р	F	NA	Roof/wall junctions flashed	P	F	NA	Control joints where appropriate	Р	F	N
Penetrations correctly flashed	8	F	NA	Fixings appropriate for bracing elements	P	F	WA	Flashings in place	Р	F	N
Clearance provided for fascia & spouting	P	F	NA	Ground clearances achieved	P	F	NA	Clearance off deck surface	Р	É	N
Flashings/wraps in place, parapets/barriers	Р	F	NA	Glazing – human impact	Р	F	NA	Truss/Rafter fixings	Р	F	N
PRELINE				/	/						
Max moisture Content//	P	F	NA	Insulation R Value	Р	F	NA.	Bracing connections	Р	F	N
Ventilation to rooms	P	F	NA	Top plate connection	Р	F	NA	Air seals	Р	F	١
Timber treatment	Р	F	NA	Ceiling batten spacing	Р	F	NA	Bottom plate fixings	Р	F	N
Lintel/beam size & fixing	P	F	NA	Stud spacing	Р	F	NA		Р	F	1
Plumber Name				TPR line	6	F	NA	Waste pipe size & te	0	F	1
Soil pipe size and test	Р	F	(NA)	Inbuilt S/W pipes tested <	Р	F	NA	Floor wastes	Р	F	C
Pipes fixed/supported	(P)	F	NA	Vents terminated <	P	F	NA	Shut off valves	8	F	1
System: AS3500, G13, Other	0	F	NA	Pressure Test WA (P)) F	NA	Fire wraps and collars	Р	F	4
POSTLINE				/					/		_
Sheet bracing	P	F	NA	Wet area substrate system	Р	F	NA	Sheet fixings	P	F	1
Penetrations sleeved	Р	F	NA		Р	F	NA	Fire/Acoustic separation	Р	F	1
)						



me Go Documents on site TE / NO Project Description A Go Project Description A Go Project Description A Go A Go Project Description A Go A	ate 25/10/3 Spor BCA 13	PECTION SH	Inspection	No. 5		
Circle appropriate Type & Inspection Other	me 1:66		Doc	uments on site	YES / N	
Confirmation of person on site LBP No. Confirmation will be)		
Diagram (if necessary)	Building Plumbing Circle appropriate	te Type & Inspection	Other			
Diagram (if necessary) Connect A TD Selfte Tank Diagram (if necessary) Connect A TD Selfte Ta	ite Found Piles PreSlab Subfloor Drainage PreWrap Pre	Clad Weathertight P	reLine PostLine	Block Brick	Ret.Wall	Fina
Confirmation of person on site LBP No. LBP No. Cour next inspection will be Law Law Saudance notes for inspection on the near of this there)	ngineer Supervision Yes No 🕡 – Name					
Confirmation of person on site Result: Pass Part pass Fa LBP No. 1449 Cour next inspection will be Hank Fas Hank S Guidance notes for inspection on the rear of this sheet)	Connected to Scritcinale. Inspection Points in Race Sternated 100m Pac to Trade with over from to water comes con Sitto	ed? Y / N		(if necessary)		
Agreed, Sign Sign	LBP No.	Result:(Pass	Part pass		Fa



SITE / FOUNDATIONS / PILES / PRE SLAB / SUBFLOOR / DRAINAGE

ne								Documents on	site Y	ES/N	10
vner Name	السياف		1 -	Pr	oject	Descr	iption	May			
					-			/			
e Address	•••••••										
All inspections are ca	rried	out v	with s	trict reference to the l	ouild	ing c	onsent	granted.			
P = Pass F = Fail	1	NA =	Non	-Applicable							
nspection decisions	are b	ased	on th	ne extent of work insp	ecte	d at t	he time	e of inspection.			
Please refer to the re	lated	scop	e she	eet for definition of the	e ins	pecti	ons ex	tent.			
CITE		-									_
SITE Conforms with								Engineer supervision	Y	N	N/
approved drawings	Υ	N	NA	Checked driveway	Y	N	NA	required	7	14	197
Company of Panelures				checked position off relevant boundaries						30	2.
Scope of Resource consent granted?	Y	N	NA	and datum height	Y	N	NA		Y	N	N
Expert Opinion				Name of Surveyor				Name of Engineer			
(Producer statement) required	1	N	NA	Company				Company			
FOUNDATIONS/				PILES				SUBFLOOR			
Footing Depth	Р	F	NA	Pile size	P	F	NA	Pile/Bearer/Joist Fixings	Р	F	N
Good bearing (NZS 3604)	P	F	NA	Pile layout is to plan	P	F	NA	Notching, Holes, etc	P	F	N
Reinforcing	Р	F	NA	Special piles - point load	Р	F	NA	Solid Blocking	Р	F	N
Siting	Р	F	NA	Timber Treatment	P	F	NA	Joists	P	F	N
Sub-floor vents	Р	F	NA	Hole depth	P	F	NA	Beams/Bearers	Р	F	N
PRE SLAB											
Rebate for brick veneer	P	F	NA	Sand blinding	P	F	NA	Steel reinforcing	Р	F	V
Ground clearance	Р	F/	NA	Slab thickenings	P	F	NA	Bar chairs	Р	F	V
Concrete Cover	B	F	NA	Vapour barrier (DPC)	P	F	NA	DPC penetrations taped	Р	F	1
Driveway s/w control	P	F	NA	Bottom plate fixings	Р	F	NA	Minimum Floor Level	Р	F	1
Diveway 5 W contains						/		Wastes and drains –		1	
Secondary flow path	Р	F	NA	TPR line	P	F	NA	size / fall	P	F	1
Pipe material	Р	F	NA	Plumbing layout	P	F	NA	Test – Water / Air	Р	F	1
Pipe protection	P	F	NA	Pipes supported	P	F	NA	Visual leak check	P	F	1
DRAINAGE	_				0	1					_
Pipe diameter	6	F	NA	Connections/Angles	P	F	NA	Holding water	0	F	1
Bedding material	0	F	NA	Branch length	P	F	NA	Terminal vent	P	F	
Gully trap(s)	P	F	NA	Direction/Fall	P	Ē	NA	LBP/Registration No:			
						1	-				



SCOPE OF INSPECTION SHEET
Date 25/10/13 SPOT BCA /30379 Inspection No. 4 A
Time 8:45' Documents on site ESY NO
Owner Name ESTHER - Paterson Project Description New Dwg
Site Address 142 Hura St Darkanae
Site Address
Building Rlumbing Circle appropriate Type & Inspection Other
Circle appropriate Type & Inspection Other
Site Found Piles PreSlab Subfloor Drainage PreWrap (PreClad) Weathertight PreLine PostLine Block Brick Ret.Wall Fina
Engineer Supervision Yes No n/a – Name
Flex) Wrap. * Cavity battons & closures Rather Checked from lost insp
* Carity battons & closures Katter lost insp
* Stude @ 1600 cts
* Lead Flashings on shaddow ok
* Strand board Bracing in Gorage ok
* Windows fitted, corner 100 kg 7
Mexi tape. Warz bos fitted Quin med world
Pavienes coca
Supervision
Photo's Taken - Nos saved/scanned? Y/N
THOLOS TAKELL - INOS
Site instruction issued

* Clack Land Classings Illand Ina cladding lower
* check head Clashings where Iron cladding being used at next Inspection
Will at rext 100 for all the state of the st
Confirmation of person on site Result: Pass Part pass Fai
Name I BP No.
Cris Moore 105907
Your next inspection will be Head Acokings on Iron
Your next inspection will be 129 100119 6 1001 (Guidance notes for inspection on the rear of this sheet)
Sim Phys Moere
Agreed, Sign Clus More Officer Name Luy Latson Sign CD
Officer Name Cay Sign Sign
Information entered into data base Initial Date/



PRE WRAP / PRE CLAD

All inspections are ca	rrie	d out	with s	trict reference to the	build	ling	conser	nt granted.			
P = Pass F = Fail				-Applicable							
				ne extent of work insp							
Please refer to the re	late	d scc	pe she	eet for definition of th	e ins	peci	tions e	xtent.			
Applies to all insp	ect	ions									
Sighted previous inspection notes	T) N	NA	Conforms with approved drawings	3	N	NA	Confirm Additional information/amended plan	Υ	N	MA
PRE WRAP											
Cladding type identified	Р	F	NA	Exterior sheet bracing & angle brace fixing	Р	F	NA	Bracing requirements	Р	F	NA
Framing moisture meets cladding requirements%	Р	Ė	NA	Bottom plate connections	P	F	NA	Purlin fixing	Р	F	NA
Stud spacing appropriate for cladding	P	F	NA	Building wrap type	Р	F	NA	Decking substrate	Р	F	NA
PRE CLAD	1	,									
Building wrap type	KI	on		Building wrap	PO	F	NA	Head flashings	0	F	NA
Flexible sealing tape type .		arsh	/U	Flexible sealing tape	Po	F	NA	Sill flashings	0	F	NA
Deck membrane type			suure .	Deck membrane fixed in accordance with Spec	Р	F	(NA)	Back flashings	Р	F	NA.
Saddle flashings	P	F	(A)	Internal/external corner flashings	(1)	F	NA	Jamb flashings	0	F	N/
Capillary clearances	P	F	NA	Flashing of penetrations	(P)	F	NA	Ground/deck cladding clearance	(P)	F	N/
CAVITY SYSTEM											
Additional strapping to wrap	Р	F	MA	Batten timber treatment	0	F	NA	Cavity closers	0	F	NA
Battens in place	1	F	NA	Battens structural fixing	0	P	NA	Cavity spacers	(F	N
Cavity spacers size & slope	R)F	NA	Reinforcing fixed in place (stucco)	Р	F	ŊA	Proprietary self spacing mesh	P	F	N.
Mesh spacers (stucco)	P	F	NA	Proprietary control joints (stucco)	P	F	NA	Rigid backing type (stucco)	Р	F	N
Fixings (galvanized or stainless) (stucco)	P	F	NA	Waterproofing to slab-edge	P	P	NA		P	Ē	N
Stairness/ (Stucco)	1.		1 /100	5,65 5 5 5			1				



SCOPE OF INSPECT	TON SHEET ,	
Date 23 10/13. SCOPE OF INSPECT	Inspection No	
Time 1-30	Documents on site YES No	0
Owner Name ESTHER + PETERSON Project	ct Description New Huy	
Site Address / 42 Hula ST	/	
		_
Building Plumbing Circle engrentiate Type &	Leave at a College	
Circle appropriate Type &	Inspection Other	
Site Found Piles PreSlab Subfloor Orainago PreWrap PreClad We	athertight PreLine PostLine Block Brick Ret.Wall	Final
Engineer Supervision Yes No (n/a) - Name		
Notes 100m Pic waste + Soic Pipe	Diagram (if necessary)	
in Place competed to be Atmed		
Good FAM POINTS in RACE:		
Guy Tast in Pace		
Banas in Pagratal		
TEMPLES VOIT IN BUT NOT YET		
Confloras		
	y	
Photo's Taken – Nossaved / scanned? Y / N		
Site instruction issued As Built Maning Requi	201	
NEWS Zas Instruction on	- STORMINE	
+ Soric Trade comes	75~	
	A.1.76	
		- 4
Confirmation of person on site	Result: Pass Part pass	Fail
Name LBP No.		
S D	<u></u>	
Your next inspection will be (Guidance notes for inspection on the rear of this sheet)	71/90	quen.
the Rugards - Colf	5	
Agreed for Sun (Print Name) Sign		
Officer Name		
Information entered into data base Initial		



SITE / FOUNDATIONS / PILES / PRE SLAB / SUBFLOOR / DRAINAGE

me								Documents o	n site	YES)	NO
vner Name	Ć			F	roject	Desc	cription	nou lux			
				A. I. Too o							
				strict reference to the	build	ling	conser	nt granted.			
P = Pass F = Fa				n-Applicable			1				
				he extent of work insp							
Please refer to the r	elate	d scc	pe sh	eet for definition of th	ne ins	pect	ions e	xtent.			
SITE											
Conforms with	Y	N	NA	Checked driveway	l, l	N	AIA	Engineer supervision	Y	M	
approved drawings	+	IN	INA		1	N	NA.	required	Y	N	N
Scope of Resource				Checked position off relevant boundaries			1	/			
consent granted?	Y	N	NA	and datum beight	Y	N	NA /		Υ	N	N
Expert Opinion (Producer statement)	16			Name of Surveyor			_/	Name of Engineer			
required	Y	N	NA	Company				Company			
FOUNDATIONS			/_	PILES				SUBFLOOR			_
Footing Depth	P	1	NA	Pile size	Р	F	NA	Pile/Bearer/Joist Fixings	Р	F	-1
Good bearing (NZS 3604)	P	F	NA	Pile layout is to plan	Р	F	NA	Notching, Hales, etc	Р	F	N
Reinforcing	P	F	NA	Special piles - point load	P	F	NA	Solid Blocking	Р	F	N
Siting	Р	F	NA	Timber Treatment	Р	F	NA	Joists	Р	F	N
Sub-floor vents	Р	F	NA	Hole depth	Р	F	NA	Beams/Bearers	Р	F	N
PRE SLAB											
Rebate for brick veneer	P	F	NA	Sand blinding	P	F	NA	Steel reinforcing	Р	F	V
Ground clearance	Р	8	NA	Slab thickenings	Р	E	NA	Bar chairs	Р	F	N
Concrete Cover	P	F	NA	Vapour barrier (DPC)	P	F	NA	DPC penetrations taped	P	F	N
Driveway s/w control	Р	F	NA	Bottom plate fixings	Р	F	NA	Minimum Floor Level	Р	F	N
			7			F		Wastes and drains –			
Secondary flow path	P	F	NA	TPR line	P	F	NA	size / fall	Р	F	N
Pipe material	Р	F	NA	Plumbing layout	P	F	NA	Test – Water / Air	Р	F	N
Pipe protection	P	F	NA	Pipes supported	Р	F	NA	Visual leak check	Р	F	٨
DRAINAGE											
Pipe diameter	0	F	NA	Connections/Angles	(P)	F	NA	Holding water	(P)	F	N
Bedding material	0	F	NA	Branch length	0	F	NA	Terminal vent	1	Ê	N
					1				-		-



14-10-2013 SCOPE	OF INSPECTION	N SHEET	n No	
te /4-70-2013 SRO	FBCA	, Do	ocuments on site YES / I	10
vner Name David Roid Hon	NS Project D	MAINE	s dwg	
e Address 142 Aluia St				
Building Plumbing circ	cle appropriate Type & Ins	pection Other		
te Found Piles PreSlab Subfloor Drainage	PreWrap PreClad Weath	ertight PreLine PostLi	ne Block Brick Ret.Wa	II Final
ite Found Piles PreSlab Subfloor Diamage				
ngineer Supervision Yes No n/a - No Notes & SUM NOVE HOM W. Made & Made	on on stepla chelled schelled to top pate	ns). LBP list		48,
Photo's Taken – Nos	sayed / scanned? Y / N		J	
Site instruction issued * 3 FOO Mark	t aleas to	be sheet built p sign by	lan inners	
	***************************************	Result: Pass	Part pass	Fa
Confirmation of person on site	LBP No.	Kesuiti (1)		
Name				
,				
Your next inspection will be(Guidance notes for inspection on the rear of this sheet)	Ы	9		
Agreed, Olms Move	Sign		randrative:	
Officer Name	Sign		Data / /	
Information entered into	data base I Initi	al	Date/	F



PRF WRAP / PRE CLAD

	arried							and the second			
				strict reference to the	build	ling	conse	nt granted.			
P = Pass F = Fai				-Applicable ne extent of work insp	ecte	d at	the tir	ne of inspection.			
Please refer to the re	elated	sco	pe sh	eet for definition of th	e ins	pec	tions e	xtent.			
Applies to all insp		_									
Sighted previous inspection notes	M	N	NA	Conforms with approved drawings	7	N	NA	Confirm Additional information/amended plan	Y	3	NA
PRE WRAP											
Cladding type identified	0	F	NA	Exterior sheet bracing & angle brace fixing	Р	F	NA	Bracing requirements	(P)	F	NA
Framing moisture meets cladding requirements%	6 B	F	NA	Bottom plate connections	P	F	NA	Purlin fixing	0	F	N/
Stud spacing appropriate for cladding	B	F	NA	Building wrap type	0	F	NA	Decking substrate	Р	F	(N
PRE CLAD											
Building wrap type				Building wrap	Р	F	NA	Head flashings	Р	F	N
Flexible sealing tape type				Flexible sealing tape	Р	F	NA	Sill flashings	Р	F	N.
Deck membrane type				Deck membrane fixed in accordance with Spec	P	F	NA	Back flashings	Р	F	N
Saddle flashings	Р	F	NA	Internal/external corner flashings	Р	F	NA	Jamb flashings	Р	F	N
Capilla ry clear ances	Р	F	NA	Flashing of penetrations	Р	F	NA	Ground/deck cladding clearance	Р	F	N
CAVITY SYSTEM											_
Additional strapping to wrap	Р	F	NA	Batten timber treatment	P	F	NA	Cavity closers	P	F	N
Battens in place	Р	F	NA	Battens structural fixing	P	F	NA	Cavity spacers	Р	F	N
Cavity spacers size & slope	Р	F	NA	Reinforcing fixed in place (stucco)	P	F	NA	Proprietary self spacing mesh	P	F	N
Mesh spacers (stucco)	Р	F	NA.	Proprietary control joints (stucco)	Р	F	NA.	Rigid backing type (stucco)	P	F	٨
Fixings (galvanized or stainless) (stucco)	Р	F	NA	Waterproofing to slab-edge	Р	F	NA		P	F	N



9-9-2013 SCOPE OF INSP	PECTION SHEET 30379 Inspection No.
	Documents on site YES/ NO
wner Name Svid Leid Homes	Project Description New Owg
Building Plumbing Circle appropriate	e Type & Inspection Other
	lad Weathertight PreLine PostLine Block Brick Ret.Wall Fina
Engineer Supervision (Fest No n/a – Name	
Notes Notes has changed, dwg	Diagram (if necessary) 2. has moved 2 meters sited of cutals plan and pegs
t ground beam, placed to coomm slab, no une	//
* internal soil placed * all stell placed as conc	pent. * LBP not on sit
* pipes are protected * anchor piles have alreading engineer and par	
Photo's Taken – Nossaved / scanne	d?Y/N
Site instruction issued # Engineer to in evidence # CBP list feat # Ievised site	nspect and provide of inspection, uned to next inspection
Confirmation of person on site	Result: Pass Part pass Fai
Name LBP No.	
Your next inspection will be	Beheck
Agreed NEL FOWEN Sign	()[-(-)
Officer Name	Initial



ne 12:00				12.22							
				Hongs P							
Address	2	H	11/1/	; S/							*****
				A 72-3-6 6 1							
				strict reference to the	build	ding o	consen	t granted.			
P = Pass F = Fa				n-Applicable he extent of work insp	octo	d at	the tim	e of inspection			
4				eet for definition of th							
				77170 770000	7			2000			
SITE											
Conforms with approved drawings	Υ	0	NA	Checked driveway	Υ	N	(A)	Engineer supervision required	0	N	N
Scope of Resource	Y	0	NA	Checked position off relevant boundaries	3	N	NA		Y	N	N
consent granted?	1	Φ.P	INA	and datum height Name of Surveyor	U	IN	INA	Name of Engineer	14	18	18
Expert Opinion (Producer statement) required	D	N	NA	Company			-	Canadani			
FOUNDATIONS	0		·w·	PILES				SUBFLOOR			
Footing Depth	P	F	NA	Pile size	P	F	NA	Pile/Bearer/Joist Fixings	Р	F	K
Good bearing				Pile layout is							1
(NZS 3604)	P	F	NA	to plan	P	F	NA	Notching, Holes, etc	Р	F	N
Reinforcing	Р	F	NA	Special piles - point load	P		NA.	Solid Blocking	Р	F	N
Siting	P	F	NA	Timber Treatment	Р	F	NA	Joists	Р	F	V
Sub-floer vents	P	F	NA	Hole depth	P	F	NA	Beams/Bearers	Р	F	N
PRE SLAB					_				-		
Rebate for brick veneer	P	F	M	Sand blinding	B	F	NA	Steel reinforcing	(0)	F	N
Ground clearance	(1)	F	NA	Slab thickenings	P	F	NA	Bar chairs	P	F	N
Concrete Cover	Ô	F	NA	Vapour barrier (DPC)	(B)	F	NA	DPC penetrations taped	P	F	N
Driveway s/w control	Р	F	(A)	Bottom plate fixings	Р	F		Minimum Floor Level	P	F	N
V 200 10 4 200 00 1			2.7					Wastes and drains –	P	F	1
Secondary flow path	P	F	NA	TPR line	P	F	NA	_size / fall			1
Pipe material	P	F	NA	Plumbing layout	P	F	NA	Test – Water / Air	Р	F	N
Pipe protection	P	F	NA	Pipes supported	P	F	NA	Visual leak check	Р	F	1
DRAINAGE			1			-	1	Links Co. Co. Co.	T	F	T .
Pipe diameter	P	F	NA	Connections/Angles	P	F	NA	Holding water	P		+
Bedding material	Р	F	NA	Branch length	1	F	NA	Terminal vent	Р	F	N
Gully trap(s)	P_	-	NA	Direction/Fall	P	F	NA	LBP/Registration No:			



Date 3-9- 03 SCOPE OF INSPECTION	SHEET Inspection No
Time $1 \cdot 30$ $\rho = 1$	S WEST
Owner Name DAID, KALD HOMProject Des	
Site Address 42 HUIA ST	
Building Plumbing Circle appropriate Type & Inspec	ection Other
Site Found Piles PreSlab Subfloor Drainage PreWrap PreClad Weatherti	ight PreLine PostLine Block Brick Ret.Wall Fir
Engineer Supervision Yes No n/a – Name	
Notes	Diagram (if necessary)
100m Ric SWUL -65h	in Lalets
100m PUC SCWEC - 63M	CO 1010 27 8
1010 M TESTED 015-	
20 mm (11/K	
Photo's Taken – Nossaved / scanned? Y / N	
NO RUMBUL 025 SITE	
Confirmation of person on site	esult: Pass Part pass Fa
Name LBP No.	
Your next inspection will be	
Your next inspection will be(Guidance notes for inspection on the rear of this sheet)	2004 Per 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Agreed,SignSign	
Officer Name (A) (A) Sign	



Documents on site YES NO Owner Name Site Address Building Plumbing Circle appropriate Type & Inspection Other Site Found Piles PreSlab Subfloor Drainage PreWrap PreClad Weatherlight PreLine PostLine Block Brick Ret.Wall File Engineer Supervision Yes No n/a - Name Notes Diagram (inecessary)	Date 3-9-103 SC	OPE OF INS	PECTION SHE	Inspection No.	
Circle appropriate Type & Inspection Other	Owner Name Site Address	- /		Documents on site	YES) NO
Site Found Piles PreSlab Subfloor Drainage PreWrap PreClad Weathertight PreLine PostLine Block Brick Ret.Wall Figure Supervision Yes No n/a - Name	Building Plumbing	Circle appropriat	e Type & Inspection	Other	
Diagram (if necessary) ADM DESTRUCT OF AND DESTRU	Site Found Piles PreSlab Subfloor Drai	nage PreWrap PreC	Clad Weathertight PreLi	ne PostLine Block Brick R	et.Wall Fir
Diagram (if necessary) Diagra					3 116
DMS (Staken – Nos					
noto's Taken – Nos				NASFES .	
ponfirmation of person on site ame LBP No. LBP No. Pass Part pass Fail Carrier Name (Print Name) Sign.	20 mm (TPR				
ur next inspection will be lidance notes for inspection on the rear of this sheet) Ireed, (Print Name) Sign	hoto's Taken – Nos. ite instruction issued	saved / scanned	1? Y / N		
ur next inspection will be dance notes for inspection on the rear of this sheet) reed, (Print Name) Sign	No Plumby	D25 511	C		
reed,	onfirmation of person on site ame	LBP No.	Result: Pas	Part pass	Fail
(Print Name)	ur next inspection will beidance notes for inspection on the rear of this sheet)				- A
	ficer Name AAAA	Sign	D.		



SITE	/ FOUNDATIONS	/ PILES / PRI	FSIAR	/ SUBFLOOR	/ DRAINAGE
31 I E	CHOINDAHOINS	/ FILES / FIXI	- JLAD	- JUDI LUUN	/ DIVALIVAGE

e					unn.			Documents on	site	YES /	NO
ner Name	JIT	1	K	10 Holl P	roject	Desci	ription	New Y			
Address		1	Uy	9 86							*****

II inspections are c	arried	d out	with s	strict reference to the	build	ling c	onser	it granted.			
= Pass F = Fa				-Applicable							
				ne extent of work insp							
lease refer to the re	elate	d sco	pe she	eet for definition of th	e ins	pecti	ons ex	ktent.			
SITE											
Conforms with pproved drawings	Y) _N	NA	Checked driveway	Υ	N	NA	Engineer supervision required	Ÿ	N	1
cope of Resource	Y	N	NA	Checked position off relevant boundaries and datum height	Y	Ν	NA		Y	N	1
expert Opinion		7.09	1000	Name of Surveyor				Name of Engineer			
(Producer statement) required Y N NA				Company	_	Company					
OUNDATIONS				PILES				SUBFLOOR >			
ooting Depth	Р	F	NA	Pile size	P	F	NA	Pile/Bearer/Joist Fixings	P	F	1
Good bearing NZS 3604)	Р	F	NA	Pile layout is to plan	Р	F	NA	Notching, Holes, etc	Р	F	1
Reinforcing	Р	F	NA	Special piles - point load	Р	F	NA	Solid Blacking	Р	F	1
Siting	Р	F	NA	Timber Treatment	Р	F	NA	Joists	Р	F	1
Sub-floor vents	P	F	NA	Hole depth	Р	E	NA	Beams/Bearers	Р	F	1
PRE SLAB					/						_
Rebate for brick veneer	P	F	NA	Sand blinding	P	F	NA	Steel reinforcing	P	F	1
Ground clearance	Р	F	NA	Slab thickenings	Р	F	NA	Bar chairs	P	F	1
Concrete Cover	P	F	NA	Vapour barrier (DPC)	Р	F	NA	DPC penetrations taped	P	F	1
Driveway s/w control	P	E	NA	Bottom plate fixings	Р	F	NA	Minimum Floor Level	P	F	1
Secondary flow path	P	F	NA	TPR line	Р	F	NA	Wastes and drains – size / fall	Р	F	g
Pipe material	Р	F	NA	Plumbing layout	Р	F	NA	Test – Water / Air	Р	F	1
Pipe protection	Р	F	NA	Pipes supported	P	F	NA	Visual leak check	Р	F	
DRAINAGE											
Pipe diameter	0	F	NA	Connections/Angles	P	F	NA	Holding water	P	F	
Bedding material	P	F	NA	Branch length	P	F	NA	Terminal vent	P	a	
	Р	F	MA	Direction/Fall /	VA	2 F	NA	LBP/Registration No:			

SITE INSPECTION REPORT

Date: 9 Sept	tember 2013	Report No:	01	Job No: 25056	
Inspected By:	Geert van de	Vorstenbosc	h		
Contractors Representative:	d Reid Homes	Area Inspe	ected: Slab prepou		
Project:	142 Hula St,	Waikanae	BC Number:		

Time: 1.45pm

Weather: Beautiful

Observations:

 All reinforcement and mesh is in place. A few pile reinforcing bars yet to be bent and tied into the footings. A small portion of the mesh yet to be chaired.

2. All ribs, slab edges and thickenings are correct dimensions.

Discussions/Instructions:

1. Complete item 1 above.

Approved to pour once the above has been carried out and provided the BCA have carried out any inspection they require.

Next Inspection:

Send to: Chris Moore (chrism@davidreidhomes.co.nz)



ISP CONSULTING ENGINEERS LTD

Civil & Structural Seismic Risk Analysis Building Compliance

Lower Hutt Office Tel: 04 566 8004 Fax: 04 566 8037 Level 1, 14 Laings Road Hutt City Dental Centre P.O. Box 30 535 Lower Hutt 5040

Paraparaumu Office Tel: 04 902 5750 L1, Kayel Building Margaret Road Raumati Beach Paraparaumu 5254

Email:email@isp.co.nz Web: www.isp.co.nz





Site Inspection Report - New BC Applications

BC Application	on num	ber: <i>13</i>	03	79	Lot .10.	DP 226.52
Site Address:	142	HU	A	ST	WAIKAN	JAE
Building Proj	ect:!					
					a ten are	T

Item to be checked	Decision	Record any relevant information	Action required
Contours match application?	Yes No	Sloping Land.	
Datum point identified?	Yes (No)		
Boundaries identified?	Yes/No	[per + fand line	
Check ground conditions?	Yes/No	Rock	
Check f/path, kerb & channel, grass berm, note existence/damage.	Yes/No	Shingle form Enterence	
Vehicle entrance crossing installed (describe condition)	(es) No	No concrete Entoneres	
Photos taken? (Save & link to NCS)	Yes /No		
Dogs or other hazards on property?	Yes/No		
Is there a requirement for further foundation investigation e.g Engineers design	Yes/No	rdance with KCDC Policy 007. Circle Yes	Referred to Approvals T/L Yes No

Note: if there is a requirement for further information or some areas which do not appear to comply refer file to Team Leader Consent Approvals for action.

Inspecting Officer:

Name CRAIG WATSON Signature (1) Date: 18,6/13

Unless further foundation information required, change NCS status to "To Plumbing & Drainage" and place file in P&D shelf area for Approvals. If further information is required, then Status change to "To Senior Building Inspector" and hand to Team Leader Consent Approvals for action.

KCDC Form 241 ver. 2

FOR COUNCIL USE:

DED A DES CENTE	I mrove non	FOR COUNCIL USE:	1
DEPARTMENT	TICK FOR REFERRAL		APPROVING OFFICER/ DATE
Site Inspection	1/	Refer to Form 241 for completion of site Inspection & sign off this form when completed.	craig 60 18/6/13
	V		18/6/13
Resource Consents (refer PIM Sheet)	/		
Plumbing and Drainage	/	Lettersent	M9/7/2013
Building		20 1.00 XWI	11100
	\vee		3(7/3
Fire Design			
Compliance Schedule			
Environmental Health			
Other			
		NOTES:	
			Total Line
and the state of t			



RBW

Building Consent No.	BC 130379
Building Project	New DNOlling
Location (Site Address)	142 Huia St. Walkanas
Building Category	Circle appropriate category 0 1 2 3

Application wor	rkflow checklist	
RECEIVED 17 JUN 2013 BY:		Date
# Note: Checked, date stamped and initialled by TO/BCO. Select and circle appropriate category above & identify allocation to appropriate technical groups and if required to go to "site inspection" AP-WI-001	Palmon 176	3/13
Payment taken and receipted (details entered inside this cover sheet) by CSO CS-WI-008		
Data entered and invoiced by CSO CS-WI-008	Jo Crost 17/0	13
Pages numbered by SO CS-WI-008	Apalmon 17	[6]
BC Application and documentation scanned, checked & status update by CSO CS-WI-009	Pto Coof 171	6/13
BC Application signed over to BC CS-WI-009	To Cooft H	6/13
Application reviewed by Technical Officers who sign off at back of this form AP-WI-026 & AP-WI-009	Simon Copp 27/6 Cainal Stulloch 20	12013
Once Technical review complete, passed to CS for Plan Production and Invoicing AP-WI-009	Chamle Sturbon 30	17/13
CSO checks data entry input, including required inspections CS-WI-012)	
BC, plans and other appropriate paperwork produced by CSO CS-WI-012		
BC, Approved plans and appropriate paperwork sent to applicant or agent with receipt by CSO CS-WI-012	Barbara 2	18/13
Inspection envelope prepared by CSO with endorsed plans and other appropriate paperwork and filed to cabinet. CS-WI-012		

CONSENT DATA INPUT REQUIREMENTS

REQ	UIRED INSPECTIONS	32	1	Lapse and cancellation after 12mths of consent	23		Installation of solid fuel appliance (wood burner)
V	Foundation/Piles		V	/	001		comply and secured
	Block	2	/	Engineer design specific components	23A		Second hand wood burner certified
V	Pre-Slab (Plumbing)	3		Foundations to solid bearing of 200mm	25	1	Contractor to leave site clean and clear
1	Pre-Slab (Building)	4		NZS3604 as acceptable solution in terms of NZ	30		To comply with Food Hygiene Regulations 1974
	Sub-Floor	_		Building Code	31		As in CCZ, all fixings need
1	Drainage	6		Not approved as Habitable Room			to be stainless steel
7	Pre-Wrap	9	1	Note and comply with all endorsements on approved plans	33		Approval only given for relocation purposes
1	Pre-Clad	10		Names and Registration	34		If cladding to have pre- finished colour coating, to
1	Weathertightness			of plumber and drain- layer required			be appropriate for coastal conditions
1	Pre-lining (Building)	11	1	Concealed soil and TV	38		Window sashes on upper
1	Pre-lining (Plumbing)		/	pipes and gas flues only allowed in ducts or minimum framed			levels less than 760mm above floor to have stays fixed
	Wet areas - membrane	12		Hot & Cold water pipes	39		Construction of
1	Post Lining			tested to 1500kPa			playground to comply with NZS5828
	Brick Veneer	13		Roof stormwater to be connected to existing	40		Fencing, gates, doors directly leading to
	Retaining Wall						swimming pool to comply with Pool Act 1987
	Final (Dwelling)	14		Copper water pipes not permitted	43		Textured systems should be applied by licensed,
	Final (Commercial &Multi-resd)						trained applicators – supply warranty
		15		Owner/builder to ensure prop foundation height will allow satisfactory connection	44	1	Exterior cladding system to be completed and inspected prior to internal lining
		21	/	Minimum FFL to comply with NZS3604			
	11307113	2 - 17/1					

/	ST	ANDARD CONSENT CONDITIONS
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1	37	
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Form 123 ver. 2 - Doc #124146

NON-STANDARD ADDENDA		

FOR OFFICE USE ONLY FEES		APPLICATION FEE	\$
Building Fee	\$3079 -		\$4982-50
Sewer Connection	\$	RECEIPT NO	DATE
Water Connection	\$		
Vehicle Crossing	\$	INVOICE NO	DATE 17 6 13
Damage Deposit	\$ 508 -	57407	
Code Compliance Administration	\$	RECEIPT NO	DATE
Building Research Levy	\$450 -		
Development Levy	\$	FEES PAID BY:	
DBH Levy	\$9.04-50		
Compliance Schedule	\$		
Digital Storage Fee	\$41	BUILDING CONSENT NUMBER	DATE ISSUED
Certificate of Title Charge	\$	BC 130379	17/6/13
Photocopying	<u>\$</u>		
SUBTOTAL	\$	AUTHORISATION FOR REF	UND OF DEPOSIT
Less Fee Paid	<u>\$</u>	Deposit held =	\$
TOTAL	\$	Cost to Repair Damage Caused Du Construction =	ring \$
GST INCLUDED	\$	Total Balance to be Refunded	
\$	4982 -50	Authority Number:	
		Authorised:	DATE:

Form 123 ver. 2 - Doc #124146



Building consent 130379

Section 51, Building Act 2004

The building

Street address of building: 142 Huia Street, Waikanae

Legal description of land where building is located: LOT 10 DP 22652 BLK VI KAITAWA SD

Valuation number: 1490010400

Building name:

Location of building within site/block number: Access from Huia Street

Level/unit number:

The owner

Name of owner: Jules Esther & Dana Rachelle Peterson

Contact person:

Mailing address: C/- David Reid Homes, PO Box 148, Paraparaumu

Street address/registered office:

Phone number: Landline: Mobile:

Daytime: After hours:

Facsimile number:

Email address:

Website:

First point of contact for communications with the council/building consent authority:

Full Name: David Reid Homes

Mailing Address: David Reid Homes, PO Box 148, Paraparaumu 5254

Phones:: 021 880033: 04 9045959

Email: timothy@davidreidhomes.co.nz

Building work

The following building work is authorised by this building consent:

New single-level building.

Dwelling

This building consent is issued under section 51 of the Building Act 2004. This building consent does not relieve the owner of the building (or proposed building) of any duty or responsibility under any other Act relating to or affecting the building (or proposed building).

This building consent also does not permit the construction, alteration, demolition, or removal of the building (or proposed building) if that construction, alteration, demolition, or removal would be in breach of any other Act.

This building consent is issued subject to the following conditions:

Approval of this building consent is subject to compliance with a certificate issued pursuant to Section 37
of the Building Act 2004.

Compliance schedule

A compliance schedule is not required for the building.

Attachments

Copies of the following documents are attached to this building consent:

Signature

On behalf of: KAPITI COAST DISTRICT COUNCIL

Date: 30/07/13

2 August 2013

Jules Esther & Dana Rachelle Peterson C/- David Reid Homes PO Box 148 Paraparaumu

Dear Sir/Madam

Approval of Building Consent: 130379

Description:

New single-level building.

Location:

142 Huia Street, Waikanae

Legal Description:

LOT 10 DP 22652 BLK VI KAITAWA SD

I am pleased to inform you that the above building consent application has been approved. The building consent documents have been issued and are enclosed.

Before starting any work please read ALL the building consent documents carefully and in full so that you as the owner understand the conditions under which the consent has been issued.

As the owner you are also responsible for the following:

- ensuring that building work starts within 12 months of the approval of the building consent and that work progresses at a reasonable pace.
- ensuring that all required inspections are completed and that a Code Compliance Certificate is
 obtained once the work has been completed please be aware that before a Code Compliance
 Certificate is issued, the building work must comply with the Building Act 2004 and the Building Code
 as at the date of this consent.
- that no work with noisy equipment is to be carried out before 7.30 a.m. or after 6 p.m. Monday to Saturday. During the week there may be workers on site from 6.30 a.m. quietly preparing for work.
 Work with noisy equipment is not permitted on Sundays and public holidays.
- ensuring that no damage occurs to public property, for example footpaths or retaining structures.
 Should damage occur you will be required to pay for any repairs.
- ensuring that if you wish to make any changes to the approved building consent, then an amendment
 to the building consent will need to be lodged with us.

If you have any questions regarding your building consent or your responsibilities, please contact Kapiti Coast District Council on (04) 2964 700.

Addenda to Application

Application

No.	130379
	No.

Project

Project	
Description	New (& prebuilt) House, Unit, Bach, Crib, Town House etc.
China and China	Being Stage 1 of an intended 1 Stages
	New single-level building.
Intended Life	Indefinite, but not less than 50 years
Intended Use	Dwelling
Estimated Value	\$450,000
Location	142 Huia Street, Waikanae
Legal Description	LOT 10 DP 22652 BLK VI KAITAWA SD
Valuation No.	1490010400

Builder: David reid Homes - Chris Moore 111 Rimu Road,

Paraparaumu: 0272206312

Designer: AD Architecture Ltd - Peter Davis PO Box 1585, Paraparaumu

: 021 328471 / 04 2985662

Drainlayer: Peter Jackson Plumbing PO Box 542, Paraparaumu: 04

9046429

Plumber: Peter Jackson Plumbing PO Box 542, Paraparaumu : 04

9046429

Contractor: ISP Consulting Engineers Hutt Dental Centre, 14 Laings Rd,Lr

Hutt

General Requirements

- a) The Building Inspector is to be given 24 hours' notice before carrying out the following inspections:
- 1. Foundations
- 2. Pre-slab
- 3. Pre-slab
- 4. Drainage
- 5. Pre Wrap
- 6. Pre Clad
- 7. Weathertightness
- 8. Preline
- 9. Preline
- 10. Postline
- 11. Final Inspection
- b) To arrange for any of the above required inspections by Building Control Team, please contact the Call Centre on (04) 296 4700 between the hours of 8am and 5pm.

Addenda to Application 130379

- LAPSE AND CANCELLATION OF BUILDING CONSENT. A building consent shall lapse and be of no effect if the building work concerned has not been commenced within 12 calendar months after the date of issue. Or within such further period as the territorial authority allows.
- The inspection of all specific design components of the building is the responsibility of the Design Engineer who is also required to supply a written report to Council.
- 3. Note and comply with endorsements on approved plans.
- Concealed soil and TV pipes and gas flues are only permitted built into ducts or minimum 150mm framed walls or with the Phillips top plate connecting bracket.
- Minimum heights of finished concrete slab-on-ground floors above adjoining finished ground level to comply with the current NZS3604.
- Seismic restraint to be provided to appliance and flue as per the manufacturer's recommendations, NZBC, C.1 and Acceptable Solutions 9.1.2 and 9.2.2
- 7. Contractor to leave site clear of all demolition materials and in a tidy state.
- Exterior cladding system to be previously completed and inspected by Council's Inspector prior to any subsequent prelining inspection/approval being granted for the fixing of internal linings.
- 9. All work to be in accordance with Resource Consent for earthworks.

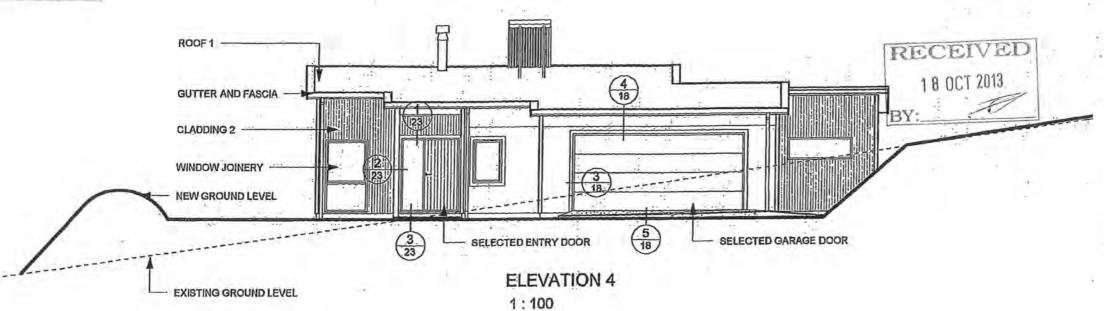
I have read the foregoing addenda to application, and the Owner/Builder/Authorised Person hereby agrees to comply with them.

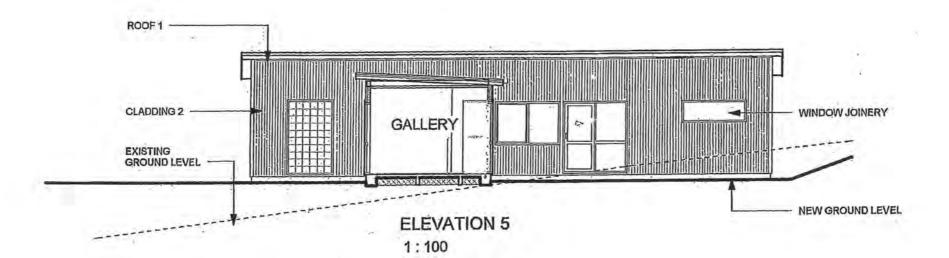
OWNER/BUILDER/ AUTHORISED PERSON

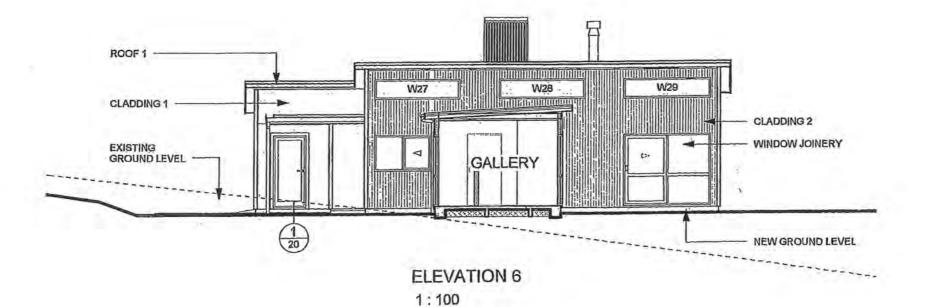
Date:

7/05/2014

BC 130379







10001

SELECTED PRODUCTS.

THIS PAGE IS TO BE READ IN CONJUNCTION WITH SHEET 02 - CONSTRUCTION NOTES FOR ADDITIONAL INFORMATION

CLADDING 1 - 12mm SHADOWCLAD PLY SHEET CLADDING ON 50x25 H3.1 TIMBER CAVITY BATTENS ON TEKTON WALL UNDERLAY AS PART OF THE TEKTON WEATHERIZATION SYSTEM ON FRAMING

CLADDING 2 - 0.4 GAUGE TRAPEZOIDAL PROFILED METAL CLADDING ON THERMAKRAFT 215 WALL UNDERLAY ON FRAMING

ROOF 1 - 0.4 GAUGE LONGRUN COLORSTEEL

ROOF 1 - 0.4 GAUGE LONGRUN COLORSTEEL
 ENDURA TRAPEZOIDAL PROFILED METAL
 ROOFING ON THERMAKRAFT 215 UNDERLAY

ROOFING ON THERMAKRAFT 215 UNDERLAY
ON WIRE MESH ON PURLINS ON FRAMING
SOFFITS - 4.5mm HARDIFLEX
FASCIA - TIMBER
GUTTERS - COLORSTEEL BOX GUTTER 125
DOWNPIPES - MARLEY 80% ROUND
WINDOW JOINERY - POWDERCOAT
ALUMINIUM RESIDENTIAL DOUBLE GLAZED
WINDOWS
WINDOWS
WINDOW FLASHING TAPE - PROTECTO WRAP
ONE PIECE SILL TAPE AS PART OF THE
TEKTON WEATHERIZATION SYSTEM





Phone: 04 904 59 59

2	30-04-13	Client	Requests	3	
Rev	Date		Descri	ption	
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EARTHWORKS NOTES

THIS PAGE IS TO BE READ IN CONJUNCTION WITH SHEET 02 - CONSTRUCTION NOTES FOR ADDITIONAL INFORMATION

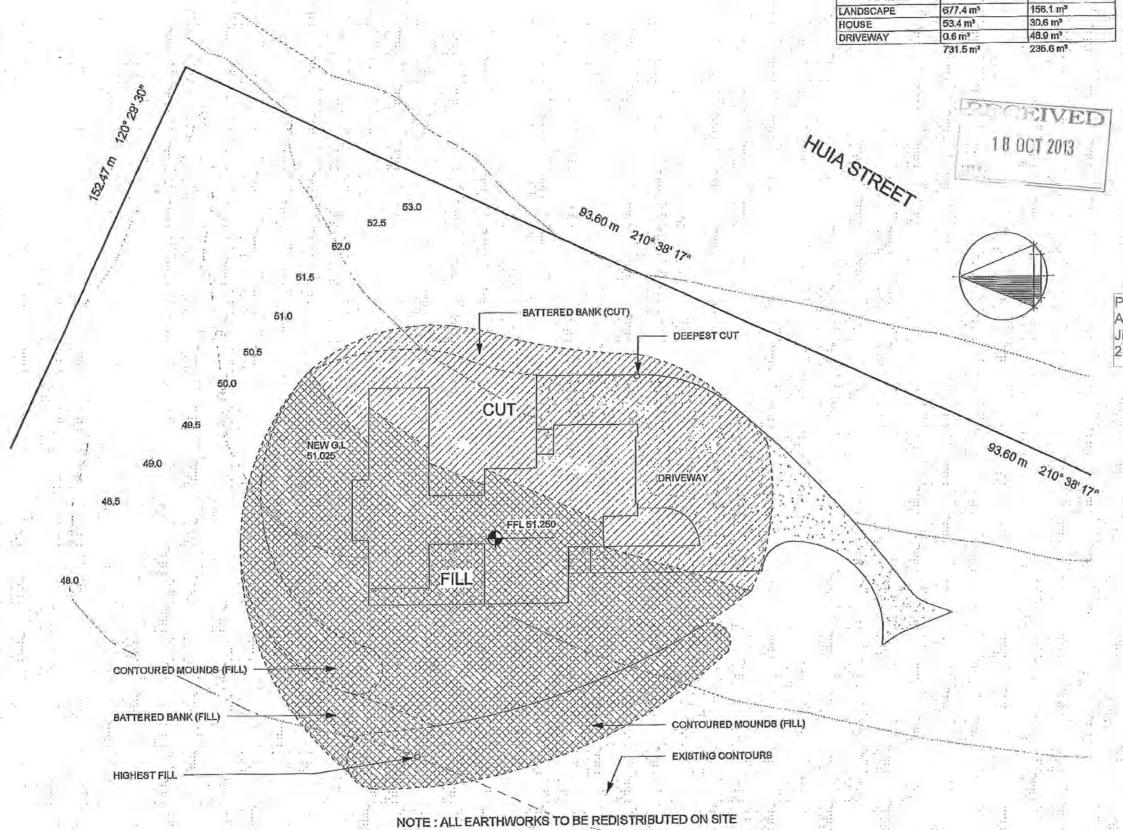
APPROX. EXTENT OF CUT = ~350m² / 236m²

APPROX. EXTENT OF FILL = ~629m² / 730m²

TOTAL AREA OF EARTHWORKS = 979m²

APPROX. DEEPEST CUT = 1.7m

APPROX. HIGHEST FILL = 3.8m





Planning Approved by Jill Burke 28/01/2014



Phone: 04 904 59 59

2	30-04-13	Client Requests
Rev	Date	Description
Prop for E	osed Hous	e terson
	Hula St Walka	
	0.00	

DP 22652 Lot 10.

Tel: 04 298 5662 PO Box 1585, Paraparaumu Beach Info@adarchitecture.co.nz www.adarchitecture.co.nz

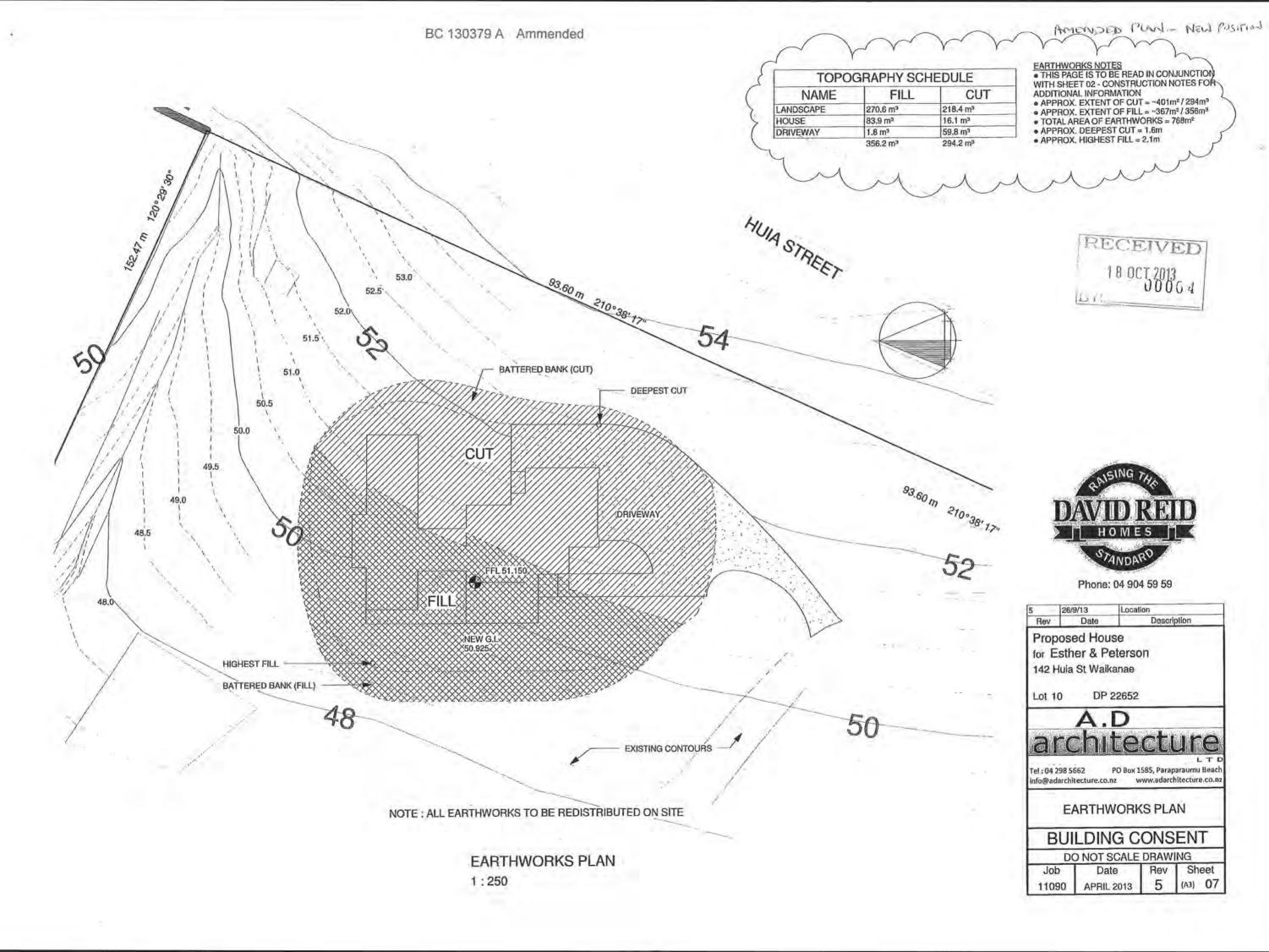
EARTHWORKS PLAN

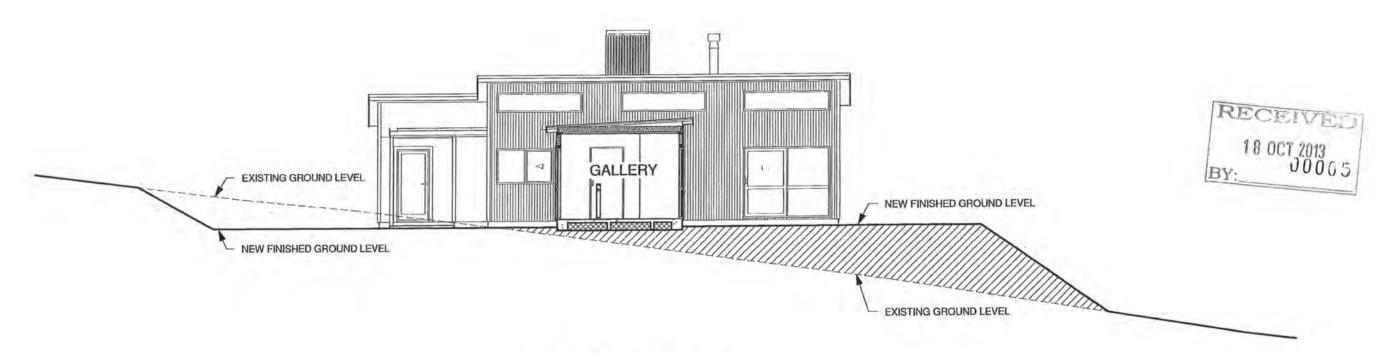
BUILDING CONSENT

DO	NOT SCALE	DRAW	NG .
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EARTHWORKS PLAN

1:250





SECTION C - EARTHWORKS

1:100



Phone: 04 904 59 59

	26/9/13	Location	
Rev	Date	D	escription
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	298 5662 architecture.co		LT Paraparaumu Beach
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В		A. T. I. C. T. C. C. I.	NSENT
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Jol	Da	ate R	Sheet (A3) S30

AMENDMENT TO BC 130379

Graham Wilson

From: Sent: Yaqi Wang [WangY@isp.co.nz] Thursday, 1 August 2013 4:47 p.m. Graham.wilson@davidreidhomes.co.nz

To: Subject:

142 Huia St

Hi Graham,

Craig has checked the bearing capacity of the fill. It is acceptable. Thanks.

18 OCT 2013 30 OC 3

Regards,

Yaqi(Chi Chi) Wang Structural Engineer

ISP Consulting Engineers Ltd. 14 Laings Road, Lower Hutt Tel (04) 566 8004 Fax (04) 566 8037 www.isp.co.nz







ELECTRICAL CERTIFICATE OF COMPLIANCE & ELECTRICAL SAFETY CERTIFICATE

AS/NZS 3000 are safe t	Aug. 7 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -			
Location Address	142 Hvia str, Waikanae			
2.00	Jules Esther & Dana Reters	50n,		
Customer Details: (Name and address)	101 110	hone:		
(Name and address)	Address AS above			
Name of Electrical		W. 6		
worker:	Registration/I		22014	152
Organisation/compa	ny: BRIEN ELECTRICAL LTD, 16 IHAKARA ST, PARAPARAUMU			1
Phone & email:	04 298 7053 info@brienelectrical.co.nz			
Type of work:	Additions Alterations	New New	work	
he prescribed electr	rical work is: Low risk General		risk (Specify):	
		gii	TISK (Specify):	
leference Standards	Part 1 of AS/NZS 3000	Part 2 of AS/N	zs 3000	
	Additional Standards:			
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Bruso



Combined Certificate of Compliance and Electrical Safety Certificate



	14ZA Hiva	54	The state of the s	04412 Reference / Job / ID
Description of work: (or see	attached Cac for	ndering and	<u>u</u>	ICP Number (if kno
ROT For and	man su Swight Gorton	ESUSOIZ I	mains me	'n
Certified Design Attached Supplier Declarations of Cor		er of Certified Design:	web address below)	12000
All parts of the installation a If not, please detail which pa	are safe to connect to a power supply arts are safe to connect.] .		
This work is: Low Risk (Certificate of Compliance not a General High Risk (Record of Inspection required)	Part 1 of AS/NZ	SS 3000	system this work is suitable for: 230/400V MEN system Other (Please specify)	
Other Standards this work cor				
				14
Record of Inspection () The aspects of the work whice Work on Mains Work on Main Earthing Electromedical Hazardous Area Date on, or period in, which	ch make it high risk are: Mains Par Mines ; Photovolt	Name of Inspector: 2		of AS/NZS 3000 *
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Certificate of Compliance for Prescribed Electrical Work



00018

	Signature:
	This certificate is issued by: Dwight Garlon Registration No: 245012
the information	I confirm that I am satisfied that the work detailed in this Certificate of Compliance has been done lawfully and safely, and that the information contained in this certificate is correct and accurate.
	Date on, or period in, which the work was done: $10/12/13$
	Other Standards this work complies with:
	High Risk Part 1 of AS/NZS 3000 Other (Please specify)
itable for: em	This work is: This work has been done in accordance with: Supply system this work is suitable for: Low Risk (Certificate of Compliance not required) Part 2 of AS/NZS 3000 230/400V MEN system
1	Signature: \\
2014	A SEP
ed	All parts of the installation are safe to connect to a power supply If not, please detail which parts are safe to connect.
	Manufacturers Instructions used or relied on in this work: [] (please attach or list web address below)
	Supplier Declarations of Conformity Attached: [[] (please attach or list web address below)
	Certified Design Attached Name of Issuer of Certified Design:
	This work has been carried out in accordance with a Certified Design
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
the state of the s	The second secon
	power subcircuit in garage.
	board in new installation. Lives one
TOT TAMBOOL (11 PAI	Description of work: (or see attached) In stall mains, meter board Submains
IOB Nimber (iffle	WAINANAE
6194	HUIA S
Reference / Job /	Customer Name: DAVID RED HOMES (KAPITI) LTD
GRIDON	



Home Insulation
Installation Guarantee

This is to certify that

this home has been insulated with Pink® Batts® Insulation by a Tasman Insulation preferred Pink® Batts® installer.

The Pinkfit® Licensee guarantees that, at the time of installation, the Pink® Batts® have been properly installed in accordance with New Zealand Standard Energy Efficiency - Installing Insulation in Residential Buildings NZS 4246 A1:2006

Proper installation is essential for insulation to meet the durability requirements of NZBC B2.31(a) not less than 50 years

This guarantee is transferred to subsequent owners of the home.

Signed

17/Dec/20

Date

Russell Knight Annie Unuka (Wgtn)

Dinkfit® Licensee

Placemakers - Placemakers Paraparaumu

_imite

Registration Details:

Compliance Number: 132043

Builder Details:

David Reid Homes

Site Details:

David Reid Homes

Esther & Peterson

142 Huia Street, Waikanae 5036, New Build Date Printed:

17/Dec/2013

Install Date:

13/Dec/2013

Completion:

13/Dec/2013

Product Details

PinkFit® GHB L2 Ceiling R4.0, PinkFit® New Skillion Roof R3.6, PinkFit® GHB L2 Wall R2.6

Pinkfit® 0800 746 534

Pinkfit® is a network of independent installers licensed by Pinkfit® Limited. Pinkfit®, Pink® Batts® and the colour PINK are registered trade marks of Owens Corning used under licence.

PLEASE READ REVERSE FOR GUIDANCE ON CARE AND MAINTENANCE OF YOUR VANTAGE JOINERY.

PRODUCER STATEMENT/WARRANTY

OUR WINDOWS COMPLY WITH THE BUILDING CODE

We hereby certify that all products supplied by our company meet or exceed the requirements of the New Zealand Building Code Means of Compliance, NZS 4211:2008 Performance of Windows and NZS 4223, Glazing in Buildings Parts 1, 2 and 3.

This means that our windows have been designed and tested to perform under the most diverse New Zealand weather conditions, and:

- have been successfully tested for strength under a range of wind pressures appropriate for the various wind zones in New Zealand.
- · meet the requirements for deflection under simulated loads.
- · meet stringent requirements for waterproofing and air leakage.
- have glass of the correct thickness and toughness to cope with expected wind loads and accidental human impact.

In accordance with our TERMS AND CONDITIONS OF SALE a guarantee for all VANTAGE products is provided under normal conditions of use against failure of materials and workmanship for 5 years from date of practical completion.

DURABILITY. VANTAGE ALUMINIUM JOINERY products can be expected to have a trouble-free serviceable life of not less than 15 years as required by section B2 of the New Zealand Building Code. This pertains specifically to the structural elements of the joinery.

In the course of normal use decorative elements and non-structural fittings such as window fasteners, door rollers, weatherpile and the like may need to be replaced as they wear out. This process does not contravene the B2 Durability requirements of the New Zealand Building Code or the warranty given by the manufacturer.

The decorative coating on the joinery is covered by a separate warranty.

A window and door hardware warranty covers manufacturing defects, functionality and surface finish for 5 years, assuming that the care and maintenance guidelines are followed. Plated (soft) finishes are excluded from this warranty as deterioration is possible under some environmental conditions.

Please Note: This warranty is subject to correct installation as outlined in the Building Code Acceptable Solution Clause E2/AST External Moisture.

PURCHASER DOWN REND Home's
ADDRESS POBOX 148 Paraparaunus 5254
SITE ADDRESS ESTLES + Petersen - 142 Huia St. Woukarre
MANUFACTURER Portchard Toinery Ltd WARRANTY NO. 5167
ADDRESS POBOX 67, 19 Watson St, Bulls
DATE INSTALLATION COMPLETED OUT 2013 SIGNATURE
This Producer Statement covers product supplied as per our quotation and is based on window schedules, floor plans and elevations as supplied.
QUOTE NODATEREVISION DATE
Supplied Only Supplied & Installed Unglazed Glazed



To validate this Performance Warranty

Please complete this portion (your name as the actual owner may not yet be on our records) and return to:

Owner	
ite address	
1anufacturer	
Date installation completed	
Warranty No.	



Double Glaze Unit 10 year Warranty

Ultra Glass Company Ltd warrant that all Insulated Glass Units manufactured by Ultra Glass Company Ltd will comply with the requirements of the consumer Guarantees act 1993 in particular that

- The units are fit for purpose for which goods of the type in question are commonly supplied and
- Are acceptable in appearance and finish (AS/NZS4666)
- 3. Are free from minor defects (AS/NZS4667)
- 4. Are safe and durable (NZS4223: Part 3).

These guarantees are given in terms of the Consumer Guarantees Act 1993 and are qualified by the appropriate qualifications and restrictions in the Act. In addition to the statutory guarantees Ultra Glass Company Ltd. Guarantees that for a period of ten (10) years from the date of manufacture, units will not develop material obstruction of vision as a result of dust or film formation on the internal glass surface caused by any failure of the hermetic seal. In the event that the units develop an obstruction of vision due to internal failure of the hermetic seal, Ultra Glass Company Ltd will re supply as supply only replacements, the defective units, and the warranty period will extend to the resupplied units for a further period of ten (10) years from delivery.

Ultra Glass Company Ltd advises that in terms of the Consumers Guarantees Act 1993, all of its products carry a guarantee of acceptable quality and a guarantee that the goods correspond with Ultra Glass's description of them but in terms of the Act Ultra Glass will not be liable under the guarantee of acceptable quality because of:

- An act or default or omission of, or representation made by, any person other than Ultra Glass or the servants or agents of Ultra Glass
- A cause independent of human control, occurring after the goods have left the control of Ultra Glass Ultra Glass will seek to limit any statutory guarantee in terms of the Consumer Guarantees Act 1993 where any one or more of the following circumstances apply:
- 1. Failure of the hermetic seal caused in whole or in part

by the breakage or fracture of any portion of the glass

etructure

- The units are installed contrary to written instructions.
- The units are damaged by improper handling or installation.
- 4. The units are altered in any way
- 5. The units are subject to abnormal stresses from the

load application of heat, excessive vibration, building or foundation movement or the failure to provide adequate expansion or contraction previsions in the framing members.

The units are treated/glazed with materials which do not remain resilient for the warranty period.

7. The units are installed in circumstances, which do not

provide total water repellency for the warranty period.

 The units are installed in watercraft, land vehicles, trailers, swimming pools, or commercial refrigeration products.

Ultra Glass Company Ltd reserves the right to inspect in the field any units which are alleged to be defective and which are the subject of a claim under this warranty or under the Consumers Guarantees Act 1993.

Ultra Glass Company Ltd's membership of the IGUMA requires product testing as set in EN1279 by BRANZ Ltd as an independent body.

Customer: Pritchard Joinery

Address: Watson Street

Application: Supply

Number of units: 28

Invoice Number: 289043

Job Reference: Esther

Cust. Order No.: 10530

Warranty Number: 7848

Signed (L) Manos

Date: 15.10.2013

Phone: 06-356 7649 06-355 3193

quins.pn@xtra.co.nz Email:

Hawkes Bay

Phone: 06-870 0599 06-870 0190 Email: quins.hb@xtra.co.nz ROOFING LTD & BUILDINGS We're Strong on Construction. Selection to Cristomer Care

Fax: 06-367 0795 Email: quins.levin@xtra.c www.quinbuildings.co.nz

Manufacturing Plant

20-30 Coventry Street,

PO Box 1087, LEVIN

Phone: 06-366 0183

Dear Allroof Solutions

WARRANTY 142 Huia Street, Waikanae on Invoice 73267 - CLADDING

Date of Supply: 30.10.2013

Warranty Terms;

Colorcote ZR8 pre-painted metal products used for Residential Buildings will perform as follows.

 Resistance to flaking, peeling and excessive fade. ZR8 10 years.

2. Will not perforate as a result of corrosion ZR8 15 years.

Colourcote products will inevitably weather, chalk and fade over time as a result of normal wear and tear.

If the product fails to perform as warranted we will, at our sole option, repair or replace the affected material.

Please note this warranty is subject to the following terms and conditions:

- This warranty will not apply to weathering, chalking or fading over time as a result of normal wear and tear.
- If inappropriate fastenings are used this warranty will not apply.
- Defects caused by faulty design, or method of manufacture of Residential Buildings are not covered by the warranty.
- We must be given the opportunity for inspection on site prior to any remedial action being offered or taken.
- Damage or corrosion resulting from the following are not covered by this warranty:
 - Damage sustained during storage, handling, or installation.
 - 2) Damage sustained after installation.
 - 3) Causes after the product has left our control.
 - 4) Failure to remove debris leading to the accumulation of moisture retaining matter in gutters and downpipes.

Our liability under this warranty shall in all cases be limited to replacing or repairing the defective product as specified above excluding labour. Any repaired or replaced product will be covered by this warranty up to the unexpired portion of the warranty of the original product. Quin Roofing Ltd will not be liable for consequential loss or damage. All claims must be made promptly in writing and accompanied by the original warranty document. This warranty does not in any way affect the rights of a consumer under the Consumer Guarantees Act.

MINIMUM MAINTENANCE REQUIREMENTS - www.colorcote.co.nz

- Washing of Naturally Unwashed Areas every 6 months -e.g Wall Cladding.
- Removal of Debris from gutters every 6 months.
- 3. Any noticeable buildup of salt deposits and/or other contaminants are removed when identified
- 4. When considering overpainting, please consult with your local distributor to ensure correct procedures are undertaken
- Inspection of the roof, including fasteners, repair any damage every 6 months

Regular Washing of Colorcote®ZR8™ products increases the durability by reducing attack from airborne salts and pollutants. Colorcote®ZR8™ products should be washed manually with water and a sponge or a soft nylon-bristled brush. For large areas it may be appropriate to use water blasting at pressures up to 20mpa.

This roof was installed by: Gary Westerman

Signature of Installer:

Dave Lucas pp allROOF Solutions Ltd

And carries a workmanship warranty for : 5 years

Signature of property owner or agent:

Date:

PLEASE RETURN A SIGNED COPY OF THE WARRANTY TO THE ROOFING MANUFACTURER This warranty is issued by (the roofing manufacturer):

Yours faithfully

Bruce I nve

Roofing Manager Quin Roofing Ltd

For all roofing enquiries and sales contact our Levin factory on 0800 QUINS LEVIN - 0800 784 675

Manufacturers and suppliers in Zincalume and Coloursteel of:

Corrugate Trimline 6 Rib

Mini Corrugate Weatherboard

Custom Flashings to 6.5m

Clearlite Ridge Barge Nails

Screws **Building Papers** Nettina Sealfoam

Sectional Doors Roller Doors Tilta Doors **Automatic Openers**

For all garage enquiries and sales contact our agent in your area on 0800 GARAGE - 0800 427 243

Palmerston North Phone: 06-356 7649 06-355 3193 Email: quins.pn@xtra.co.nz

Hawkes Bay

Phone: 06-870 0599 Fax: 06-870 0190 Email: quins.hb@xtra.co.nz ROOFIN

We're Strong on Construction, Selectron & Cristomer Car

Levin Head Office and Manufacturing Plant 20-30 Coventry Street, PO Box 1087, LEVIN Phone: 06-367 9480 06-367 0795

Email: quins.levin@xtra.co.n www.quinbuildings.co.nz

Dear Allroof Solutions

WARRANTY 142 Huia Street, Waikanae on Invoice 72921

Date of Supply: 09.10.2013

Warranty Terms;

Colorcote ZR8 pre-painted metal products used for Residential Buildings will perform as follows.

1. Resistance to flaking, peeling and excessive fade. ZR8 10 years.

2. Will not perforate as a result of corrosion ZR8 15 years.

Colourcote products will inevitably weather, chalk and fade over time as a result of normal wear and tear.

if the product fails to perform as warranted we will, at our sole option, repair or replace the affected material.

Please note this warranty is subject to the following terms and conditions:

This warranty will not apply to weathering, chalking or fading over time as a result of normal wear and tear.

If inappropriate fastenings are used this warranty will not apply.

Defects caused by faulty design, or method of manufacture of Residential Buildings are not covered by the warranty.

We must be given the opportunity for inspection on site prior to any remedial action being offered or taken.

Damage or corrosion resulting from the following are not covered by this warranty

Damage sustained during storage, handling, or installation.

Damage sustained after installation. 2)

3) Causes after the product has left our control.

Failure to remove debris leading to the accumulation of moisture retaining matter in gutters and 4) downpipes.

Our liability under this warranty shall in all cases be limited to replacing or repairing the defective product as specified above excluding labour. Any repaired or replaced product will be covered by this warranty up to the unexpired portion of the warranty of the original product. Quin Roofing Ltd will not be liable for consequential loss or damage. All claims must be made promptly in writing and accompanied by the original warranty document. This warranty does not in any way affect the rights of a consumer under the Consumer Guarantees Act.

MINIMUM MAINTENANCE REQUIREMENTS - VAVA colorcole co nz

Washing of Naturally Unwashed Areas every 6 months -e.g - Wall Cladding.

Removal of Debris from gutters every 6 months.

Any noticeable buildup of salt deposits and/or other contaminants are removed when identified. 3.

When considering overpainting, please consult with your local distributor to ensure correct procedures are 4.

5 Inspection of the roof, including fasteners, repair any damage every 6 months

Regular Washing of Colorcote®ZR8™ products increases the durability by reducing attack from airborne salts and pollutants. Colorcote®ZR8™ products should be washed manually with water and a sponge or a soft nylon-bristled brush. For large areas it may be appropriate to use water blasting at pressures up to 20mpa.

This roof was installed by: Co Weselman

Signature of Installe

And carries a workmanship warranty for : 5 years

Signature of property owner or agent:

Date:

PLEASE RETURN A SIGNED COPY OF THE WARRANTY TO THE ROOFING MANUFACTURER This warranty is issued by (the roofing manufacturer)

Yours faithfully

Bruce Love

Roofing Manager Quin Roofing Ltd

For all roofing enquiries and sales contact our Levin factory on 0800 QUINS LEVIN - 0800 784 675

Manufacturers and suppliers in Zincalume and Coloursteel of:

Corrugate Trimline 6 Rib

Mini Corrugate Weatherboard

Custom Flashings to 6.5m

Clearlite Ridge Barge

Nails

Screws **Building Papers** Netting

Sectional Doors Roller Doors Tilta Doors Automatic Openers

Sealfoam For all garage enquiries and sales contact our agent in your area on 0800 GARAGE - 0800 427 243

Producer Statement PS3 Installation of Solar Water Heating System

Council: Marti Coast District Council
Building Consent No: BC 130379
Producer Statement Issued by: Peter Jackson Phumbino
Address of Installer:
Telephone Number for Installer: 9046429
Product and Model No. Installed: Green of 0 3000 530523 Supplier of Product: Solar Group Ho
Supplier of Product: Solar Group Ho
Registered Plumber: Registration No: 11499
Registered Electrician: Registration No:
Address of Property on which installed: 142 Hun St Warkonal
Location of installation:
Owner of Property on which installed: FSHUT / PEUNSON
Property Description: LOT DP
The system has been installed such that the requirements of the New Zealand Building Code have been met. Plumbing work has been installed to meet the requirements of standard AS/NZS3500.4. Registered Plumber Signature: Date: 2/6/14
The solar water heating system described above has been installed on a dwelling on the named property according to the Code of Practice for Manufacture and Installation of Solar Water Heating Systems in New Zealand and the requirements of the Building Consent.
The system has been located as shown on the drawings provided with the Building Consent Application. A check has been made by a suitably qualified person to ensure that the system is located over suitably sound load bearing walls and strengthening of roof framing has been undertaken according to the guidelines provided by the system supplier and meets the requirements of Approved Document B1 of the New Zealand Building Code.
The installation has been undertaken in terms of manuals and instructions for the Product Supplier who is a Solar Industries Association Accredited Supplier.
I certify that I have been appropriately trained in the installation of the named Product by the Product Supplier and operate under that Supplier's accreditation. As an independent solar water heating system installer I am covered by a current Public Liability insurance Policy to a current value of \$
'nstaller Signature: JAN JCUNO Date: 12/6/14

Producer Statement

Piped Services & Sanitary Plumbing Stacks

Ster Joulson Muler Stration Number. 114.9.9.
Issued by
To Kapiti Coast District Council
In respect to the following
Piped Services installed in accordance with G12/AS1 as shown on the approved plans or as per the attached amended plan and Sanitary Plumbing Stacks installed in accordance with G13/AS1 or AS/NZS 3500.2.2 Installed at Hold Hold Hold Hold Hold Hold Hold Hold
KCDC Office use only
Producer Statement author authenticated and current registration verified
Verification & Registration checked: https://www2.pgdb.co.nz/PGDB/PublicRegister
Date
Name
Signature - 9 SEP 2014
KCDC Form 125 ver. 2 Page 1 of

Producer Statement

Private Sewer Drains

Construction Review

exposed.

Drains may be laid and backfilled without inspection provided that the drain is left under test with a min of 1.0 m head and the inspection at the lateral left

ildity authenticated

Producer Statement

Stormwater Drains

Stormwater Drains installed in accordance with E1 AS1 as shown on the approved plans or as per the attached amended plan
Installed at 142 4400 St Maukanal

Building Consent No. 15C 130379

As a registered drainlayer, currently holding an annual practicing license, certify that I, or personnel under my control, have carried out the installation of the above system and I believe on reasonable grounds that the installation complies with the New Zealand Building Code.

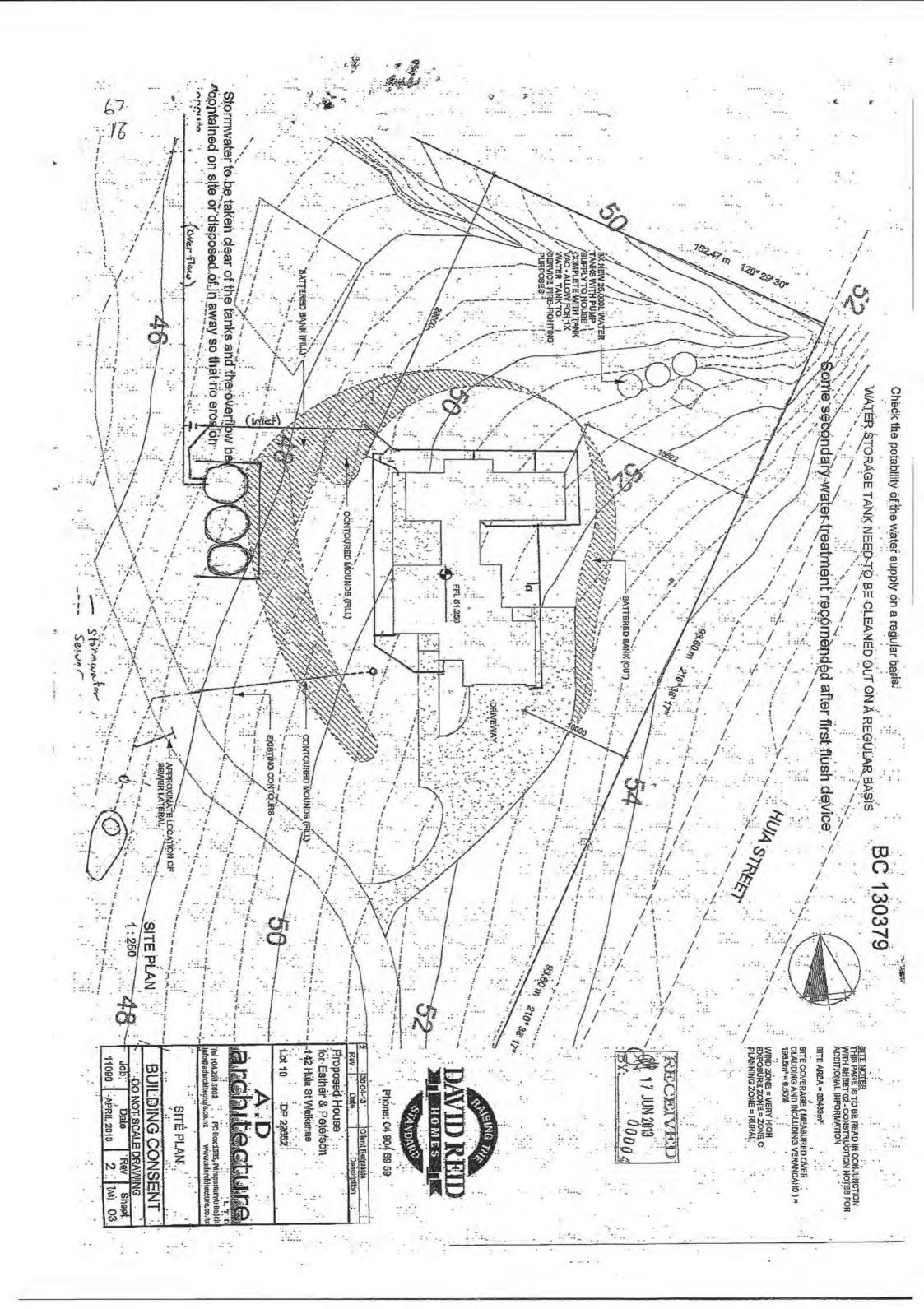
Signed J.W. J. C. C.

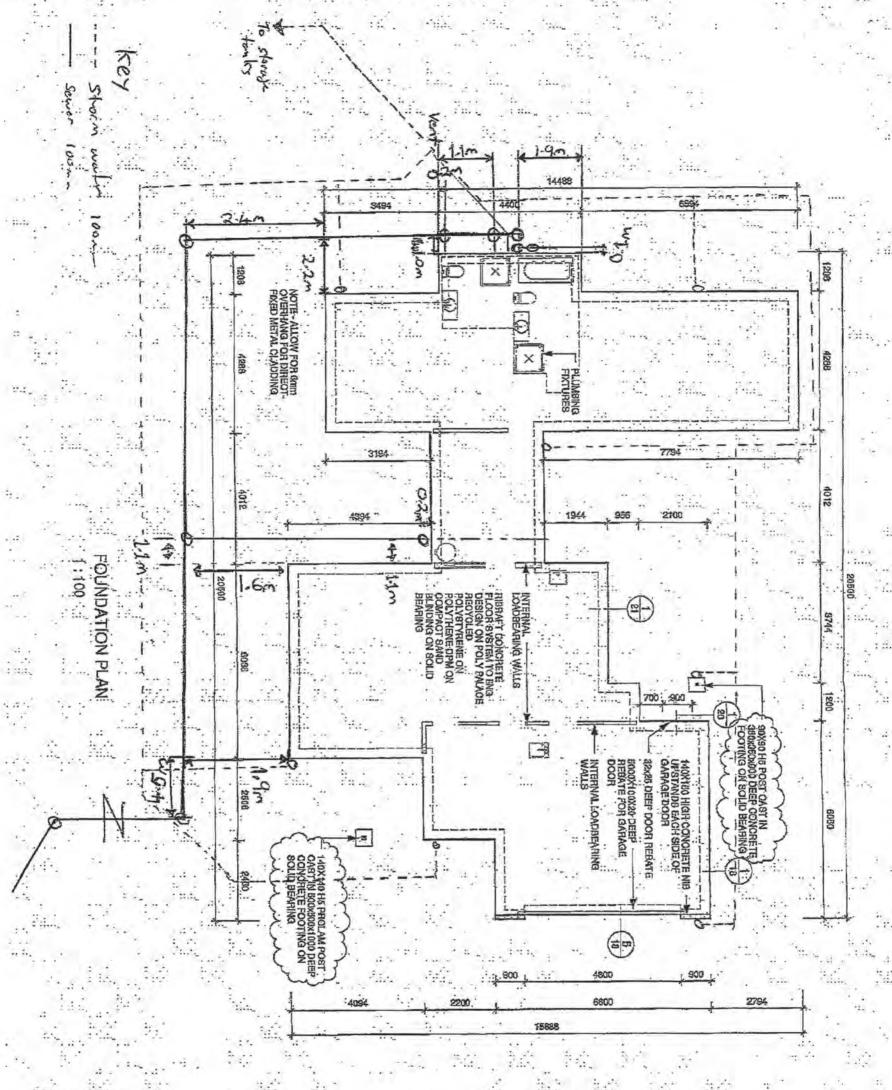
In respect to the following

Note: Fully dimensioned as built drain plan to be supplied. (scale 1:100)

Validity authenticated

Signature:





THIS PAGE IS TO BE READ IN

ONNIUNOTION WITH SHIEF OR ADDITIONAL
CONGETRUCTION NOTES FOR ADDITIONAL
CONGETRUCTION NOTES FOR ADDITIONAL
INFORMATION

• ALL CONORETE TO BE SOMP & UNLESS
BERCOPIED OTHERWISE BY RNORNEER • ALL
CONORETE TO GONTAIN REOVULED GLASS
AGGREGATE TO MAX % ALLOWABLE
• ALL REINFORCING MIEST TO BE GRADE

• ALL REINFORCING MIEST TO BE GRADE

• FOUNDATION DETAILS TO ENGINEERS
DESIIGN
• FOUNDATION DETAILS TO ENGINEERS
DESIIGN
• THIS SITE IS IN EXPOSURE ZONE G:
• ALL STRUCTURAL FIXINGS IN SHELTERED
LOCATIONS TO BE HOT DIP GALVANISED,
AND IN EXPOSED SITUATIONS TO BE TYPE

904 S.S.
• ALL FIXINGS IN CONTACT WITH TIMBER
TREATED WITH A COPPER BASED

PRESERVATIVE ARBITO BE TYPE 504 S.S. IN
EXPOSED OR SHELTERD LOCATIONS, AND
HOT DIPPED GALVANISED IN CLOSED

SITUATIONS

Phone: 04 904 59 59

4 | 2817/13 | IKODO RFI's
Proposed House
for Esther & Peterson
142 Hula St Walkanae
Lot 10 DP:22652
Lot 10 DP:22652
PO 10x 1518; Preparation Earth Info@edarchitecture.co.nx | www.sdsrchitecture.co.nx |
FOUNDATION PLAN

BUILDING CONSENT
BONOT SOALE DRAWING
1000 APRIL 2018 4 (A) 08





J25056

Building Code Clause(s)......



PRODUCER STATEMENT — PS4 — CONSTRUCTION REVIEW (Guidance notes on the use of this form are printed on page 2)

SSUED BY:	ISP Consulting Engineers Ltd
то:	Esther & Peterson
77	(Owner/Developer)
TO BE SUPPLIED TO:	Kapiti Coast District Council
	(Building Consent Authority)
IN RESPECT OF:	New Residence
	(Description of Building Work)
AT:	142 Huia Street, Waikanae
Lot: 10 DP: 22652	
	(Address)
ISP Consulting Engineers L	td has been engaged by Esther & Peterson
to provide ☐CM1 ☑CM2	2 CM3 CM4 CM5 observation services
in respect of clause(s) B1, \ Building Consent No # 1303	VM1 of the Building Code for the building work described in documents relating to 379. We have sighted these Building Consents and the conditions of attached to them.
Authorised instructions / Sit the works.	e Inspection Report Numbered 1 (copy attached) has been issued during the course of
On the basis of ⊠ this ☐ t	hese review(s) and information supplied by the contractor during the course of the works,
I believe on reasonable g	rounds that All Part only as specified of building work outside the scope of NZS3604:2011-
	• Foundation
Of the building works have and Building Consent Ame	been completed in accordance with the relevant requirements of the Building Consents ndments identified above, with respect to Clause(s) B1, VM1 of the Building Regulations.
I, John O'Hagan am CPEn	
	and hold the following qualifications: NZCE(Civil), BE (Hons), MIPENZ, CPEng
The Construction Review Fless than \$200,000*.	Firm issuing this statement holds a current policy of Professional Indemnity Insurance no - 9 SEP 20/4
	Firm is a member of ACENZ
SIGNED BY John O'Hagar	n ON BEHALF OF ISP Consulting Engineers Ltd.
Date: 9 th Septembe	or 2013 Signature:

Date: Note: This statement shall only be relied upon by the Building Consent Authority named above. Liability under this statement accrues to the Construction Review Firm only. The total maximum amount of damages payable arising from this statement and all other statements provided to the Building Consent Authority in relation to this building work, whether in contract, tort or otherwise (including negligence), is limited to the sum of \$200,000*.

This form to accompany Forms 6 or 8 of the Building (Form) Regulations 2004 for the issue of a Code Compliance Certificate.

GUIDANCE ON USE OF PRODUCER STATEMENTS

Producer statements were first introduced with the Building Act 1992. The producer statements were developed by a combined task committee consisting of members of the New Zealand Institute of Architects, Institution of Professional Engineers New Zealand, Association of Consulting Engineers New Zealand in consultation with the Building Officials Institute of New Zealand. The original suite of producer statements has been revised as at the date of this form as a result of enactment of the Building Act (2004) by these organisations to ensure standard use within the industry.

The producer statement system is intended to provide Building Consent Authorities (BCAs) with reasonable grounds for the issue of a Building Consent or a Code Compliance Certificate, without having to duplicate design or construction checking undertaken by others.

PS1 Design

Intended for the use by a suitably qualified independent design professional in circumstances where the BCA accepts a producer statement for establishing reasonable grounds to issue a Building Consent:

PS2 Design Review

Intended for use by a suitably qualified independent design professional where the BCA accepts an independent design professional's review as the basis for establishing reasonable grounds to issue a Building Consent:

PS3 Construction

Forms commonly used as a certificate of completion of building work are Schedule 6 of NZS 3910:20031; or Schedules E1/E2 of NZIA's SCC 2007 2

PS 4 Construction Review

> Intended for use by a suitably qualified independent design professional who undertakes construction monitoring of the building works where the BCA requests a producer statement prior to issuing a Code Compliance Certificate.

This must be accompanied by a statement of completion of building work (Schedule 6).

The following guidelines are provided by ACENZ, IPENZ and NZIA to interpret the Producer Statement.

Competence of Design Professional

This statement is made by a Design Firm that has undertaken a contract of services for the services named, and is signed by a person authorised by that firm to verify the processes within the firm and competence of its designers.

A competent design professional will have a professional qualification and proven current competence through registration on a national competence-based register, either as a Chartered Professional Engineer (CPEng) or a Registered Architect.

Membership of a professional body, such as the Institution of Professional Engineers New Zealand (IPENZ)or the New Zealand Institute of Architects (NZIA) provides additional assurance of the designer's standing within the profession. If the design firm is a member of the Association of Consulting Engineers New Zealand (ACENZ), this provides additional assurance about the standing of the firm.

Persons or firms meeting these criteria satisfy the term "suitably qualified independent design professional".

Professional Indemnity Insurance

As part of membership requirements, ACENZ requires all member 2 NZIA Standard Conditions of Contract SCC 2007 (1st firms to hold Professional Indemnity Insurance to a minimum level.

The PI insurance minimum stated on the front of this form reflects standard, small projects. If the parties deem this inappropriate for large projects the minimum may be up to \$500,000.

Professional Services during Construction Phase

There are several levels of service which a Design Firm may provide during the construction phase of a project (CM1-5)3 (OL1-OL4)2. The Building Consent Authority is encouraged to require that the service to be provided by the Design Firm is appropriate for the project concerned.

Requirement to provide Producer Statement PS4

Building Consent Authorities should ensure that the applicant is aware of any requirement for producer statements for the construction phase of building work at the time the building consent is issued as no design professional should be expected to provide a producer statement unless such a requirement forms part of the Design Firm's engagement.

Attached Particulars

Attached particulars referred to in this producer statement refer to supplementary information appended to the producer statement.

Refer Also:

- 1 Conditions of Contract for Building & Civil Engineering Construction NZS 3910: 2003
- edition)
- 3 Guideline on the Briefing & Engagement for Consulting Engineering Services (ACENZ/IPENZ 2004)

www.acenz.org.nz www.ipenz.org.nz www.nzia.co.nz



MiTek New Zealand Limited

Correspondence from : AUCKLAND

40 Neales Road, East Tamaki 2013 PO Box 58-014, Botany 2163

Phone: 09 274 7109 Fax: 09 274 7100 CHRISTCHURCH

14 Pilkington Way, Wigram 8042 PO Box 8387, Riccarton 8440

Phone: 03 348 8691 Fax: 03 348 0314

www.miteknz.co.nz

Printed: 11:55:28 17 Apr 2014

MiTek 20/20 Engineering 4.6.6.148

PRODUCER STATEMENT for MiTek 20/20° TRUSS DESIGN - Version 4.6

ISSUED BY:

MiTek New Zealand Limited

TO:

PLACEMAKERS - W.F.T.

IN RESPECT OF:

MiTek® Truss Designs

This producer statement covers the MiTek 20/20® truss design and the structural performance of the GANG-NAIL® connector plate for the job reference 13-117 and may be used by a Building Consent Authority to assist in determining compliance with the New Zealand Building Code.

The MiTek 20/20® truss design program has been developed by MiTek New Zealand Limited for the design of MiTek® timber roof, floor and attic trusses in New Zealand. The truss designs computed by MiTek 20/20® are prepared using sound and widely accepted engineering principles, and in accordance with compliance documents of the New Zealand Building Code and Verification Method B1/VM1; and internationally accepted standard ANSI/TPI 1 - 2002 as an alternative solution to satisfy the requirements of Clause B1 of the New Zealand Building Code.

On behalf of MiTek New Zealand Limited, and subject to:

- i) All proprietary products meeting their performance specification requirements
- ii) The provision of adequate roof bracing and overall building stability
- iii) Correct selection and placement of GANG-NAIL connector plates
- iv) Correct input of Truss Design Data as shown in the Fabricator Design Statement for this job
- v) The design being undertaken by the accredited fabricator under the terms of the software licence

I believe on reasonable grounds that the trusses, if constructed in accordance with the MiTek 20/20[®] truss design and shop drawings, will comply with the relevant provisions of the New Zealand Building Code.

MiTek New Zealand Limited holds a current policy of Professional Indemnity Insurance no less than \$500,000.

On behalf of MiTek New Zealand Limited.

Date: Thursday, 17 April 2014

hippy

In Ling Ng, BE (Hons), CPEng, IntPE, MIPENZ (ID: 146585)
TECHNICAL SERVICES MANAGER, MiTek New Zealand Limited

Building Consent No.:

Wellington Frame & Truss

D.R.H (Esther/Peterson) 142 Huía St Waikanse

Phone

Printed 11 55 28 17 Apr 2014

MITEK FABRICATOR DESIGN STATEMENT

Millah Bay Zanland Lie

This statement is issued by MiTek accredited fabricator PLACEMAKERS - W.F.T., being licensed to use the MiTek 20/20° software, to the client listed above and may be used by the Building Consent Authority to assist in determining compliance with the New Zealand Building Code.

MITek 20/20° TRUSS DESIGN DATA

The MITek 20/20° computer design for this job is based on the following design parameters entered into the program. The Fabricator shall ensure that these job details are current and relevant to the project for the design of the MiTek * trusses

Job Details

Roof Truss Timber Group: Roof

MSGx45 H1.2

Light 0,250 kPa Material: Dead Load: 900 mm centres Restraints: Qur = 0.250 kPa Live Load: Oc = 1.100 kN

Importance Level :

Pitch: Ceiling Material:

Live Load:

6.000 deg Standard Dead Load Restraints:

0.200 kPa 600 mm centres Qc = 1.400 kN

Design Working Life: 50 years

Nominal Overhang: Wind

Very High (50.0 m/s)

Area: Cpe = varies; Cpi = -0,30, 0.20 Pressure Coeff:

The limber for these MiTek* trusses shall be treated to the requirements of NZS 3602:2003 and shall be graded to the requirements of NZS 3603:1993. Unless otherwise noted, this design assumes that the steel fixings and timber connectors proposed are located in a "closed environment", as defined by NZS3604:2011 Section 4.

MITEK® Truss List
Legend: *= detail only, 7 = input only, Tex = failed design, Ø = non certified, Unmarked trusses = designed successfully, LB = lateral bracing required
GB = gable brace required, CF = Chemical Free Treatment

Roof Truss

Treatment: Top Chords - H1.2 Bottom Chords - H1.2 Webs - H1.2 Qty Pitch Spacing Span Pitch Spacing Truss Qty Span Truss (mm) (mm) (deg) (mm) (deg) (mm) 4210 6.000 825 12 4210 6.000 825 EN2 2 1200 6.000 900 T2 9 5410 6,000 436 5980 6.000 876 EN₃ 5980 6.000 876 T3 3 EN4 2450 6.000 T3A 5960 6.000 876 900 4 6.000 255 2 3510 6.000 876 'R1 5200 **T4** R2 900 6.000 255 *R3 2 6800 6.000 255 *R4 6 000 255 2150

Roof Truss quantity: 48

Total quantity: 48

The computer design input has been carried out by:

Name of Detailer, ... Carry

On behalf of:

PLACEMAKERS - W.F.T.

Date: ... Thursday, 17 April 2014....

Qualifications and Title:



INTex New Zealand Limited

13-117

Description Building Consent No.: Client

Wellington Frame & Truss

142 Hula St

D.R.H (Esther/Peterson) Walkanae

ed 11,55.34 17 Apr 2014

MANUFACTURER STATEMENT

This statement is issued by PLACEMAKERS - W.F.T. to the client listed above, and may be used by the Building Consent Authority to assist in determining compliance with

the New Zealand Building Code.

The MiTek® trusses for the job reference 13-117 have been fabricated in accordance with the MiTek 20/20® truss design, truss layout and shop drawing output and the specifications for timber defined therein, and are covered by the Producer Statement issued by MiTek New Zealand Limited and the MiTek Fabricator Design Statement.

Summary of fabricated MiTek* trusses in accordance with MiTek 20/20* output

These MiTek* trusses must be erected in accordance with the Truss Layout. Proper erection bracing must be installed to hold the trusses true and plumb and in a safe condition until permanent bracing is fixed. All permanent bracing and fixing must be installed before any loads are applied.

Job Details

Importance Level:

Design Working Life: 50 years

Roof

Light 0.250 kPa Malerial: Dead Load: Restraints: 900 mm centres Live Load: Qur = 0.250 kPa

Qc = 1.100 kN

Celling

Material: Standard Dead Load: 0.200 kPa Restraints: 600 mm centres Live Load: Qc = 1.400 kN

Wind

Area:

Pressure Coeff:

Very High (50.0 m/s) Cpe = varies; Cpi = -0.30, 0.20

MiTek[®] Truss List

* = detail only, 7 = input only, Txx = failed design, Ø = non certified, Unmarked trusses = designed successfully, LB = lateral bracing required GB = gable brace required, CF = Chemical Free Treatment

Roof Truss

Truss	Qty	Span (mm)	Pitch (deg)	Spacing (mm)	Truss	Qty	Span (mm)	Pitch (deg)	Spacing (mm)
EN1	2	4210	6.000	825	Ti	12	4210	6.000	825
EN2	2	1200	6,000	900	T2	9	5410	6.000	436
EN3	1	5960	6.000	876	T3	3	5960	6.000	876
EN4	1	2450	6.000	900	T3A	4	5960	6.000	876
*R1	4	5200	6.000	255	T4	2	3510	6.000	876
*R2	4	900	8.000	255				5.500	0,0
*R3	2	6800	6.000	255					
*R4	2	2150	6.000	255					

Roof Truss quantity: 48

Total quantity: 48

The MiTek® trusses are fabricated under the supervision of:

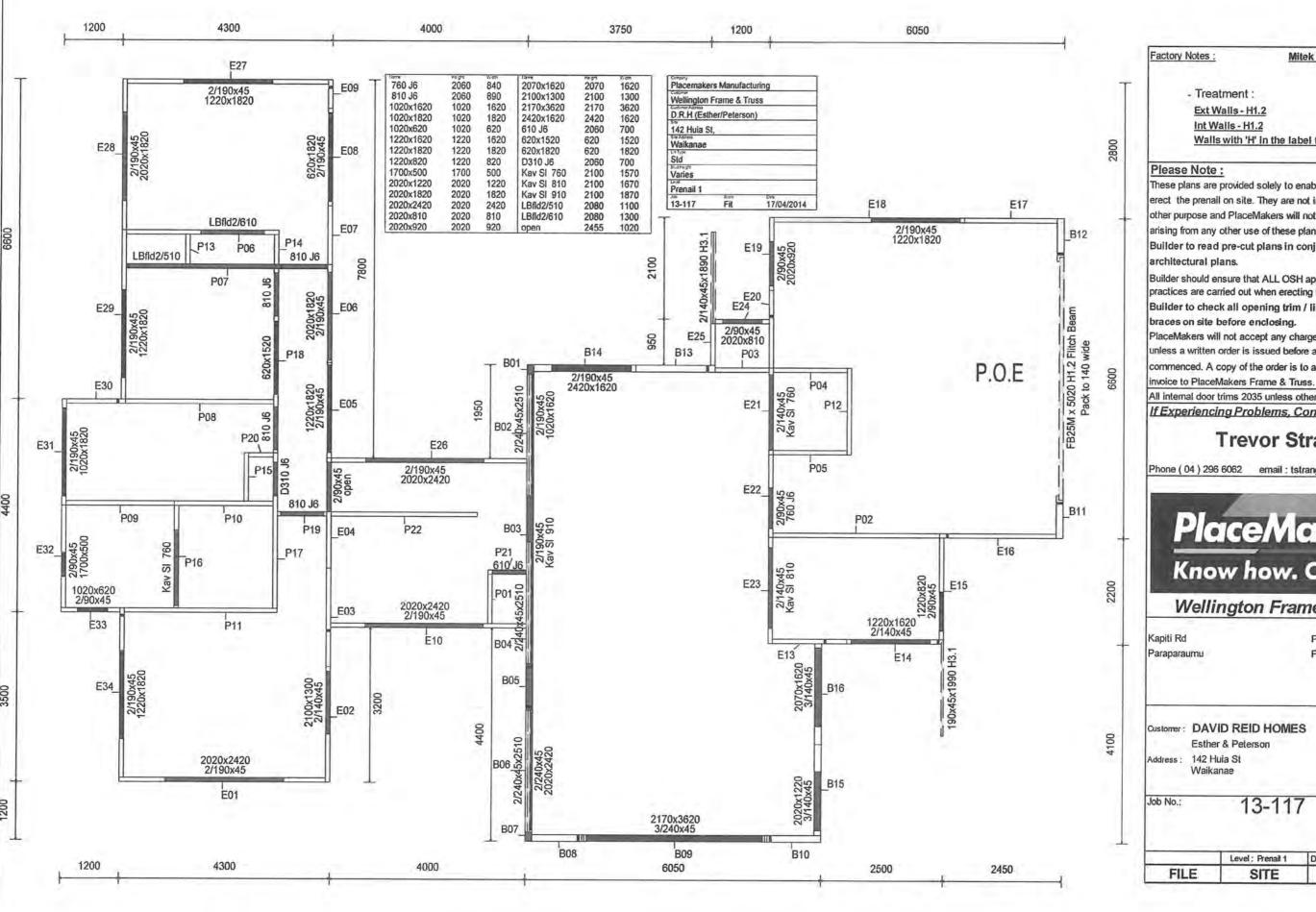
Signed:

Name of Supervisor:

17 April 2014

On behalf of : PLACEMAKERS - W.F.T.

PlaceMakers Know how. Can do. Manufacturing



Mitek Version:

4.6

- Treatment :

Ext Walls - H1.2

Walls with 'H' in the label to be H3.2

These plans are provided solely to enable the builder to erect the prenail on site. They are not intended for any other purpose and PlaceMakers will not accept any liability arising from any other use of these plans.

Builder to read pre-cut plans in conjunction with architectural plans.

Builder should ensure that ALL OSH approved safety practices are carried out when erecting framing.

Builder to check all opening trim / lintel sizes and braces on site before enclosing.

PlaceMakers will not accept any charges for remedial work unless a written order is issued before any work is commenced. A copy of the order is to accompany any

All internal door trims 2035 unless otherwise listed

If Experiencing Problems, Contact:

Trevor Strang

Phone (04) 296 6062 email: tstrang@placemakers.co.nz

PlaceMakers* Know how. Can do.

Wellington Frame & Truss

Ph 04 296 1086 Fax 04 298 2561

Customer: DAVID REID HOMES

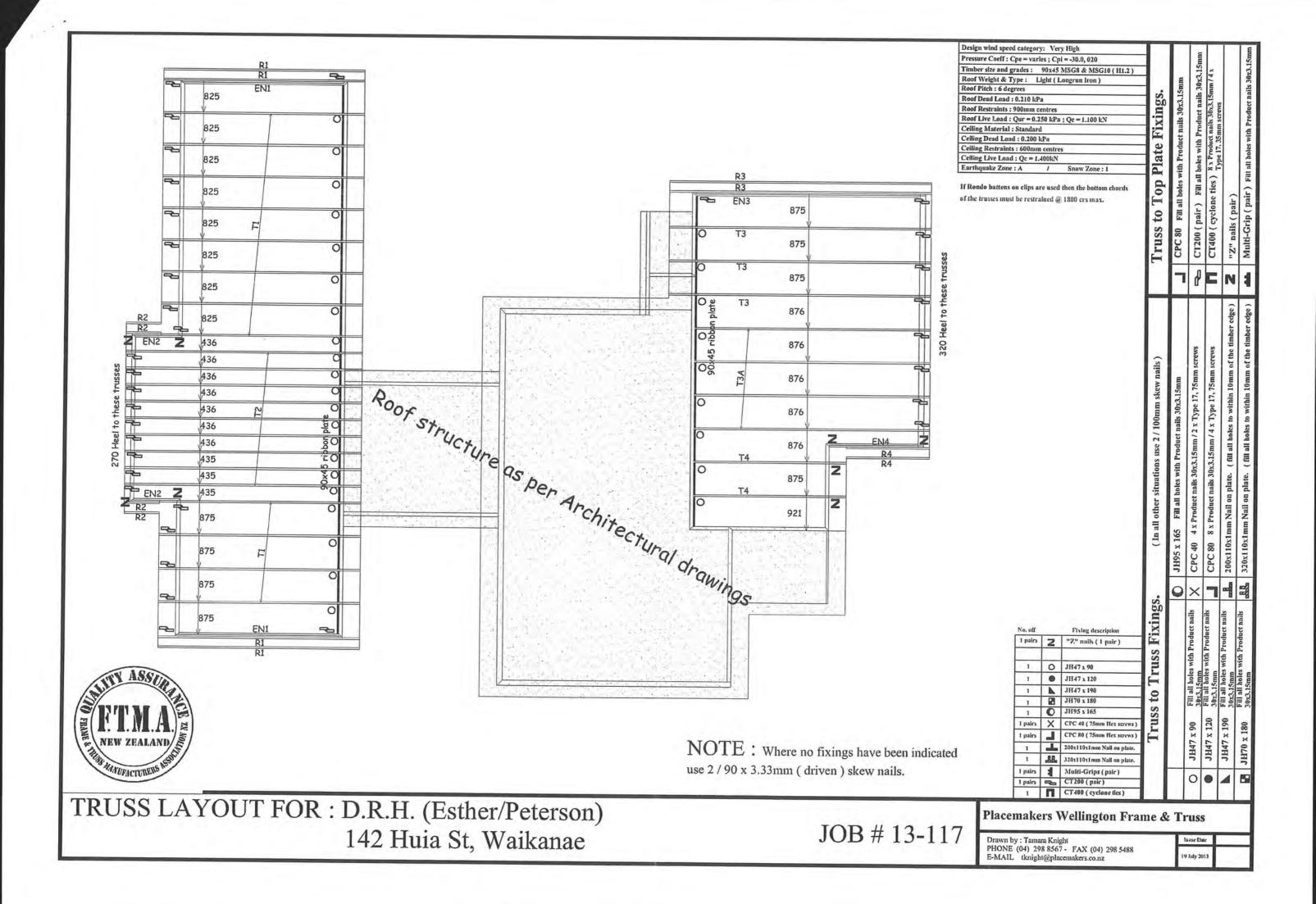
Esther & Peterson

Waikanae

13-117

18/07/2013

Level: Prenail 1 Drawn By: Tamara Knight SITE **FACTORY**



	Drawing List			
Number	Sheet Name	Revn		
01	BUILDING 3D			
02	CONSTRUCTION NOTES	1 = 0		
03	SITE PLAN	2		
04	FLOOR PLAN	2		
05	ELEVATIONS	2		
06	ELEVATIONS	2		
07	EARTHWORKS PLAN	2		
80	DRAINAGE PLAN	2		
09	FOUNDATION PLAN	2		
10	FRAMING PLAN	3		
11	BRACING PLAN			
12	LIGHTING PLAN			
13	ELECTRICAL PLAN	3		
14	ROOF PLAN			
15	BUILDING SECTION			
16	BUILDING SECTION	3		
17	BUILDING SECTION			
18	DETAILS			
19	DETAILS			
20	DETAILS			
21	DETAILS			
22	DETAILS			
23	DETAILS	3		
24	DETAILS			
25	EXTERIOR JOINERY SCHEDULE	1		
26	EXTERIOR JOINERY SCHEDULE	2		
27	INTERIOR OPENING SCHEDULE	2		
28	INTERIOR ELEVATIONS	2		
29	INTERIOR ELEVATIONS & DETAILS			



RBW

Proposed House FOR Esther & Peterson AT 142 Huia St Waikanae



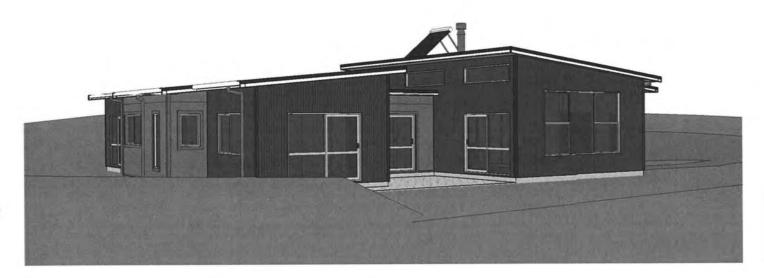


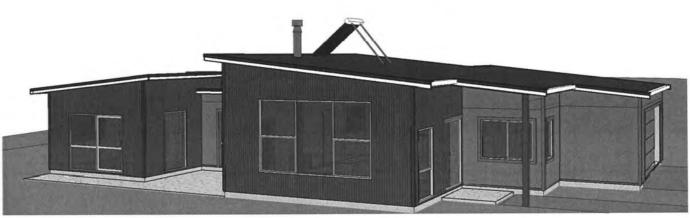


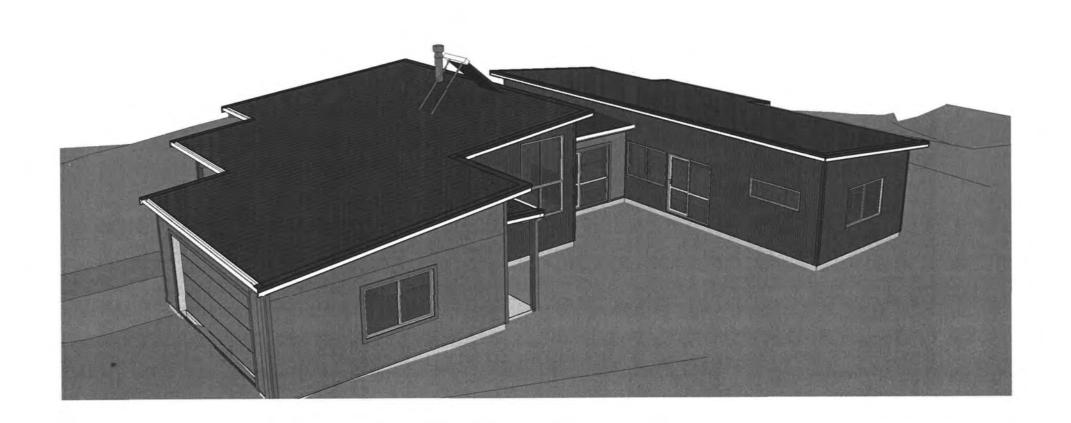


Ph: 04 298 5662 Fax: 04 298 5663 info@adarchitecture.co.nz www.adarchitecture.co.nz PO Box 1585, Paraparaumu Beach











Phone: 04 904 59 59

Proposed House	
for Esther & Peterso	on
142 Huia St Waikanae	
Lot 10 DP 22652	

Tel : 04 298 5662 PO Box 1585, Paraparaumu Beach info@adarchitecture.co.nz www.adarchitecture.co.nz

BUILDING 3D

BUILDING CONSENT

DO NOT SCALE DRAWING

Date 11090 **APRIL 2013**

Sheet (A3) **01** GENERAL CONSTRUCTION NOTES

 ALL WORK IS TO COMPLY WITH THE NEW ZEALAND BUILDING CODE, TERRITORIAL AUTHORITY REQUIREMENTS, NZ STANDARDS (IN PARTICULAR NZS 3604), MANUFACTURERS LITERATURE AND ENDORSED BUILDING CONSENT PLANS ALL REFERENCES TO CODES AND STANDARDS SHALL BE

TAKEN TO MEAN THE LATEST VERSION INCLUDING AMENDMENTS . DOCUMENTS MAY HAVE BEEN SCANNED AND DIGITALLY

REPRODUCED AND MAY NOT BE TO SCALE

• CONTRACTOR TO PROVIDE BARRIERS, SIGNAGE AND SCAFFOLDING TO COMPLY WITH NZBC F5 AND OSH REQUIREMENTS

INSTALL ALL MATERIALS IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS AND INSTRUCTIONS

SLIP RESISTANCE RATING OF TRAFFICABLE SURFACES TO

COMPLY WITH NZBC D1

 THIS PROJECT CONTAINS ELEMENTS DESIGNED BY A STRUCTURAL ENGINEER. THE CONTRACTOR IS REQUIRED TO ENSURE THE ENGINEER INSPECTS THE WORK THEY HAVE DESIGNED AND PROVIDE THE TERRITORIAL AUTHORITY WITH WRITTEN EVIDENCE OF THE INSPECTION

 CONTRACTOR MUST OBTAIN TERRITORIAL AUTHORITY ACCEPTANCE FOR ANY VARIATIONS TO PLANS AND CONSTRUCTION DETAILS

BUILDING ENVIRONMENT NOTES

THIS CONSTRUCTION SITE SHALL ADHERE TO THE REBRI (RESOURCE EFFICIENCY IN THE BUILDING AND RELATED INDUSTRIES) GUIDELINES FOR CONSTRUCTION - WASTE REDUCTION

• THIS SITE IS IN A VERY HIGH WIND ZONE. ENSURE CORRECT FIXINGS, TIE DOWNS, CONNECTORS, GLAZING ETC ARE USED

. THIS SITE IS IN EXPOSURE ZONE C:

- ALL STRUCTURAL FIXINGS IN SHELTERED LOCATIONS TO BE HOT DIP GALVANISED, AND IN EXPOSED SITUATIONS TO BE TYPE

 ALL FIXINGS IN CONTACT WITH TIMBER TREATED WITH A COPPER BASED PRESERVATIVE ARE TO BE TYPE 304 S.S. IN EXPOSED OR SHELTERED LOCATIONS, AND HOT DIPPED GALVANISED IN CLOSED SITUATIONS

• THE CONTRACTOR IS RESPONSIBLE FOR CLEARLY DEFINING THE SITE BOUNDARIES. IN ORDER TO CORRECTLY SET THE BUILDING OUT, A REGISTERED SURVEYOR MAY BE REQUIRED. ESTABLISHED FENCES ARE NOT NECESSARILY ON THE SITE BOUNDARY

 THE MINIMUM CLEARANCE FROM FLOOR SLAB TO FINISHED GROUND LEVEL TO BE:

- 150mm TO PAVED AREAS AND 225mm TO NON-PAVED AREAS

. GROUND BEARING MUST BE RECONFIRMED ON SITE FOLLOWING THE EXCAVATION OF FOUNDATION TRENCHES AND PRIOR TO POURING ANY CONCRETE, SOFT GROUND MAY BE ENCOUNTERED, REQUIRING SPECIFIC DESIGN BY A CONSULTING STRUCTURAL ENGINEER

ALL FOUNDATIONS ARE TO SPECIFIC DESIGN BY A

CONSULTING STRUCTURAL ENGINEER
• CONTRACTOR TO ENSURE THAT THE FOUNDATION HEIGHT WILL ALLOW FOR REQUIRED DRAINAGE FALLS TO THE SEWER

 PROVIDE PROTECTION TO ALL WASTE PIPES AND DRAINS THAT RUN UNDER OR THROUGH FOUNDATION GROUND BEAMS

ALL HABITABLE AND SERVICE ROOMS ARE REQUIRED TO HAVE OPENING WINDOWS EQUIVALENT TO A MINIMUM OF 5% OF THEIR FLOOR AREA, OR AN APPROVED ALTERNATIVE **VENTILATION SYSTEM**

 OPENING WINDOWS PROJECTING OVER ACCESS ROUTES AND DECKS TO BE PROTECTED TO COMPLY WITH NZBC D1, CLAUSE 1.5.4

 PROVIDE SILL SUPPORT BRACKETS TO EXTERNAL WINDOWS AND DOORS

 ALUMINIUM JOINERY TO BE IN ACCORDANCE WITH NZS 4211 ALL GLAZING IS TO COMPLY WITH NZS 4223 PARTS 1,2,3

. WINDOW MANUFACTURER IS TO CONFIRM ALL WINDOWS REQUIRED TO HAVE SAFETY GLASS

 WINDOW MANUFACTURER TO SUPPLY ALL FLASHINGS AND WANZ WIS COMPONENTS

• FIT RESTRICTOR STAYS TO WINDOW OPENING SASHES TO LIMIT THE OPENING TO A MAXIMUM OF 100mm WHEREVER THE SILL HEIGHT IS LESS THAN 760mm AND THE DIFFERENCE IN LEVELS IS 1.0m OR GREATER. REFER TO NZBC F4

WALL AND ROOF FRAMING NOTES

TIMBER TREATMENT TO COMPLY WITH NZS 3602 • TRUSSES AND PREFABRICATED WALLS MUST BE DESIGNED AND SUPPLIED BY A LICENSED PRE-NAIL MANUFACTURER. PROVIDE A COPY OF THE DESIGN AND PRODUCER STATEMENT TO THE TERRITORIAL AUTHORITY

 BOTTOM PLATES TO BE FIXED WITH APPROVED BOTTOM PLATE ANCHORS INSTALLED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS AND NZS 3604

 STUD / TOP PLATE FIXINGS TO BE IN ACCORDANCE WITH LUMBERLOK STUR TO TOP PLATE FIXING SCHEDULE

 LINTEL HOLD DOWNS TO BE IN ACCORDANCE WITH LUMBERLOK LINTEL FIXING SCHEDULE UNLESS SPECIFIED BY PRENAIL MANUFACTURER

 ALL FIXINGS TO BE GALVANISED TO PREVENT DETERIORATION DUE TO TEMPORARY EXPOSURE

· WHERE BOLTED CONNECTIONS ARE USED, FIT WITH 50x50x3mm SQUARE OR 55Øx3mm ROUND WASHERS TO BOTH

 ROOF FRAMING AND FIXING REQUIREMENTS TO COMPLY WITH NZS 3604 SECTION 10

. DO NOT SUPPORT BOTTOM CHORDS OF TRUSSES AT POINTS OTHER THAN THOSE DESIGNATED BY THE TRUSS MANUFACTURER

CLADDING NOTES

WHERE WALLS ARE NOT LINED (E.G. GABLE ENDS AND FRAMED CHIMNEYS), A RIGID SHEATHING OR AN AIR BARRIER WRAP IS TO BE INSTALLED TO COMPLY WITH NZBC E2/AS1 CLAUSE 9.1.4 PRIOR TO FIXING CAVITY BATTENS AND CLADDING

 RETURN WALL UNDERLAY INTO ALL FRAMING OPENINGS AND FIT APPROVED FLEXIBLE FLASHING TAPE TO MANUFACTURERS SPECIFICATION.

 FIT FLASHINGS TO COMPLY WITH THE WINDOW AND CLADDING MANUFACTURERS SPECIFICATIONS AND DETAILS. FIT AIR SEALS TO THE INNER EDGE OF JOINERY REVEALS

 A HEAVY DUTY WIND BARRIER IS REQUIRED BEHIND BEVEL BACK WEATHERBOARDS IN WIND ZONES VERY HIGH AND ABOVE

• ROOF FRAMING AND FIXING REQUIREMENTS TO COMPLY WITH NZS 3604 SECTION 10

 ROOF CLADDING TO BE INSTALLED TO THE MANUFACTURERS SPECIFICATION AND THE REQUIREMENTS OF NZBC E2, SECTION 8. STEEL COATING TO BE SUITABLE FOR THE CORROSION ZONE. SITE AND PROJECT SPECIFIC CONFIRMATION OF THE SPECIFIED ROOFING IS REQUIRED. PROVIDE A COPY OF THE MANUFACTURERS WARRANTY TO THE TERRITORIAL AUTHORITY

 ENSURE ADEQUATE CROSS FLOW VENTILATION IS PROVIDED TO ROOF SPACE ABOVE THE THERMAL INSULATION TO PREVENT CONDENSATION

 CONTRACTOR TO PROVIDE OWNER WITH SUITABLE WRITTEN DETAILS OF A REGULAR INSPECTION AND MAINTENANCE REGIME FOR ALL ROOF AND DECK MEMBRANES AND ASSOCIATED FLASHING

PLUMBING NOTES

• ALL PLUMBING AND DRAINAGE TO BE IN ACCORDANCE WITH AS / NZS 3500 PART 2

 CONTRACTOR TO CONFIRM LOCATIONS OF EXISTING LATERALS ON SITE

 PROVIDE PROTECTION TO ALL WASTE PIPES AND DRAINS THAT RUN UNDER OR THROUGH FOUNDATION GROUND BEAMS

 PROVIDE DRAINAGE PRODUCER STATEMENT AND AS-BUILT DRAINAGE PLAN TO THE TERRITORIAL AUTHORITY PRIOR TO CCC BEING ISSUED

FIT A TEMPERING VALVE TO THE HOT WATER SERVICE

. WATER PIPES TO BE TESTED TO 1500 KPa

 ENSURE THAT PLUMBING CAN RUN TO THE EXTERIOR WITHOUT DAMAGING STRUCTURAL MEMBERS

 DRAINAGE PIPES TO BE TESTED AND INSPECTED PRIOR TO BACKFILLING

PROVIDE SEISMIC RESTRAINTS TO HOT WATER CYLINDERS.

INSTALL SMOKE ALARMS TO COMPLY WITH NZBC F7

· RECESSED DOWN LIGHTS (IF USED) ARE TO BE IC-F RATED AND INSTALLED TO PREVENT TRANSFER OF MOISTURE INTO CEILING SPACE TO COMPLY WITH NZECP 54

 PROVIDE ELECTRICAL CERTIFICATION AFTER COMPLETION TO THE TERRITORIAL AUTHORITY PRIOR TO CCC BEING ISSUED

 SOLID FUEL BURNING APPLIANCES TO BE INSTALLED TO THE REQUIREMENTS OF NZS 7421 AND NZS 2918, SUBJECT TO TERRITORIAL AUTHORITY APPROVAL. THE APPLIANCE MUST COMPLY WITH THE MINISTRY OF ENVIRONMENT CURRENT EMISSION STANDARDS. PROVIDE PERMANENT EXTERNAL SUPPLY OF COMBUSTION AIR AND SEISMIC RESTRAINTS TO THE APPLIANCE AND FLUE TO COMPLY WITH NZBC C/AS1 PART 9.

TIMBER TREATMENT SCHEDULE			
COMPONENT	TREAT		
EXTERIOR TIMBER - COATED	H3.1		
EXTERIOR TIMBER - EXPOSED	H3.2		
WALL FRAMING GENERALLY	H1.2		
BOTTOM PLATES	H3.2		
ALL ROOF FRAMING & PURLINS	H1.2		
CAVITY BATTENS	H3.1		
PLYWOOD CLADDING	H3.1		
CLADDING BATTENS AND TRIM	H3.1		

ALL TIMBER TO COMPLY WITH NZS 3602

. TREAT CUT ENDS AND BORE HOLES AS REQUIRED BY NZS3602, NZS3460 AND TIMBER MANUFACTURERS SPECIFICATIONS

TIMBER SPECIES TO BE RADIATA PINE UNLESS NOTED

OTHERWISE

 ALL FIXINGS IN CONTACT WITH TIMBER TREATED WITH A COPPER BASED PRESERVATIVE ARE TO BE TYPE 304 S.S. IN EXPOSED OR SHELTERED LOCATIONS, AND HOT DIPPED GALVANISED IN CLOSED SITUATIONS





Phone: 04 904 59 59

Rev	Date	Description
Propo	sed House	
	ther & Pete	
142 Hu	ia St Waikan	ae

Lot 10 DP 22652

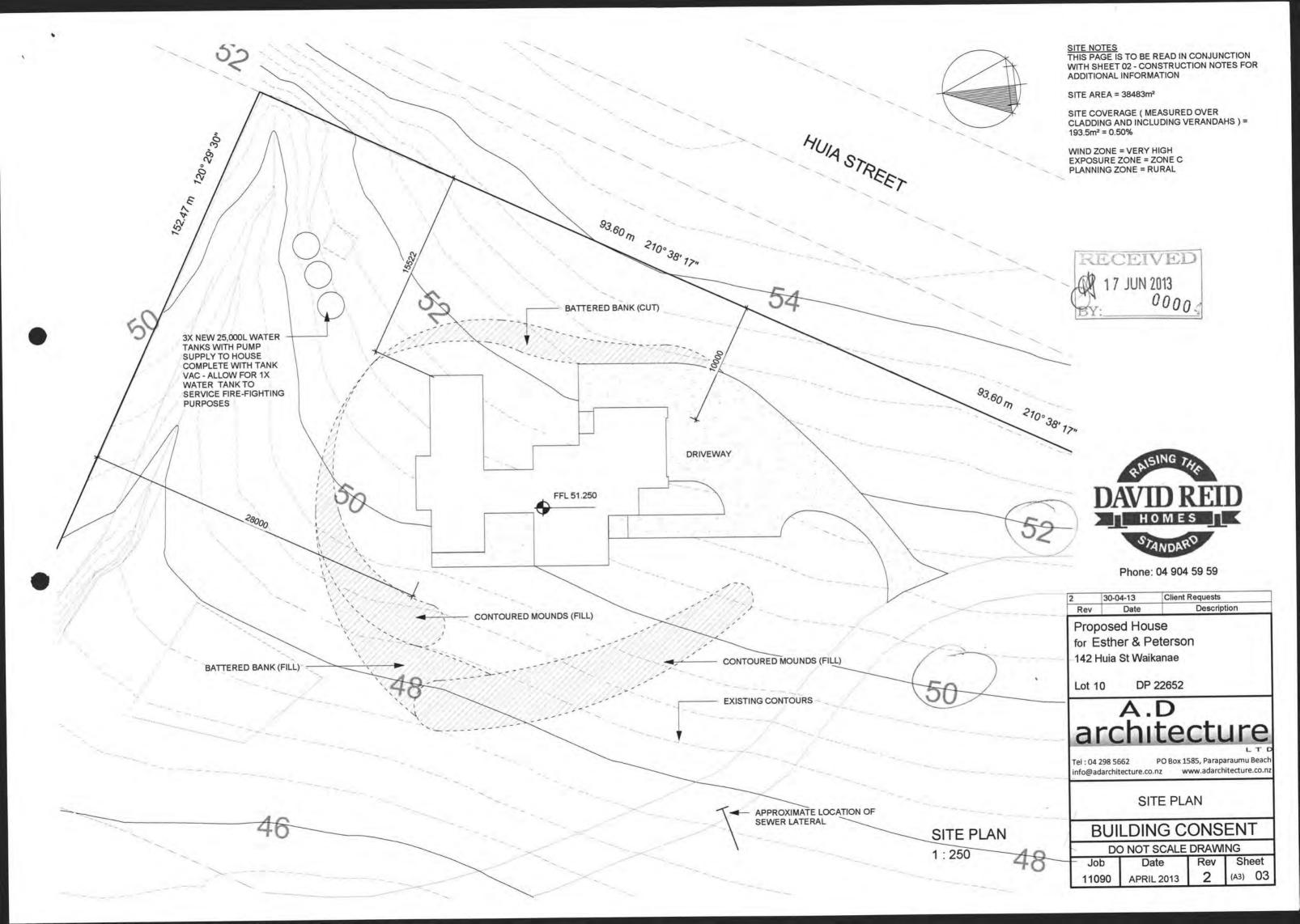
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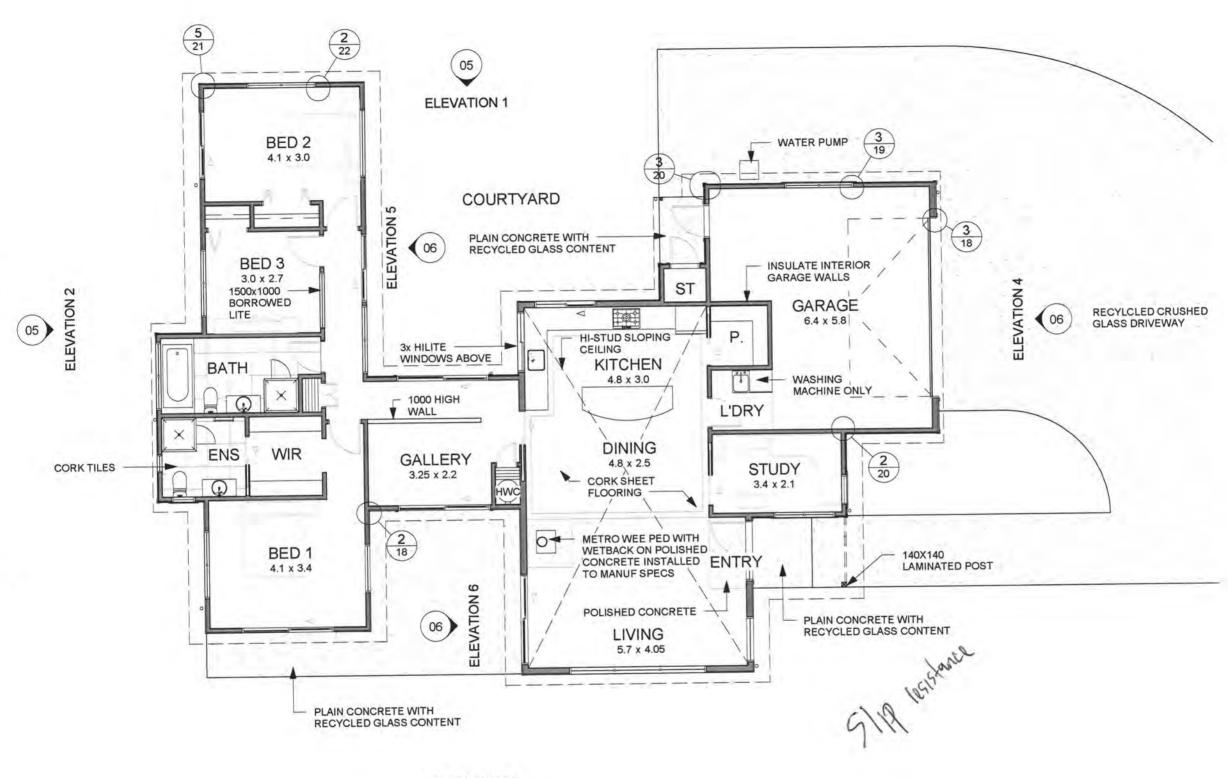
CONSTRUCTION NOTES

BUILDING CONSENT

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(A3) 02 11090 APRIL 2013





ELEVATION 3



FLOOR PLAN

1:100

FLOOR AREA = 183.9m2 OVER FRAMING (186.1m2 OVER CLADDING)

- CONSTRUCTION NOTES

 THIS PAGE IS TO BE READ IN CONJUNCTION WITH SHEET 02 - CONSTRUCTION NOTES FOR ADDITIONAL INFORMATION
- 13mm GIB STANDARD CEILINGS ON 70x35 TIMBER BATTENS (13mm AQUALINE TO BATHROOMS, ENSUITE AND LAUNDRY)
- 10mm GIB WALL LININGS (10mm AQUALINE TO BATHROOMS, ENSUITE AND LAUNDRY) • 9mm STRANDBOARD WALL LININGS TO GARAGE
- SQUARE STOP SCOTIA DETAIL
 THROUGHOUT
- 60mm BEVEL EDGE MDF SKIRTINGS
- THROUGHOUT
- SLIMLINE REVEALS TO WINDOWS AND DOORS REBATED FOR WALL LININGS INSTALL SOLAR WATER HEATING SYSTEM INSTALLED TO MANUF SPEC
- INSTALL SOLAR CAPABLE ELECTRIC HWC TO MANUF SPEC WITH SEISMIC RESTRAINTS
- . ALL FLOOR FINISHES TO COMPLY WITH NZBC D1 FOR SLIP RESISTANCE





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2	30-04-13	Client Requests
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DP 22652

A.D architecture

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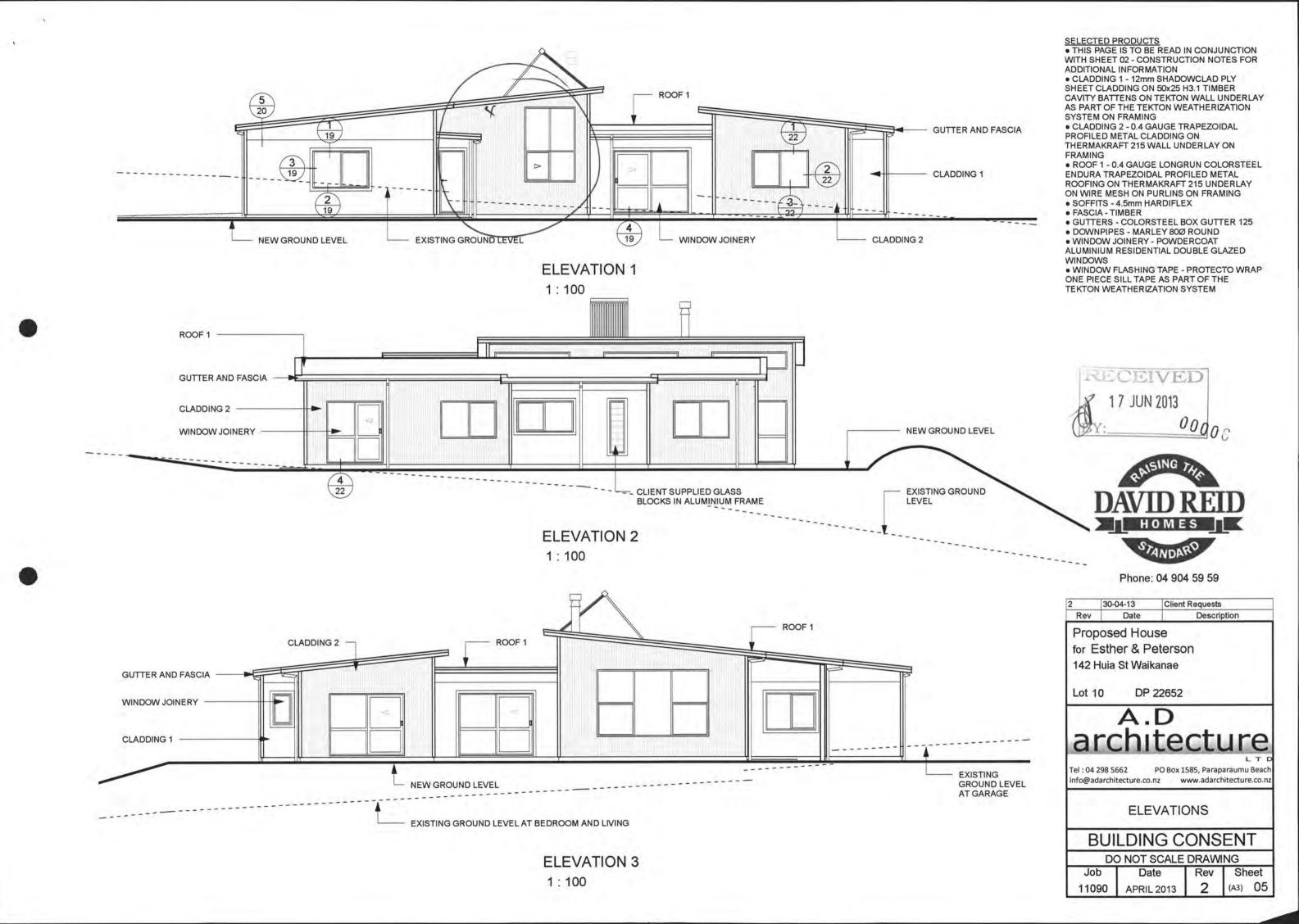
Lot 10

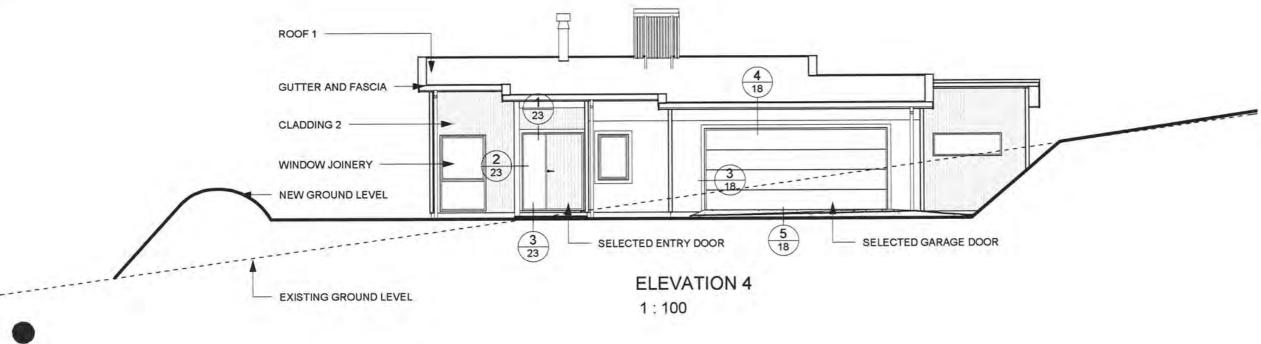
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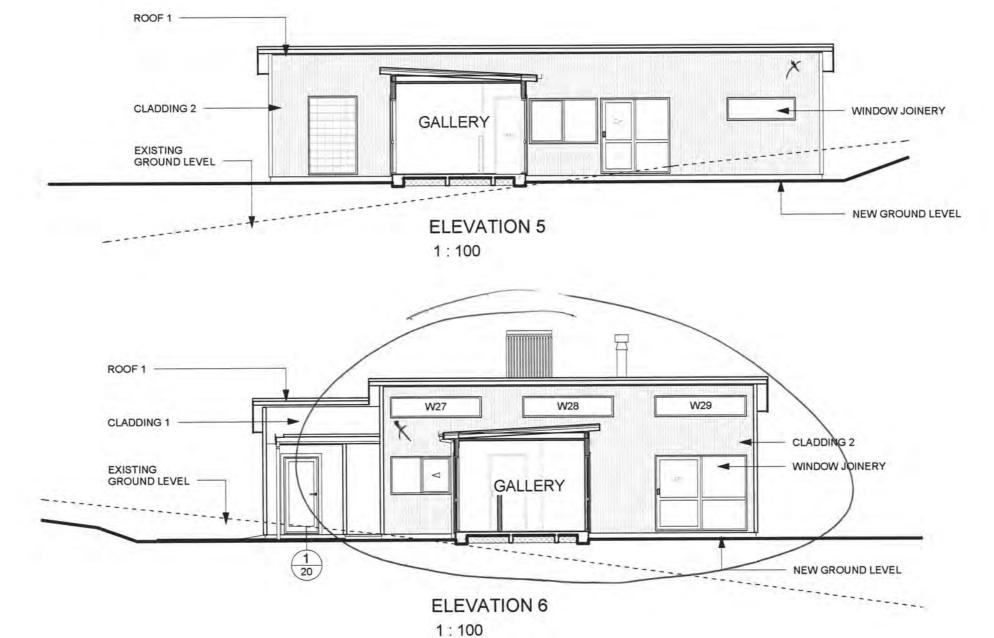
FLOOR PLAN

BUILDING CONSENT

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Job	Date	Rev	Sheet	
11090	APRIL 2013	2	(A3) 04	







- SELECTED PRODUCTS

 THIS PAGE IS TO BE READ IN CONJUNCTION WITH SHEET 02 - CONSTRUCTION NOTES FOR ADDITIONAL INFORMATION
- CLADDING 1 12mm SHADOWCLAD PLY SHEET CLADDING ON 50x25 H3.1 TIMBER CAVITY BATTENS ON TEKTON WALL UNDERLAY AS PART OF THE TEKTON WEATHERIZATION
- SYSTEM ON FRAMING

 CLADDING 2 0.4 GAUGE TRAPEZOIDAL
 PROFILED METAL CLADDING ON
 THERMAKRAFT 215 WALL UNDERLAY ON FRAMING
- ROOF 1 0.4 GAUGE LONGRUN COLORSTEEL ENDURA TRAPEZOIDAL PROFILED METAL ROOFING ON THERMAKRAFT 215 UNDERLAY ON WIRE MESH ON PURLINS ON FRAMING

- ON WIRE MESH ON PURLINS ON FRAMING

 SOFFITS 4.5mm HARDIFLEX

 FASCIA TIMBER

 GUTTERS COLORSTEEL BOX GUTTER 125

 DOWNPIPES MARLEY 80Ø ROUND

 WINDOW JOINERY POWDERCOAT

 ALUMINIUM RESIDENTIAL DOUBLE GLAZED WINDOWS
- . WINDOW FLASHING TAPE PROTECTO WRAP ONE PIECE SILL TAPE AS PART OF THE TEKTON WEATHERIZATION SYSTEM





Phone: 04 904 59 59

2	30-04-13	Client Requests
Rev	Date	Description
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for E	sther & F	Peterson
142 H	Huia St Wai	ikanae
2-2-5		and the
Lot 1	0 DP	22652
aı	A. rchi	D itectur
Tel : 04	7.13	PO Box 1585, Paraparaumu B
Tel : 04	298 5662 darchitecture.co	PO Box 1585, Paraparaumu B
Tel:04 info@ad	298 5662 darchitecture.co	PO Box 1585, Paraparaumu Boonz www.adarchitecture.co
Tel:04 info@ad	298 5662 darchitecture.co	

APRIL 2013

11090

TOPO	GRAPHY SCH	HEDULE
NAME	FILL	CUT
LANDSCAPE	677.4 m³	156.1 m³
HOUSE	53.4 m³	30.6 m³
DRIVEWAY	0.6 m ³	48.9 m³
	724 E m3	235 6 m ³

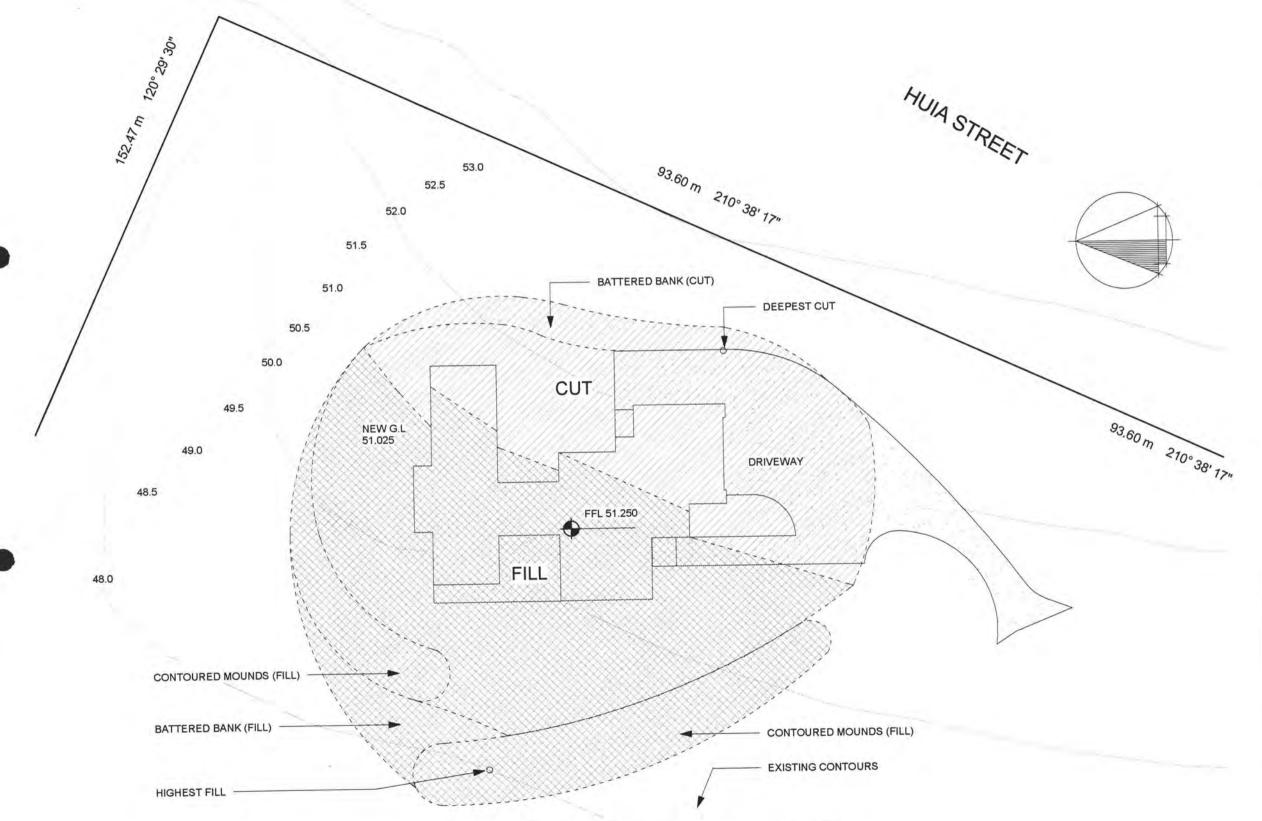
- EARTHWORKS NOTES

 THIS PAGE IS TO BE READ IN CONJUNCTION WITH SHEET 02 CONSTRUCTION NOTES FOR ADDITIONAL INFORMATION
- APPROX. EXTENT OF CUT = ~350m² / 236m³
 APPROX. EXTENT OF FILL = ~629m² / 730m³
 TOTAL AREA OF EARTHWORKS = 979m²
- APPROX. DEEPEST CUT = 1.7m

RECEIVED

17 JUN 2013

• APPROX. HIGHEST FILL = 3.8m



NOTE: ALL EARTHWORKS TO BE REDISTRIBUTED ON SITE

EARTHWORKS PLAN

1:250



Phone: 04 904 59 59

Client Requests 30-04-13 Description Date

Proposed House for Esther & Peterson 142 Huia St Waikanae

DP 22652 Lot 10

A.D

Tel: 04 298 5662

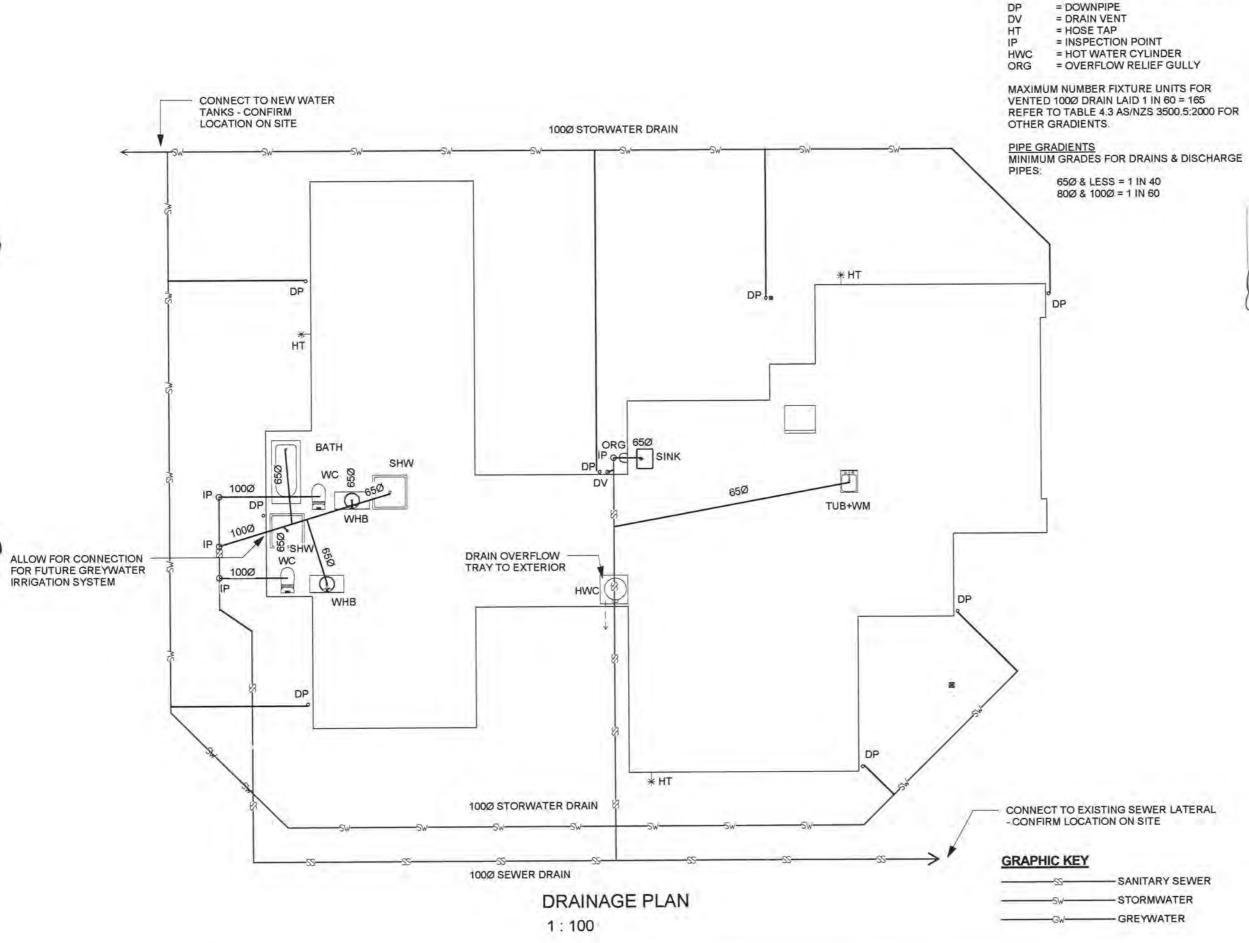
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EARTHWORKS PLAN

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PLUMBING KEY

BATH = BATH = 4FU = DISHWASHER = 3FU DW SHW = SHOWER = 2FU = SINK = 3FU SINK = LAUNDRY TUB = 5FU TUB = TOILET = 4FU WC = WASH HAND BASIN = 1FU WHB

17 JUN 2013



PLUMBING & DRAINAGE NOTES:

THIS PAGE IS TO BE READ IN CONJUNCTION WITH SHEET 02 - CONSTRUCTION NOTES FOR

ACCORDANCE WITH BRANZ PLUMBING AND

SINGLE STACK RESIDENTIAL SYSTEMS AND

DRAINAGE GUIDE SECTION D AS/NZS 3500

PART 2 FOR GROUND FLOOR SYSTEMS,

SECTION F DRAINAGE REQUIREMENTS . CONFIRM POSITION OF LATERALS AND

PROVIDE 3X 25,000 L WATER STORAGE TANK WITH PUMP SUPPLY TO HOUSE

CONFIRMED BY CLIENT - ALLOW FOR 1X

WATER TANK TO SERVICE FIRE-FIGHTING

• PROVIDE SEISMIC RESTRAINTS TO HOT

COMPLETE WITH TANK VAC - LOCATION TO BE

PURPOSES - ALLOW FOR 1x GRAVITY FED TAP AT TANK FOR EMERGENCY WATER SUPPLY

ADDITIONAL INFORMATION

MAINS ON SITE

WATER CYLINDERS

. THIS PLAN HAS BEEN DESIGNED IN

Phone: 04 904 59 59

30-04-13 Client Requests Rev Date

Proposed House for Esther & Peterson 142 Huia St Waikanae

Lot 10 DP 22652

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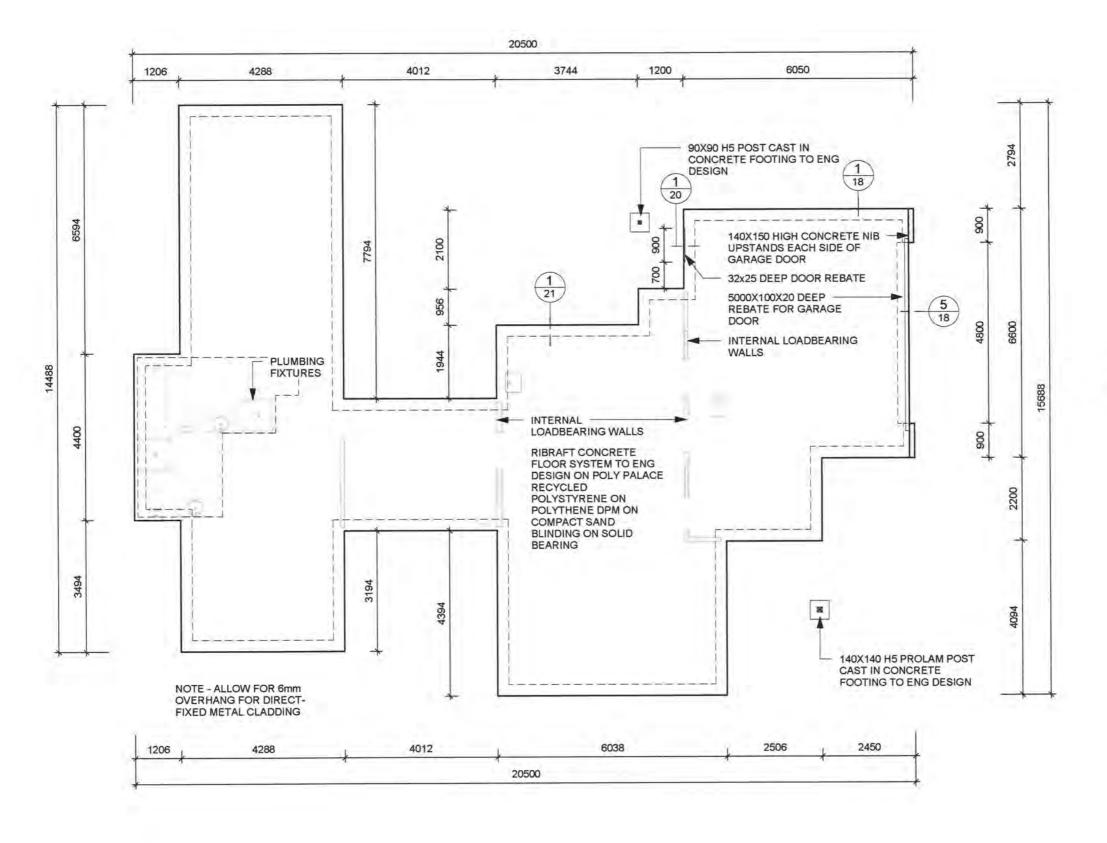
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DRAINAGE PLAN

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FOUNDATION PLAN

1:100

FOUNDATION NOTES

THIS PAGE IS TO BE READ IN
CONJUNCTION WITH SHEET 02 CONSTRUCTION NOTES FOR ADDITIONAL
INFORMATION

ALL CONCRETE TO BE 20MPa UNLESS
SPECIFIED OTHERWISE BY ENGINEER - ALL
CONCRETE TO CONTAIN RECYCLED GLASS
AGGREGATE TO MAX % ALLOWABLE

 ALL REINFORCING MESH TO BE GRADE

FORE

 CONTAIN

 RIBRAFT CONCRETE FLOOR SYSTEM TO ENGINEERS DESIGN

 FOUNDATION DETAILS TO ENGINEERS DESIGN

• REFER TO ENGINEERS DWGS FOR SAWCUT LOCATIONS

THIS SITE IS IN EXPOSURE ZONE C:

ALL STRUCTURAL FIXINGS IN SHELTERED LOCATIONS TO BE HOT DIP GALVANISED, AND IN EXPOSED SITUATIONS TO BE TYPE 304 S.S.

 ALL FIXINGS IN CONTACT WITH TIMBER TREATED WITH A COPPER BASED PRESERVATIVE ARE TO BE TYPE 304 S.S. IN EXPOSED OR SHELTERED LOCATIONS, AND HOT DIPPED GALVANISED IN CLOSED SITUATIONS





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2	30-04-13	Client Requests
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Proposed House for Esther & Peterson 142 Huia St Waikanae

Lot 10 DP 22652

A.D architecture

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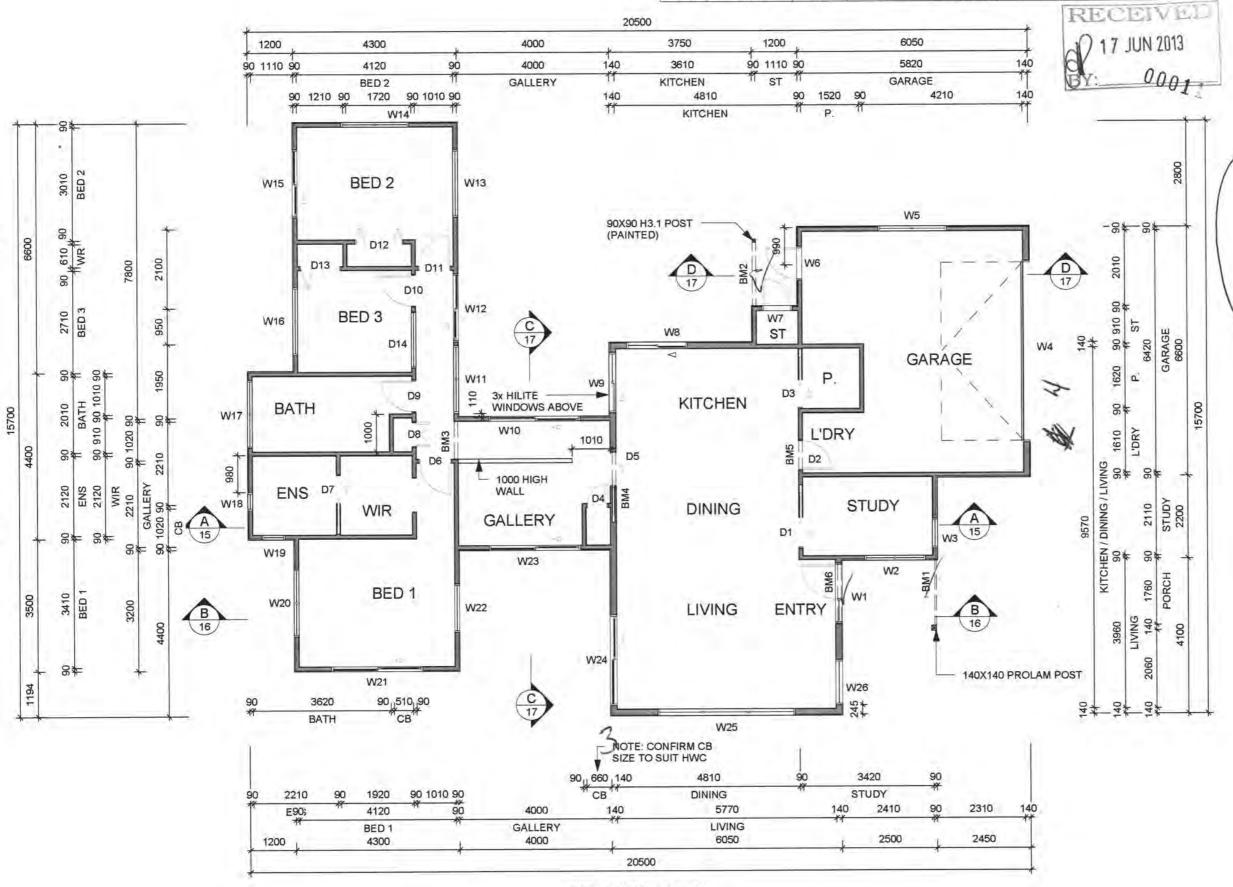
FOUNDATION PLAN

BUILDING CONSENT

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Job Date Rev Sheet
11090 APRIL 2013 2 (A3) 09

BEAM Schedule					
MARK	SIZE/TYPE	GRADE	TREATMENT	DESIGN	NOTES
BM1	190X45	SG8	H3.1	per 3604	
BM2	140x90	SG8	H3.1	per 3604	
ВМЗ	90x90	SG8	H1.2	per 3604	
BM4	90x90	SG8	H1.2	per 3604	
BM5	90x90	SG8	H1.2	per 3604	
BM6	140x90	SG8	H1.2	per 3604	



FRAMING PLAN

1:100

- WALL FRAMING NOTES

 THIS PAGE IS TO BE READ IN CONJUNCTION WITH SHEET 02 - CONSTRUCTION NOTES FOR ADDITIONAL INFORMATION
- WALL FRAMING TO BE IN ACCORDANCE WITH NZS 3604
- WALL FRAMING TO BE IN ACCORDANCE WITH PRODUCER STATEMENT BY SEPARATE CONSULTANT
- ALL WALL FRAMING TO BE KILN DRIED GRADE SG8 MINIMUM UNLESS NOTED **OTHERWISE**
- ALL BOTTOM PLATES TO BE H3.2 TREATED
- EXTERIOR WALL FRAMING TO BE 90x45 AT 400crs UP TO 2400 STUD HEIGHT
- EXTERIOR WALL FRAMING TO BE 140x45 AT 400crs UP TO 3600 STUD HEIGHT
- INTERIOR WALL FRAMING TO BE 90x45 AT
- 600crs UP TO 3000 STUD HEIGHT • TOP PLATES TO BE FIXED TO STUDS IN ACCORDANCE WITH LUMBERLOK STUD TO
- TOP PLATE FIXING SCHEDULE . LINTEL FIXINGS TO BE IN ACCORDANCE
- WITH LUMBERLOK LINTEL FIXING SCHEDULE . ALL WINDOW AND DOOR LINTELS ARE TO
- PRENAIL MANUFACTURERS DESIGN UNLESS NOTED OTHERWISE
- WINDOW OPENINGS TO BE 20mm LARGER THAN WINDOW HEIGHTS (10mm TOLERANCE EACH SIDE) AND 100mm LARGER THAN WINDOW WIDTHS (50mm TOLERANCE EACH
- . ALL FIXINGS IN CONTACT WITH TIMBER TREATED WITH A COPPER BASED PRESERVATIVE ARE TO BE TYPE 304 S.S. IN EXPOSED OR SHELTERED LOCATIONS, AND HOT DIPPED GALVANISED IN CLOSED SITUATIONS



Phone: 04 904 59 59

3 23-05-13		For Consent	
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Proposed House for Esther & Peterson 142 Huia St Waikanae

DP 22652 Lot 10

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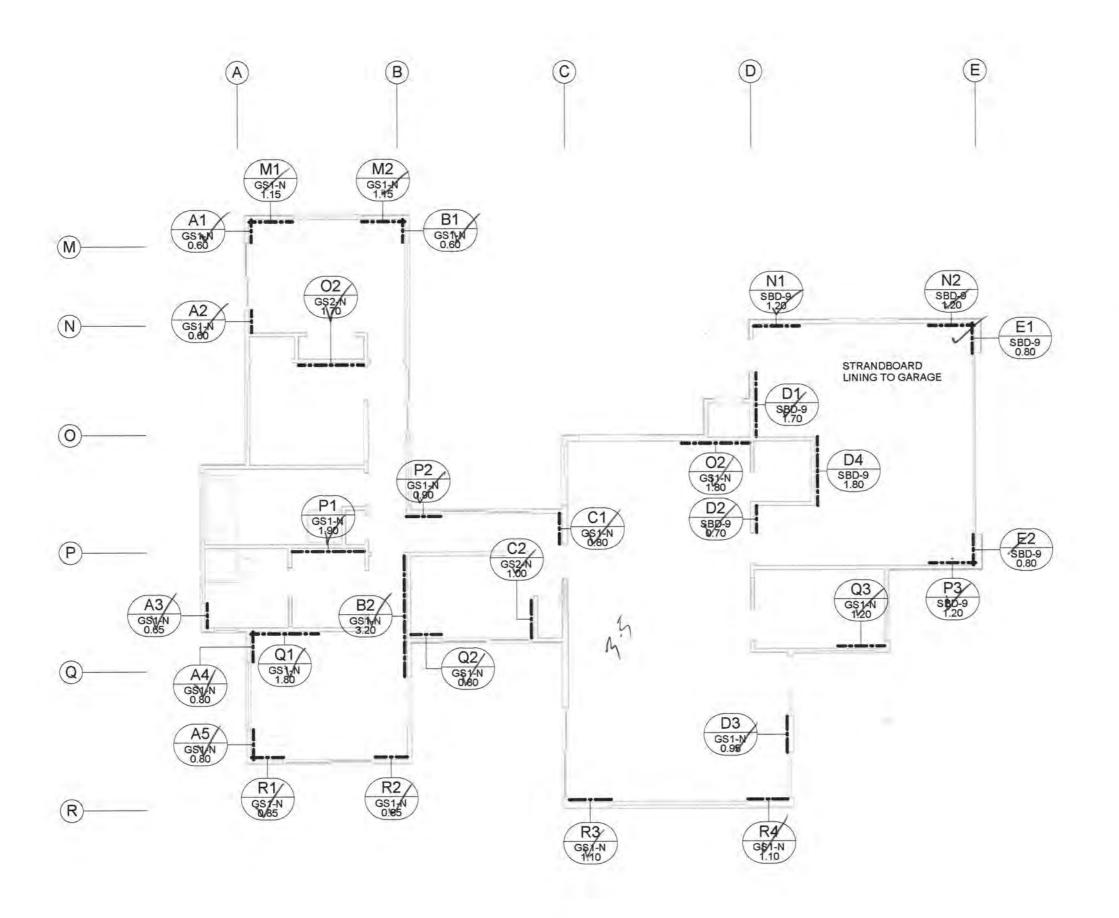
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FRAMING PLAN

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BRACING PLAN

1:100

BRACING NOTES

THIS PAGE IS TO BE READ IN CONJUNCTION WITH SHEET 02 - CONSTRUCTION NOTES FOR ADDITIONAL INFORMATION ALL BRACING TO BE INSTALLED IN
 ACCORDANCE WITH MANUFACTURERS
 SPECIFICATIONS FOR WINSTONES GIB
 EZYBRACE SYSTEMS: JUNE 2011
 ALL BRACING ELEMENTS IN EXTERIOR AND
INTERIOR WALLS THAT BEQUIRE HOLD DOWN. INTERIOR WALLS THAT REQUIRE HOLD DOWN FIXINGS TO A CONCRETE SLAB FLOOR ARE TO HAVE GIB HANDIBRAC BRACKETS WITH BOWMAC SCREW BOLTS INSTALLED TO

MANUFACTURERS SPECIFICATION





Phone: 04 904 59 59

Day	Date	Description
Rev	Date	Description
Prop	osed House	
for Es	sther & Pete	rson

Tel: 04 298 5662

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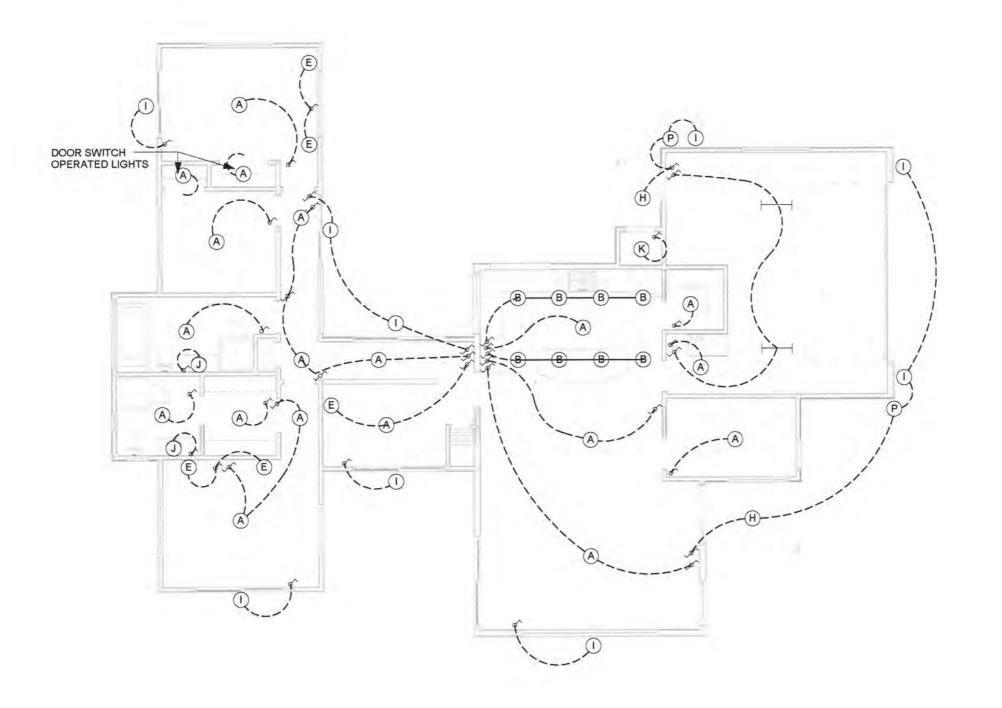
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BRACING PLAN

BUILDING CONSENT

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Sheet Job Date Rev (A3) 11 11090 **APRIL 2013**



LIGHTING PLAN

1:100

LIGHTING LEGEND

- SURFACE MOUNTED CEILING LIGHT
- HALOGEN LIGHTS ON SUSPENDED RAIL
- INTERIOR WALL MOUNTED LIGHT
- EXTERIOR SOFFIT MOUNTED LIGHT
- EXTERIOR WALL MOUNTED LIGHT
- OVER MIRROR LIGHT
- BATTEN HOLDER
- PIR SENSOR
- FLUORESCENT LIGHT
- ONE WAY LIGHT SWITCH
- MULTIPLE LIGHT SWITCH
- DIMMER SWITCH





Phone: 04 904 59 59

	Rev	Date	Descrip
	Propo	sed House	
	for Es	ther & Pete	erson
- 1		ia St Waikana	

DP 22652 Lot 10

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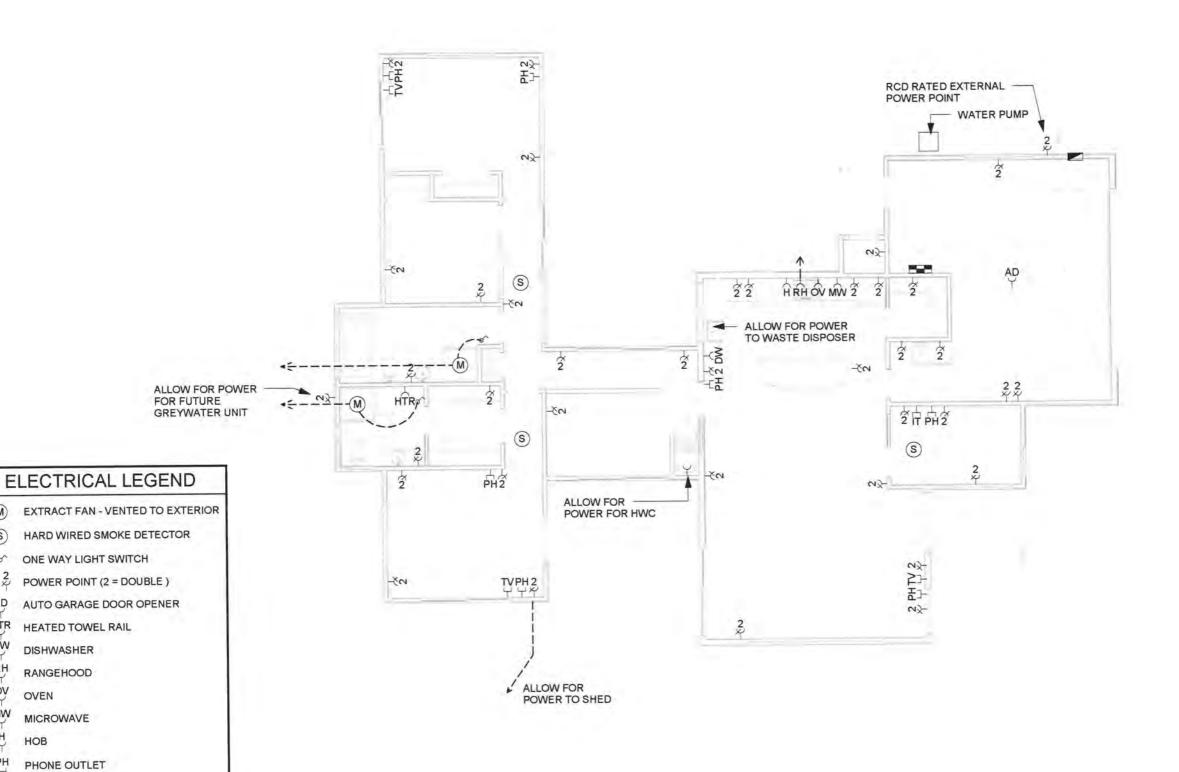
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LIGHTING PLAN

BUILDING CONSENT

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- ELECTRICAL NOTES:

 THIS PAGE IS TO BE READ IN CONJUNCTION WITH SHEET 02 -CONSTRUCTION NOTES FOR ADDITIONAL INFORMATION
- ALL SOCKET AND SWITCH GEAR TO BE AS
- SELECTED

 TV WIRING TO BE SUITABLE FOR SKY
 DIGITAL, TELSTRA CLEAR CABLE TV AND FREEVIEW HD
- . PHONE LINE WIRING TO BE SUITABLE FOR INTERNET AND HIGH SPEED CONNECTIONS ALL POWER CIRCUITS TO HAVE RCD AT SWITCHBOARD
- ALL LIGHT FITTINGS TO BE FITTED WITH LONG LIFE BULBS
- ALLOW FOR ELECTRICAL REQUIREMENTS FOR SOLAR WATER HEATING SYSTEM. REFER TO MANUFACTURER'S SPECIFICATIONS.
- ALLOW FOR ELECTRICAL REQUIREMENTS TO PUMP BY GARAGE, FROM WATER STORAGE TANKS





Phone: 04 904 59 59

3	23-05-13	For Consent
Rev	Date	Description
for E	oosed Ho Esther & F Huia St Wa	Peterson
	0 DF	22652

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ELECTRICAL PLAN

BUILDING CONSENT DO NOT SCALE DRAWING

Date Rev Job 3 (A3) 13 11090 **APRIL 2013**

ELECTRICAL PLAN

1:100

HTR

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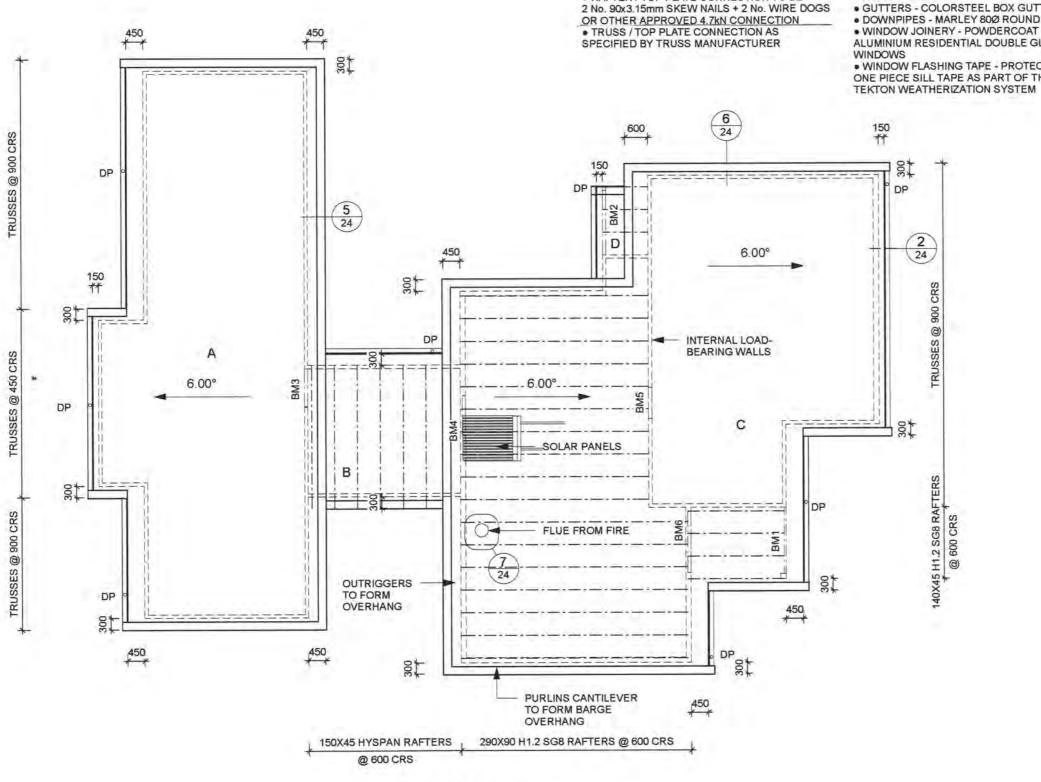
TV OUTLET (F, COAX)

MAIN SWITCHBOARD

METER PANEL

DATA OUTLET ON SEP. LINE

			BEAM Sched	ule	
MARK	SIZE/TYPE	GRADE	TREATMENT	DESIGN	NOTES
BM1	190X45	SG8	H3.1	per 3604	
BM2	140x90	SG8	H3.1	per 3604	
ВМ3	90x90	SG8	H1.2	per 3604	
BM4	90x90	SG8	H1.2	per 3604	
BM5	90x90	SG8	H1.2	per 3604	
BM6	140x90	SG8	H1.2	per 3604	



ROOF NOTES

INFORMATION

DIMENSIONS

900 crs ON THEIR FLAT

DETAILS

SOFFITS

• THIS PAGE IS TO BE READ IN CONJUNCTION

WITH SHEET 02 - CONSTRUCTION NOTES FOR

TIMBER TREATMENT AND ADDITIONAL

. INSTALL EAVES FLASHING TO ALL EAVE

REFER ALSO TO DETAILS FOR FLASHING

ALL ROOF FRAMING TO BE GRADE SG8 MINIMUM UNLESS NOTED OTHERWISE

. ALL SOFFIT DIMENSIONS ARE FOR SLOPING

ROOF PURLINS TO BE GRADE SG8 70x45 AT *

ROOF PURLIN HOLD DOWN FIXINGS TO BE

1 No. 12g SELF DRILLING 80mm SCREW OR

• RAFTER / TOP PLATE CONNECTION TO BE

OTHER APPROVED 2.4kN CONNECTION

ROOF PLAN 1:100

SELECTED PRODUCTS

• THIS PAGE IS TO BE READ IN CONJUNCTION WITH SHEET 02 - CONSTRUCTION NOTES FOR

ADDITIONAL INFORMATION CLADDING 1 - 12mm SHADOWCLAD PLY

SHEET CLADDING ON 50x25 H3.1 TIMBER CAVITY BATTENS ON TEKTON WALL UNDERLAY AS PART OF THE TEKTON WEATHERIZATION SYSTEM ON FRAMING

 CLADDING 2 - 0.4 GAUGE TRAPEZOIDAL PROFILED METAL CLADDING ON THERMAKRAFT 215 WALL UNDERLAY ON FRAMING

 ROOF 1 - 0.4 GAUGE LONGRUN COLORSTEEL ENDURA TRAPEZOIDAL PROFILED METAL ROOFING ON THERMAKRAFT 215 UNDERLAY ON WIRE MESH ON PURLINS ON FRAMING

SOFFITS - 4.5mm HARDIFLEX

. FASCIA - TIMBER

• GUTTERS - COLORSTEEL BOX GUTTER 125

. DOWNPIPES - MARLEY 80Ø ROUND WINDOW JOINERY - POWDERCOAT

ALUMINIUM RESIDENTIAL DOUBLE GLAZED

• WINDOW FLASHING TAPE - PROTECTO WRAP ONE PIECE SILL TAPE AS PART OF THE

DOWNPIPE AND GUTTER CALCULATIONS ALL DOWNPIPES 80 mmØ FROM NZBC E1/AS1 TABLE 5: 80Ø DOWNPIPE SERVES 85m2 ROOF AREA

125 BOX GUTTER CROSS SECTIONAL AREA = FROM NZBC E1, FIGURE 15: EXT. GUTTER WITH CROSS SECTIONAL AREA OF 8435 mm² CAN SERVE ROOF AREA OF 75 m²

ROOF A CATCHMENT AREA = 85 m² ROOF PITCH = 6° No. OF DOWNPIPES REQUIRED = 2 No. OF DOWNPIPES PROVIDED = 3

WHERE ROOF PITCH IS BETWEEN 0 & 25°

ROOF B CATCHMENT AREA = 17 m2 ROOF PITCH = 3°

No. OF DOWNPIPES REQUIRED = 1 No. OF DOWNPIPES PROVIDED = 1

ROOF C CATCHMENT AREA = 127 m2 ROOF PITCH = 6° No. OF DOWNPIPES REQUIRED = 2 No. OF DOWNPIPES PROVIDED = 3

ROOF D CATCHMENT AREA = 4 m² ROOF PITCH = 3° No. OF DOWNPIPES REQUIRED = 1 No. OF DOWNPIPES PROVIDED = 1





Phone: 04 904 59 59

Rev	Date	Description
Propos	sed House	. 1
	her & Pete	
	a St Waikan	

A.D

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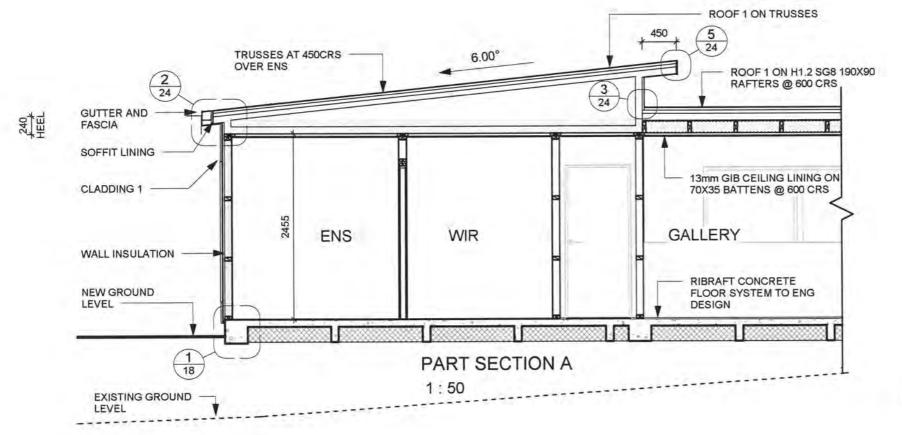
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ROOF PLAN

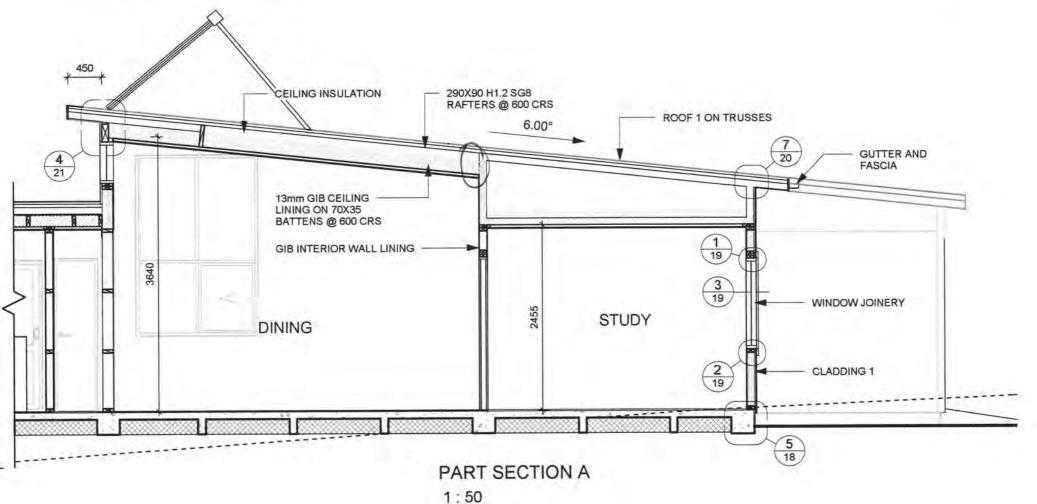
BUILDING CONSENT

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Date Rev Sheet (A3) 14 11090 **APRIL 2013**







- INSULATION "R" VALUES

 COMPLY WITH NZBC H1 AS1 & NZS 4218
 REFER TO SPEC FOR INSULATION TYPES
- REFER TO H1 CALCULATION SHEET

EXTERIOR WALLS = R2.6 BATTS GARAGE INTERIOR WALLS = R2.6 BATTS CEILINGS GENERALLY = R4.0 BATTS (R2.6 TO 150 RAFTERS)

SELECTED PRODUCTS

- THIS PAGE IS TO BE READ IN CONJUNCTION WITH SHEET 02 - CONSTRUCTION NOTES FOR ADDITIONAL INFORMATION
- CLADDING 1 12mm SHADOWCLAD PLY SHEET CLADDING ON 50x25 H3.1 TIMBER CAVITY BATTENS ON TEKTON WALL UNDERLAY AS PART OF THE TEKTON WEATHERIZATION SYSTEM ON FRAMING
- CLADDING 2 0.4 GAUGE TRAPEZOIDAL PROFILED METAL CLADDING ON THERMAKRAFT 215 WALL UNDERLAY ON FRAMING
- ROOF 1 0.4 GAUGE LONGRUN COLORSTEEL ENDURA TRAPEZOIDAL PROFILED METAL ROOFING ON THERMAKRAFT 215 UNDERLAY ON WIRE MESH ON PURLINS ON FRAMING
- SOFFITS 4.5mm HARDIFLEX
- · FASCIA TIMBER

WINDOWS

- GUTTERS COLORSTEEL BOX GUTTER 125
 DOWNPIPES MARLEY 80Ø ROUND
 WINDOW JOINERY POWDERCOAT ALUMINIUM RESIDENTIAL DOUBLE GLAZED
- . WINDOW FLASHING TAPE PROTECTO WRAP ONE PIECE SILL TAPE AS PART OF THE TEKTON WEATHERIZATION SYSTEM



Phone: 04 904 59 59

Rev	Date	Description
Propo	sed House	
for Es	ther & Pete	rson
142 Hu	iia St Waikana	ae
Lot 10	DP 226	552
	A.D)
ar	chit	ecture

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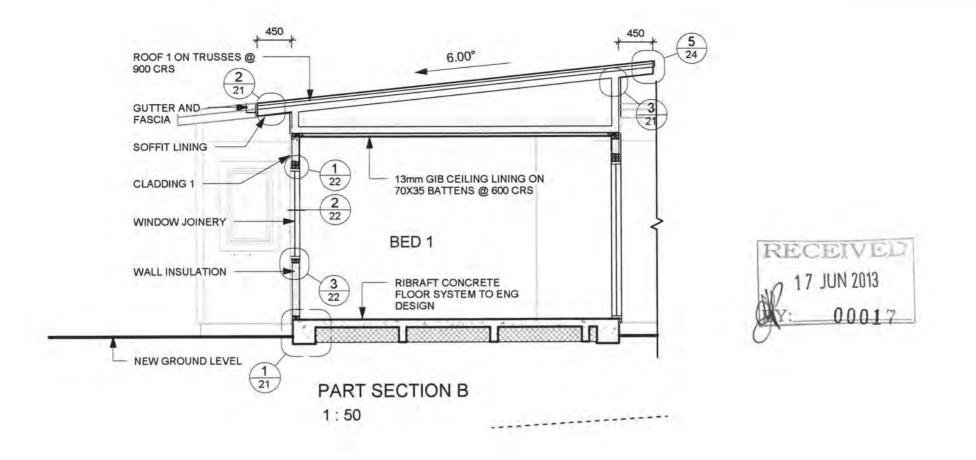
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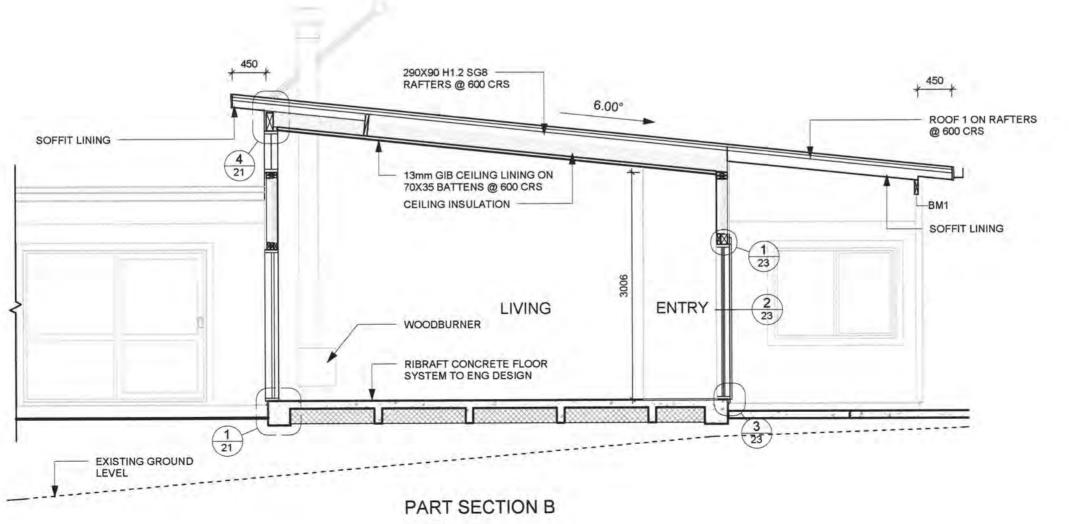
Date

APRIL 2013

Job

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- INSULATION "R" VALUES

 COMPLY WITH NZBC H1 AS1 & NZS 4218
 REFER TO SPEC FOR INSULATION TYPES
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- SELECTED PRODUCTS

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- SOFFITS 4.5mm HARDIFLEX
- FASCIA TIMBER

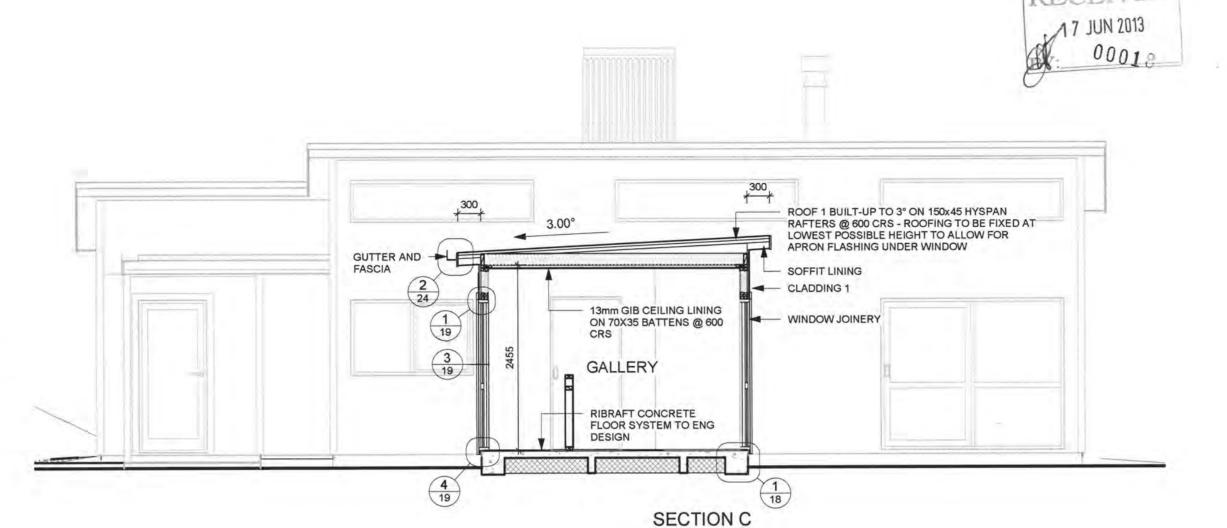
- GUTTERS COLORSTEEL BOX GUTTER 125
 DOWNPIPES MARLEY 80Ø ROUND
 WINDOW JOINERY POWDERCOAT
 ALUMINIUM RESIDENTIAL DOUBLE GLAZED WINDOWS
- WINDOW FLASHING TAPE PROTECTO WRAP ONE PIECE SILL TAPE AS PART OF THE TEKTON WEATHERIZATION SYSTEM

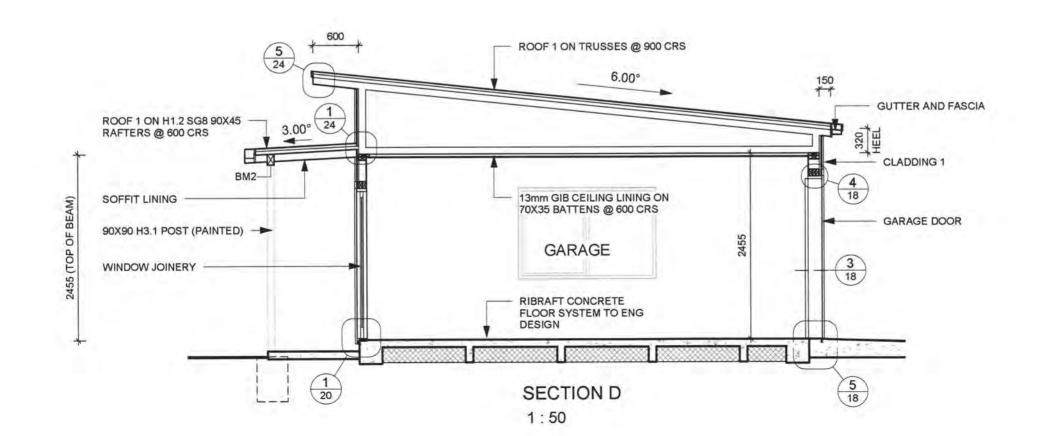


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298 5662	PO Box 1585, Paraparaumu I
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	ING SECTION
	oosed Ho esther & F Huia St Wa o DF A rch

BUILDING CONSENT

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- INSULATION "R" VALUES
 COMPLY WITH NZBC H1 AS1 & NZS 4218
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- SOFFITS 4.5mm HARDIFLEX
 FASCIA TIMBER
 GUTTERS COLORSTEEL BOX GUTTER 125
 DOWNPIPES MARLEY 80Ø ROUND
 MANDOW POLICERY POWDER COAT
- WINDOW JOINERY POWDERCOAT ALUMINIUM RESIDENTIAL DOUBLE GLAZED
- WINDOW FLASHING TAPE PROTECTO WRAP ONE PIECE SILL TAPE AS PART OF THE TEKTON WEATHERIZATION SYSTEM



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Date Description Proposed House for Esther & Peterson 142 Huia St Waikanae DP 22652 Lot 10

Tel: 04 298 5662

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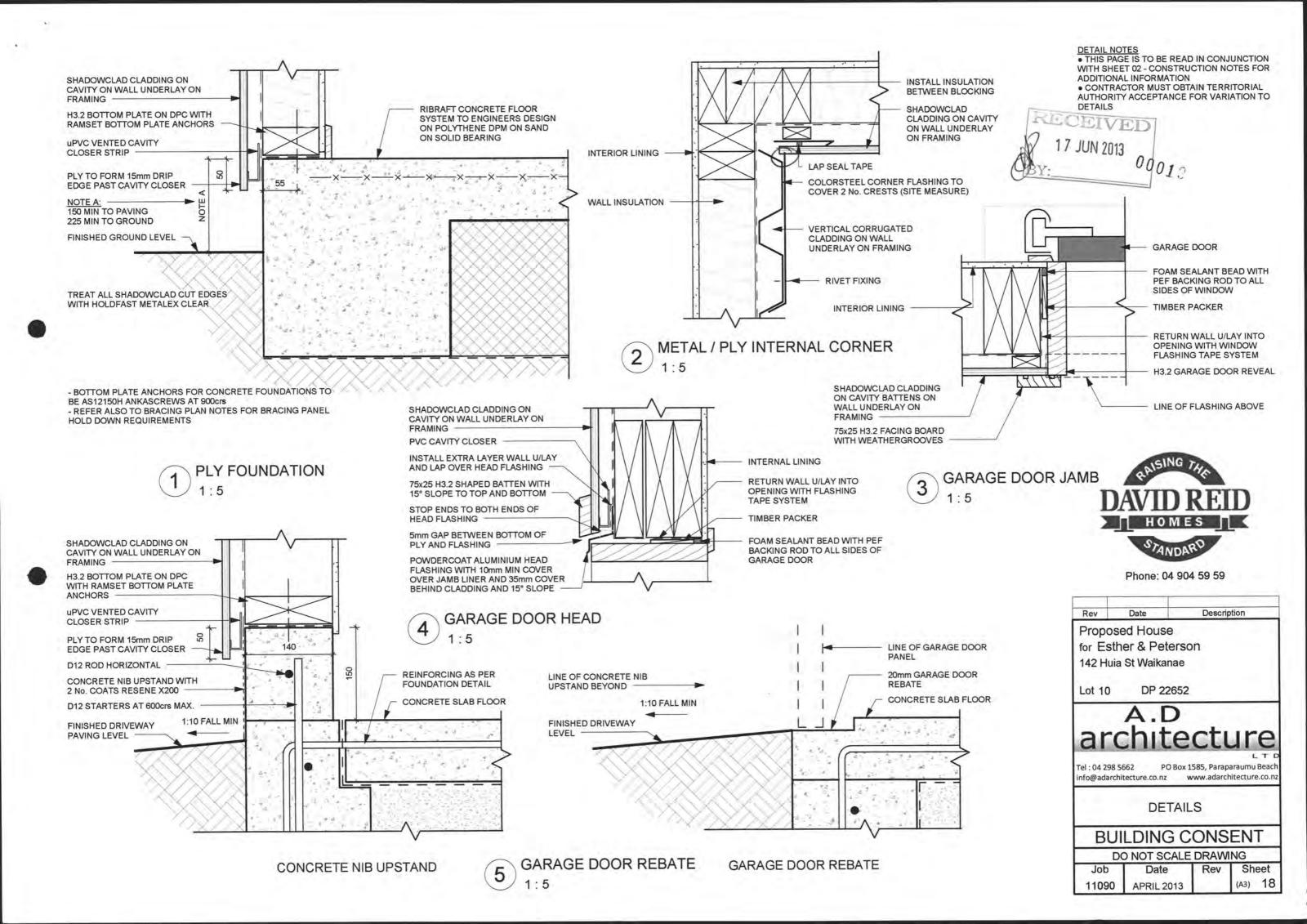
info@adarchitecture.co.nz

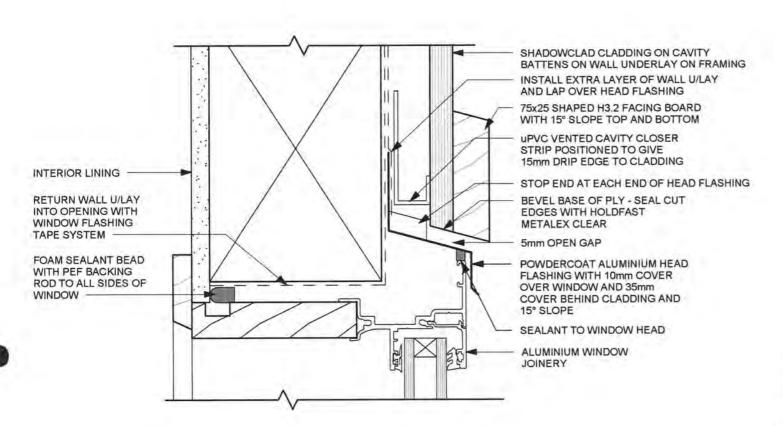
BUILDING SECTION

BUILDING CONSENT

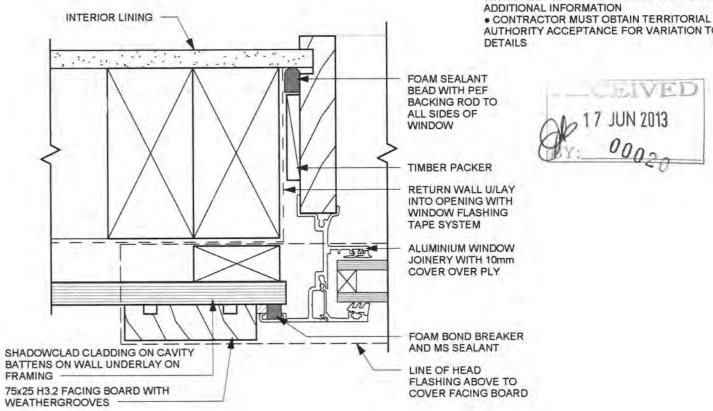
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PLY WINDOW HEAD



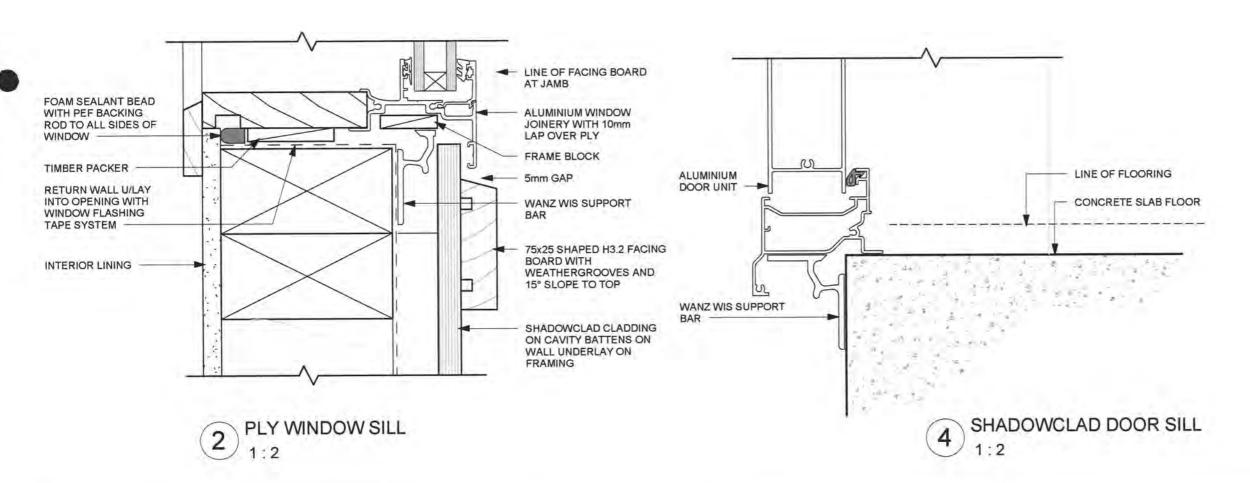
AUTHORITY ACCEPTANCE FOR VARIATION TO

DETAIL NOTES

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PLY WINDOW JAMB 3



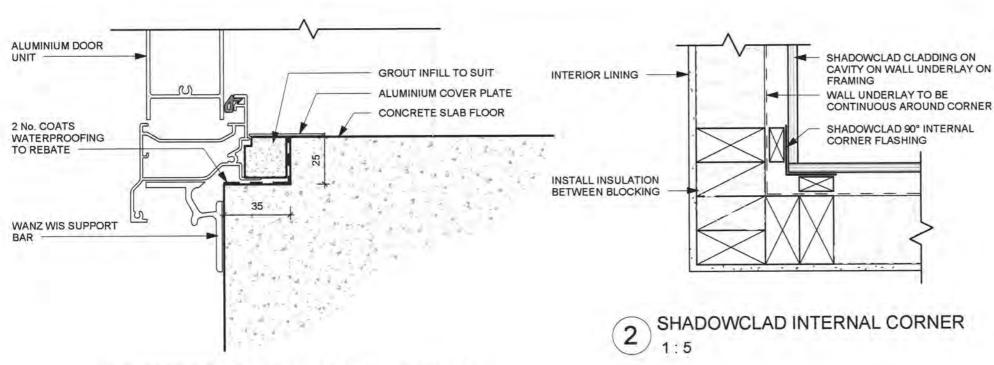


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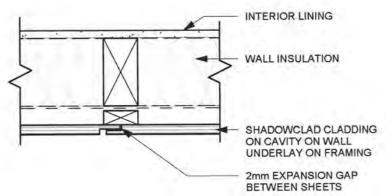


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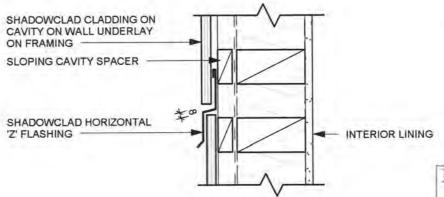
1 SHADOWCLAD DOOR SILL - REBATED



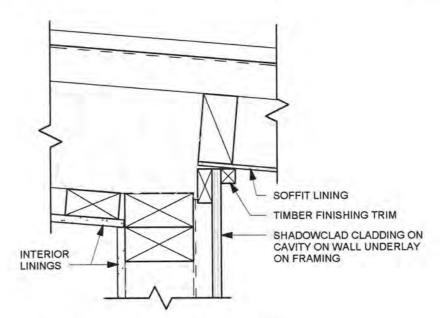
SOFFIT LINING

SOX50 FLASHING
INSTALLED ABOVE SOFFIT
AND IN FRONT OF
CLADDING
TIMBER FINISHING TRIM
SHADOWCLAD CLADDING ON
CAVITY ON WALL UNDERLAY
ON FRAMING

6 PLY / SOFFIT JUNCTION



6 HORIZONTAL SHEET JOINT

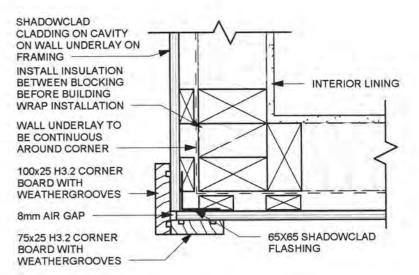


7 PLY / SOFFIT JUNCTION 1:5

DETAIL NOTES

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 CONTRACTOR MUST OBTAIN TERRITORIAL AUTHORITY ACCEPTANCE FOR VARIATION TO DETAILS



3 PLY EXTERNAL CORNER





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Proposed House for Esther & Peterson 142 Huia St Waikanae

Lot 10 DP 22652

A.D

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DETAILS

BUILDING CONSENT

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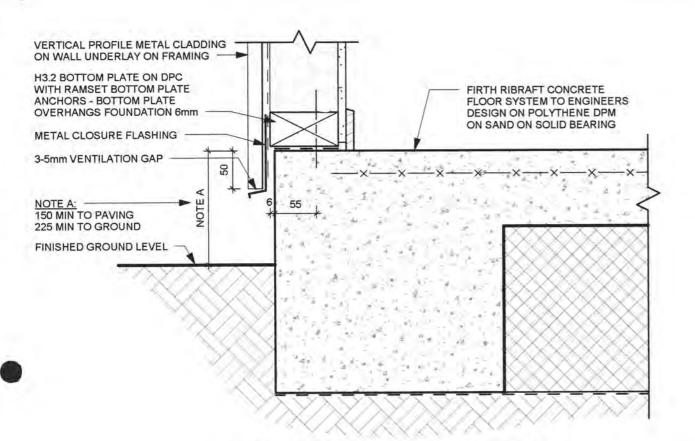
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Date

APRIL 2013

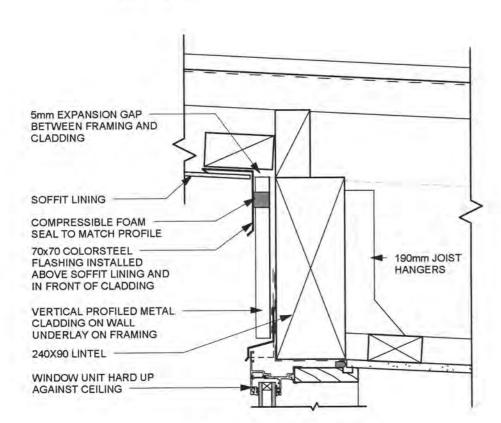
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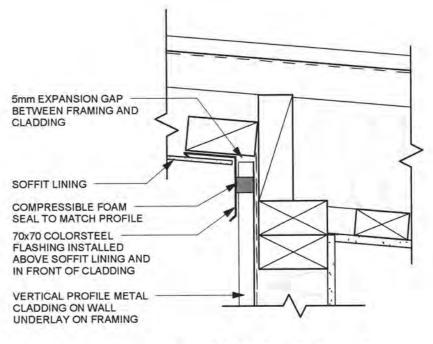


- BOTTOM PLATE ANCHORS FOR CONCRETE FOUNDATIONS TO BE AS12150H ANKASCREWS AT 900crs - REFER ALSO TO BRACING PLAN NOTES FOR BRACING PANEL HOLD DOWN REQUIREMENTS

VERT. METAL FOUNDATION



LINTEL JUNCTION



METAL / SOFFIT JUNCTION

RECEIVED

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5mm EXPANSION GAP BETWEEN FRAMING AND CLADDING

SOFFIT LINING

COMPRESSIBLE FOAM SEAL TO MATCH PROFILE

70x70 COLORSTEEL FLASHING INSTALLED ABOVE SOFFIT LINING AND IN FRONT OF CLADDING

VERTICAL PROFILE METAL CLADDING ON WALL UNDERLAY ON FRAMING

METAL CLADDING / SOFFIT NW 17 JUN 2013 INTERIOR LINING VERTICAL PROFILED METAL CLADDING ON WALL UNDERLAY ON FRAMING RIVET FIXING COLORSTEEL CORNER FLASHING TO COVER 2 No. CRESTS (SITE MEASURE) INSTALL INSULATION BETWEEN BLOCKING BEFORE WALL UNDERLAY INSTALLATION

INTERIOR

LININGS

METAL EXTERNAL CORNER 5

DETAIL NOTES

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 CONTRACTOR MUST OBTAIN TERRITORIAL AUTHORITY ACCEPTANCE FOR VARIATION TO DETAILS



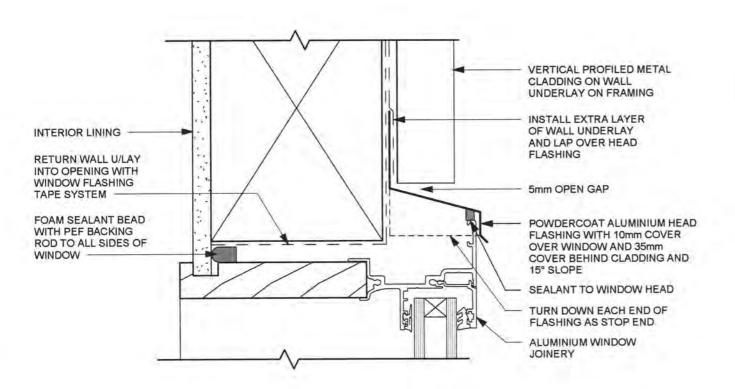
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Rev Date Description Proposed House for Esther & Peterson 142 Huia St Waikanae Lot 10 DP 22652 PO Box 1585, Paraparaumu Beach info@adarchitecture.co.nz www.adarchitecture.co.nz **DETAILS**

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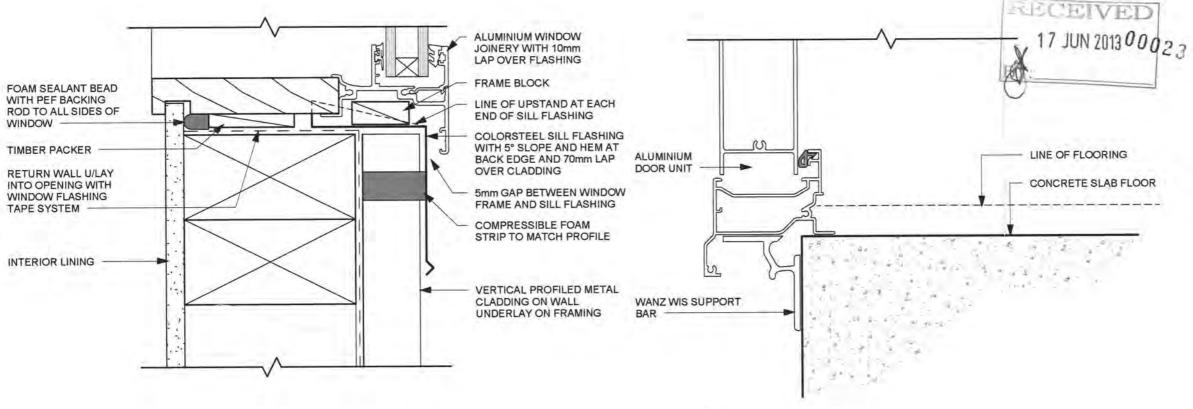
Job Date Rev Sheet (A3) 21 11090 **APRIL 2013**



ADDITIONAL INFORMATION INTERIOR LINING . CONTRACTOR MUST OBTAIN TERRITORIAL AUTHORITY ACCEPTANCE FOR VARIATION TO DETAILS 1. 2. 4 6 FOAM SEALANT BEAD WITH PEF BACKING ROD TO ALL SIDES OF WINDOW TIMBER PACKER RETURN WALL U/LAY 100 INTO OPENING WITH WINDOW FLASHING TAPE SYSTEM V SER 20 ALUMINIUM WINDOW METAL CLADDING ON WALL JOINERY WITH 10mm UNDERLAY ON FRAMING COVER OVER FLASHING COLORSTEEL UNDER-FLASHING LINE OF HEAD FLASHING COMPRESSIBLE FOAM SEAL STRIP ABOVE TURNED DOWN AT EACH END

1 METAL WINDOW HEAD

2 METAL WINDOW JAMB



VERT METAL DOOR SILL

DAVID REIL
HOMES

STANDARD

DETAIL NOTES

• THIS PAGE IS TO BE READ IN CONJUNCTION WITH SHEET 02 - CONSTRUCTION NOTES FOR

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Proposed House
for Esther & Peterson
142 Huia St Waikanae

Lot 10 DP 22652

A.D

Architecture

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DETAILS

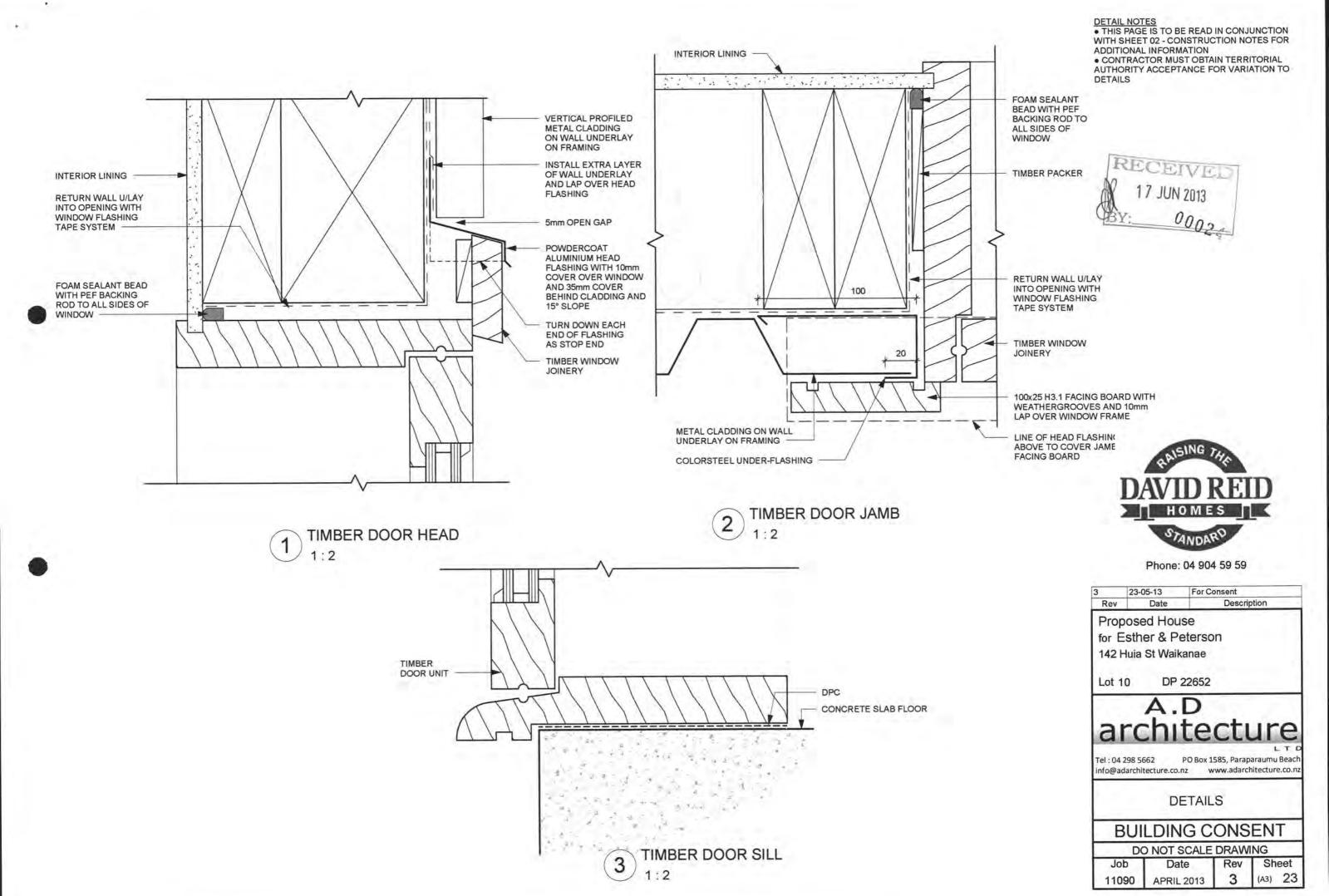
BUILDING CONSENT

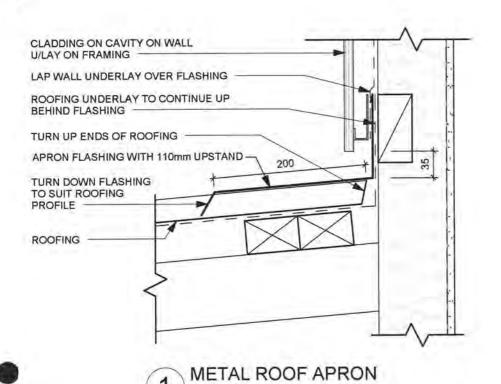
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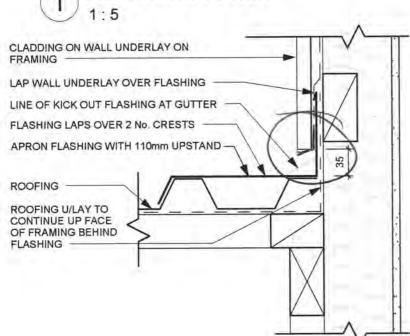
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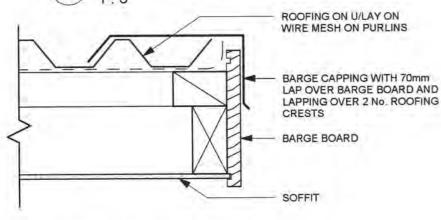
3 METAL WINDOW SILL



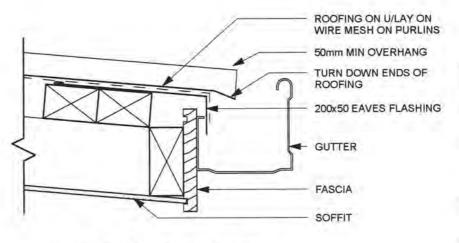




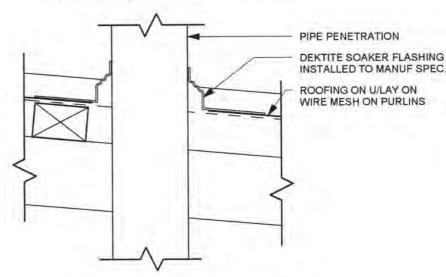
METAL ROOF PARALLEL APRON



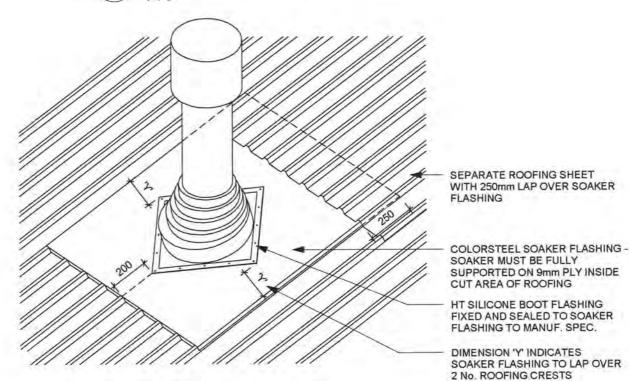
METAL ROOF BARGE



METAL ROOF EAVE



ROOF PENETRATION



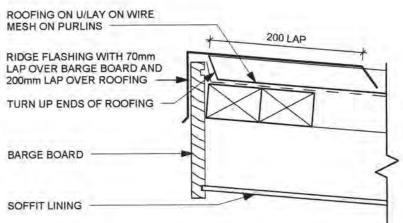
ROOF PENETRATION

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DETAIL NOTES

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METAL ROOF RIDGE

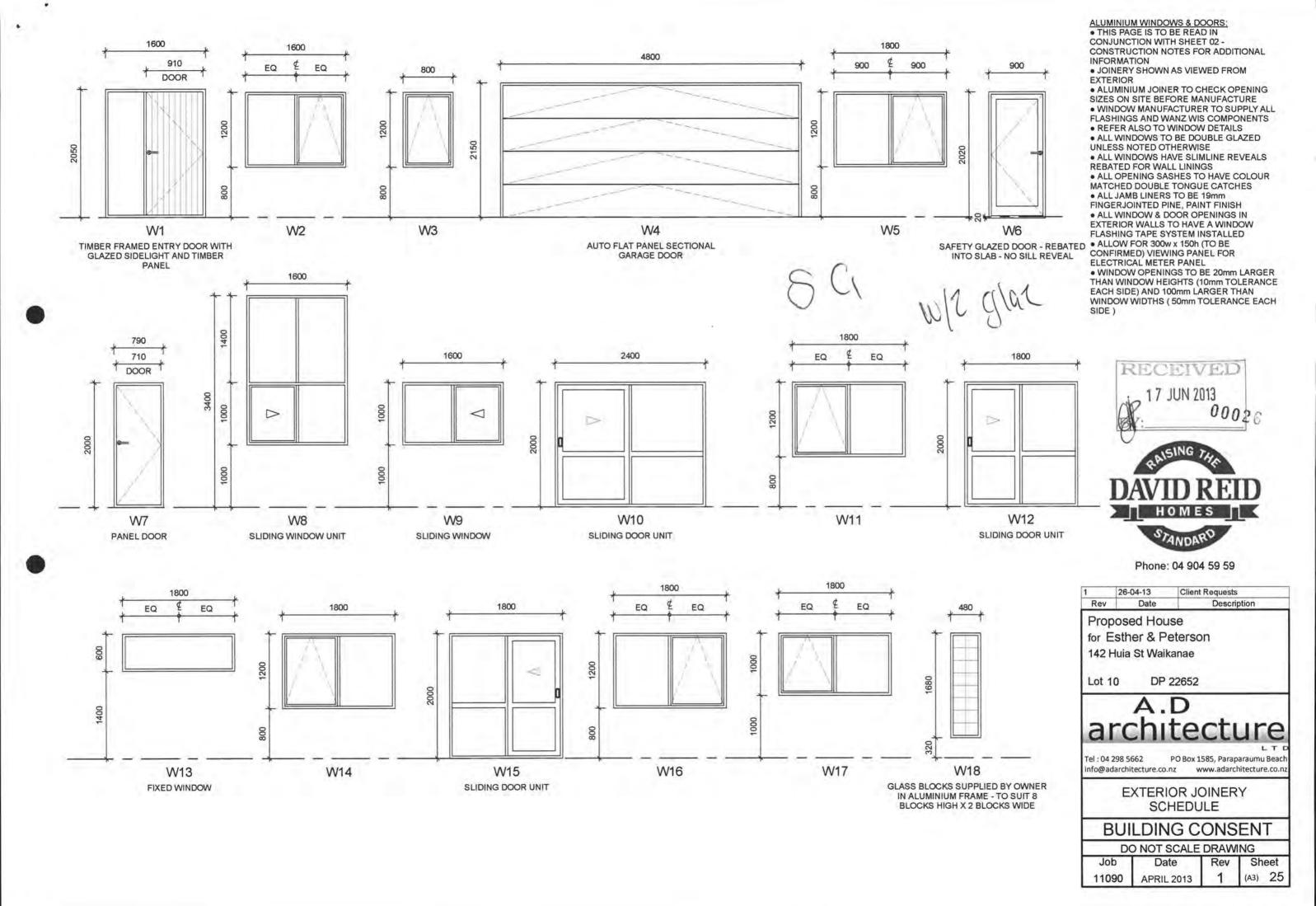


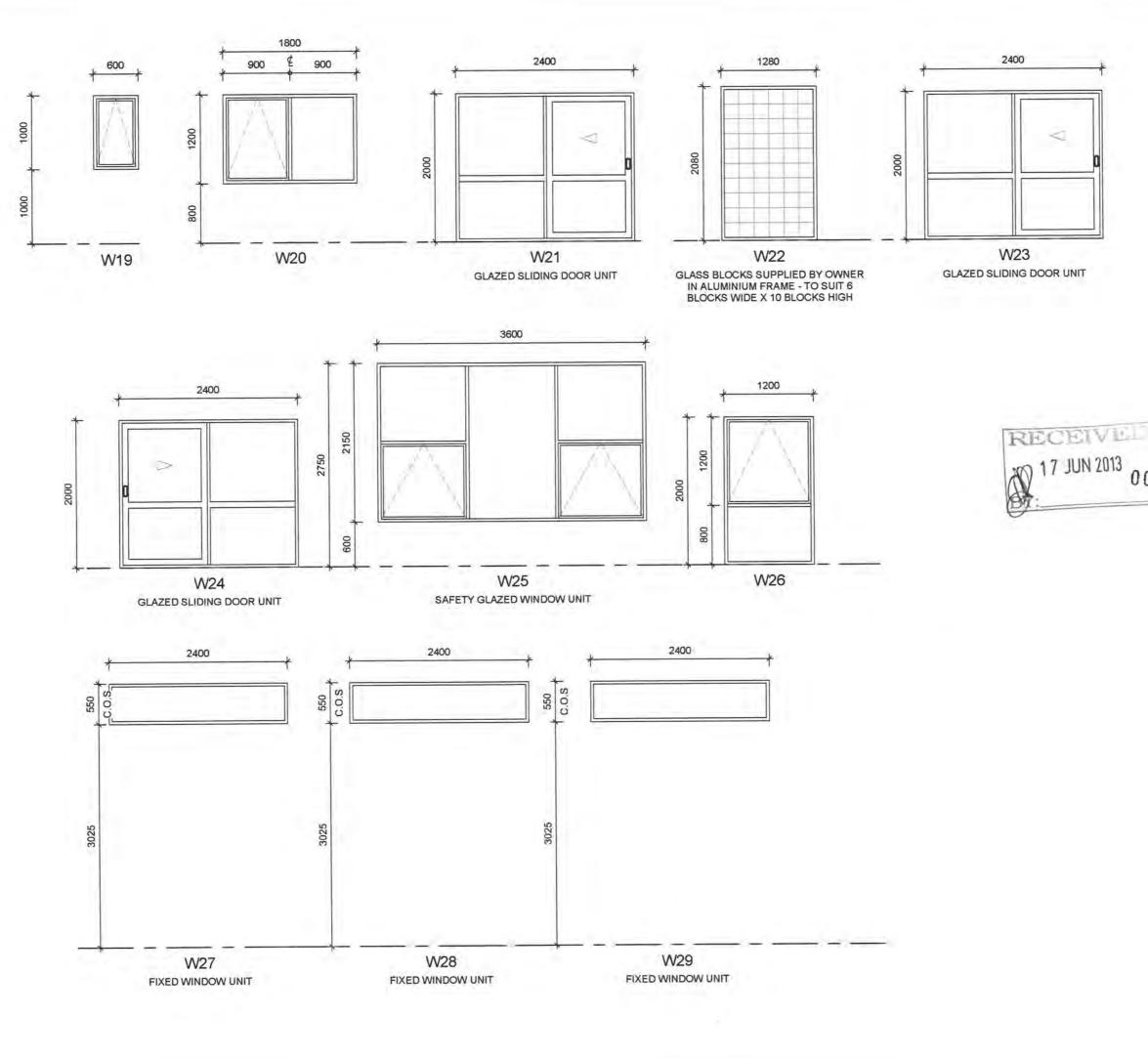
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Rev Date Description Proposed House for Esther & Peterson 142 Huia St Waikanae Lot 10 DP 22652 PO Box 1585, Paraparaumu Beach www.adarchitecture.co.nz info@adarchitecture.co.nz **DETAILS**

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ALUMINIUM WINDOWS & DOORS:

• THIS PAGE IS TO BE READ IN CONJUNCTION WITH SHEET 02 -CONSTRUCTION NOTES FOR ADDITIONAL INFORMATION

. JOINERY SHOWN AS VIEWED FROM

EXTERIOR

ALUMINIUM JOINER TO CHECK OPENING
 SIZES ON SITE BEFORE MANUFACTURE
 WINDOW MANUFACTURER TO SUPPLY ALL

FLASHINGS AND WANZ WIS COMPONENTS
• REFER ALSO TO WINDOW DETAILS

ALL WINDOWS TO BE DOUBLE GLAZED

UNLESS NOTED OTHERWISE ALL WINDOWS HAVE SLIMLINE REVEALS

REBATED FOR WALL LININGS

. ALL OPENING SASHES TO HAVE COLOUR

MATCHED DOUBLE TONGUE CATCHES . ALL JAMB LINERS TO BE 19mm

FINGERJOINTED PINE, PAINT FINISH

• ALL WINDOW & DOOR OPENINGS IN

EXTERIOR WALLS TO HAVE A WINDOW

FLASHING TAPE SYSTEM INSTALLED

 ALLOW FOR 300w x 150h (TO BE CONFIRMED) VIEWING PANEL FOR ELECTRICAL METER PANEL

17 JUN 2013

 WINDOW OPENINGS TO BE 20mm LARGER THAN WINDOW HEIGHTS (10mm TOLERANCE EACH SIDE) AND 100mm LARGER THAN WINDOW WIDTHS (50mm TOLERANCE EACH SIDE)



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30-04-13 Client Requests Description Date Proposed House

for Esther & Peterson 142 Huia St Waikanae

DP 22652 Lot 10

Tel: 04 298 5662 info@adarchitecture.co.nz

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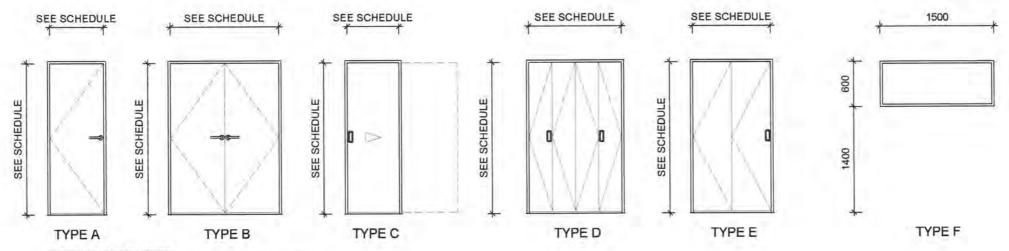
EXTERIOR JOINERY SCHEDULE

BUILDING CONSENT

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Sheet Rev Job Date (A3) 26 2 11090 **APRIL 2013**





INTERIOR DOOR NOTES

• INTERIOR DOORS TO BE AS PER DRH ADDENDUM
• REFER TO FLOOR PLANS FOR DOOR SWING
DIRECTION

				Interior Door Schedule		
MARK	TYPE	SIZE	OPERATION	FRAME MATERIAL	PANEL MATERIAL	COMMENTS
D1	С	810w x 1980h	Cavity Sliding	Timber Frame	Ribcore Panel - Steel 2 Sides	
D2	Α	760w x 1980h	Hinged Swinging	Timber Frame	Solid Panel	
D3	С	760w x 1980h	Cavity Sliding	Timber Frame	Ribcore Panel - Steel 2 Sides	
D4	Α	510w x 1980h	Hinged Swinging	Timber Frame	Ribcore Panel	
D5	С	910w x 1980h	Cavity Sliding	Timber Frame	Ribcore Panel - Steel 2 Sides	
D6	Α	810w x 1980h	Hinged Swinging	Timber Frame	Ribcore Panel	
D7	С	760w x 1980h	Cavity Sliding	Timber Frame	Ribcore Panel - Steel 2 Sides	BATHROOM PRIVACY LOCK
D8	В	2/310w x 1980h	Hinged Swinging	Timber Frame	Ribcore Panel	
D9	Α	810w x 1980h	Hinged Swinging	Timber Frame	Ribcore Panel	BATHROOM PRIVACY LOCK
D10	Α	810w x 1980h	Hinged Swinging	Timber Frame	Ribcore Panel	
D11	Α	810w x 1980h	Hinged Swinging	Timber Frame	Ribcore Panel	
D12	D	2/610w x 1980h	Bifold	Timber Frame	Ribcore Panel	
D13	E	2/510w x 1980h	Bifold	Timber Frame	Ribcore Panel	
D14	F	1500w x 600h	Interior Window	Timber Frame	Glazed panel	



Phone: 04 904 59 59

2	30-04-13	Client Requests
Rev	Date	Description
Prop	osed Ho	ouse
		Peterson
0.000	Huia St Wa	
Lot 1	0 D	P 22652

SCHEDULE

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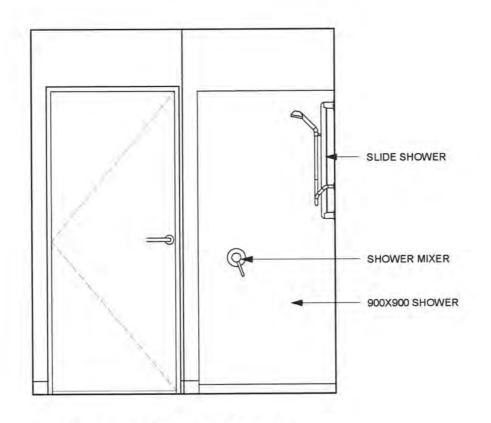
Date

APRIL 2013

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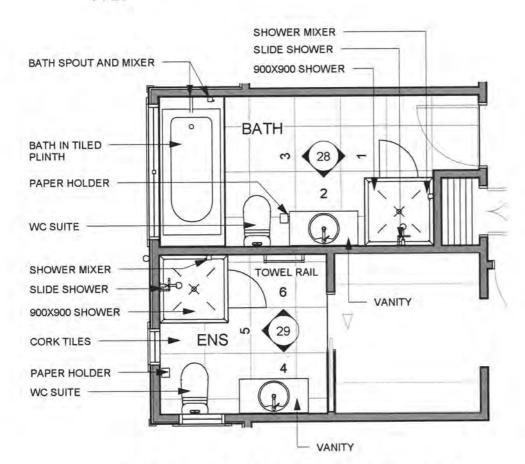
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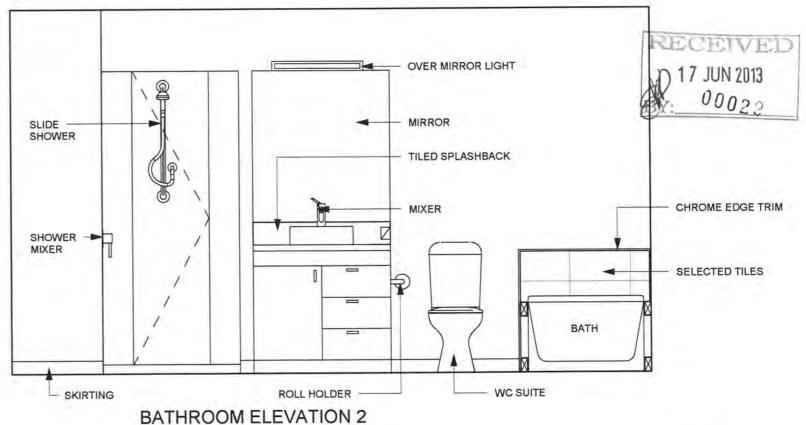
BATHROOM ELEVATION 1

1:25

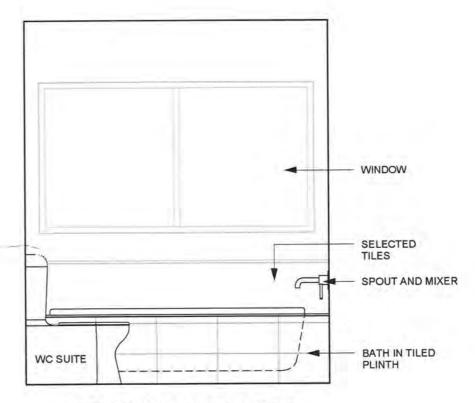


BATHROOM & ENSUITE FLOOR PLAN

1:50



1:25



BATHROOM ELEVATION 3

1:25



Phone: 04 904 59 59

2	30-04-13	Client Requests
Rev	Date	Description
for E	oosed Hou Esther & P Huia St Wail	eterson
Lot 1	10 DP	22652
2	rchi	tecture
a		LTI
Tel : 04		L T to PO Box 1585, Paraparaumu Beach
Tel : 04	298 5662 darchitecture.co	L T to PO Box 1585, Paraparaumu Beach

DO NOT SCALE DRAWING

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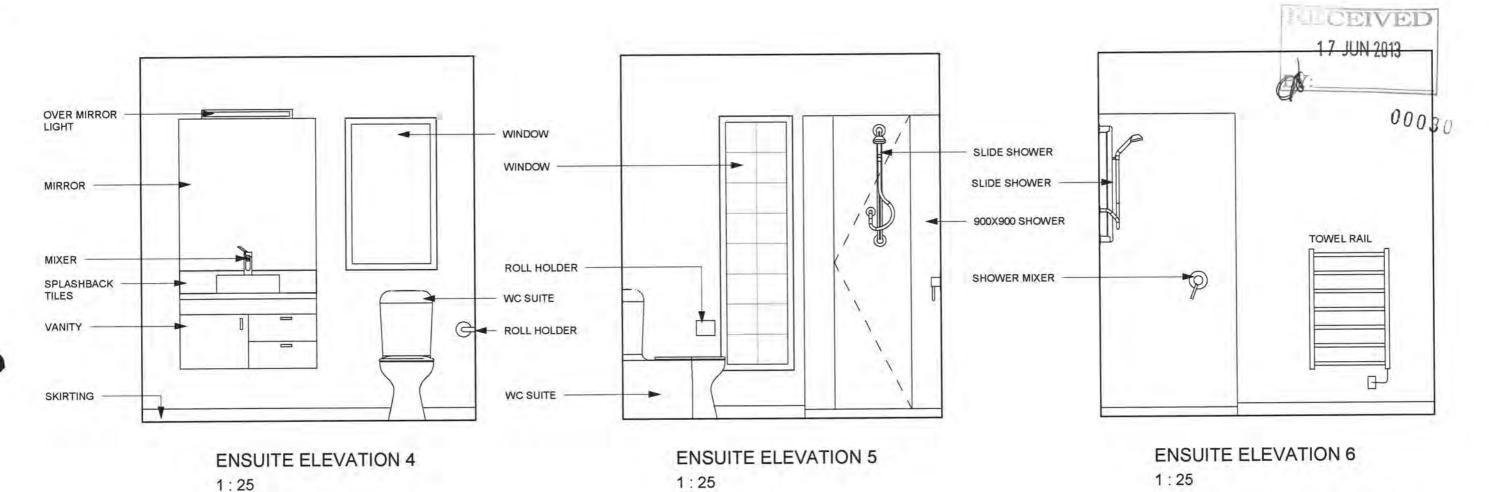
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Date

APRIL 2013

11090

Sheet



ACRYLIC PVC SHOWER LINING INSTALLED TO MANUF SPEC SHOWER LINING WITH SEALANT ONTO SHOWER TILE FINISH ON WATERPROOF TRAY TO MANUF SPEC MEMBRANE ON GIB AQUALINE ACRYLIC PVC MOULDED WALL LINING SHOWER TRAY TILE FINISH ON WATERPROOF MEMBRANE TO PLINTH BATH CONCRETE SLAB FLOOR SURROUND APPROVED FLEXIBLE SILICONE SEALANT BATH INSTALLED TO MANUFACTURERS SPECIFICATION

1 BATH / WALL JUNCTION 1:5

2 ACRYLIC SHOWER BASE

3 ACRYLIC SHOWER PENETRATION

WATER SUPPLY PIPES

ACRYLIC SHOWER

LINING INSTALLED TO

SHOWER MIXER WITH

INSTALLED TO MANUF

SEALANT BEAD

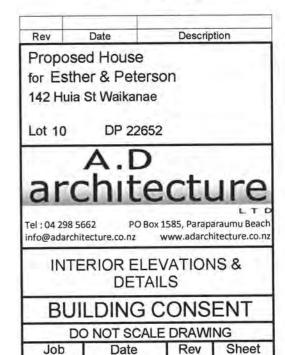
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WALL LINING

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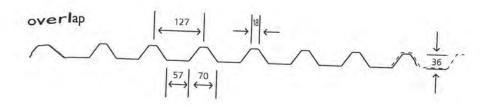


Phone: 04 904 59 59



APRIL 2013

2.1.4.3 (a) DIMOND LT7 PROFILE PERFORMANCE



Cover (mm)	889
Sheet width (mm)	933
Minimum Pitch	3° (approx. 1:20)

All dimensions given are nominal

Sheet Tolerances

Sheet width: ±5mm

Sheet width for aluminium +0, -15. If sheet cover widths are critical, advise Dimond at time of order.

Sheet length: +10mm, -0mm. For horizontal wall cladding where notified at time of order of intended use, tighter tolerances can be achieved +3mm, -0mm.

Material Options	Steel	
Thickness (BMT) mm	0.4	0.55
Nominal weight/lineal metre (kg/m)	4.12	5.55
Drape curved roof – min. radius (m)	80	50
Purlin spacings for drape curved roof (m) (1)	1.4	2.2
Machine crimp curved – roof min. radius (mm)	900	400
Unsupported overhang (2)	250	350

Alun	Aluminium	
0.7	0.9	
2.31	2.96	
80	50	
1.4	2.2	
n/a	400	
200	300	

	Duraclad	
1.7	(total thickne	ss)
	2.90	
	24	
	1.2	
	n/a	
	200	ń

(I) Recommended maximum purlin spacing at minimum radius

(2) Based on I.IkN point load support, but not intended for roof access. n/a - not available

Roll-forming & crimp curving facility at:

Palmerston North

Manufacturing location for Duraclad:

Auckland

Sheet lengths:

LT7 is custom run to order. Where long sheets are used consideration must be given to:

- special transportation licences for sheet lengths over 25m
- site access for special lifting equipment
- fixing techniques to accommodate thermal expansion. Refer Section 2.1.3.4.

2.1.4.3 (a) DIMOND LT7 PROFILE PERFORMANCE

overlap
$$\downarrow \stackrel{127}{\longleftrightarrow} \uparrow \stackrel{18}{\longleftrightarrow} \leftarrow \downarrow \stackrel{\frac{36}{36}}{\longleftrightarrow} \uparrow \stackrel{70}{\longleftrightarrow} \downarrow \stackrel{127}{\longleftrightarrow} \uparrow \stackrel{127}{\longleftrightarrow} \uparrow$$

Cover (mm)	889
Sheet width (mm)	933
Minimum Pitch	3° (approx. 1:20)

All dimensions given are nominal

Sheet Tolerances

Sheet width: ±5mm

Sheet width for aluminium +0, -15. If sheet cover widths are critical, advise Dimond at time of order. Sheet length: +10mm, -0mm. For horizontal wall cladding where notified at time of order of intended use,

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Alum	inium
0.7	0.9
2.31	2.96
80	50
1.4	2.2
n/a	400
200	300

Duraclad
1.7 (total thickness)
2.90
24
1.2
n/a
200

- (1) Recommended maximum purlin spacing at minimum radius
- (2) Based on 1.1kN point load support, but not intended for roof access. n/a not available

Roll-forming & crimp curving facility at:

Palmerston North

Manufacturing location for Duraclad:

Auckland

Sheet lengths:

LT7 is custom run to order. Where long sheets are used consideration must be given to:

- special transportation licences for sheet lengths over 25m
- site access for special lifting equipment
- fixing techniques to accommodate thermal expansion.
 Refer Section 2.1.3.4.

2.3.1 HANDLING AND STORAGE

Correct handling of profiled metal roofing and cladding products is critical to ensure damage does not occur during transportation and storage of the material. The following comments are made as guidelines to be used when inspecting Dimond Roofing and Wall Cladding Systems during the installation process.

Visual inspection of materials when they are delivered to the site should be carried out to ensure they are dry and free from damage. All components stored on site must be kept dry.

Site storage of sheet material requires dunnage evenly spaced to provide a surface for the materials to be placed on that is in plane.

Covers must be placed over the material to ensure it does not become wet during any storage period, and must remain clear of the material surface so air can circulate freely around the bundle. Product with strippable film applied must not be exposed to direct sunlight during storage.

The need to keep the sheets dry applies to all metal types. If aluminium is stored wet it will suffer black staining that detracts from appearance. If pre-painted Zincalume® products are stored wet, the paint finish will blister due to moisture absorption and eventual under-film corrosion. If unpainted Zincalume® products are stored wet, the surface will stain and can suffer loss of protection that will show up in time as premature corrosion. If the sheets have remained in this wet condition for more than 3 days, they should not be used.

If sheets do become wet and remained wet for less than 3 days, they must first be removed from the stack, immediately dried thoroughly and re-stacked with timber fillets being placed evenly between the sheets to ensure air can circulate freely over the sheet surfaces.

Sheets must always be lifted clear of the stack, never dragged.

Adequate support must be given along the length of sheets when lifting, whether it be single sheets by hand or bundles of sheets by crane or other lifting device. When lifting by mechanical means, spreader bars must be used to ensure the fabric strops do not damage the edge of the sheets as they are lifted.

2.3.2 LAYOUT AND FASTENING

The following comments are made as guidelines to be used when inspecting Dimond Roofing and Wall Cladding Systems during and after installation.

a. Netting

Netting should be run across purlins and tensioned to remove unnecessary sag. Fastening to timber should be with either galvanised staples or 25mm clouts avoiding contact with the roofing, and to steel with flat head screws.

Fixings should be at 150mm centres on end purlins in such a way that the netting cannot pull past the fixing. Edges of the netting should be tied together or twitched at 300mm centres and fixed to each purlin. Safety mesh should be installed to safety mesh manufacturers recommendations.

b. Roofing Underlay

Horizontal Application: underlay is unrolled across the roof parallel with purlins and secured as necessary. Joins should be lapped by a minimum of 75mm and supported on netting if roof pitch is below 8 degrees for self supporting and have the side edges supported on purlins.

Vertical Application: underlay is unrolled vertically up the slope of the roof from guttering to ridge and secured to the purlins as necessary before laying the roof sheet and fixing down. Joins should be lapped by a minimum of 150mm. Supports such as netting or safety mesh must be used on pitches below 8 degrees, or when using self supporting underlays on purlin spacings greater than 1200mm.

When used under roofing, all underlays must be supported on wire netting or strapping at 300mm maximum spacings. Self sufficient underlays can be used on purlins spacing up to 1200mm without support.

Underlay should overlay into the gutter at least 20mm and not more than 50mm, and avoid lapping into the water flow.

Maximum single underlay sheet lengths shall be 10m for bituminous and fire retarded kraft papers. Longer runs are to be end lapped 150mm. Synthetic underlays have no limit on their run length.

In general it is recommended that prolonged exposure of the underlay to the weather is avoided by fixing the roofing over the same day. Always follow underlay manufacturers recommendations.

c. Roofing and Cladding Sheets

Supporting Structure

- Roofing and wall cladding sheets should not be installed until the roofing contractor is satisfied that the support structure is complete, sound, and correctly aligned. This includes support around penetrations and openings.
- Purlin and girt spans both end and internal spacings must be in accordance with Dimond recommendations for profile, metal type and thickness, as well as the expected level of foot traffic. If in doubt, check.
- Curved roofs(whether draped/rolled or crimped) require purlin alignment within ±5mm to minimise the risk
 of unacceptable finished appearance.
- Spacers must be fixed to steel purlins to allow insulation to fit between and to create a 25mm air gap between underlay and insulation. Do not compress the insulation.

Where the building is under the scope of E2/ASI there is a requirement to install horizontal wall cladding onto a cavity batten system to achieve a 20mm air space between the back of the cladding and wall framing on all walls in accordance with NZBC E2/ASI. Dimond profiles that come within the scope of E2/ASI are: Corrugate, Styleline, VeedekTM, DD300, DD400 and V-Rib.

Vertical run cladding does not require a cavity batten system on any risk matrix wall provided the details and installation is carried out in accordance with recommendations in this manual, which are based on past history where Dimond profiles have successfully been fixed.

Installation in this way will not be in accordance with E2/ASI: June 05 and is an alternative solution.

Continued on next page ...



2.3.2 Continued

Sheet Layout

- Firstly, the sheet should show no signs or evidence of transport damage or storage damage including wet storage effects. If the sheets are damaged they must not be fixed down, and the Dimond supplying branch should be informed as soon as possible.
- Care should be taken to ensure sheets are laid parallel to the lines of building ends, and perpendicular to
 ridges and gutters. If possible, the direction of laying should be such that the sheet side laps face away
 from the prevailing wind direction, or, in the case of wall cladding, away from the most common line of
 sight.
- Side laps must be properly engaged such that the overlap rib fits correctly over the underlay without obvious gaps or insufficient cover.
- Roofing sheets should run continuously from ridge to gutter, avoiding end laps. Long lengths separated for
 thermal expansion or handling reasons should join at a step in the roof. Where end lapping of straight and
 curved sheets cannot be avoided, a correctly formed 150mm minimum sealed lap is required, with a bead of
 neutral curing silicone sealant each end of the lapped sheets.
- Sheet ends should form an even line (within a workable tolerance) and roof sheeting should overhang into
 gutters by at least 50mm and must allow clearance to enable ease of gutter cleaning.

Sheet Ends

- All roofing and wall cladding sheet ends that terminate under flashings (regardless of pitch) should be
 formed with a full vertical dog-eared stop end to the full height of the profile rib. Where a full height dog-eared
 stop end cannot be achieved, a pull up stop end a minimum 28mm high on all profiles excluding Corrugate
 must be provided in conjunction with foam profile closures.
- · For roofs below 8 degrees pitch the drip edge sheet end should be formed with a down turned lip.

Sheet Fastening

- Sheet must be fastened to every purlin (or girt) to transfer outward loads evenly to every structural member.
- The fastener system used should meet specification requirements and have a durability to at least match that
 of the sheeting, and be in accordance with Dimond literature for that profile.
- Fasteners must be perpendicular to the sheeting and tightened sufficiently to effect a durable seal without
 over tightening that results in seal washer distortion or profile crest dishing and depressing. Fixings must be
 to a line.
- Concealed clips used to fasten Dimondek 300, Dimondek 400 and Dimondek 630 products should not exhibit screw or nail head protrusion such that damage to the roof sheet and coating may result.
- Whenever oversize holes are required to accommodate expansion, profiled washers and seals must be used.
- Profiled washers and seals should be used whenever specified to provide extra wind uplift capacity.
- Note should be made to ensure there are sufficient fasteners, evenly distributed. In particular the perimeter
 zones of roofs, where maximum wind uplift occurs, must have sufficient fasteners.
- No areas on the roof should hold water that will cause ponding long term. The structure may require realignment and if the profile is damaged, this should be replaced.

Wall Cladding Underlay

- Can be laid either horizontally on steel girts or vertically on timber studs.
- When run horizontally lap upper sheet over lower sheet a minimum of 75mm. Adequately secure to framing at 300mm centres. When installed in high wind areas fix through a reinforced tape such as Danband branded polypropylene tape.
- Run lengths to be no greater than 10m.
- End laps to be no less than 150mm over study of vertical joints.
- The underlay should be pulled taut as possible.
- Best practise is to Clad on the same day as the installation provided the product is kept dry and undamaged.
- Maximum period that the underlays are exposed to the weather is contained in Underlays manufacture literature.

Continued on next page...



2.3.2. Continued

Side Lap Fastening

All metal profiles must have side laps fastened (either by primary fasteners through to the purlins, or by stitching the top sheet to the underlay sheet) to comply with the following maximum spacings.

Material	Thickness (mm)	Maximum Side Lap Fastener Spacing (mm)
Steel	0.40	1500
	0.55	2000
	0.75	2400
Aluminium	0.70	1500
	0.90	2000
Duraclad (GRP) Rib height 30mm or less	1.7	750
Duraclad (GRP) Rib height greater than 30mm	1.7	1000

Wall Cladding Side Lap

Side lap stitching on pan fixed wall cladding is recommended to improve the lap weather tightness, when the distance between fixings is greater than 1.5m. Side lap fixings should not exceed 750mm centre to centre.

The recommended side-lap fasteners for stitching sheets together are:

Metal Sheeting

 10 - 16 x 16mm
 Hex head
 Tek® screws

 10 - 12 x 20mm
 Hex head
 Type 17 screws

Duraclad

Bulb - Tite Rivet

or Bolt and compressible rubber sleeve

d. Duraclad

The above comments for roofing and cladding sheets generally apply. Additional attention should be given to:

- Stop ends should be correctly formed by attaching a metal (usually aluminium) folded angle to the sheet end, and sealing it in place.
- The supporting structure must be free of abrasive surfaces or irregularities. If used over netting or safety
 mesh, a barrier strip must be installed to prevent abrasive damage to the sheet surface.
- Fastening of Duraclad requires pre-drilling of the sheet with a hole size that is at least 2mm greater than the
 fastener diameter. Additional hole size may be required to accommodate thermal expansion of the sheeting.
- 32mm Weatherlok washers must be used as specified.
- Provision should be made during installation to enable foot traffic movement across the roof without applying
 point loads to the Duraclad sheeting. Planks or temporary walkways are recommended.
- Safety Mesh must be installed underneath Duraclad if the sheet thickness is less than 1.7mm. (If general foot traffic is expected, consult Dimond for the use of products specifically designed for the purpose.)

e. Natural Lighting Products

Refer to Section 2.4.1.3 for installation of these products.

2.3.3 FLASHINGS / PENETRATIONS

The following comments are made as guidelines to be used when inspecting Dimond Roofing and Wall Cladding Systems during and after installation.

Material

Must be the same material and coating as the roof or wall cladding to give a similar durability and compatibility as the roof/wall system.

Fabrication

Flashings should be fabricated to achieve sufficient cover width and to maintain falls to avoid water ponding. They must be without noticeable micro-cracking and be fixed without damage such as dings or crushing, and should be free of scratches and swarf the same as for roofing.

Flashing joins must be sealed at both ends of the lap, and the fasteners must pass through the sealant at the leading edge. Spacing of fasteners should be no greater than 50mm apart. Laps to be 150mm min.

Fastening

Wherever possible, flashings should be screw fixed through to the supporting structure, with sufficient slope or fall to ensure ponding does not occur. Stitch screws should be the preferred means of attaching flashings to sheeting ribs. If aluminium rivets are used, the minimum size should be 4.8mm diameter.

All fasteners should be of sufficient size and frequency to withstand the loads that may be applied through wind uplift or thermal expansion, throughout the life of the roofing material. As a guide, where flashings cover the roof, use the same fastener that has been used to fasten the roof.

As a guide, the fastener frequency for fixing flashings should be:

Wind Zone*	Fasteners Per Metre
Low (32 m/s)	
Medium (37 m/s)	2
High (44 m/s)	3
Severe (50 m/s)	4

^{*}in accordance with NZS 3604

Sensible allowance should be made to allow relative thermal expansion between flashings and sheeting if sheet lengths exceed 12m.

Expansion joints in the flashings should be considered for steel flashings greater than 18m and aluminium flashings greater than 12m in length.

Flashing lapping over roofing should be in accordance with Table 2.1.O of Section 2.1.3.6 in this manual. Where barges meet the gutter, this must be closed off to ensure wind driven moisture and birds cannot enter the building.

2.3.3 Continued

Profiled Foam

Profiled foam sealing strips should be installed when specified at the top end of the sheet, adjacent to the stop end. To help keep the strips in place it is good practice to position them on a bead of silicone sealant.

Notching

Best practice to notch flashing downturns around sheet profiles is to mark in-situ and use a rib-shaped template. Clearance gaps around the rib should be just sufficient to prevent cut edge contact with the sheet surface. Gaps between Imm and 3mm are generally considered satisfactory.

Soft edging can be used on corrugate and low rib profiles with rib heights up to 30mm and should be neatly pushed down and formed in to the profile pans to achieve a neat-tight fit.

Property boot pipe flashing

Property boot pipe flashings must not be positioned in such a way that a dam is formed across a water channel. It is preferred that Property boot pipe flashings are positioned on the 'bias' rather than square across the sheet. If the pipe and Property boot pipe flashing dam up the pan or restrict more than 50% of the water flow around the pipe and flashing, an additional cover over flashing to the ridge and sealing of the Property boot pipe flashing to this flashing should be considered. Excess silicone sealant should be avoided, as it will add to the risk of water ponding

Penetrations

Penetration holes with their major dimension or diameter greater than 150mm must have support framing placed around the perimeter of the penetration holes.

Water diversion around the penetration must not cause an overload of the receiving channel such as the pans that the water has been diverted into, which may cause flooding. Penetration flashing shall not rely solely on the silicone sealant to achieve weather tightness of the flashing.

2.5.4 GENERAL WORKMANSHIP

The following comments can be used as guidelines to be used when inspecting Dimond Roofing and Wall Cladding Systems during and after installation.

Roof Access

The means of access must be safe and secure, and should provide protection to the sheeting at the access point. Provision for cleaning or changing footwear to prevent the transfer of dirt onto the roof surface is recommended to minimise the risk of surface scratching damage.

Walking on Roofs

Soft, clean (free from dirt and clay) light coloured sole footwear must be worn. Foot placement should be close to purlin lines, and point loads should not be applied to profile ribs through careless weight distribution while walking. Avoid foot placement on the underlay edge of roof sheets.

Translucent or Natural Lighting sheet must not be walked on.

Subsequent Trades

The work habits of trades accessing the roof must be controlled to avoid unnecessary damage from foot traffic, swarf, and storage of materials. Installed roofing that will be subject to further use (or abuse) during building construction should be protected by covers or temporary walkways. Care must be taken to protect and avoid scratching of the paint finish. The placement of scaffolding legs onto a roof should be avoided unless there is adequate support and protection to the roof finish to avoid damage. Penetration flashing should be placed as close to the ridge as possible to avoid large catchment areas upstream of the penetration. All penetration flashings should be done in accordance with the MRM Roofing Code of Practise.

Dissimilar Materials

Care should be taken to ensure that incompatible materials have not been used, particularly through the installation of walkways and air conditioning equipment. Copper pipe must not discharge or allow water run-off onto the metal roof. Where necessary, water run-off from dissimilar metals should be contained and discharged separately from the roofing material.

Wall cladding lapping onto concrete tilt slab or block walls must not contact the concrete. A small gap, such as 5mm, between or isolation strip is recommended.

Drilling and Cutting

When metal sheets require cutting, only shears, powered nibblers or hand snips should be used to leave a cleanly cut sheared edge. Any form of disc cut will nullify the material warranty.

Cutting of Duraclad sheets can be with an abrasive disc or a fine tooth saw. Breathing protection should be worn to prevent inhalation of dust.

Cutting and drilling should be carried out clear of other sheeting material, and the drilling swarf immediately removed from the surrounding sheet surface.

Coil on cut edge protection lacquer may be required to be painted on all cut edges in severe marine area to meet warranty requirements. Check with Dimond.

Swarf

The particles of metal that result from cutting, drilling or self-drilling screw placement can adhere to the sheet surface and rapidly corrode, causing staining problems. The sheet durability is not affected provided the swarf particles have not penetrated the coating. Loose swarf must be removed without damage to the metal surface at least at the end of each day's work including swarf driven by wind up under barge or apron flashings.

Remaining adhered swarf may be best left alone, provided no particles have broken the coating surface and the visual effect is acceptable. Roofs with heavy deposits of swarf or where the coating has been broken may require the affected sheets to be replaced.

It is best trade practice to clean up after each day's work to avoid swarf damage.

2.3.4 Continued

General Appearance

Screw fasteners should be installed to a straight line (staggered for lapped purlins). Extra care on wall cladding is required to achieve this. Flashings should run parallel with profile ribs or the building line.

Sheet side laps should not exhibit excessive gaps, which can be controlled by careful sheet layout and side lap stitching if necessary.

Water Ponding

The installed roof and flashings must not exhibit water ponding. Buckling of profile pans caused by poorly formed lip downturns at gutter lines is a particular area of potential ponding that should be checked.

Sealants

Only neutral cure silicone sealants should be used. All sealed joints must be mechanically fastened, and excess sealant removed to prevent unnecessary dirt buildup.

Joints in flashings or roof plane intersections should not be constructed in a way that relies entirely on sealant to remain weather secure. Sealant should only be used to seal between two metal surfaces, not fill holes or gaps.

Cleaning on Completion

All forms of debris must be removed daily from the roof surface to prevent scratching damage and moisture or dirt retention. On completion the roof should be thoroughly washed down and then inspected for any damage and any necessary remedial work carried out.

Strippable Film

Protective films must be removed within 1 day of product installation. Prolonged UV exposure will make removal difficult. The film must be removed from laps and under flashings during installation.

Scratches and Touch-up

Scratches that have not penetrated to the base metal (on coated materials) and minor surface abrasions should be left alone, as touch up painting will become obvious in time.

Sheets with heavy scratch damage (e.g.: scratches readily visible from a 3-metre distance that expose the base metal) should be replaced.

Buckled Ribs

Minor buckles that have occurred in profile ribs and will not retain water can be left alone. More severe buckles that will retain water or weaken the sheet should be pushed out from underneath, or be capped over with a rib section extending a minimum 50mm beyond the damaged section, fully sealed with silicone sealant and held onto the roofing rib with 4mm diameter blind aluminium rivets each side.

Major buckles that affect more than 1/4 of the ribs in line across any sheet will cause a severe loss of strength, and in such cases the sheet must be replaced, ie if more than 2 adjacent ribs are buckled on the same purlin line, the sheet's ability to hold load is reduced and it must be replaced.

2 1 JUN 2010

PO BOX 1784 PALMERSTON NORTH NEW ZEALAND PHONE: 64 6 357 8426 FAX: 64 6 357 8726 emall:davemiller@xtra.co.nz www.davemiller.co.nz

16 June 2010

Kapiti District Council Private Bag 601 Paraparaumu 5254

ATTENTION: SIMON COPP

PETERSON HOUSE - 142 HUIA STREET - WAIKANAE

Dear Sir,

Please find attached two copies of the wastewater report for the new sewage treatment system for the Peterson property at 142 Huia Street, Walkanae.

Please do not hesitate to contact me should you require further assistance or clarification.

Yours faithfully

Dave Miller

Environmental Engineer

enclosures.

AWAGE TREATMENT AND EFFLUENT SYSTEM IS TO BE PERVISED AND CERTIFIED BY THE DESIGNING RSON. A COPY OF CERTIFICATION IS TO BE RWARDED TO COUNCIL.

20/07/2010

PO BOX 178

PALMERSTON NORTH

NEW ZEALAND

PHONE: 64 6 357 8426

FAX: 64 6 357 8726 email:davemiller@xtra.co.nz

www.davemiller.co.nz

PETERSON HOUSE

142 HUIA STREET

WAIKANAE

WASTEWATER REPORT

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10 June 2010

CLIENT Dana Peterson CONTACT: Dana Peterson JOB DETAILS: LPED Syphon System Designed by DAVE MILLER Environmental Engineer

INTRODUCTION

This design relates to a bedroom house being built on . The water supply will be provided by a pressure pump from water storage tanks.

Test holes dug in the area of the proposed effluent disposal area reveal of 200 to 300mm of topsoil overlaying a stony clay base which is consistent with soll category 5 as defined in AS/NZS 1547:2000 being a poorly drained light clay requiring a specific engineering design.

Traditional gravity septic tank systems in this area have a history of poor performance largely due to the effluent trenches being constructed below the water table or in the clay layer where the soakage is minimal. This, together with the known faults of traditional septic tank systems, namely, septic tank studge sealing the natural pores in the ground and gravity fed effluent overloading the soil around the point of entry, have resulted in many septic tank systems failing.

This design seeks to extend the life of traditional septic tank soakage trenches by filtering the effluent and evenly distributing it throughout the effluent trenches using a Low Pressure Effluent Dosing (LPED) system. The effluent will be filtered and demand dosed by an Orenco (OSI) automatic dosing siphon to filter the effluent and distribute it evenly into the topsoil. OSI flow control assemblies are required at the beginning of each trench.

The design criteria is based on AS/NZS 1547:2000 for a 1 bedroom cottage (with 2 occupants) and a 4 bedroom house (to be built at a later date) with up to 6 occupants, each using 140 litres of water per day, giving a total wastewater usage of 1120 litres per day. The effluent disposal area is 400 square metres giving a design loading rate (DLR) of 2.8 litres per square metre per day.

The effluent trenches can be extended in the future if desired or required and a reserve area, of equal size, should be set aside for this purpose. Similarly a secondary sewage treatment system can be added to the septic tank to produce a colourless, odourless effluent. Both the secondary treatment system and/or trench extensions are additional to the work required for this installation

WASTEWATER DESIGN

- 1. The new septic tank shall be 8000 litres in capacity fitted with an ORENCO effluent filter with a sealed access riser brought to the surface. This design incorporates the innoflow 'Designer' program which uses an ORENCO ('OSI') screened syphon to protect the effluent beds from carry over solids and evenly dose load the effluent trenches. The 'OSI' filter screen reduces the total suspended solids (TSS) from the septic tank to 33 parts per million. Tests from over 4800 septic tanks over a 15 year period confirm the reliability and validity of this filters performance. As this is a proprietary system specifically designed for Orenco products substitution of other brands of effluent filter is NOT permitted.
- Install an ORENCO automatic dosing syphon in the septic tank as detailed in the manufacturers installation instructions (attached).
- Install the 80ø transport line as per the manufacturers instructions (attached) ensuring there that no air locks can form in the pipeline.

- 4. The effluent disposal trenches are to be 8 x 25 metre trenches spaced 2 metres apart as shown on the accompanying plans. This disposal system can also be extended in size in the future if desired or required. The trenches are 200mm deep and 200mm wide with the 32ø pressure pipe laid inside 110ø Novaflow. The Novaflow must be covered with a permeable shade cloth which prevents soil being washed into the Novaflow and is also sufficiently permeable to allow the circulation of air Flushing points situated inside fresh air inlets are to be located at the end of each lateral.
- 5. The laterals are drilled with evenly spaced 3mmø squirt holes at 2.0 metre centres drilled into the top of the lateral pipes. This ensures the effluent discharge rate from each lateral does not exceed the designed parameter of 1.45 litres per minute and evenly distributes the effluent throughout the trenches.
- 6. Flow control assemblies are to be fitted at the beginning of each trench. If, during installation, the ground levels at the beginning of each effluent trench are found to vary, they must be recorded and communicated to me so I can calculate the correct size hole to be drilled in the flow control discs assemblies.

The Flow Control Assemblies - Hole Sizing Chart is included in this report for this purpose. These holes compensate for the hydraulic differential between disposal trenches at varying levels. If you do not have the correct drill sizes, an engineering workshop may drill the holes for you at is critical the correct sizes be drilled. The flow control details will be forwarded to the Council as an addendum to this design and can be attached to the consent documents.

PLANTING

The owner should prevent stock access to the disposal area by additional fencing as required. This area should be planted with selected trees and shrubs to assist transpiration; a list of suitable plants is attached. As trees transpire a significant volume of water this process is an integral part of effluent disposal. Grass, moderately mown, should complement the planting.

MAINTENANCE

The filter screen and syphon should be inspected on an annual basis and I enclose a leaflet on the maintenance procedure for your information. The siphon base should also be inspected to ensure there is no build up that might inhibit its operation.

If there is a sediment build up in the siphon base this should be hosed down and the effluent distribution laterals may need flushing. This can be done by opening the flushing points and briefly operating the syphon to clear the lateral lines.

This work is generally carried out by the installing plumber with records of inspections and maintenance being kept as an addendum to the wastewater report.

If you have any queries or require any additional information please do not hesitate to contact me.

Dave Miller

Environmental Engineer

TO LOWER TRENCHES
AS DESIGNED
CSEE BETLENETRENCH
LANCHD 200 mm CROSS SECTION TRENCHES A 20 m CENTRES TOPSOL 256 PRESUR PIPE PRUTED TO PESION SPORTCATION (5 mm HOLES & 2.0 m CRNRES) (NTS) 160 & PERFORMED HALF PRE MOUNTED TOPSOL CHEKNED RUSHNO PLUS PLIEK GOTH FREE AR INT CA GEN IND OF REIN 200 11 PROM STRHON SOCIET UNION CONTAINING PLOW PISK, CONTROL SWING CHECK VALVE OSI PLOW CONTROL ASSEMBLY LONG SECTION (NTS) BOOD TRANSPORT PIPE PROM SYPHON 160 Ø PERFORMED HALF PIPE 300 PP 250 PRESERVE PPE (VALLED TO DESON SPECIFICATION) LEGATOR PLUSAN PLIN PLEK GON KRY AR INE A 2.0 B CRIERS SLETAGE WATER CLITCHE DRAIN PRECURED Page 10 of 65

LOW PRESSURE EFFLUENT DISTRIBUTION PIPEWORK TRENCH CONFIGURATION FOR ORENCO SYPHON (OSI)



ł .	Peterson - 142 Huia Street - Waikanae		Pederson	- Savana Amiller	PO Box 1784,	Distriction New York
ect	SEPTIC TANK SYSTEM	10	5 June 2010 1:1000	DAVE MILER Environmental Engineer		Palmerston North Fax: 06 357 842 vemiller.co.rrz
	SITE LAYOUT	Dwg No	1 of 1	Environmental engineer : 11		Amileraaria
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					2000年	
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			spaced 2	2 metres apart to		
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					future 4 bdrm hous	se
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		A CONTRACTOR	control	Proposed 1 bd/m cottage	14.00	
		A Y	assemblies			



Siphon Installation manual



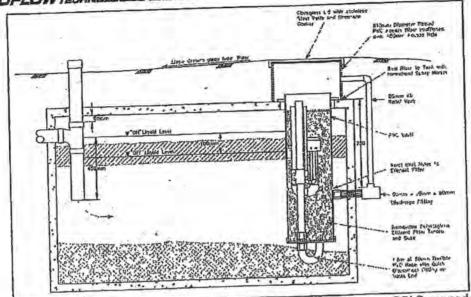


Figure 1: Schematic of Typical Septic Tank With Dosed Discharge Using an OSI Screened Siphon

OVERVIEW

The Innoflow Septic Tank Effluent Siphon (STES) kit is designed to provide all the benefits of dose loading and pressure distribution of wastewater, while still keeping with the Innoflow philosophy of low maintenance. The kit should be installed by an Innoflow Trained Installer to ensure the equipment is installed and commissioned according to the manufacturer's specifications.

Equipment Supplied

- Ribbed PVC Riser (610 mm diam by 450 mm) with bolt catchers and 25 mm quick fit rubber grommet
- Sealing lockable fibreglass lid with two screws and an allen key
- PVC screen vault with screen effluent filter and removable siphon unit (NOTE; the vault and siphon unit should have matching letters)
- Flexible hose discharge assembly with quick release fitting
- 50 mm Tank Discharge pipe
- 50 mm x 25 mm x 80 mm Tee discharge fitting
- 25 mm air relief vent with elbow

Minimum Tankage

- A 3300 ltr septic tank with Internal height of 1.4 m. We recommend a 4500 ltr septic tank with internal height of 1.6 m. The increased volume improves the tank's performance and the 1.6 m height ensures the inlet holes to the screened vault are optimally placed in the clear zone between the sludge and scum layers.
- The tank requires a 450 mm diameter access hole over the outlet end of the tank, approximately 200 mm
- The septic tank must be installed level to ensure correct operation of the siphon (+/-6 mm per m).
- Note that the outlet pipe provided with the kit should be installed 750 mm from the top of the tank.

Installation Overview

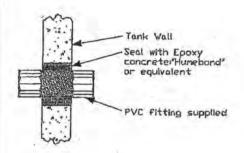
- 1. Fitting the siphon unit inside the screened vault
- 2. Installation of the outlet pipe
- 3. Installation of Riser
- 4. Fit the air relief vent
- 5. Installation of the Vault and discharge hose assembly
- 6. Disposal field setup (NOTE: The transport pipe needs to be a minimum of 80mm diam)
- 7. Startup and testing



INSTALLATION

Step 1. Install the discharge fitting (provided) in the discharge end or side of the septic tank, 750 mm down from the top of the tank

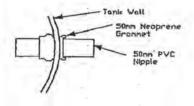
Detail 1 - Concrete Tank



Detail 1 illustrates installation of the fitting in a concrete septic tank.

Cut a 100 mm diameter hole in the tank wall and firmly pack grout around the tank fitting. Use an Epoxy grout like "Humebond" or equivalent.

Detail 2 - Fibreglass or Polyethylene Tank



Detail 2 Illustrates installation of the fitting in a fibreglass or polyethylene tank.

Drill a 72 mm diameter hole with a hole saw and insert the 50 mm neoprene grommet, which is provided on request. Lubricate the 50 mm (Pressure Pipe) PVC nipple with gasket lube, silicone or Vaseline and insert it through the grommet.

- Step 2. Apply Teflon tape or pipe dope to thread on all threaded PVC fittings.
- Step 3. Check to be sure the neoprene washer is properly sealed in the pin lug connector on one end of the 50 mm PVC flex hose. Without the washer, the connection will leak and the siphon will not operate.
- Step 4. Connect the end of the hose with the PVC female adaptor to the 50mm PVC fitting inside the septic tank wall. Tighten firmly by hand. Then connect the 50 mm PVC elbow provided to the 50 mm PVC male adaptor protruding from the bottom of the siphon vault.
- Step 5. Lift the free end of the 50 mm PVC flex hose out of the septic tank and attach, by means of the 50 mm pin lug connector, to the 50 mm PVC elbow in the bottom of the vault. Tighten firmly by hand.
- Step 6. The Dosing Siphon is to be suspended in the septic tank and supported from top of the tank by the two support pipes provided. Install the support pipes in the holes in the top of the Siphon's PVC vault, using the screws provided to lock the pipes in position.
- Step 7. Lower the dosing siphon/vault into the empty septic tank.



- Pour about 4 litres of water into each open vertical pipe at the top of the dosing siphon assembly. If the traps are not filled at this time, the system will not operate. In addition, be sure the flexible hose is completely filled with water. Any air trapped in the discharge hose will cause erratic behaviour. Place a 200 mm concrete block or similarly weighted object on top of the vault to prevent floating.
- Step 9. Connect the air-relief vent from the air-relief adaptor fitting up and into the riser. When connected to a pipeline the siphon will not operate unless it is vented in this manner.
- Step 10. Run water into the septic tank until the siphon discharges. Discharge occurs when the water level is about 25 mm above the top of the siphon bell dome. Observe the siphon through several cycles. Erratic behaviour usually indicates trapped air either in the flexi hose or in the main transport pipe.
 - ✓ The system is now operational and will continue to function automatically.

Note: 80 mm diameter pipe should be used from the dosing tank to the drainfield, mound, trench, etc. and must slope continuously downward to prevent air-entrapment problems that can cause greatly reduced flow and/or pressure. Test and operate siphon before backfilling transport pipe trench to be sure air-entrapment problems have not occurred.

INSTALLATION IN OPERATIONAL SEPTIC TANKS

CAUTION: The atmosphere in an operational septic tank may be poisonous! It is not necessary nor is it recommended that a person enter the tank. Only licensed septic tank installers should be employed to perform the work.

Installation is the same as for new tanks with these exceptions:

- The tank must be uncovered to provide working room to install the vault and to cut the discharge hole.
- The tank contents must be pumped to bring the liquid level below the discharge hole.
- 3. After the hole is cut into the septic tank, securely fasten one end of the discharge fitting (connected 50 mm male adaptors) to the female adaptor on one end of the 50 mm flex hose. The hose is stiff enough that the end with the discharge fitting can be lowered through the vault hole and pushed out the discharge hole in the end or side of the septic tank. Grout can then be used to seal the discharge fitting in place. Seal off any other discharge pipe in the tank with an expandable dollar plug or cap.



SIPHON MAINTENANCE (Model ST204)

We recommend that a visual inspection be made periodically (perhaps twice annually) to ensure the system is operating. Care should be taken when removing the manhole lid so that leaves or other debris do not fall into the vault thus by-passing the screen and creating a potential for blockage. If the siphon is not dosing, but merely trickling, it can be restarted by lifting the siphon/vault assembly about 300 mm to recharge the bell with air before setting it back in place. Whenever the dosing tank is pumped, the vault and screen should be removed and both should be flushed with a hose. To remove the screen and siphon from the vault, remove the support pipes and unscrew the 20 mm plug. The siphon and screen will now lift out.

Initially the siphon should be inspected once a month to ensure it is operating properly. A battery operated counter connected to a liquid float is the easiest method of monitoring a siphon's activity and is highly recommend for all siphon installations. Not only does a counter allow a quick, easy method of checking a siphon's operation, it also can alert the user to problems such as leaking plumbing fixtures and tank infiltration. Excessive dose cycles are recorded when either of these problems are present. A notepad is recommended to keep a record of monthly counter readings. Without a counter, a visual inspection is necessary and water must be run into the tank until the siphon triggers. Although not difficult, this method is very time consuming and does not allow the user to catch problems such as leaking fixtures.

A high water alarm is not necessary since siphon failure does not result in a high water condition. A high water alarm installed in a tank with a dosing siphon would only be appropriate if there was concern that the downstream components (drainfield, trenches, etc) might plug completely and back up into the dosing tank.

If upon inspection the siphon is not operating properly, it should be monitored weekly for perhaps a couple of weeks once the siphon has been re-started to ensure proper operation is continuing.

The screen should be inspected annually and cleaned if necessary. Normally, the screen will only need to be cleaned when the tank requires solids pumping. If the screen does require cleaning, the following steps should be followed:

- 1. Remove the vault from the tank. Disconnect the hose from the bottom of the vault and remove the support pipes from the top of the vault. Take care not to drop the discharge hose. It is a good idea to fix a string to the end of the hose to prevent this,
- 2. Unscrew the fitting on the side of the vault that holds the siphon in place. Remove the siphon from the vault.
- 3. Slide the screen out of the vault. The siphon, screen, and vault can now be cleaned using a spray nozzle to hose the solids off back into the tank.
- 4. Re-assemble the siphon and vault by following the above steps in reverse. Re-prime the siphon as described next.

RE-PRIMING

If the siphon is removed for cleaning, it will be necessary to re-prime the siphon and refill the hose with water. The siphon is re-primed by filling the 50 mm vertical pipes with about 4 litres of water. If the tank contents are not pumped out the hose must be physically held down while refilling in order to allow air to escape and the hose to sink. A notched length of wood or a bent length of steel bar may aid in holding the hose down while refilling. If the siphon is removed for cleaning and the tank contents are pumped out, both the hose and trap still need to be filled as described above, but the hose will be much easier to fill as it will not have a tendency to float. However, the hose should be visually inspected to see that it is not stuck in a position above the tank outlet as this will cause siphon malfunction.



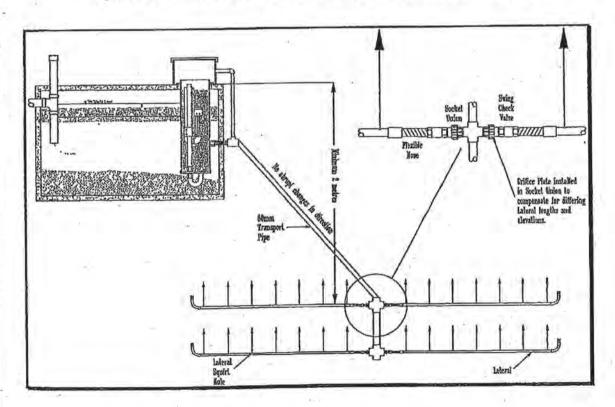
TROUBLESHOOTING

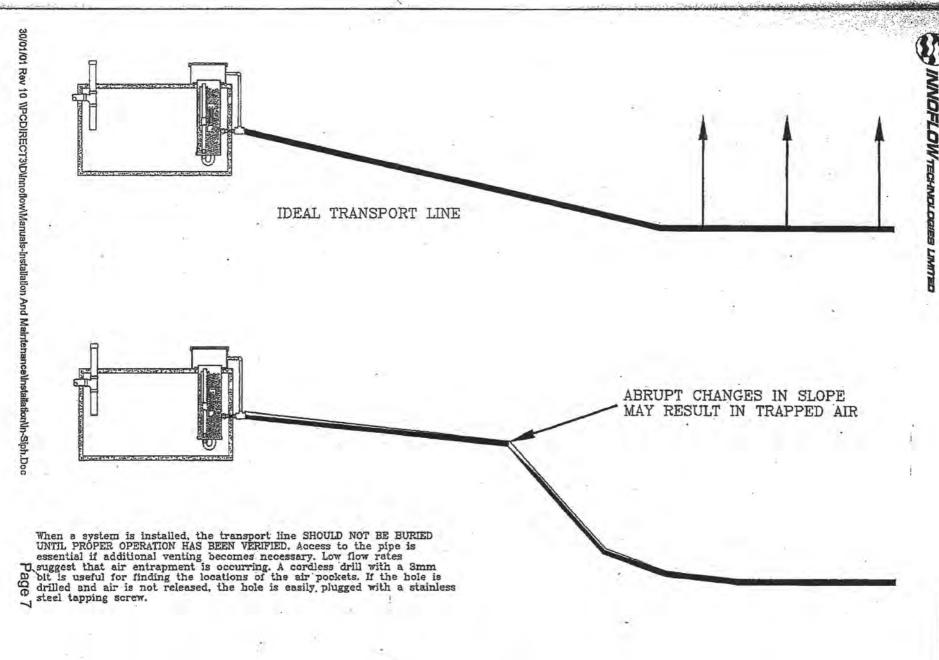
Virtually all siphon failures result with the siphon operating in a dribbling mode, Dribbling occurs when the liquid level stays relatively constant in the tank and the flow rate leaving the tank is equal to or less than the flow rate entering the tank. A dribbling siphon may be caused by one of the following problems:

- 1. A plugged snifter tube or even momentary blockage of the snifter tube.
- 2. A hose that is above the outlet level of the siphon or air that is trapped in the hose.
- High flow rate entering the dosing tank at the same time the siphon is at the end of its discharge cycle.
- A crack in the siphon bell or associated piping. A crack is usually caused by damage in shipping or handling. Please call innoflow for replacement or instructions to repair damage.

If the siphon loses its prime and starts to dribble rather than dose, it is necessary to re-prime the siphon. If the malfunction was caused from the hose floating, it will also be necessary to sink and refill the hose with water. Re-priming is usually accomplished simply by lifting the Screened Vault Assembly up just enough to expose the bottom of the bell, thereby replenishing the air under the bell necessary for proper operation. It is not desirable to lift the vault completely from the tank as the hose will lose its water and may float in the tank. If the vault is lifted completely from the tank, it will be necessary to refill the hose with water. As described above, the hose must be physically held down while refilling it if the tank is full.

Figure 2: Schematic of Siphon and Low Pressure Effluent Distribution (LPED) Pipes





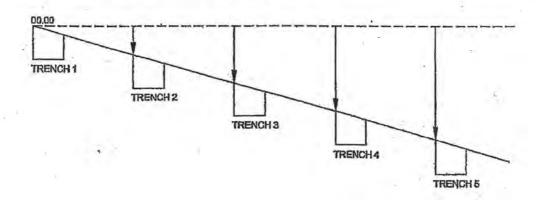


LOW CONTROL ASSEMBL	IES - HOLE SIZING CHART	l design septic tank and sewage treatment systems
ATTENTION		P O BOX 1784, PALMERSTON NORTH
COMPANY		NEW ZEALAND
FROM	TIME	PHONE: 64 6:357 8426', FAX: 64 6:357 8726
DATE	NO PAGES	email: davamillar@xlm.co.rrz

Please forward the flow hole sizes for the site

DOWN HILL	E	THER SIDE				ONE SIDE	
	LATERAL DROP (mm)	TRENCH LENGTH	HOLE SIZE (mm)	TRENCH NUMBER	LATERAL DROP (mm)	TRENCH LENGTH	HOLE SIZE
. 1	0		NONE	1	. 0	100	NONE
				2			
	-			3 .			
5				4			
				5	77		
			7	8			
				7			
			47	8			
- 1-1				D		10	
1		* - X		. 10	' '		

MEASURE DROP IN LEVEL OF EACH TRENCH FROM TOP TRENCH AS SHOWN ENTER RESULTS ON TABLE AND RETURN BY FAX



M-015

Species Suitable for Low Pressure Effluent Dosing (LPED) Systems

The following plants have been selected by Matatoa Nursery for planting on and around LPED effluent disposal areas. The correct selection of plants is vital to achieve successful natural transpiration of effluent from this area.

Trees

(more suitable for peripheral zones due to ultimate size, but will offer additional transpiration and shelter if required)

Deciduous:

Alnus glutinosa Common Alder
Acer rubrum American Red Maple
Quercus palustris Pin Oak

Taxodium distichum Swamp Cypress

Nyssa sylvatica Tupelo

Evergreen:

Cordyline australis
Corynocarpus laevigatus
Laurelia novae-zealandiae
Macropiper excelsum
Melicytus ramiflorus
Aristotelia serrata
Cabbage Tree
Karaka
Pukatea
Pepper Tree
Whiteywood/Mahoe
Wineberry
Lacebark

Lagunaria patersonii Norfolk Island Hibiscus

Smaller Trees/Shrubs

Clianthus Kakabeak
Coprosma propinqua Mingimingi
Coprosma robusta Karamu
Leptospermum scoparium Manuka
Paratrophis mycrphylla Turepo

Grasses/Flaxes/Groundcovers

Arthropodium Rock Lily
Agapanthus
Carex dipsacea sedge
Carex geminata "
Carex soladri "
Carex secta "
Carex virgata
Carex flagellifera "
Carex trifida "

Chionochloa flavicans
Cortaderia toe toe
Juncus pallidus
Phormuim tenax

Tussock Grass
Toe Toe
Giant Rush
Swamp Flax

Please Note:

These species have primarily been chosen on ability to grow in continuously moist soils, and secondly they do not have particularly invasive root systems. However, there will definitely be variation in their growth rates and level of root spread. Final selection must still be relative to the design, spacing, and depth of the pipe distribution system, soil type and degree or severity of wind exposure. Please contact Matatoa Nursery to arrange the optimum planting schedule for your site. Generally any slow growing evergreen (especially native trees or shrubs) is acceptable.

INSTALLER DECLARATION

(to be signed by the Installer at the completion of the work and returned to Dave Miller)

RE; PETERSON HOUSE -- 142 HUIA STREET -- LPED EFFLUENT SOAKAGE SYSTEM INSTALLLER;

ADDRESS

Signed:

I declare that I have installed the septic tank, OSI dosing siphon and Low Pressure Effluent Dosing (LPED) effluent soakage trenches for the Peterson house as per the plans and specification and hereby guarantee the quality of the workmanship.

		-	
			1
		i.	
(Licensed I	Oralniaye	er)	
Gold Card	No		

SPECIFICATIONS

Overall Data		
Overall Collector Dimensions	mm	1941 x 1027 x 83
Weight of Collector - Full	kg	34
Accreditation		AS2712:2002
Aperture Area	m²	1.86

Risers		
Number of Risers	337	7
Fluid Capacity	litres	1.5
Riser Dimensions	mm	9.52 x 0.71 x 1864
Header Dimensions	mm	25.4 x 0.91 x 996
Test Pressure	kPa	300
Maximum Working Pressure	kPa	1400

Insulation			
Glass Wool Insulation Density -Base	kg/m³	12	
Insulation Thickness - Base	mm	38	
Fibreglass Insulation Density -Sides	kg/m³	32	
Insulation Thickness - Sides	mm	28	

Absorber Plate		
Absorber material		Copper with Sputtered surface
Effective Absorber Surface Area	m²	1.86
Absorber Plate Thickness	mm	0.2
Absorber Plate Dimensions	mm	1895 x 985
Emittance of Surface		0.04 +/- 2%
Absorptance of Surface		0.95 +/- 2%

Casing			
Casing Thickness	mm	0.4	
Casing Drain Holes	mm	4 x Ø4mm	

Connections				
Inlet/Outlet Connections	mm	33 Female Compression		
Max. Torque	Nm	34		

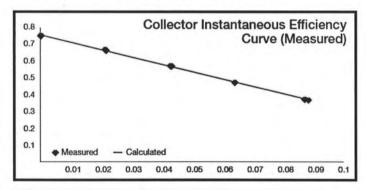
Your local distributor:

Glazing					
Glazing Type		Tempered Low Iron Matt-Matt Glass			
Glazing Thickness	mm	3.2			
Glazing Transmittance		0.89 min			
Glazing Iron Oxide Content	%	<0.04			



- 1. Low iron Matt/Matt Tempered Glass Maximises available solar radiation.
- TiNox Sputtered Copper Selective Surface Absorber Plate Improves solar gain with very low emittance values.
- **Glasswool Insulation**
 - Reduces heat losses and improves performances.
- 4. 7 Copper Risers
- Used for its excellent corrosion resistance and heat transfer properties

 5. Durable COLORBOND® Steel casing Provides all weather protection to the collector internals.



η_{0}	0.757 4.039 W/(m²K)	
a _i		
a,	0.005 W/(m ² K ²)	



For sales assistance call 132 949 (Australia Only)

For International Enquires

Tel +61 8 9351 4600 Fax +61 8 9351 8034

Website www.edwards.com.au Email info@edwards.com.au ABN 21 098 823 511

Re-Order Code: EHWT7TECH (July 2006)

Technical information provided is subject to change without notice.

Titan Series 2

7 Riser Solar Collector

Technical Data

Introducing the Titan Series 2 collector - designed especially for high performance in cooler climates. Edwards has taken advantage of the latest advances in heat-transfer technology to build superior solar collectors to gather as much of the sun's energy as required. The Titan Series 2 collector uses an advanced titanium coated copper solar absorber plate combining first grade copper with titanium, to show superior qualities in both solar performance and durability when compared with other solar collectors available.

ABSORBER PLATE

Titanium is the ultimate high-grade solar material; it has greater solar performance and efficiency characteristics than other selective surfaces.

A typical flat plate solar collector would produce the following yearly energy yields:

Titanium = 546 kWh/m^{2*} Black Chrome = 456 kWh/m^{2*}

The absorptance and emittance co-efficients also outperform other materials.

Absorptance = 0.96 Emittance = 0.05

CASING

Constructed from 0.4mm COLORBOND® Steel and extruded aluminium to provide good corrosion resistance properties and light handling capabilities.

INSULATION

Fibreglass batts are used to insulate the base of the collector to minimise heat loss. It is 38mm thick and has a density of 12kg per cubic meter.

CONNECTIONS

M33 brass compression fittings are used which conform to Australian and International Standards. Each fitting accepts a 25mm copper tube and ensures the prevention of water ingress through the casing.

RISERS

Designed for either water or propylene glycol, the copper tubes conform to Australian Standard AS1432 and other applicable international standards. The 25mm diameter headers and 10mm risers are of Type C copper and the 7 risers are spaced at 133mm. The risers are soldered to the absorber plate.

GLAZING

Tempered, low iron Matt-Matt glass is used to maximise the solar radiation available. It is extremely strong 3.2mm tempered glass that is hail resistant. It is specifically designed for solar applications and has a minimum energy transmittance of 0.89 and a low iron oxide content of only 0.04% or less.

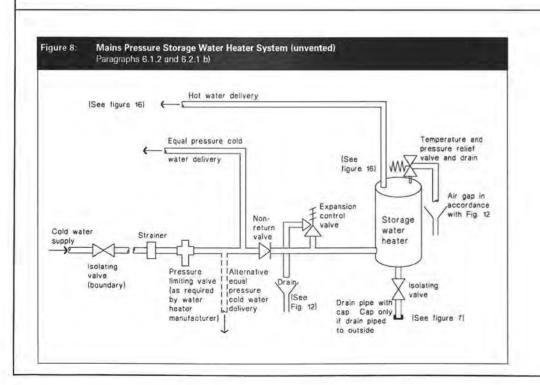
* figures sourced from the Institute for Thermodynamics and Thermal Engineering (ITW) of the University of Stuttgart.

Re-Order Code; EHWEHPTECH (July 2006)



EFFICIENCY ECONOMY EXCELLENCE ENVIRONMENT

Closed Loop Solar Setup Air Bleed Roof Sensor 111111 Hot Glycol Return **EDWARDS EDWARDS** PANEL PANEL 240V/16A Domestic Hot Water via Solar Tempering valve **HWC Switch** Meter **Expansion Tank** Tank Temp Sensor Temp Sensor Pump Direction Non Return Service Pressure Valve & Gage valve Valve Mains Cold Water

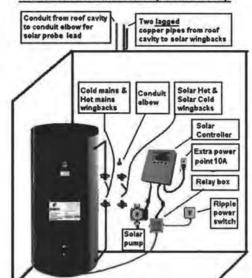




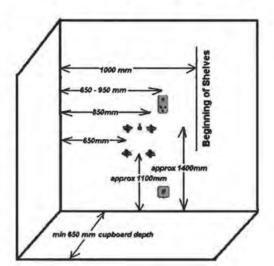
GREENGLO SOLAR CUPBOARD SETUP

GreenGlo

Visual look of a solar cupboard setup



Dimensions of setup for GreenGlo 180S 180D; 300S; 300D (615 mm wide)



PRODUCT INFORMATION General product information 800kPa Maximum working pressure Maximum water temperature 90°C Maximum colls working pressure 800kPa 95°C

Maximum heat exchange temperature Enamelled steel automatically welded

50 mm polyurethane in accordance to NZS4692.1 and NZS4692.2 Indoor use only

Note: The product must not be exposed direct sunlight, rain, etc. Uninsulated pipework exposed to outdoor decrease heater performance & may increased energy consumption.

	1805	3005	180D	300D	300DS	400D	500D	800D	10000
Dimensions may change without notice	Single S Se	1000				Double D Sei			
Volume (litres)	180	300	180	300	300	400	500	800	1,000
A - Height (mm)	1650	1780	1650	1780	1240	1580	1860	1750	2090
B - Diameter (mm)	520	615	520	615	755	755	755	1060	1060
C - Cold Inlet	180	80	180	80	95	75	60	395	395
D - Bottom Coil Cold	280	350	280	350	355	385	235	495	495
E - Bottom Coil Hot	500	655	500	655	565	595	690	870	920
F - Upper Coll Cold	N/A	N/A	570	755	655	690	780	965	1020
G - Upper Coil Hot	N/A	N/A	855	1210	865	1040	1320	1190	1510
H -Service Circulation	740	920	740	920	730	790	1010	710	1240
I - TPR Valve	1430	1570	1430	1570	940	1300	1580	1270	1610
3 - Hot Outlet	1585	1720	1585	1720	1100	1490	1765	1365	1715
K - Bottom Element	240	290	240	290	300	335	315	385	385
L - Upper Element	N/A	N/A	935	1285	N/A	1060	1395	1260	1580
Element Rating (kW) O - Ports Thread	3.0 1"F	3.0 1"F	2 x 2.0 1" F	2 x 2.0 1" F	3.0 1"F	2 x 2.0 1" F	2 x 3.0 1" F	2 x 4.8 2" F	2 x 4.8 2" F
Tank Thickness (mm)	3	3	3	3	3	3	3	4	4
Angle of ports	45°R	45°R	45°R	45°R	45°R	45°R	45°R	90°R	90°R
Max energy Bottom coil (kW)	9.0	17.5	9.0	17.5	20.0	24.6	39.3	35.0	37.2
Max energy upper coil (kW)	N/A	N/A	13.6	26.2	30.0	39.3	54.0	70.0	89.3
Weight (kG)	90	112	103	127	128	198	229	293	326

SOLAR GROUP LTD 19 ARRENWAY DRIVE **ALBANY, 0753** AUCKLAND

PH: 09 477 2999 FAX: 09 353 1441 WEB: WWW.SLG.CO.NZ



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SHEET:	DATE:	
IOB NO.	REVISION NO.	

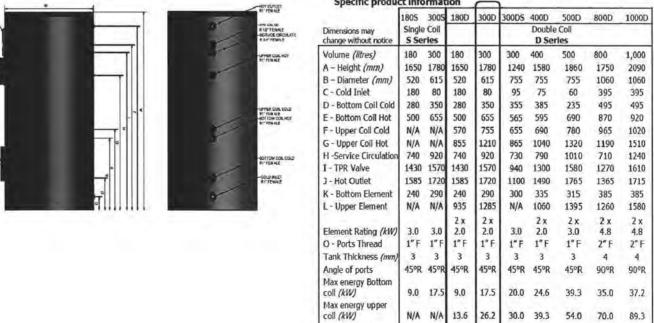
DRAWING TITLE: **SOLAR WATER HEATING**

LAYOUT AND GREENGLO CYLINDER SPECIFICATIONS

CLIENT:

	NAME	DATE
SURVEYED		
DESIGNED		1
DRAWN		
CHECKED		
APPROVED		

EVISIONS D	ESCRIPTION:	
DATE	DESCRIPTION	
		EVISIONS DESCRIPTION: DATE DESCRIPTION





P.O. BOX 687, NELSON, NEW ZEALAND

PHONE (03) 547 7347 FAX (03) 547 2909 EMAIL: info@appliedresearch.co.nz WEB: www.appliedresearch.co.nz

Report 10/2189

March 15th, 2010

Page 1/2

P1585/4

Customer:

Solar Group Ltd

Unit 1

19 Arrenway Drive

Albany

Browns Bay 0753

AUCKLAND

Attention: Roy Netzer

Compliance Certificate for the Edwards Green Glo Solar Hot WaterSystems

Appliance:

Edwards Green Glo Solar Hot Water Systems

Standard Applied

AS/NZS2712:2007

Full Report Ref .:

09/2050

Based on the information and results obtained during testing and assessment, the Edwards Green Glo Solar Hot Water Systems listed below comply with the requirements of AS/NZS2712:2007.

This compliance certificate relates only to the product sample tested. Any modifications to the product may invalidate the compliance results.

Our report 09/2050 gives details of the appliance, the assessment and the results obtained.

System name	EECA identifier	Heat exchange cct type	Heat exchange fluid	Collector mo	del
Green Glo 180 S/D with 2 Titan smart panels	SG002	Closed	Glycol	Titan blue II	2
Green Glo 300D/S with 2 Titan smart panels	SG004	Closed	Glycol	Titan blue II	2
Green Glo 300 OL with 2 Titan smart panels	SG006	Open	Water	Titan blue II	2
Green Glo 180S OL with 1 Titan smart panel	SG008	Open	Water	Titan blue II	1

System name	EECA identifier	Heat exchange cct type	Heat exchange fluid	Collector mod	del
Green Glo 400D three Titan	SG136	Open	Water	Titan	3
Green Glo 400D three Titan	SG142	Closed	Water	Titan	3
Green Glo 500D three Titan	SG137	Open	Water	Titan	3
Edwards 180R OL/1 Titan panel	SG140	Open	Water	Titan	1
Edwards 180R OL/2 Titan panels	SG030	Open	Water	Titan	2
Edwards 250R OL/2 Titan panels	SG031	Open	Water	Titan	2
Two Edwards titan panels smart OL 280R	SG032	Open	Water	Titan	2

This report:

Prepared by: G. Looman

Approved by: W. S. Webley

Release Date:

Sahr

19-3-10

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PROJECT MANUAL

New House

for

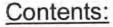
Esther & Peterson

at

142 Huia St Waikanae

Job Number: 11090

Date: May 2013



- Certificate of Title
- Engineers PS1, drawings and calculations
- Prefabricated wall & truss design
- Hyspan Calculations
- Bracing calculations
- H1 calculations
- Risk Matrix calculation
- Lumberlok Lintel fixing schedule
- Lumberlock stud to top plate fixing schedule
- Ramset Bottom Plate Fixing Technical Statement
- Tekton Weatherization BRANZ Appraisal
- Tekton Building wrap BRANZ Appraisal
- · Strandboard bracing details
- Metro Fire Installation Details
- Water Tanks Information
- Solar Panels Information





Structural Calculations

For Proposed House At 142 Huia St, Waikanae

These calculations are in accordance with:

AS/NZS 1170 Structural Design Actions NZS3101:2006 Design of Concrete Structures NZS3604:2011 Timber Framed Buildings NZS4230:2004 Design of Reinforced Concrete Masonry

Engineer: Stuart Preston Yaqi Wang Initials: SP YW

Preamble:

Specific design of Rib – raft foundation. Scala penetrometer test results are attached.



ISP CONSULTING ENGINEERS LTD

Civil & Structural Seismic Risk Analysis Building Compliance

Lower Hutt Office Tel: 04 566 8004 Fax: 04 566 8037 Level 1, ISP Centre 14 Laings Road P.O. Box 30 535 Lower Hutt 5010

Paraparaumu Office Tel: 04 902 5750 Level 1 Office 24 Kayel Building Margaret Road Raumati Beach P.O. Box 537 Paraparaumu 5254

Email:email@isp.co.nz Web: www.isp.co.nz





Date

7 June 2013



Building Code Clause(s)...B1.....



J25056

PRODUCER STATEMENT - PS1 - DESIGN

(Guidance notes on the use of this form are printed on the reverse side*)

ISSUED:	ISP Consulting Engineers Ltd					
то:	Esther & Peterson					
TO BE SUPPLIED TO:	Kapiti Coast District Council					
IN RESPECT OF:	Proposed House					
AT:	142 Huia St, Waikanae					
LOT10DP	22652					
construction monitoring of s	the owner/developer referred to above to provide structural design services and specifically designed elements in respect of the requirements of Clause B1 (B2 of ents) of the building code for					
All	Part only as specified of building work: Rib-raft foundation design Scala penetrometer test					
The design carried out by un Department of Building & H	is has been prepared in accordance with Compliance Documents issued by lousing B1, VM1, VM4					
The proposed Building word drawings named '142 Huia	k covered by this producer statement is described on ISP calculations and St, Waikanae' and numbered '25056/Page 3 to page 7 and 25056/S1&S2'.					
On behalf of the Design F	irm, and subject to:					
(i) Site verific correct place	ation of the following design assumptions: Bearing capacity of augered piles and cement of reinforcing steel to be confirmed on site by Engineer prior to pouring the					
(ii) All propriet	ary products meeting their performance specifications requirements;					
I Believe on reasonable specifications, and other do	e grounds the building, if constructed in accordance with the drawings, cuments provided will comply with the relevant provisions of the building code.					
I, John O'Hagan am CPEng	g #179947					
I am a member of: IPENZ	and hold the following qualifications: BE(Hons), NZCE(Civil), MIPENZ, CPEng					
The design firm issuing this \$ 200,000*.	statement holds a current policy of Professional Indemnity Insurance no less than					
The Design Firm is a memb	per of ACENZ					
SIGNED BY John O'Hagan	ON BEHALF OF ISP Consulting Engineers Ltd					

Note: this statement shall only be relied upon by the Building Consent Authority named above. Liability under this statement accrues to the Design Firm only. The total maximum amount of damages payable arising from this statement and all other statements provide to the Building Consent Authority in relation to this building work, whether in contract, tort or otherwise (including negligence), is limited to the sum of \$200,000*.

(Signature).....

This form is to accompany Form 2 of the Building (Forms) Regulations 2004 for the application of a Building Consent.

GUIDANCE ON USE OF PRODUCER STATEMENTS

Producer statements were first introduced with the Building Act 1992. The producer statements were developed by a combined task committee consisting of members of the New Zealand Institute of Architects, Institution of Professional Engineers New Zealand, Association of Consulting Engineers New Zealand in consultation with the Building Officials Institute of New Zealand. The original suite of producer statements has been revised as at the date of this form as a result of enactment of the Building Act (2004) by these organisations to ensure standard use within the industry.

The producer statement system is intended to provide Building Consent Authorities (BCAs) with reasonable grounds for the Issue of a Building Consent or a Code Compliance Certificate, without having to duplicate design or construction checking undertaken by others.

PS1 Design

Intended for the use by a suitably qualified independent design professional in circumstances where the BCA accepts a producer statement for establishing reasonable grounds to issue a Building

Consent:

PS2 Design Review

Intended for use by a suitably qualified independent design professional where the BCA accepts an independent design professional's review as the basis for establishing reasonable grounds to issue a Building Consent:

PS3 Construction

Forms commonly used as a certificate of completion of building work are Schedule 6 of NZS 3910:20031; or Schedules E1/E2 of NZIA's SCC 2007 2

PS 4 Construction Review

> Intended for use by a suitably qualified independent design professional who undertakes construction monitoring of the building works where the BCA requests a producer statement prior to issuing a Code Compliance Certificate.

This must be accompanied by a statement of completion of building work (Schedule 6).

The following guidelines are provided by ACENZ, IPENZ and NZIA to interpret the Producer Statement.

Competence of Design Professional

This statement is made by a Design Firm that has undertaken a contract of services for the services named, and is signed by a person authorised by that firm to verify the processes within the and competence of its designers.

A competent design professional will have a professional qualification and proven current competence through registration on a national competence-based register, either as a Chartered Professional Engineer (CPEng) or a Registered Architect.

Membership of a professional body, such as the Institution of Professional Engineers New Zealand (IPENZ)or the New Zealand Institute of Architects (NZIA) provides additional assurance of the designer's standing within the profession. If the design firm is a member of the Association of Consulting Engineers New Zealand (ACENZ), this provides additional assurance about the standing of the firm.

Persons or firms meeting these criteria satisfy the term "suitably qualified independent design professional".

Professional Indemnity Insurance

As part of membership requirements, ACENZ requires all member firms to hold Professional Indemnity Insurance to a minimum level.

The PI insurance minimum stated on the front of this form reflects standard, small projects. If the parties deem this inappropriate for large projects the minimum may be up to \$500,000.

Professional Services during Construction Phase

There are several levels of service which a Design Firm may provide during the construction phase of a project (CM1-5)3 (OL1-OL4)2. The Building Consent Authority is encouraged to require that the service to be provided by the Design Firm is appropriate for the project concerned.

Requirement to provide Producer Statement PS4

Building Consent Authorities should ensure that the applicant is aware of any requirement for producer statements for the construction phase of building work at the time the building consent is issued as no design professional should be expected to provide a producer statement unless such a requirement forms part of the Design Firm's engagement.

Attached Particulars

Attached particulars referred to in this producer statement refer to supplementary information appended to the producer statement.

Refer Also:

- 1 Conditions of Contract for Building & Civil Engineering Construction NZS 3910: 2003
- 2 NZIA Standard Conditions of Contract SCC 2007 (1st edition)
- 3 Guideline on the Briefing & Engagement for Consulting Engineering Services (ACENZ/IPENZ 2004)

www.acenz.org.nz www.ipenz.org.nz www.nzia.co.nz

Memorandum from licensed building practitioner: Certificate of design work

J25056

Section 45 and Section 30C, Building Act 2004

THE BUILDING

Street address: 142 Huia St

Suburb: Waikanae

Town/City: Kapiti Coast Postcode:5391

THE OWNER

Name(s): Esther & Peterson

BASIS FOR PROVIDING THIS MEMORANDUM

I am providing this memorandum in my role as the **Specialist** designer who supervised specific elements of RBW design work as outlined in this memorandum – other designers will be providing a memorandum covering the remaining RBW design work.

IDENTIFICATION OF DESIGN WORK THAT IS RESTRICTED BUILDING WORK (RBW)

I, John O'Hagan, supervised the following design work that is restricted building work

PRIMARY STRUCTURE: B1

Design work that is restricted building work		Description (as required)
Specific Foundations	(✓)	Rib – raft foundation
Specific Walls (outside the scope of NZS 3604;2011)	(×)	
Specific Retaining Walls	(×)	
Specific Beams	(×)	
Specific Columns	(×)	
Specific Bracing	(×)	
Other	(*)	

WAIVERS AND MODIFICATIONS

No waivers or modifications of the building code are required.

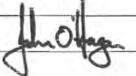
ISSUED BY

Name: John O'Hagan CPEng number: 179947

DECLARATION

- I, John O'Hagan, LBP, on behalf of ISP Consulting Engineers Ltd, state that I have applied the skill and care reasonably required of a competent design professional in supervising the Restricted Building Work (RBW) described in this form, and that based on this, I also state that the RBW:
 - · Complies with the building code; or
 - Complies with the building code subject to any waiver or modification of the building code recorded on this form.

Signature:



Date: 7 June 2013



ISP CONSULTING

Civil & Structural Seismic Risk Analysis Building Compliance

Lower Hutt Office Tel: 04 566 8004 Fax: 04 566 8037 Level 1, ISP Centre 14 Laings Road P.O. Box 30 535 Lower Hutt 5010

Paraparaumu Office Raumati Beach P.O. Box 537 Paraparaumu 5254

Email:email@isp.c. Web: www.isp.co.nz



F14-06/02 Date	Eng.	Job No. 25056	Sheet No. 2	
Project 142 Huia	St. Waikanae			CALCULATIONS

Rib - Roft Design

Building Type A: Single Storey. Light ground floor external walls. Ultimate Bearing Capacity for 15kpa (we load = 150kpa (min. 1 Blow 150mm)

Seismic Resistance

Building Type A, Roof Type Light, soil Type Clay, Seismic 200e A 8 piles per 100m2 of ground floor area for 1.5 kpa live load required. Total floor area A = 187m2 Total number of piles required = 8 piles x 187m2 = 15 piles

Wind Resistance

Building Type A , Roof Type Light, Bu's provided per 100m2 for live loading of 1.5 kpa = 1150 BJ Total Bu's provided = 1150Bu x 187m2 = 2150 Bu > 1169Bu wind along 748 BU wind across

5.2 Wind Resistance

The building's bracing demand from wind loading shall be assessed from Section 5 of NZS 3604:1999 for both directions (i.e. along and across the building). The bracing capacity of the system must exceed the greater of the bracing demands determined.

The bracing capacity of the system shall be determined as the sum of the bracing capacity provided by frictional resistance (i.e. friction between the system and the ground) and the bracing capacity provided by the shear keys (if any) necessary to meet the requirements of Clause 5.1.

The bracing capacity provided by frictional resistance shall be determined from Table 6 depending on the building type, roof weight, and floor live loading.

The bracing capacity provided by the shear keys shall be sum of the bracing capacity of the individual shear keys determined as follows. If the shear key is in clay, each shear key shall be considered to contribute 170 BU's. If the shear key is in sand, each shear key shall be considered to contribute 200 BU's.

If the bracing capacity of the system, determined from the frictional resistance and the shear keys as described above, is less than the bracing demand further shear keys shall be added until the bracing demand is met.

Bullding	Roof	BU's provided per 100m² for live loading of:					
Type	Type	1.5kPa	3.0kPa				
A Light		1150	1267				
Α	Heavy	1267	1383				
В	Light	1800	1917				
В	Heavy	1917	2033				
C	Light	1617	1833				
С	Heavy	1717	1950				
D	Light	2267	2483				
D	Heavy	2367	2600				
E	Light	2717	2933				
E Heavy		2833	3050				

Table 6 Bracing Capacity provided by Frictional Resistance per 100m² of ground floor area.

5.3 Shear Keys

Shear key piles required by Clauses 5.1 and 5.2 must be uniformly distributed around the perimeter of the building, and be located at the edge beam/internal rib junction. Where a shear key is required, the minimum number of shear keys shall be two per floor plan.

Construction details of the shear keys shall be as shown on Figure 6 below. Shear keys shall be a minimum of 900mm long. The holes shall be over-drilled at least 100mm and a polystyrene RibRaft Shear Key Support placed into the bottom of each hole. This will support only the plastic (wet) concrete and then allow movement of the shear key if settlement of the supporting ground occurs. The effective end bearing of the shear keys is therefore eliminated.

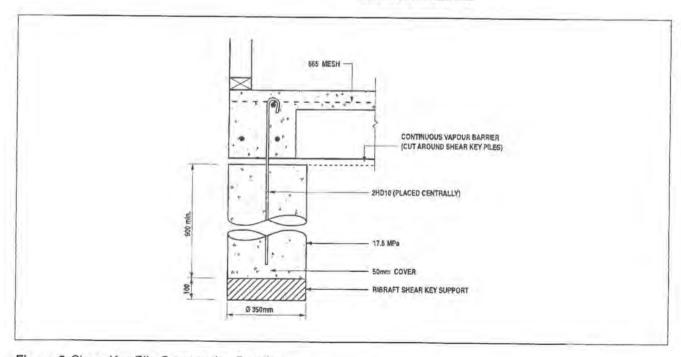


Figure 6 Shear Key Pile Construction Details

5 LATERAL RESISTANCE

Unlike conventional foundation systems, the Firth RibRaft system is not embedded into the ground. Sliding resistance to horizontal seismic and wind loads is provided primarily by frictional contact with the soil. Depending on the seismic or wind zone and the weight of the building elements this frictional resistance may not be sufficient on its own, and specific shear keys may be required.

To determine if shear keys are required the system's lateral resistance shall be checked firstly for seismic loads in accordance with Clause 5.1 and secondly for wind loads in accordance with Clause 5.2.

For the purposes of this Manual, the ground shall be classified as clay or sand according to the following descriptions:

Clay: retains shape when moulded under hand pressure; may stick to boots and hands; cracks and becomes hard, but retains shape, when dried in direct sunlight; and when dug with a spade the cut vertical surface stands.

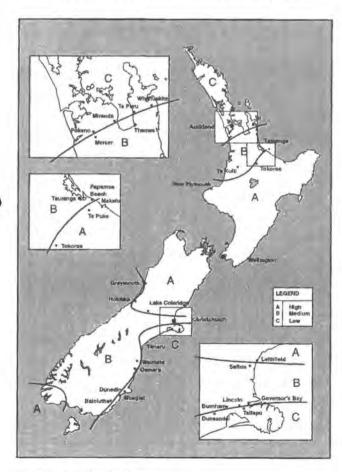


Figure 5 Seismic Zones

Sand: Individual particles visible to the unaided eye; when dry will run through the fingers and forms a conical mound if poured; when moist quickly dries out under direct sunlight, and when dug with a spade the vertical surface does not stand for long.

5.1 Seismic Resistance

To determine the required number of shear keys, follow the two steps below:

Step 1 From Figure 5 below left (from NZS 3604:1999) determine the seismic zone for the building.

Step 2 From the Tables below determine the number of shear key piles required based on the soil type supporting the system.

Building Type	Roof Type	Seismic Zone A		Seismic Zone B		Seismic Zone C		
		Sand	Clay	Sand	Clay	Sand	Clay	
A	Light	6	8	3	4	1	- 4	
Α	Heavy	7	8	4	4	-	- 5	
В	Light	10	12	5	6		1	
В	Heavy	11	13	6	7	1	1	
С	Light	9	11	5	6	-	1	
С	Heavy	10	11	5	6	-	1	
D	Light	13	15	7	8	1	1	
D	Heavy	13	16	7	8	1	- 1	
E	Light	15	18	8	9	1	1	
E	Heavy	16	19	8	10	1	1	

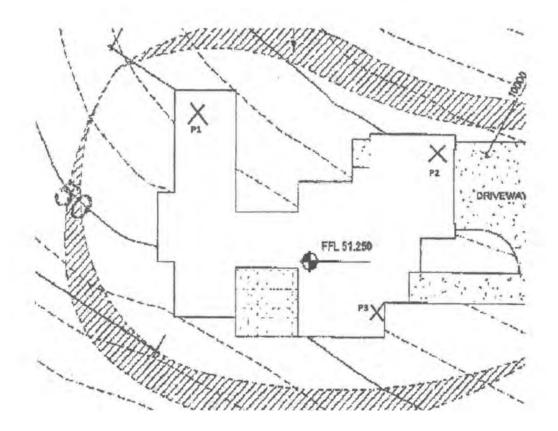
Table 4 Number of Shear Key Piles per 100m² of ground floor area for 1.5kPa live load

Building Type	Roof Type	Seismic Zone A		Seismic Zone B		Seismic Zone C	
		Sand	Clay	Sand	Clay	Sand	Clay
A	Light	7	8	4	4	-	-
Α	Heavy	8	9	4	5		-
В	Light	11	13	6	7	1	1
В	Heavy	11	13	6	7	1	1
С	Light	10	12	4	6		1
C	Heavy	11	13	5	7	1	1
D	Light	14	16	6	9	1	1
D	Неачу	14	17	7	9	1	1
E	Light	16	19	9	10	1	1
E	Heavy	17	20	9	11	1	1

Table 5 Number of Shear Key Piles per 100m² of ground floor area for 3.0kPa Live Load

Soil type : clay

Job Number Date Location	25056 7-Mar-13 142 Huia St, Waikan	Signed_ ae	ISP Consulting Engineers Ltd Scala Penetrometer Results Sheet ISP Centre, 14 Laings Road P O Box 30535, Lower Hutt			
Client	0			Tel (04) :		4 Fax (04) 566 8037
Notes	Probe Number 1		Probe Number 2]	Probe Number 3
Depth No.	0 5 10 15	Depth N	0 5 10 1	5 Depth	No.	0 5 10 15
100		50 100	0	50	0	THE PARTY OF THE P
150		150		100 150	0 2	
200 2		200 250	2	200 250	2 2	
300 3		300	2	300	3	
350 2 400 2		350 400	2	350	3	
450 3		450	1	400 450	3	
500 3 550 3		500 550		500	3	
600 5		600		550 600	5	
650 7 700 4		650	2	650	3	
750 4		700 750	3 3	700 750	2 2	
800 3		800	3	800	2	
850 4 900 7		850 900	4 5	850 900	2	
950 8	111111	950	7	950	2 2	
1000 9		1000	7 9	1000	3	
1100 0		1100	11	1050	4	
1150 0 1200 0		1150	12	1150	4	
1250 0		1200	0	1200 1250	5	
1300 0 1350 0		1300	0	1300	5	
1400 0		1350	0	1350	5	
1450 0		1450	0	1450	5	4 4 4 4 4 4 4
1500 0 1550 0		1500 1550	0	1500 1550	7 7	
1600 0		1600	0	1600	6	
1650 0 1700 0		1650 1700	0	1650	7	
1750 0		1750	0	1700 1750	12	
1800 0 1850 0		1800	0	1800	0	
1900 0		1850 1900	0	1850	0	
1950 0 2000 0		1950	0	1950	0	
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2250 D 2300 0		2250	0 11 11 11	2250	0	
2350 0		2300	0	2300 2350	0	
2400 0		2400	0	2400	0	
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2550 0		2550	0	2550	0	
2600 0 2650 0		2600 2650	0	2600	0	
2700 0	- HIIIBS MMIII	2700	0	2650 2700	0	
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2850 0			0	2800 2850	0	
2900 0 2950 0		2900	0	2900	0	
2950 0			0	2950 3000	0	
3050 0		3050	0	3050	0	
3100 0 3150 0			0	3100	0	
3200 0			0	3150 3200	0	
3250 0		3250	0	3250	0	
3300 0 3350 0				3300 3350	0	
3400 0		3400	0	3400	0	
3450 0 3500 0		3450	0	3450	0	



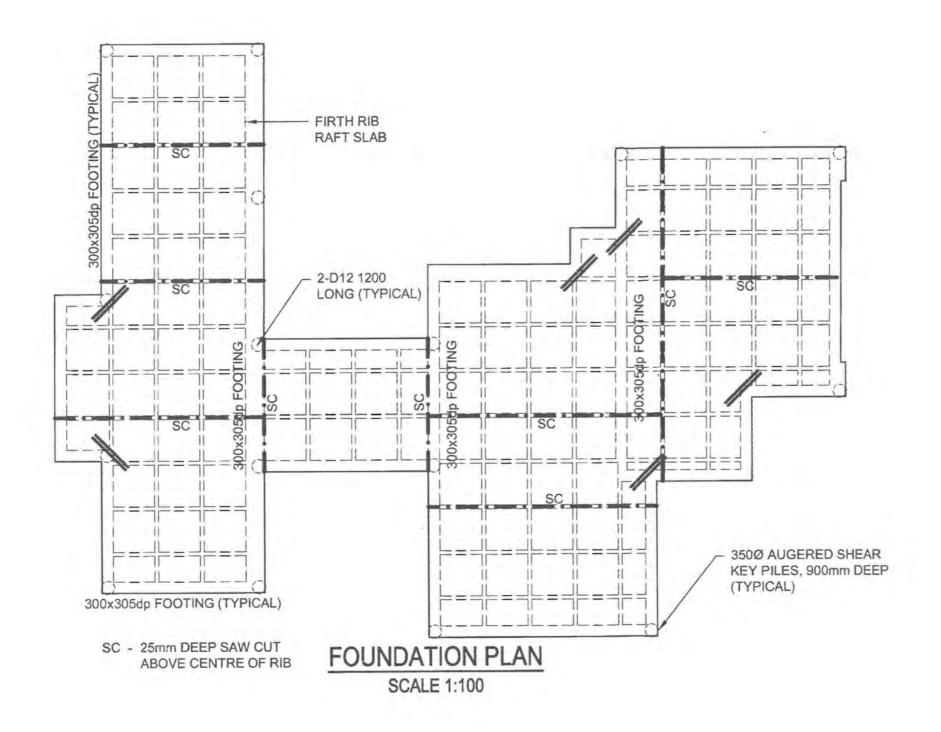


Lower Hutt Office Tel: (04) 566-8004 Fest (04) 568-8037

SF CONSULTING Pareparaumu Office ENGINEERS LTD. Tel: (04) 902 8780

SCALA PENETROMETER TEST LOCATION PLAN

CLIENT Esther & Peterson	DATE 7/06/13	DWG No.	
PROJECT 142 Hwa St, Waskarae	SCALE NTS		
172	DRAWN	JOB No 25056	



ESTHER & PETERSON

142 HUIA STREET WAIKANAE

ISP CONSULTING Paraparaumu Office ENGINEERS LTD. Tel: (04) 902 5750

Lower Hutt Office Tel: (04) 566-8004 Fax: (04) 566-8037

DRAWN: B.V.

APPROVED: C.W.

JOB No:

25056

SHEET No:

REV: **S1**

04.06.13

NOTES:

- REFER ARCHITECT'S DRAWINGS FOR DIMENSIONS, UNLESS NOTED OTHERWISE AND FOR DETAILS OF ALL SERVICES TO BE CAST IN SLAB. DO NOT SCALE OFF THIS DRAWING.
- ALL CONCRETE WORK SHALL COMPLY WITH THE REQUIREMENTS OF NZS3109:1997
- 3. CONCRETE SHALL BE: - SLABS & FOOTINGS N25 (25MPa)
- MAXIMUM SLUMP TO BE 100mm UNLESS NOTED **OTHERWISE**
- HD12 BARS LAP LENGTH IS 600mm
- CONCRETE FINISHES SHALL BE:
 - SLABS U3
 - EXPOSED FOOTINGS F4
- 10. CONCRETE COVER

POLYSTYRENE

CUT AROUND

SHEAR KEYS

2/HD10 CENTRAL

50 COVER

RIBRAFT SHEAR KEY

SUPPORT

300Ø

RIBRAFT

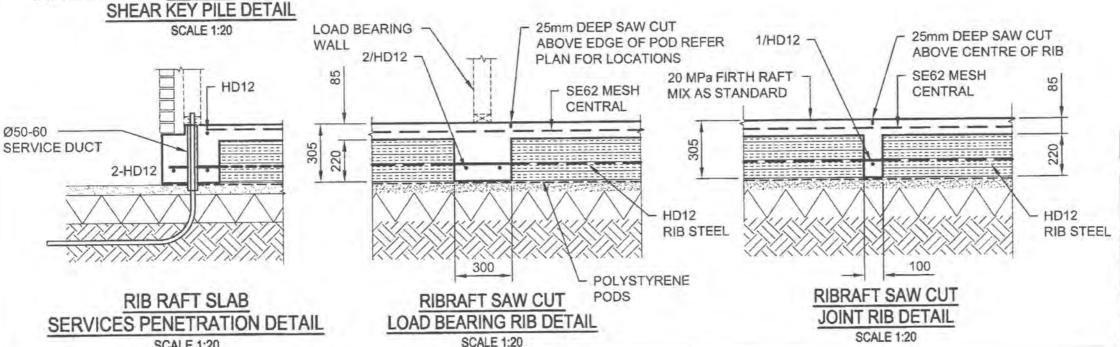
SCALE 1:20

100

PODS

- -25mm MIN. INTERIOR
- -40mm MIN. EXTERIOR
- -75mm MIN. IN CONTACT WITH GROUND.
- 11. ALL REINFORCEMENT SHALL COMPLY WITH AS/NZS4671:2001 (HD BARS SHALL NOT BE REBENT)
- 12. REFER RIB RAFT SPECIFICATIONS FOR SAWCUTS AND SHRINKAGE CONTROL JOINTS
- 13. ENSURE BOTTOM OF PILE HOLES ARE FREE OF WATER AND LOOSE MATERIAL. TAMP AS NECESSARY

- 14. ENGINEER TO INSPECT PRIOR TO POURING CONCRETE, ENGINEER REQUIRES 24 HOURS NOTICE BEFORE ANY VISIT.
- 15. THE SAW CUTS SHALL BE CUT TO A DEPTH OF 25mm AND SHALL BE CUT NO LATER THAN 24 HOURS IN SUMMER, OR 48 HOURS IN WINTER. THE SHRINKAGE CONTROL JOINTS SHALL BE POSITIONED TO COINCIDE WITH MAJOR CHANGES IN FLOOR PLAN, WHERE THE CONCRETE IS TO BE EXPOSED, OR BRITTLE COVERING PLACED OVER, THE MAXIMUM INTERMEDIATE BAY SIZES SHALL BE LIMITED TO 6m. BAY DIMENSIONS FORMED BY SHRINKAGE CONTROL JOINTS SHALL BE LIMITED TO A MAX RATIO OF LENGTH: WIDTH OF 2:1, SHRINKAGE CONTROL JOINTS SHALL BE PLACED OVER 100mm WIDE INTERNAL RIBS WHEREVER POSSIBLE. WHERE A SHRINKAGE CONTROL JOINT RUNS ALONG THE LINE OF A 300mm WIDE LOADBEARING RIB THEN THE JOINT SHALL BE LOCATED DIRECTLY ABOVE ONE EDGE OF THE 300mm RIB. SUPPLEMENTARY REINFORCING USING 2-D10 BARS (GRADE 300) SHALL BE USED AT ALL RE-ENTRANT CORNERS AS SHOWN ON PLAN. THESE BARS SHALL BE 1200mm LONG, 200mm APART, TIED TO THE TOP OF MESH, WITH 50mm COVER AND SHALL NOT BE PLACED ACROSS ANY SHRINKAGE CONTROL JOINT.



CLIENT ESTHER & PETERSON PROJECT 142 HUIA STREET WAIKANAE Lower Hutt Office 04.06.13 DATE: Tel: (04) 566-8004 Fax: (04) 566-8037 B.V. DRAWN: ISP CONSULTING Paraparaumu Office ENGINEERS LTD. Tel: (04) 902 5750 APPROVED: C.W. SHEET No: REV: JOB No:

25056

0

S2

PlaceMakers Know how. Can do.

		14)		Date:	23/5/2013
Fabricator:	Welling	ton Frame & Tru	SS	_	
Job Name:		id Homes (Esther &	Peterson)		
	142 Hula Walkana		_	-	
				7	4.0
Building Cor (to be provide	sent No: ed by the Ci	ty / District Council)			
Attn:	City	/ District Council			
frues lavout a	and Produce	to provide the trusser or Statement to allow project owner, the str	completion of the	consent applica	uon, On
Snow Load	N/A			2	
Earthquake 2	Zone 3			-	
Roof Material	Lig	ht		_	
Treatment D	efinition	External walls	H1.2	Trusses	H1.2
		Internal walls	H1.2		
We can advi	se that the er and you	following will be provi	ided at the time o	of truss manufact	ure to both the
1. A full as-b	uilt truss la	yout and Producer St	atement		
2. Specific to	russ / truss	and truss / top plate t	fixing details indi	cated on the trus	s layout.
3. All lintel s	izes outside	NZS3604: 2011 will SG8 unless otherw	be indicated on	the frame layout.	
4 Ton plate	to stud cor	nections will be indic	ated on the fram	e layout.	

Acknowledgement of this letter, along with the Building Consent number, by fax to our office, would be appreciated.



MiTek New Zealand Limited

Correspondence from : AUCKLAND

40 Neales Road, East Tamaki 2013 PO Box 58-014, Botany 2163 Phone: 99 274 7109

Phone: 09 274 7109 Fax: 09 274 7100 CHRISTCHURCH 14 Plikington Way, Wigram 8042 PO Box 8387, Riccarton 8440 Phone: 03 348 8691

Fax: 03 348 0314 www.miteknz.co.nz

Printed: 08:28:02 23 May 2013

MiTok 20/20 Engineering 4.8,6,14B

PRODUCER STATEMENT for MiTek 20/20® TRUSS DESIGN - Version 4.6

ISSUED BY:

MiTek New Zealand Limited

TO:

PLACEMAKERS - W.F.T.

IN RESPECT OF:

MITek® Truss Designs

This producer statement covers the MITek 20/20® truss design and the structural performance of the GANG-NAIL® connector plate for the job reference 45443 and may be used by a Building Consent Authority to assist in determining compliance with the New Zealand Building Code.

The MiTek 20/20® truss design program has been developed by MiTek New Zealand Limited for the design of MiTek® timber roof, floor and attic trusses in New Zealand. The truss designs computed by MiTek 20/20® are prepared using sound and widely accepted engineering principles, and in accordance with compliance documents of the New Zealand Building Code and Verification Method B1/VM1; and internationally accepted standard ANSI/TPI 1 - 2002 as an alternative solution to satisfy the requirements of Clause B1 of the New Zealand Building Code.

On behalf of MiTek New Zealand Limited, and subject to:

- i) All proprietary products meeting their performance specification requirements
- ii) The provision of adequate roof bracing and overall building stability
- (ii) Correct selection and placement of GANG-NAIL connector plates
- iv) Correct input of Truss Design Data as shown in the Fabricator Design Statement for this job
- v) The design being undertaken by the accredited fabricator under the terms of the software licence

I believe on reasonable grounds that the trusses, if constructed in accordance with the MiTek 20/20® truss design and shop drawings, will comply with the relevant provisions of the New Zealand Building Code.

MITek New Zealand Limited holds a current policy of Professional Indemnity Insurance no less than \$500,000.

On behalf of MITek New Zealand Limited,

Date: Thursday, 23 May 2013

hippy

In Ling Ng, BE (Hons), CPEng, IntPE, MIPENZ (ID: 146585)
TECHNICAL SERVICES MANAGER, MITER New Zealand Limited

MITEK FABRICATOR DESIGN STATEMENT

6.000 deg

0,200 kPa

Glb Board 12mm

800 mm centres

Qc = 1.400 kN

45443 Descriptions

Building Consent No.:

Client:

Placemakers Perspereumu

DAVID REID HOMES 142 HUIA STREET WAIKANAE

Phone:

CO 25.03 23 May 2013

This statement is issued by MITek accredited fabricator PLACEMAKERS - W.F.T., being licensed to use the MITek 20/20° software, to the client listed above and may be used by the Building Consent Authority to assist in determining compliance with the New Zealand Building Code.

MITek 20/20° TRUSS DESIGN DATA

The MITek 20/20° computer design for this job is based on the following design parameters entered into the program. The Fabricator shall ensure that these job details are current and relevant to the project for the design of the MiTek ° trusses.

Job Details

Roof Truss Timber Group:

Roof

Material: Dead Load: Restraints: Live Load:

Galv Iron .5mm 0.210 kPa 900 mm centres Qur = 0.250 kPa Qc = 1.100 kM

MSGx45 H1.2

Importance Level:

Plich: Celling Material: Dead Load:

Restraints: Live Load:

Design Working Life: 50 years

450 mm Nominal Overhang:

Very High (50.0 m/s) Cpe = varies; Cpl = -0.30, 0.20 Area: Pressure Coeff:

The timber for these MiTex* trusses shall be treated to the requirements of NZS 3602;2003 and shall be graded to the requirements of NZS 3603:1993. Unless otherwise noted, this design assumes that the steel fixings and timber connectors proposed are located in a "closed environment", as defined by NZS3604:2011 Section 4.

MITek® Truss List

* = detail only, 7 = input only, The = falled design, Ø = non certified. Unmarked trusses = designed successfully, LB = leteral bracing required GB = gable brace required

								KINTS.	and the second	40.00	and the same of	was not	Buck	Ourston
Truss	Qty	Span	Pitch	Spacing	Truss	Qty	Span	Pitch	Spacing	Truss	Qty	Span	Pitch	Spacing
	12.00	(mm)	(deg)	(mm)			(mm)	(deg)	(mm)	2000	0.0	(mm)	(deg)	(mm)
EN3	1	1700	6.000	888	T1	10	4300	6,000	903	*R6	1	2950	6,000	800
T2	5	5500	6.000	903	Т3	2	1700	B,000	888					
T6	2	5960	6.000	888	T4	2	3510	6,000	888					
T6A	6	5980	6,000	888	*R1	4	5200	6.000	405					
EN1	2	4300	6,000	903	*R2	4	1440	6.000	405					
EN2	2	1200	6,000	900	*R3	2	6800	6.000	405					
EN4	1	5960	6,000	888	*R4	2	2600	6.000	405					
EN5	1	2450	6.000	900	*R5	1	2950	B.000	405					

Total quantity: 47

The computer design input has been carried out by:

Signed:

Name of Detailer: M. J. TAYOR

On behalf of:

PLACEMAKERS - W.F.T.

Date: ... Thursday, 23 May 2013....

Qualifications and Tille: C.O.C (990 + 2006



DETAILING MANAGER

*woodproducts

Order Acknowledgement

Placernakers Paraparaumu (283) Fletcher Distribution Ltd PO Box 84 Paraparaumu 6450

Ship To 111079 Placemakers Paraparaumu (283) Fletcher Distribution Ltd Kapiti Rd PARAPARAUMU 6450

3362720757

Order date Customer Order

23 May 2013 372535-283

1 of 1

Sales Rep: Jeremy Coker

Sales Consultant: NORRISA

ltem	Material	Description	Plant	Quantity UOM	Delivery Date	Unit Price UON	Est Tot Value
000010	2322571	PLY 7x2400x1200 DD H3 CCA F8 ECOPLY (40 Sheets)	Plywood Kinleith	1.000 PAK	27.05,2013	28.14 SHE	1,125.60
000020	2124434	PLY 17x2400x1200 CD H3 CCA F8 ECOPLY (32 Sheets)	Plywood Kinleith	3.000 PAK	27.05,2013	65.10 SHE	6,249.60
000030	2383239	TAPE, PLY; 60MMX30M, BARRIER SEALING	Bestwood DC Akl	4.000 BOX	27.05.2013	61.16 ROI	2,446.40

DISCLAIMER: This confirmation does not constitute a binding obligation to supply at the price outlined. Price may be subject to change where there has been a general price review between order placement and despatch. Where this occurs, your order may be repriced by our system and invoiced according to the pricing in effect at the time of despatch.

Est Total Value

9,821.60

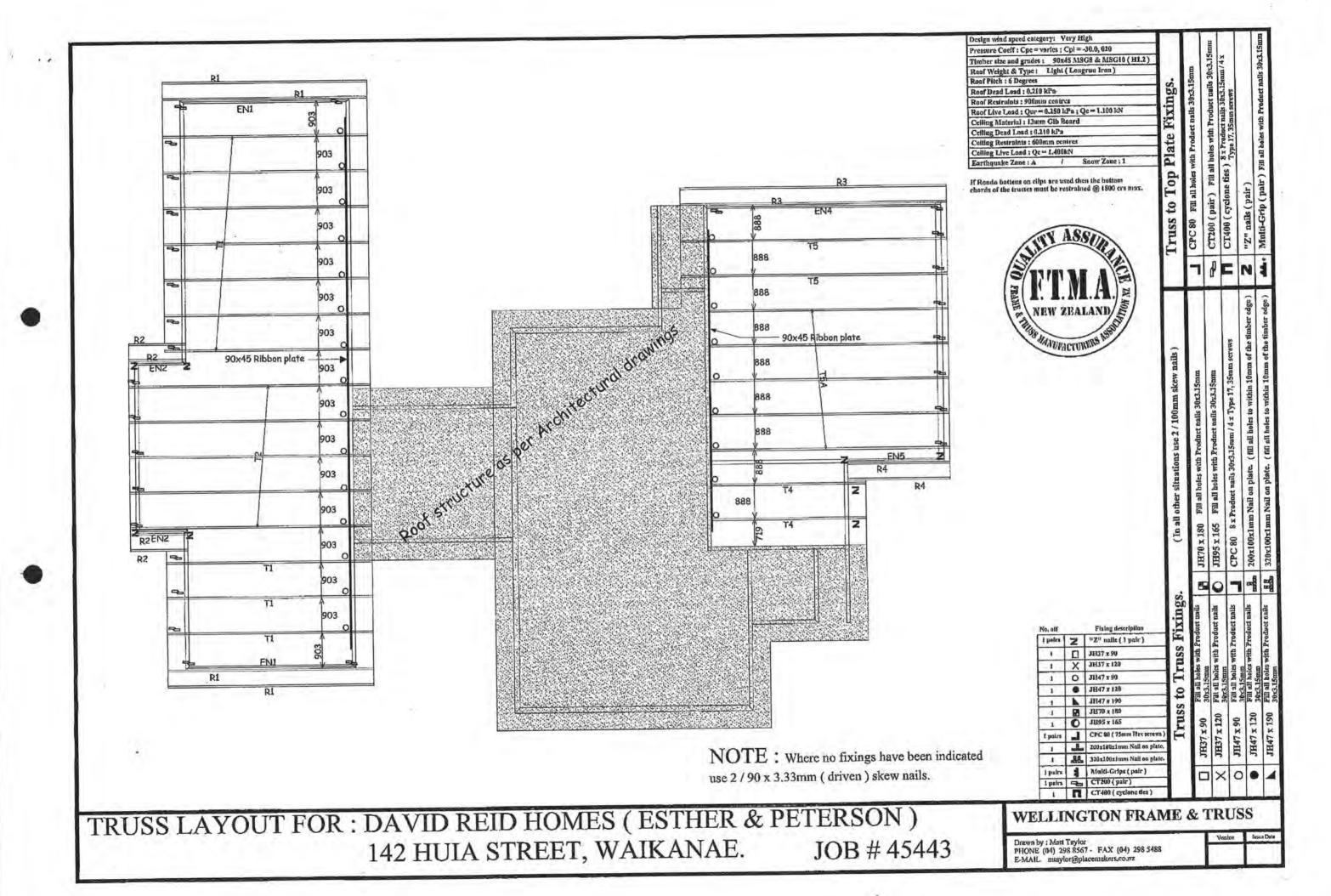
GST Exclusive

Payment Terms: Before 20th of following month

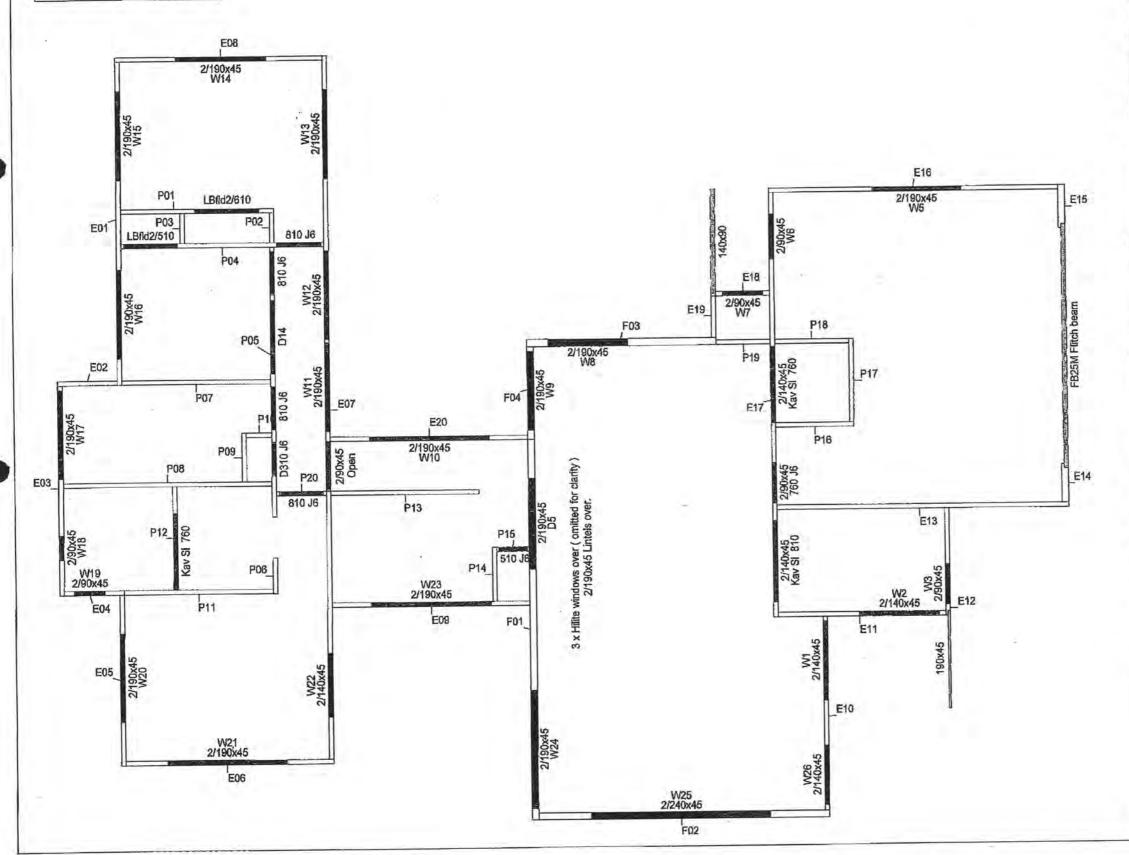
Incoterms: FIS Paraparaumu

GST Reg number: 13-979-219

Please refer to terms of sale on reverse.



Placemakers Manufacturing Placemakers Paraparaumu DAVID REID HOMES 142 HUIA STREET, WAIKANAE Std Starles Varies First Floor 23/05/2013 1:75 45443



Factory Notes:

Mitek Version:

4.6

- Treatment :

Ext Walls - H1.2 Int Walls - H1.2

Walls with 'H' in the label to be H3.1

Please Note:

These plans are provided solely to enable the builder to erect the prenail on site. They are not intended for any other purpose and PlaceMakers will not accept any liability arising from any other use of these plans.

Builder to read pre-cut plans in conjunction with architectural plans.

Builder should ensure that ALL OSH approved safety practices are carried out when erecting framing.

Builder to check all opening trim / lintel sizes and braces on site before enclosing.

PlaceMakers will not accept any charges for remedial work unless a written order is issued before any work is commenced. A copy of the order is to accompany any Invoice to Wellington Frame & Truss.

All internal door trims 2060 unless otherwise listed

If Experiencing Problems, Contact:

Trevor Strang

Phone (04) 296 1086 email: tstrang@placemakers.co.nz

If Experiencing Problems, Contact Your Rep

PlaceMakers®

Know how. Can do.

Wellington Frame & Truss

178 Kapiti Road Paraparaumu

Ph 04- 296 1086 Fax 04- 298 5488

P.O. Box 84

Paraparaumu 5254

Customer: David Reld Homes Esther & Peterson

142 Huia Street Address :

Waikanae

Job No.:

45443

22/05/2013

Drawn By : Matt Level: Base FACTORY FILE SITE





Date printed: 28/01/2013

Page 1 of 2

Design Certificate - Technical basis for structural design methodology contained in designIT for houses - New Zealand.

designIT for houses, New Zealand has been developed by experienced timber engineers to assist designers in selecting appropriate sizes of structural laminated veneer lumber products manufactured by Carter Holt Harvey (including hySPAN, hy90, hyONE and hyJOIST) and other generic stress grades of timber, to be used as structural elements for the construction of buildings that fall within the scope of NZS 3604.

The design methodology used for the software complies with the loading and general design requirements contained within AS/NZS 1170 and with timber structural design in accordance with NZS 3603:1993 including Amendment 4 (Verification method B1/VM1, 6.1).

designIT relies on the accurate input of span and loading information by the user. Where accurate inputs are submitted the product and/or stress grade and the size given will comply with the structural requirements of the New Zealand Building Code, provided the installation is in accordance with the installation requirements provided by designIT and/or in product literature and/or NZS 3604, or specific engineering design, as appropriate.

References:

NZS 3603:1993 Timber Structures Standard.

AS/NZS 1170:2002 Structural design actions, Parts 0 and 1. AS/NZS 1170:2011 Structural design actions, Part 2: Wind actions.

NZS 3604:2011 Timber-framed buildings.
AS 1720.1 – 2010 Timber structures. Part 1: Design methods.

AS/NZS 1170:2003 Structural design actions, Part 3: Snow and ice actions.

AS 1684.1 - 1999 Residential timber framed construction. Part 1: Design criteria.

This Design Certificate, and any associated warranty/certification, is void where there has been substitution of alternate products not detailed within the Member Specification.

Version date: 22 August 2011

For further information or advice please contact:

Carter Holt Havey Woodproducts New Zealand 173 Captain Springs Road, Onehunga. Auckland

Telephone 0800 808 131 Facsimile 0800 808 132

Email: designit@chhwoodproducts.co.nz

Specifier details:

Specifier:	AD architecture		
Business name:	AD Architecture		
Address:			
Email:			
Phone: 04 298 5662	Mobile:	Facsimile:	

oject & Site details:

Project:	New House	Ref. no.: 11090
At (address):	142 Huia St Waikanae	THE TIME TIMES
For (owner/s):	Esther and Peterson	
Wind zone:	Very high	
Snow loading	Snow Region: N1, Altitude: 51 m (sub-	alpine), Ground snow load, Sq = 0.0 kPa

MEMBER DESIGN DETAILS

Member 1

1) Member code and description

R1 - Common rafters

2) Date prepared

28/01/2013

3) Serviceability criteria

AS 1720.1-2010 and AS 1684.1-1999

4) Design inputs

Span

3.5 m - single

Maximum rafter spacing

600 mm

Roof mass

40 kg/m²

Lateral restraint condition

Bottom edge restrained by ceiling / ceiling battens at 600 crs max.

5) Member specification

Size, stress grade/product

Use 150 x 45 hySPAN





Date printed: 28/01/2013

Page 2 of 2

Material type

Structural Laminated Veneer Lumber to AS/NZS 4357

6) Serviceability

Rigidity ratio ⁴	Estimated average deflection ²	Limit ³ on average deflection ²	Load case
$\frac{11.7}{6.6} = 1.77$	6.6 mm (long term)	11.7 mm	Long term load - G+ψ _L Q *
0,0			*Critical serviceability load case
		nic days and a Chicago	*Critical serviceability load case

See 'Notes for interpretation of serviceability data' at the end of this report

7) Reactions

Limit states design reaction 2.3

Load case	k ₁ 1	End ⁴ kN	
1.35G	0.60	-0.7	
1.2G + 1.5Q	0.80	-2.4	
1.2G + WH + YCQ	1.00	-1.6	
$1.2G + W_U + \Psi_C Q$ $0.9G + W_U$	1.00	1.4	

See 'Notes for interpretation of reaction data' at the end of this report

8) Installation requirements

Minimum bearing - end supports, 30 mm.

Notes for interpretation of serviceability data

- 1. "average deflection" is an engineering concept based upon a notional estimated load, notional member rigidity and, in some cases, an approximate model of material response to environmental conditions. These parameters are, 'standardised' in AS/NZS 1170, AS 1684.1 and AS 1720. Deflections calculated using this methodology cannot therefore be usefully compared with deflections calculated using other methods, eg GLTAA design methodology.
- 2. Deflection is the flexural response to load 'out-of-level' measurements of installations are not necessarily deflections and can incorporate 'initial out-of-straightness', whether intended or not. Furthermore, loads can be higher/lower than the notional estimate and in any comparison with measured levels, material variability needs to also be considered. AS 1720 gives the following basis for estimation of upper bound deflections for various materials.

No 1 Framing - visually graded to NZS 3631

Average + 100%

SG grades - mechanically graded to AS/NZS 1748

Average + 43%

Average + 33%

GL grades for glulam to AS/NZS 1328

LVL to AS/NZS 4357 (includes hySPAN and hyJOIST)

Average +18%

As can be seen, comparison of the 'average deflection' for different materials, even if calculated on the same basis, does not give the whole picture!

- 3. The limits referred are those specified in AS 1684.1 for the stated load case.
- 4. 'Rigidity ratio' expresses the rigidity of the specified beam relative to the rigidity of a notional beam just meeting the serviceability requirements of AS 1684.1

Notes for interpretation of reaction data

- 1. Duration of load factor 'k , ' for strength as per NZ 3603:1993
- 2. Negative (-) reactions relate to the 'gravity' or 'downwards' force on the support
- 3. Positive reactions relate to the 'upwards' forces or 'tie-down' requirement on the support
- 4. End reaction includes allowance for overhang/cantilever where one has been designed

Bracing Calculation

GIB Ezy Brace Systems 2011

for

PROPOSED HOUSE Ester & Peterson 142 Huia St Waikanae

Job Number: 11090

prepared by

A.D architecture

Ph: 04 298 5662 Fax: 04 298 5663 info@adarchitecture.co.nz

www.adarchitecture.co.nz PO Box 1585, Paraparaumu Beach

GIB EzyBrace® 2011 Software



single storey V06/11 **Demand Calculation Sheet** Job Details PROPOSED HOUSE Project Job Number: 11090 Ester & Peterson Name 142 Huia St Street and Number City/Town/District Waikanae **BRANZ** Appraised Adarchitecture Designer Appraisal No.294 [2011] 1/08/2011 Date Select Lining Option 10 or 13 mm GIB® Plasterboard **Building Specification** Number of storeys single 2kPa Floor Loading slab Foundation Type Complete Single Floor Column only Single Floor light Cladding Weight light Roof Weight Room in Roof Space no 25 Roof Pitch (degrees) 6/ 1.0 Roof height above eaves (m) 1.6 4.2 1 Building height to apex (m) Ground to lower floor level (m) 0.2 3.0 2.4 2.4 / Stud Height (m) 20.0 15.7 Building Length (m) 21.0 √. 10.0 Building Width (m) 200 193 Building Plan Area (m2) Building Location

Wind Zone	Very High /	Earthquake Zone Soil Type
Select by Building Conse	ent Authority Map	3 D&E (deep to very soft)
or Preference	Very High	Annual exceedance probability
Wind Region	Preference selected	1/500 (NZS3604:2011 default)
Lee Zone	Preference selected	
Ground Roughness	Preference selected	
Site Exposure	Preference selected	
Topographic Class	Preference selected	

Bracing Units required for Wind

Demand W	(BU)	
		Walls single
along	slab	1169
across	slab	748

Demand along / across E (BU)

Walls
single

993

slab

GIB EzyBrace® 2011 Software



		ER STO	VE I VVAL	LU ALUI					V06
Lin	es 2	3	-	-		Elements	_		1
ine Total	Line Label	Bracing	4 Available	5 Angle to	6 Element	7 Bracing	8 Supplier	9 Presidentia	10
Check	Line Laber	Element No.		Bracing line (degrees)	Height H (m)		Supplier	Bracing Un	E E
203	Α	1	0.6		2.4	GS1-N	GIB®	34	35
	100	2	0.6		2.4	GS1-N	GIB®	34	35
		3	0.65		2.4	GS1-N	GIB®	38	38
		4	0.8		2.4	GS1-N	GIB®	49	47
		5	0.8		2.4	GS1-N	GIB®	49	47
227	В	1	0.6		2.4	GS1-N	GIB®	34	35
		2	3.2		2.4	GS1-N	GIB®	221	192
128	С	1	0.8		2.4	GS1-N	GIB®	49	47
		2	1		2.4	GS2-N	GIB®	92	81
490	D	1	1.7		2.4	SBD-9	JNL	179	196
		2	0.7		2.4	SBD-9	JNL	74	81
- 3		3	0.95		3	GS1-N	GIB®	49	45
		4	1.8	-	2.4	SBD-9	JNL	189	207
168	E	1	0.8		2.4	SBD-9	JNL	84	92
		2	0.8	-	2.4	SBD-9	JNL	84	92
					2.4				
-								-	
) <u>— — — — — — — — — — — — — — — — — — —</u>						
								1	
							1		
							-		
		11-1			1-1				
		-							
								Wind	Earthq
tals Achi				W	108%	EQ	128%	1257	1270
ncrete S								OK	ОК
tals Req	uired (from	Demand)						1169	993

GIB EzyBrace® 2011 Software



Lin	es				Bracing L	=lements			
1	2	3	4	5	6	7	8	9	10
ine Total Check	Line Label	Bracing Element No.		Angle to Bracing line	Element Height H (m)	Bracing Type	Supplier	Bracing Unit	s Achieved
			L (m)	(degrees)				1	
138	M	1	1.15		2.4	GS1-N	GIB®	78	69
		2	1.15		2.4	GS1-N	GIB®	78	69
252	N	1	1.2		2.4	SBD-9	JNL	126	138
1	1	2	1.2		2.4	SBD-9	JNL	126	138
254	0	2	1.7		2.4	GS2-N	GIB®	167	146
		2	1.8		2.4	GS1-N	GIB®	124	108
305	Р	1	1.9		2.4	GS1-N	GIB®	131	114
		2	0.9		2.4	GS1-N	GIB®	57	53
	-	3	1.2		2.4	SBD-9	JNL	126	138
227	Q	1	1.8		2.4	GS1-N	GIB®	124	108
		2	0.8		2.4	GS1-N	GIB®	49	47
		3	1.2		2.4	GS1-N	GIB®	83	72
198	R	1	0.85		2.4	GS1-N	GIB®	53	50
		2	0.85		2.4	GS1-N	GIB®	53	50
		3	1.1		3.5	GS1-N	GIB®	51	45
	-	4	1.1		3	GS1-N	GIB®	59	53
otals Ac				W	198%	EQ	141%	Wind 1484 <i>OK</i>	Earthq 1399 ok
		m Demand						748	993

H1 Energy Analysis

Calculation Method

for

PROPOSED HOUSE Esther & Peterson 142 Huia St Waikanae

Job Number: 11090

prepared by

A.D architecture

Ph: 04 298 5662 Fax: 04 298 5663

info@adarchitecture.co.nz

www.adarchitecture.co.nz PO Box 1585, Paraparaumu Beach

architecture

Component	Description	Area (m²)	R value (m² °C/W)	Heat Loss (W/°C)
Roof		146.00	2.90	50.3
Wall		158.56	1.90	83.5
Floor		146.40	1.30	112.6
Glazing (30%)		67.96	0.26	261.4
Glazing (>30%)		0.00	0.31	0.0
Skylights		0.00	0.31	0.0
NOTES:			Total	507.8

Set wall area as either 70% of total wall area or actual wall area, whichever is lower.

Set glazing area as either 30% of total wall area or actual window area, whichever is higher.

Total area of glazing (including skylights) must be ≤50% of the total wall area

An R-value of 0.26 may be used for traditional leadlight glass if the total area is ≤2.6 m².

Non-glazed areas of door openings greater than 3 m² are treated as wall.

E A3 T EE		Area	R value	Heat Lass
Component	Description	(m²)	(m² °C/W)	Heat Loss (W/°C)
Roof Type 1		56.80	4.00	14.2
Roof Type 2		13.60	2.70	5.0
Roof Type 3	REFER TO COMPONENT DESCRIPTIONS	75.60	3.67	20.6
Roof Type 4				
Roof Type 5				
Wall Type 1		33.70	2.09	16.1
Wall Type 2	Land Control of the C	59.15	2.03	29.1
Wall Type 3	REFER TO COMPONENT DESCRIPTIONS	22.65	2.04	11.1
Wall Type 4		43.33	2.38	18.2
Wall Type 5				
Floor Type 1		146.40	1.80	81.3
Floor Type 2				
Floor Type 3	REFER TO COMPONENT DESCRIPTIONS			
Floor Type 4				
Floor Type 5				
Window Type 1		65.77	0.26	253.0
Window Type 2	REFER TO COMPONENT DESCRIPTIONS			
Window Type 3				
Skylight Type 1				
Skylight Type 2	REFER TO COMPONENT DESCRIPTIONS			
Skylight Type 3				
NOTES:	Part Plans Alexandra Street and Control		Total	448.7

R-values must be no less than 60% of the R-value of the corresponding Schedule values

Total area of glazing (including skylights) must be ≤50% of the total wall area

Non-glazed areas of door openings greater than 3 m² are treated as wall.

An R-value of 0.26 may be used for traditional leadlight glass if the total area is ≤2.6 m²

Minimum R-Values have to meet requirements given in NZBC VM/H1 Clause 1 - Table 1

COMPLIANCE CHECK				
Glazing percentage of proposed design	30%			
Minimum R-Value requirements	PASS			



COMPONENT DESCRIPTIONS

ROOFS							Total
Type	Cladding	Туре	Construction	Frame	Spacing	Insul.	R-value
Roof 1	Profiled Metal	Skillion	Rafters and battens	290mm	600mm	R4.0	4
Roof 2	Profiled Metal	Skillion	Rafters and battens	150mm	600mm	R2.6	2.7
Roof 3	Profiled Metal	Truss	Bottom chord and battens	90mm	900mm	R4.0	3.67
Roof 4							= 11
Roof 5							

WALLS							Total
Туре	Cladding	Туре	Construction	Frame	Stds/dwngs	Insul.	R-value
Wall 1	Ply	Cavity	Timber framed	90mm	400/800mm	R2.6	2.09
Wall 2	Metal	Direct fixed	Timber framed	90mm	400/800mm	R2.6	2.03
Wall 3	10mm GIB - 2 sides	Direct fixed	Timber framed	90mm	600/800mm	R2.6	2.04
Wall 4	Metal	Direct fixed	Timber framed	140	400/800mm	R2.6	2.38
Wall 5							2

FLOORS					Total		
Туре	Flooring	Туре	Construction	Frame	Ratio - Crs	Insul.	R-value
· Tool	Concrete	Slab on ground	Ribraft	90mm	1.88		1.8
Floor 2							
Floor 3							
Floor 4							
Floor 5							

	WINDOWS				
Type	Framing	Type	Construction	Glazing	R-value
Wdw 1	Aluminium	Vertical	Double glazed	Clear	0.26
Wdw 2					
Wdw 3					

SKYLIGHTS					Total
Туре	Framing	Type	Construction	Glazing	R-value
Skyl. 1					
Skyl. 2					
Skyl. 3					

FLOORS

	REVIT				MANUA	AL.	
Type Mark	Туре	Area (m²)	Perimeter (m)	Type Mark		Area (m²)	Perimeter (m)
				1 2	conc_ribraft	146.40	
				3			
REVIT tota	ils	0.00	0.00	MANU	AL totals	146.40	81.00

REVIT sub-totals per floor type	Area (m²)	Perimeter (m)
Floor type 1	0.00	0.00
Floor type 2	0.00	
Floor type 3	0.00	
Floor type 4	0.00	
Floor type 5	0.00	0.00

MANUAL sub-totals per floor type	Area (m²)	Perime (m)
Floor type 1	146.40	81.00
Floor type 2	0.00	0.00
Floor type 3	0.00	
Floor type 4	0.00	
Floor type 5	0.00	0.00

REVIT and MANUAL totals per floor type	Area (m²)	Perimeter (m)
Floor type 1	146.40	81.00
Floor type 2	0.00	0.00
Floor type 3	0.00	0.00
Floor type 4	0.00	0.00
Floor type 5	0.00	0.00

REVIT and MANUAL totals	Area (m²)	Perimeter (m)
Sum of floors	146.40	81.00

REVIT and MANUAL - Ar	rea/Perimeter Ratio
Floor type 1	1 1.81
Floor type 2	0.00
Floor type 3	0.00
Floor type 4	0.00
Floor type 5	0.00

WALLS

	REVIT					MANUAL		
Type Mark	Туре	Length	Area (m²)	Type Mark	Туре	Length (mm)	Height (mm)	Area (m²)
2	E_metal_D_T90_gb10	4072	7.96	1				0.0
2	E_metal_D_T90_gb10	3197	5.34					0.0
	E_metal_D_T90_gb10	4225	6.1					0.0
	E_metal_D_T90_gb10	3508	6.92					0.0
2	E_metal_D_T90_gb10	4225	8.74	3 11 11 11 11				0.0
	E_metal_D_T90_gb10	7797	13.01					0.0
	E_metal_D_T90_gb10	6597	11.08					0.0
4	E_metal_D_T140_gb10	5950	14.05					0.0
	E_metal_D_T140_gb10	4372	11.06					0.0
	E_metal_D_T140_gb10	1922	4.95					0.0
	E metal_D_T140_gb10	3722	9.32					0.0
	E_metal_D_T140_gb10	3620	2.77					0.0
	E_metal_D_T140_gb10	1266	1.18					0.0
	E_ply12_C_T90_gb10	4100	5.4					0.0
	E_ply12_C_T90_gb10	4100	5.56					0.0
	E_ply12_C_T90_gb10	2504	4.04					0.0
	E_ply12_C_T90_gb10	4100	0.77					0.0
1	E_ply12_C_T90_gb10	4332	8.58					0.0
1	E_ply12_C_T90_gb10	1204	2.7					0.0
1	E_ply12_C_T90_gb10	1204	2.1					0.0
1	E_ply12_C_T90_gb10	2200	4.55					0.0
3	I_gb10_T90_gb10	1710	4.2					0.0
	I_gb10_T90_gb10	3521	8.35	7				0.0
	I_gb10_T90_gb10	1610	3.95					0.0
	I_gb10_T90_gb10	1211	2.68					0.0
	I_gb10_T90_gb10	1700	3.47	1				0.0
								0.0
				1 - 1				0.0
				1				0.0
								0.0
								0.0
							- 1	0.0
							- =	0.0
								0.0
								0.0
								0.0
								0.0
								0.0
								0.0
							0	0.0
								0.0

		WALLS				
REVIT		MANUAL				
WALLS						
REVIT sub-totals per wall type	Area (m²)	MANUAL sub-totals per wall type	Area (m²)			
Wall type 1	33.70	Wall type 1	0.00			
Wall type 2	59.15	Wall type 2	0.00			
Wall type 3	22.65	Wall type 3	0.00			
Wall type 4	43.33	Wall type 4	0.00			
Wall type 5		Wall type 5	0.00			
Total walls (incl. openings)	226.52	Total walls (incl. openings)	0.00			
Actual walls (excl. openings)	158.83	Actual walls (excl. openings)	0.00			

REVIT and MANUAL totals per wall type	Area (m²)
Wall type 1	33.70
Wall type 2	59.15
Wall type 3	22.65
Wall type 4	43.33
Wall type 5	0.00
Sum of total walls	226.52
Sum of actual walls	158.83
70% of total walls	158.56
30% of total walls	67.96
Lower of 70% / actual walls	158.56
Higher of 30% total walls/actual windows	67.96

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W	IND	ows	
_	_		

REVIT				MANUAL						
Type Mark	Туре	Width	Height	Area (m²)	Type Mark	Туре	In wall type	Width (mm)	Height (mm)	Area (m²)
W1	1	1600	2050	3.28		1				0.00
W2		1600	1200	1.92						0.00
VV3	1	800	1200	0.96						0.00
W8	1	1600	2400	3.84						0.00
W9	1	1600	1000	1.6						0.00
W10	1	2400	2000	4.8						0.00
W11	1	1800	1200	2.16						0.00
W12	1	1800	2000	3.6					1	0.00
W13	1	1800	600	1.08						0.00
W14	1	1800	1200	2.16						0.00
W15	1	1800	2000	3.6						0.00
W16	1	1800	1200	2.16						0.00
W17	1	1800	1000	1.8						0.00
W18	1	480	1680	0.81					11 - 1	0.00
W19	1	600	1000	0.6					1	0.00
W20	1	1800	1200	2.16						0.00
W21	1	2400	2000	4.8						0.00
W22	1	1280	2080	2.66						0.00
W23	1	2400	2000	4.8	4 == 1				1	0.00
W24	_ 1	2400	2000	4.8					le	0.00
W25	1	3600	2150	7.74						0.00
W26	1	1200	2000	2.4						0.00
W27	1	2400	550	1.32						0.00
W28	1	2400	550	1.32						0.00
W29	- 1	2400	550	1.32						0.00
										0.00
			1							0.00
								-		0.00
										0.00
										0.00
-								11		0.00
										0.00
										0.00
										0.00
						1				0.00
										0.00
= =										0.00
										0.00
										0.00
						14.1				0.00
										0.00

	W	INDOWS	
REVIT	- 30	MANUAL	
	W	NDOWS	
REVIT sub-totals per window type	Area (m²)	MANUAL sub-totals per window type	Area (m²)
Window type 1	65.77	Window type 1	0.00
Window type 2	0.00	Window type 2	0.00
Vindow type 3 0.00 Window type 3			0.00
REVIT sub-totals	67.69	MANUAL sub-totals	0.00
REVIT and MANUAL totals	Area (m²)	MANUAL windows per wall type	Area (m²)
Window type 1	65.77	Wall type 1	
			0.00
Window type 2	0.00	Wall type 2	0.00
Window type 2	0.00	Wall type 2 Wall type 3	0.00 0.00 0.00
Window type 2 Window type 3	0.00	Wall type 2	0.00 0.00 0.00
	0.00 0.00	Wall type 2 Wall type 3 Wall type 4	0.00
Window type 2 Window type 3 Total window area	0.00 0.00 67.69	Wall type 2 Wall type 3 Wall type 4	0.00 0.00 0.00

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	ROOFS			
MANUAL				
Type Mark	Туре	Area (m²)		
1	Prof_Metal_290rafters	56.80		
2	Prof_Metal_150rafters	13.60		
3	Prof_Metal_truss	75.60		
4		0.00		
5		0.00		

ROOF sub-totals per roof type	Area (m²)
Roof type 1	56.80
Roof type 2	13.60
Roof type 3	75.60
Roof type 4	0.00
Roof type 5	0.00

ROOF totals	Area (m²)
Sum of roof areas	146.00

Risk Matrix Calculation

to E2/AS1 Building Envelope Risk Matrix

for

PROPOSED HOUSE Esther and Peterson 142 Huia St Waikanae

Job Number: 11090

prepared by

A.D architecture

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Risk Matrix Calculation

to E2 / AS1 Building Envelope Risk Matrix



PROPOSED HOUSE	Job Number: 11090	
Esther and Peterson		Wind Zone
142 Huia St	Waikanae	Very High

Risk Factor Severity					
Wind Zone	Very High	2			
Number of storeys	Low	0			
Roof/wall intersection design	Low	0			
Eaves width	High	2			
Envelope complexity	Low	0			
Deck design	Low	0			
Total risk score					

Risk Factor Severity					
Wind Zone	Very High	Score 2			
Number of storeys	Low	0			
Roof/wall intersection design	Low	0			
Eaves width	Low	0			
Envelope complexity	Low	0			
Deck design	Low	0			
Total risk score		2			

2	Very High	CORPORATE AND ADDRESS OF THE PARTY OF THE PA
0		Wind Zone
_	Low	Number of storeys
5	Very High	Roof/wall intersection design
2	High	Eaves width
0	Low	Envelope complexity
0	Low	Deck design
	7.7	

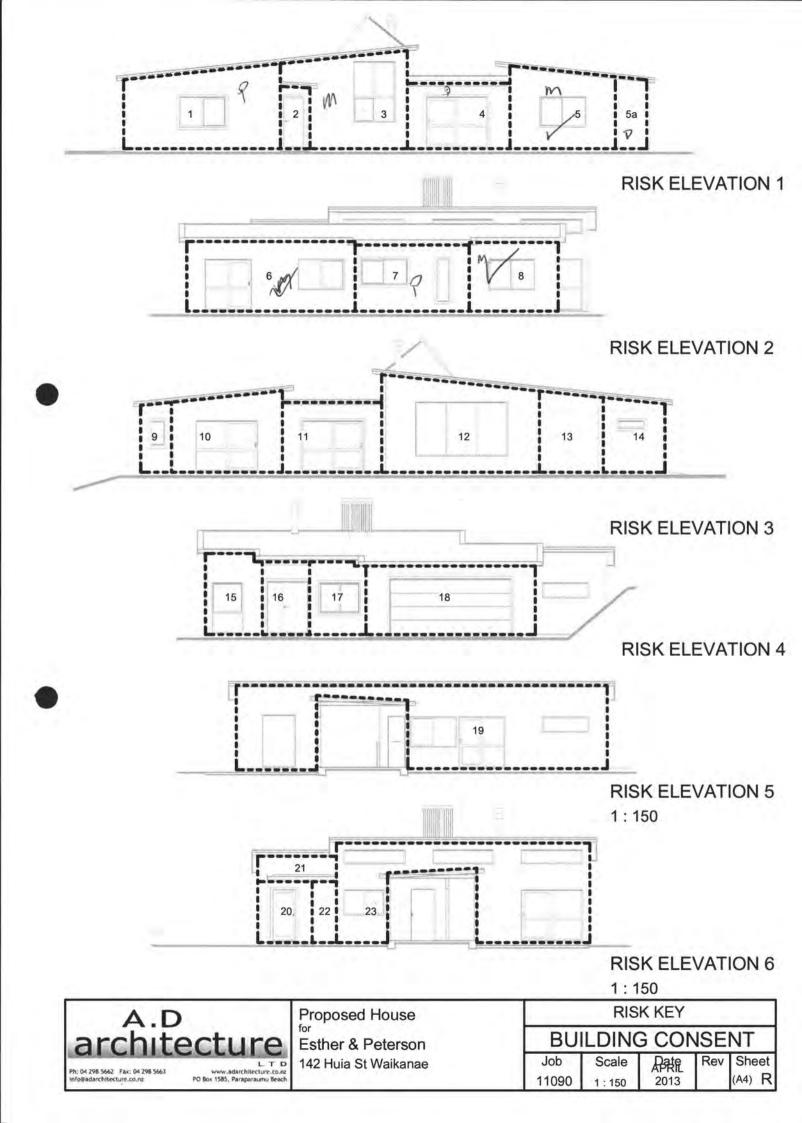
Risk Factor Severity						
Wind Zone	Very High	2				
Number of storeys	Low	0				
Roof/wall intersection design	Low	0				
Eaves width	High	2				
Envelope complexity	Low	0				
Deck design	Low	0				
Total risk score						

Risk Factor Severity						
Wind Zone	Very High	2				
Number of storeys	Low	0				
Roof/wall intersection design	Very High	5				
Eaves width	Medium	1				
Envelope complexity	Low	0				
Deck design	Low	0				
Total risk score						

Risk Factor	Score			
Wind Zone	Very High	2		
Number of storeys	Low	0		
Roof/wall intersection design	Low	0		
Eaves width	High	2		
Envelope complexity	Low	0		
Deck design	Low	0		
Total risk score				

Rtsk Factor Severity						
Wind Zone	Very High	2				
Number of storeys	Low	0				
Roof/wall intersection design	Very High	5				
Eaves width	Medium	1				
Envelope complexity	Low	0				
Deck design	Low	0				
Total risk score						

Risk Factor Severity					
Wind Zone	Very High	2			
Number of storeys	Low	0			
Roof/wall intersection design	Low	0			
Eaves width	Low	0			
Envelope complexity	Low	0			
Deck design	Low	0			
Total risk score					



Suitable Wall Claddings

to E2 / AS1 Building Envelope Risk Matrix



Face as per Risk-Key	Score	Cavity	Actual claddings	
1,5a,9,14,15,17	4	Yes	PLY AND BATTENS	
2,20	2	Yes	PLY AND BATTENS	
3,23	9	No	VERTICAL PROFILED METAL	
4,7,11,18,22	4	Yes	PLY AND BATTENS	
21	8	Yes	PLY AND BATTENS	
5, 6, 8, 10, 12, 13, 16	4	No	VERTICAL PROFILED METAL	
19	8	No	VERTICAL PROFILED METAL	

	Suitable Wall Claddings as per E2/AS1 - Table 3				
Risk	Direct fixed to framing	Over nominal 20mm drained cavity			
Score		Claddings on parapets, enclosed balustrades, and in Extra High wind zones shall be installed over drained cavity (5)(6)			
0 – 6	a) Timber weatherboards – all types b) Fibre cement weatherboards c) Vertical profiled metal (3) – corrugated and symmetrical trapezoidal d) Fibre cement sheet (4) (Jointed finish) e) Plywood sheet	a) Masonry veneer (2) b) Stucco c) Horizontal profiled metal (3) – corrugated and trapezoidal only d) Fibre cement sheet (Flush-finished) e) EIFS			
7 – 12	a) Bevel-back timber weatherboards b) Vertical timber board and batten c) Vertical profiled metal (3)(6) – corrugated only	a) Masonry veneer (2) b) Stucco c) Horizontal profiled metal – corrugated and trapezoidal only d) Rusticated weatherboards e) Fibre cement weatherboards f) Fibre cement sheet (Flush and jointed finish) g) Plywood sheet h) EIFS			
13 – 20	a) Vertical profiled metal (3)(6) – corrugated only	a) Masonry veneer (2) b) Stucco c) Horizontal profiled metal – corrugated and trapezoidal only d) Rusticated weatherboards e) Fibre cement weatherboards f) Fibre cement sheet (Flush and jointed finish) g) Plywood sheet h) EIFS i) Bevel-back weatherboards			
Over 20	a) Redesign the building to achieve a low b) Specific design The design may need changing to reduce the building consent authority may requestroyiding evidence of weathertightness. The building consent authority, designe. A third party audit of the design may be.	ce the risk uire more comprehensive details and documentation r or owner may require more inspections			

NOTES:

- (1) The wall claddings in this table are limited to those covered in this Acceptable Solution.
- (2) Traditional masonry veneer as per SNZ HB 4236, with minimum 40 mm cavity.
- (3) Refer Figure 38 for profiles.
- (4) Except stucco over a fibre cement backing.
- (5) Claddings in Extra High wind zones require rigid underlays Refer to Paragraph 9.1.7.2
- (6) Direct fix vertical corrugated steel is included as cavity construction

Definitions of Risk Levels

to E2 / AS1 Building Envelope Risk Matrix



Risk Factor	Score (5)	Risk Severity	Comments
A: Wind zone	0	Low risk	Low wind zone as described by NZS 3604
	0	Medium risk	Medium wind zone as described by NZS 3604
	1	High risk	High wind zone as described by NZS 3604
	2	Very high risk	Very high wind zone as described by NZS 3604
	2	Extra high risk	Extra high wind zone as described by NZS 3604 (4)
3: Number of storeys	0	Low risk	
s. Number of storeys	4		One storey
	1	Medium risk	Two storeys in part
	2	High risk	Two storeys
	4	Very high risk	More than two storeys
C: Roof/wall intersection	0	Low risk	Roof-to-wall intersection fully protected (e.g. hip and design gable roof with eaves)
	1	Medium risk	Roof-to-wall intersection partly exposed (e.g. hip and gable roof with no eaves)
	3	High risk	Roof-to-wall intersection fully exposed (e.g. parapets enclosed balustrades or eaves at greater than 90° to vertical with soffit lining)
	5	Very high risk	Roof elements finishing within the boundaries formed by the exterior walls (e.g. lower ends of aprons, chimneys, dormers etc)
D: Eaves width (1)(2)	0.	Low risk	Greater than 600 mm for single storey
	1	Medium risk	451 – 600 mm for single storey, or over 600 mm for two storey
	2	High risk	101 – 450 mm for single storey, or 451 – 600 mm for two storey, or greater than 600 mm above two storey
V	5	Very high risk	0 – 100 mm for single storey, or 0 – 450 mm for two storey, or less than 600 mm above two storey
E: Envelope complexity	0	Low risk	Simple rectangular, L, T or boomerang shape, with single cladding type
	1	Medium risk	Moderately complex, angular or curved shapes (e.g. Y or arrowhead) with no more than two cladding types
	3	High risk	Complex, angular or curved shapes (e.g. Y or arrowhead) with multiple cladding types
	6	Very high risk	As for High risk, but with junctions not covered in C or F of this table (e.g. box windows, pergolas, multi-storey re-entrant shapes etc)
: Deck design (3)	0	Low risk	None, timber slat deck or porch at ground floor level
	2	Medium risk	Fully covered in plan by roof, or timber slat deck attached at first or second floor level
	4	High risk	Enclosed deck exposed in plan or cantilevered at first floor level
	6	Very high risk	Enclosed deck exposed in plan or cantilevered at second floor level or above

NOTES:

- (1) Eaves width measured horizontally from external face of wall cladding to outer edge of overhang, including gutters and fascias.
- (2) Balustrades and parapets count as 0 mm eaves.
- (3) The term deck includes balconies, as described in the Definitions.
- (4) For buildings in Extra High wind zones, refer to Table 3 for rigid underlay and drained cavity requirements.
- (5) Refer also to Table 2