# Sharalyn Fraser

Statement of passing over information – This information has been supplied by the Vendor or the vendor's agents. Accordingly, Sharalyn Fraser Agency (Ownly Limited licensed (REA 2008) is merely passing over the information as supplied to us by the vendor or vendors agents. We cannot guarantee its accuracy and reliability as we have not checked, audited, or reviewed the information and all intended purchasers are advised to conduct their own due diligence investigation into the same. To the maximum extent permitted by law Sharalyn Fraser Agency (Ownly Limited licensed (REA 2008) does not accept any responsibility to any person for the accuracy of the information herein



#### CODE COMPLIANCE CERTIFICATE

SECTION 95, BUILDING ACT 2004

#### THE OWNER

Ward Anthony John & Ward Lorna Anne 110397 No. 35B Kotare Street Issue date 26/02/13 6/07/11

Waikanae 5036 Application date

#### THE BUILDING

Street Address 35B Kotare Street, Waikanae

Valuation No. 1496061603

Legal Description LOT 1 DP 409453 C/T 34B/419

Intended Use Residential dwelling

Intended Life Specified as Over 50 years years

Current Use

Proposal Build new house at north end of site. Build shed and garage at

south end of site. Construct retaining wall on excavation for

drive access.

\$500,000 Estimated Value

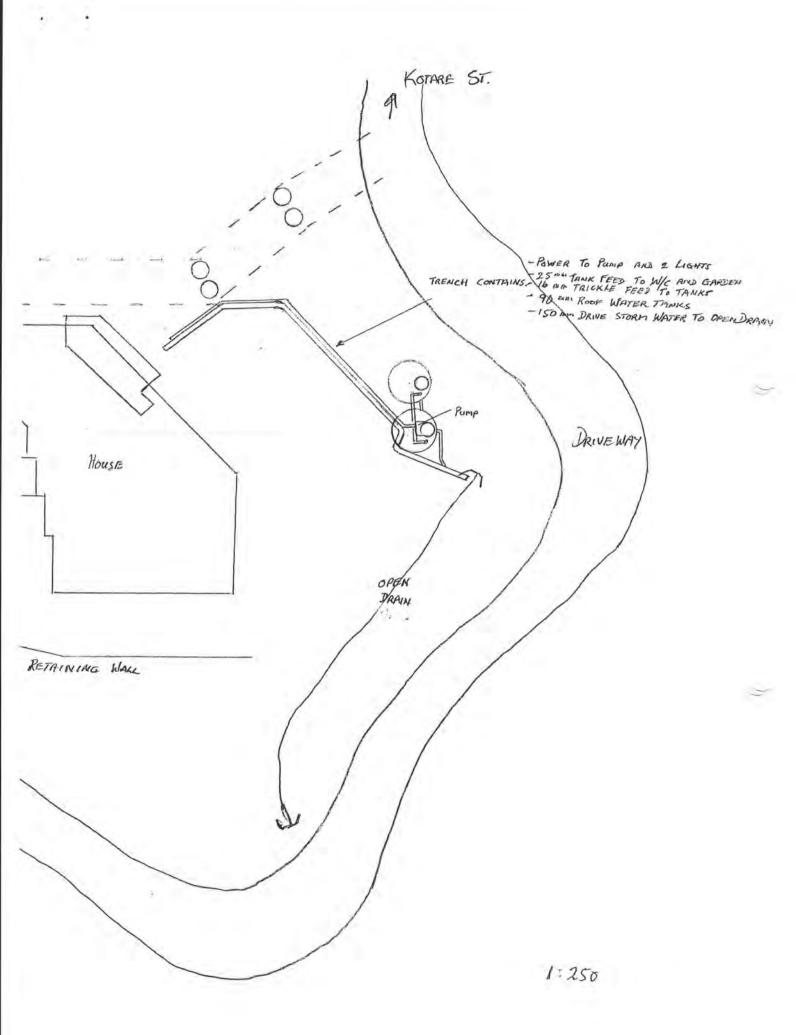
#### Code Compliance

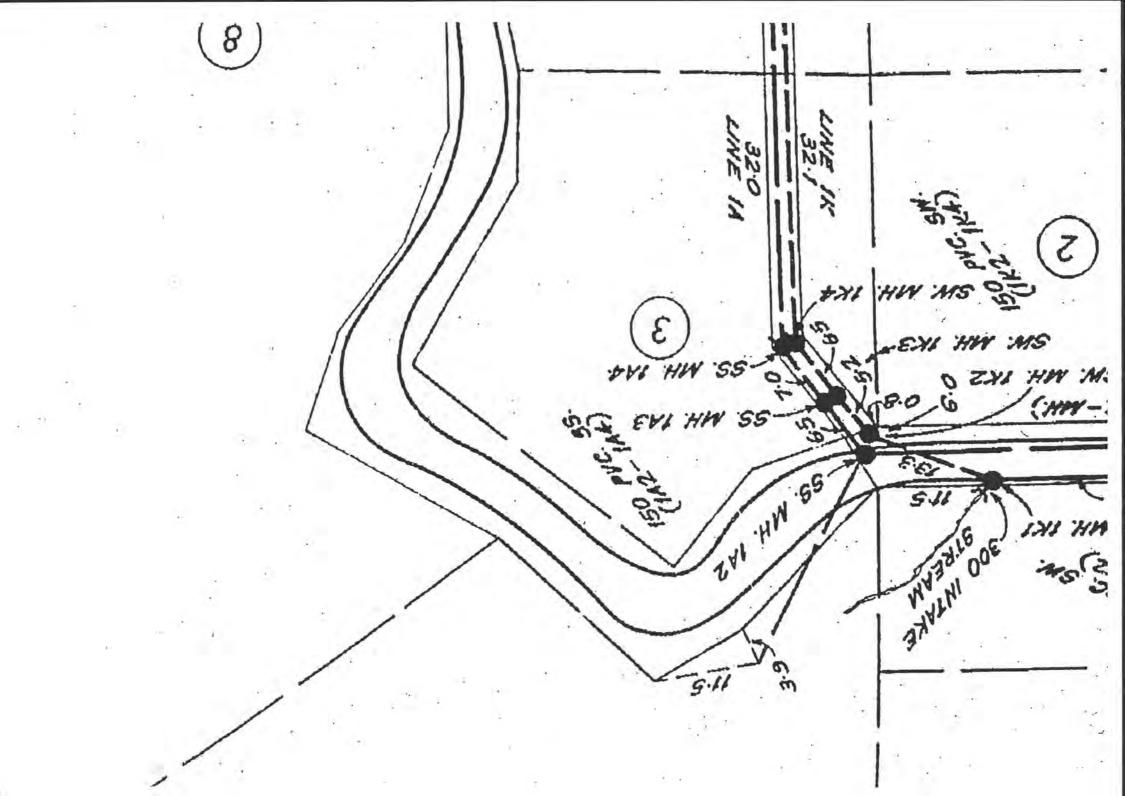
The building consent authority named below is satisfied, on reasonable grounds, that -

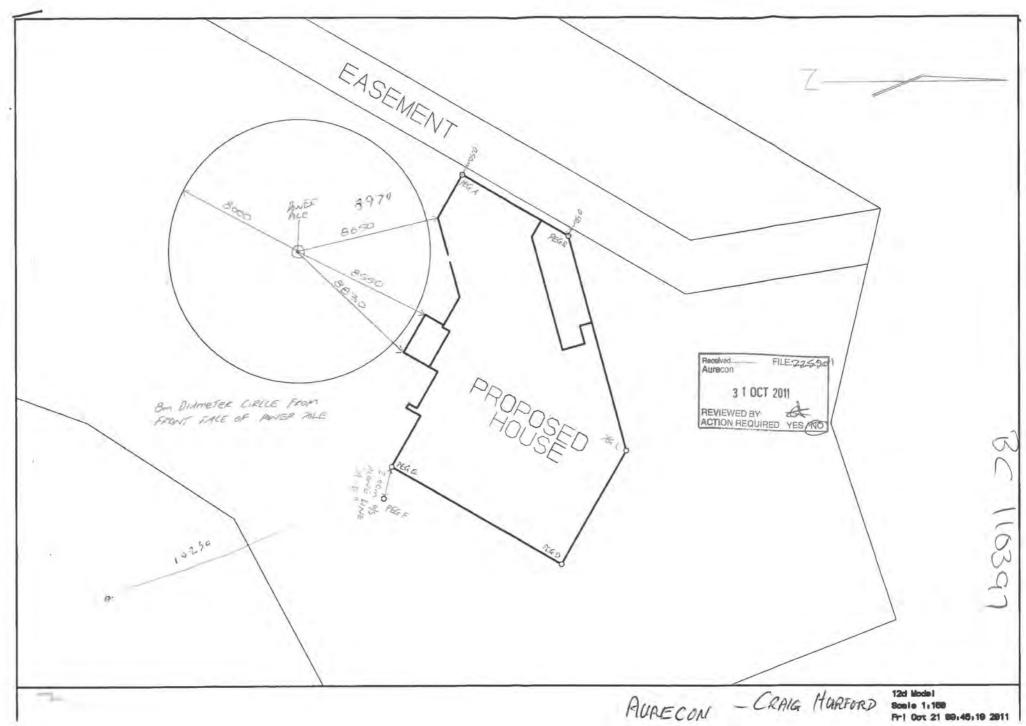
- a) The building work complies with the building consent; and
- b) The property owner must follow and carry out the manufacturers prescribed maintenance procedures.

Signed for and on behalf of the Kapiti Coast District Council:

Signature:

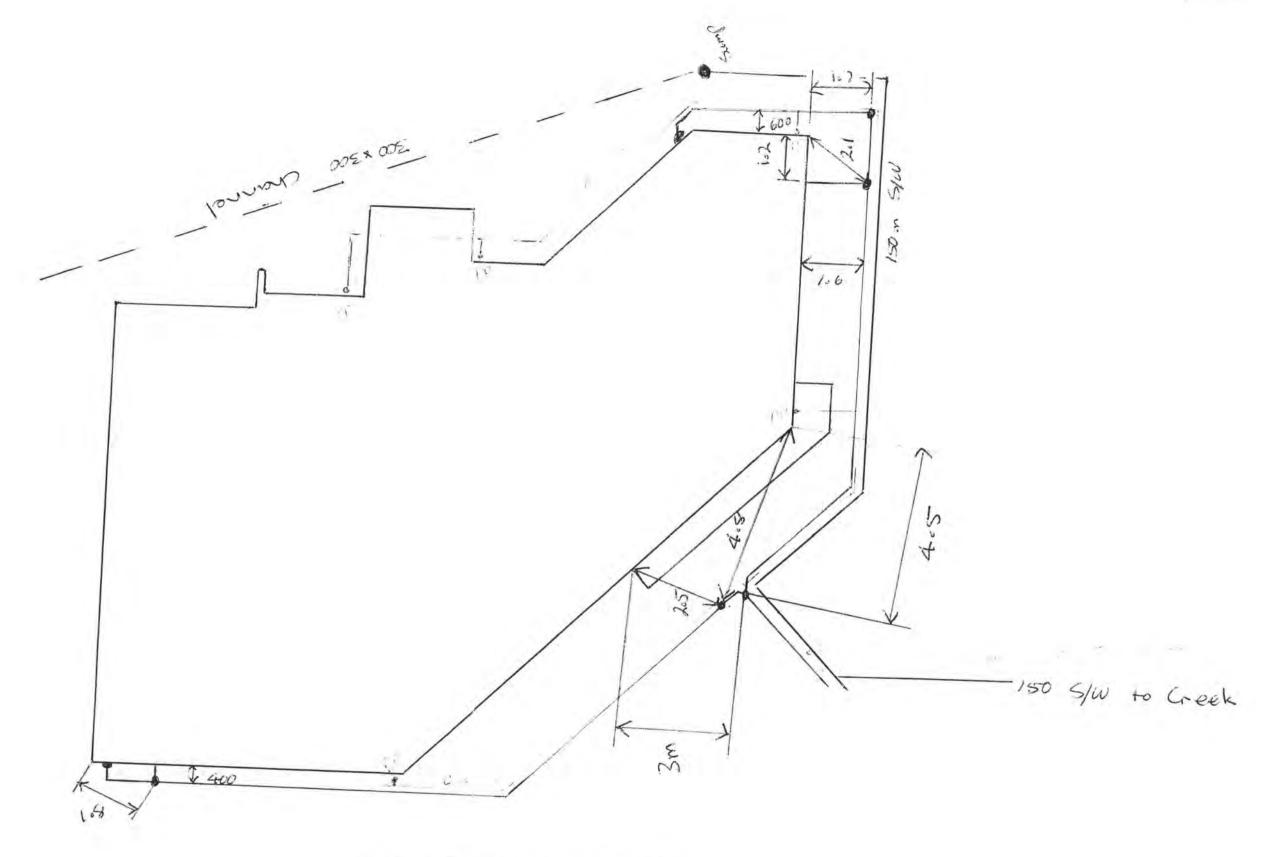






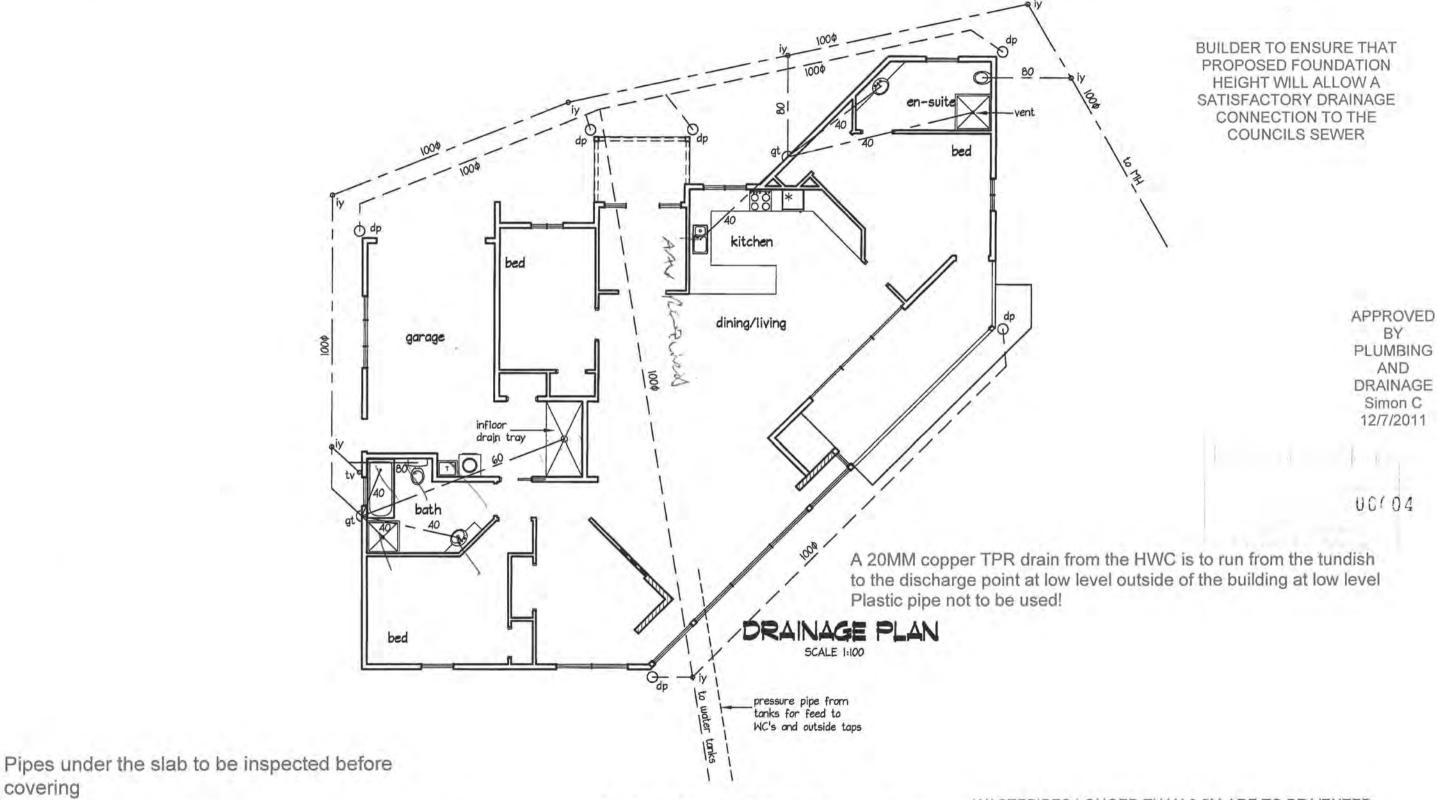
Scale 1:168 Fr1 Oct 21 89:45:19 2811

Building Inspector and Brion Sweetnam. (Builden) Confirmed position of building against this flow on site Nov. 2011.



35 B Kotare ST Walkanne





covering

Civil, Structural and Building design http://www.designscape.net.nz email info@designscape.net.nz

Allan Pullenger AIPENZ CertETn 298 Rosetta Road sunny Raumati

phone & fax 04 902 8528 Mob 027 442-0486

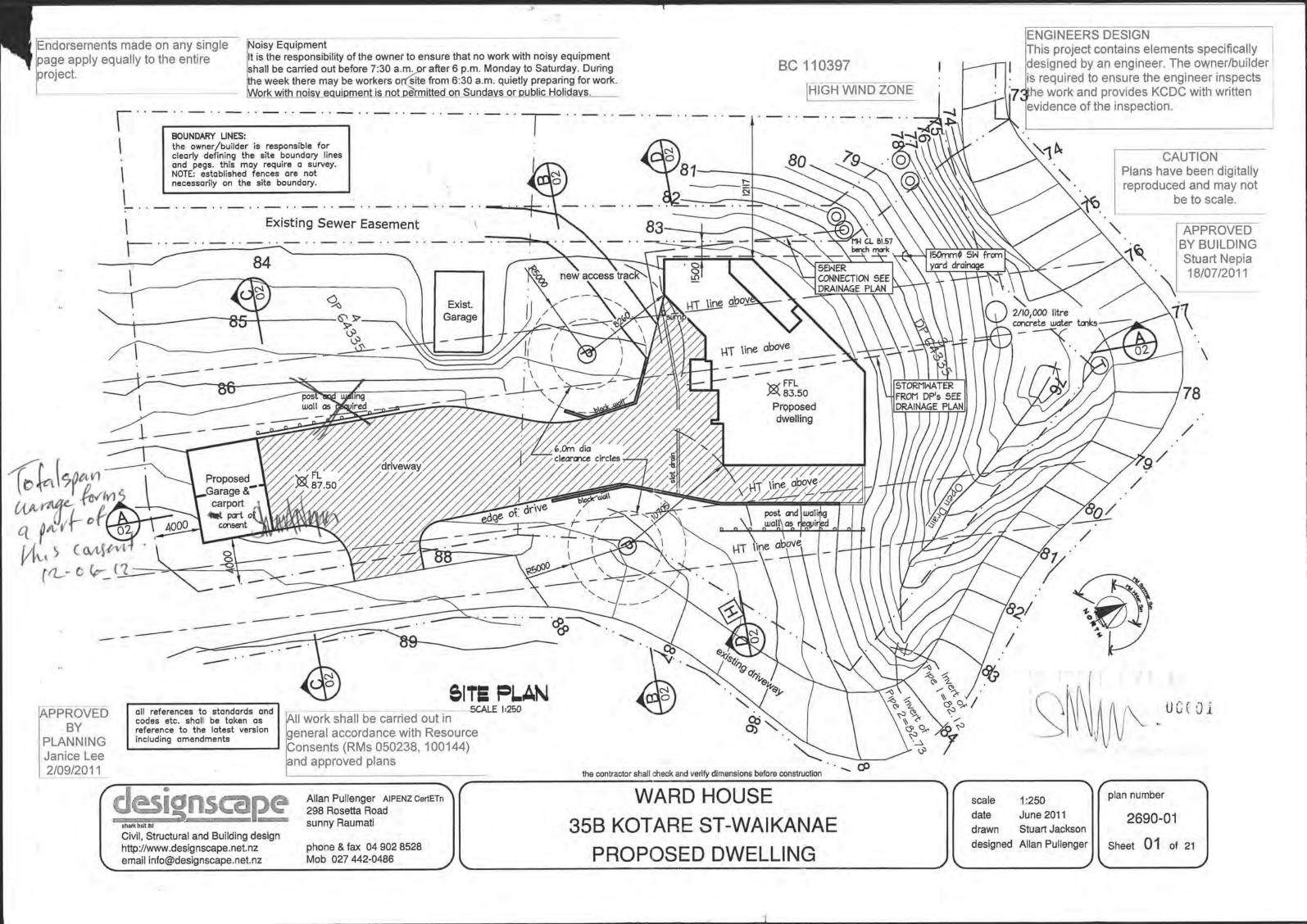
the contractor shall check and verify dimensions before construction

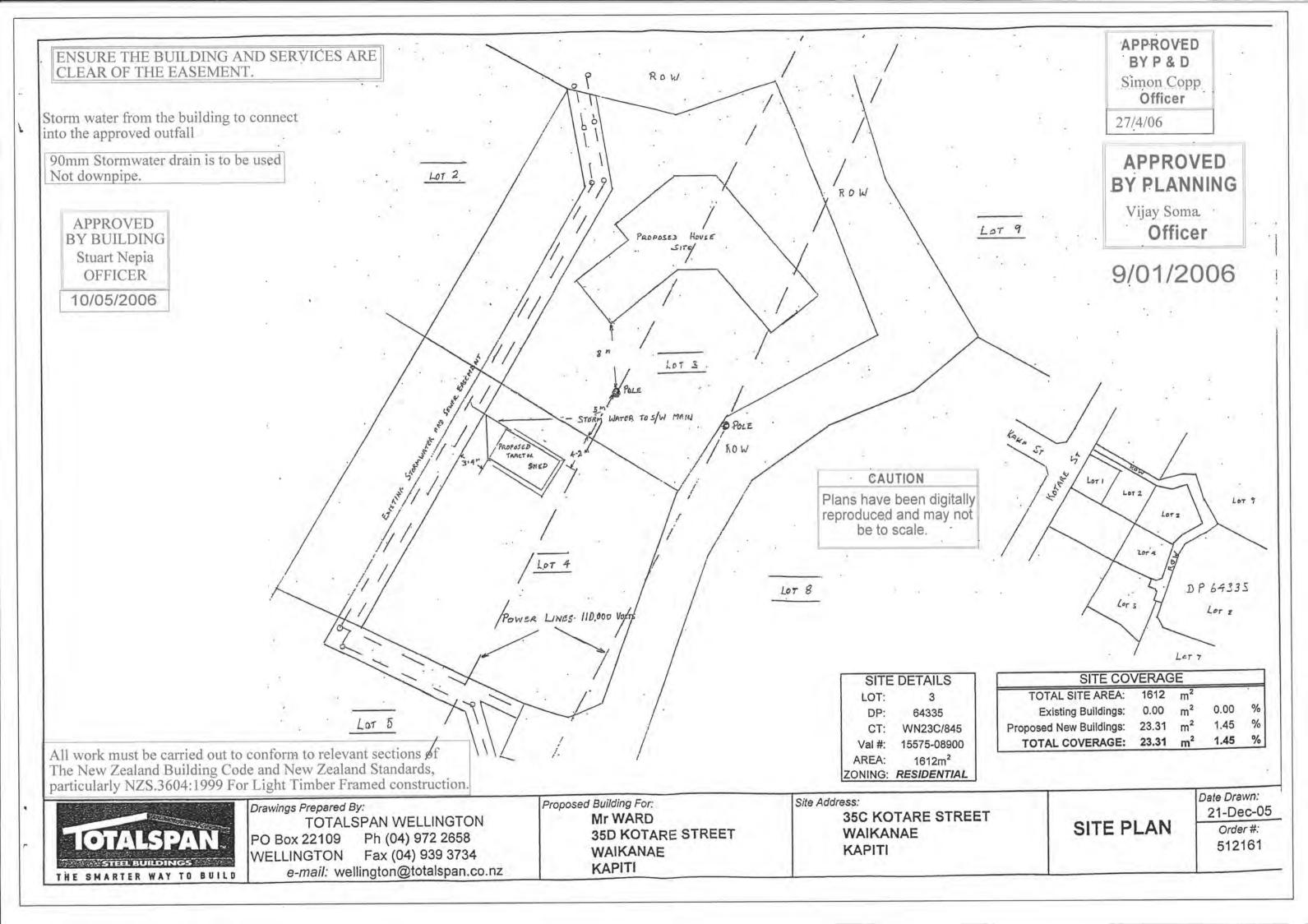
WARD HOUSE 35B KOTARE ST-WAIKANAE PROPOSED DWELLING

WASTEPIPES LONGER THAN 3.5M ARE TO BE VENTED

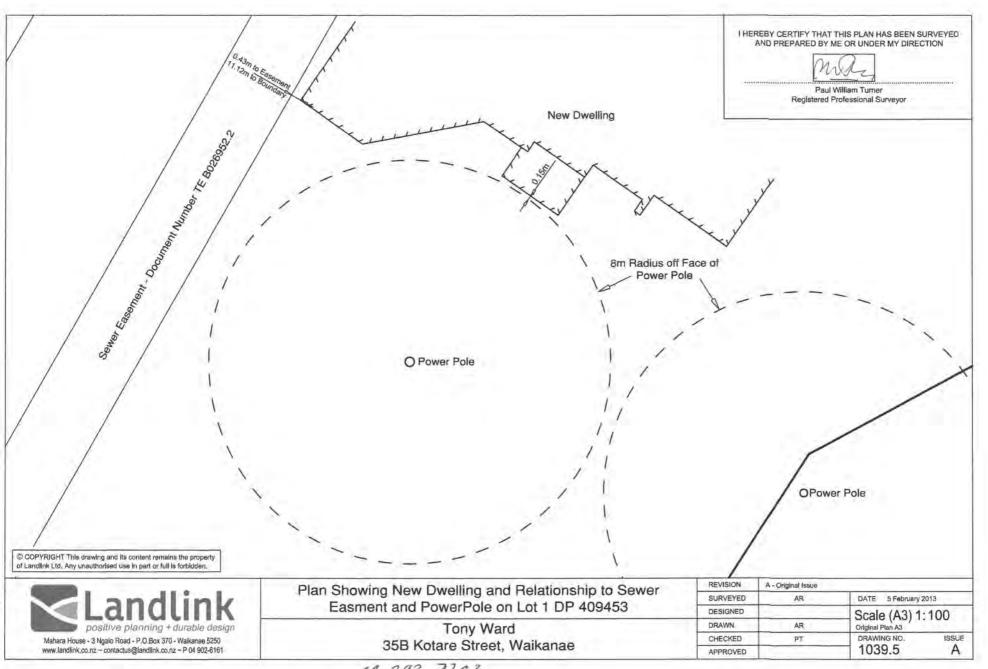
scale 1:100 date June 2011 Stuart Jackson drawn designed Allan Pullenger

plan number 2690-01 Sheet 04 of 21





FOR. CO.C. -> ANDREW.



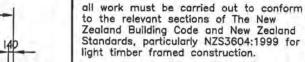
04 293 7203

3500

2620

17546

2360



2860

900wx1800h

90 903

TIMBER TREATMENT

exterior wall framing MSG 8, H1.2 interior wall framing MSG 8, H1.1 roof framing MSG 8, H3.1

BOTTOM PLATE FIXING:

10mm dia. cast in @ max 900 crs 12mm dia. cast in @ max 1400 crs approved anchors (fixed to manufacturers instructions.) Ramset AS12150H anchours for connections with 15kN requirements

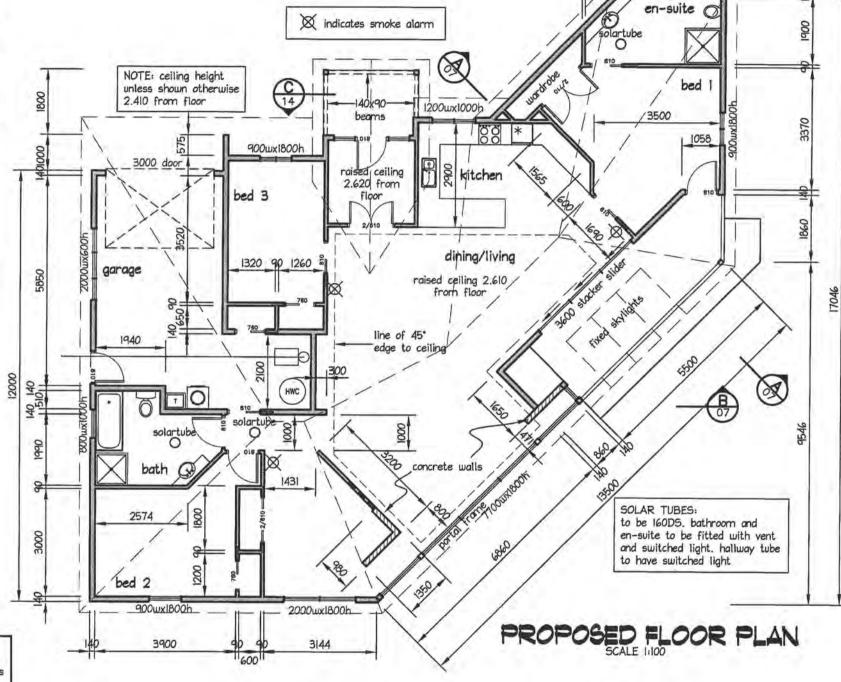


#### **ELEVATIONS**

TOP PLATE FIXING:

where walls are supporting trusses the top plate must be fixed to the supporting member (e.g. studs and lintels) as per table 8.18 NZS3604:1999





OCLO

ENGINEERS DESIGN:

this project contains elements specifically designed by an engineer, the owner/builder is required to ensure the engineer inspects the work and provides the local body with written evidence of the inspection.

designscape

civil, Structural and Building design http://www.designscape.net.nz

Allan Pullenger AIPENZ CertETn 298 Rosetta Road sunny Raumati

phone & fax 04 902 8528 Mob 027 442-0486 the contractor shall check and verify dimensions before construction

WARD HOUSE 35B KOTARE ST-WAIKANAE PROPOSED DWELLING

scale 1:100
date June 2011
drawn Stuart Jackson
designed Allan Pullenger

plan number 2690-01

Sheet 05 of 21

## Producer Statement

### Piped Services & Sanitary Plumbing Stacks

## Construction Review

Issued by Andy Magee R	egistration Number 11661
To Kapiti Coast District Council	egistration Number. (LD. V.)
In respect to the following	
Piped Services installed in accordance w plans or as per the attached amended pl in accordance with G13/AS1 or AS/NZS	an and Sanitary Plumbing Stacks installed
Installed at 35 <sup>B</sup> Kotare St	Waikange
Building Consent No. 110397	
New Zealand Building Code. Both hot ar for a period of 15 minutes at a pressure of Name. A Magee Signed.	Mags Date 24/5/12
KCDC O	ffice use only
Producer Statement author authenticate	d and current registration verified
Verification & Registration checked: https://	/www2.pgdb.co.nz/PGDB/PublicRegister
Date	Validity authenticated in accordance with KCDC Policy 002
Name	
Signature	2 1 NOV 2012
KCDC Form 125 ver 2	Signature: (17)

### **Producer Statement**

#### **Private Sewer Drains**

Construction Review

Issued by David Hadges Registration Number 16176	
To Kapiti Coast District Council	
In respect to the following	
Private Sewer Drains installed in accordance with G13 AS2 or AS/NZS 3500 .2.2 as shown on the approved plans or as per the attached amended plan	
Installed at 35 B Kotare ST Waikanae	
Building Consent No. 1.10.39.7  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.	
Name. Dav. A. Hoologes Signature. Delegation. Date. 3-3-12.  Note: Fully dimensioned as built drain plan to be supplied. (scale 1:100)  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 exposed.	
KCDC Office use only	
Producer Statement author authenticated and current registration verified	
Verification & Registration checked: https://www2.pgdb.co.nz/PGDB/PublicRegister	10
Date	12
Name	
Signature	_

#### **Producer Statement**

#### Stormwater Drains

#### **Construction Review**

Issued by David Hoolges Registration Number 16176
To Kapiti Coast District Council
In respect to the following
Stormwater Drains installed in accordance with E1 AS1 as shown on the approved plans or as per the attached amended plan
Installed at 35 13 Notare ST Waikanae
Building Consent No.1.10.397
As a registered drainlayer, currently holding an annual practicing license, certify

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. Mala Date 3-3-12

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

2 1 1:04 24/2

Signature:



2-2-2012S	COPE OF INSI	PECTION SHEET	ection No.	
Oate Date Date Date Date Date Date Date D		Project Description	Documents on site YES	No
Building Plumbing	Circle appropriate	Type & Inspection Other		
Site Found Piles PreSlab Subfloor	Drainage PreWrap PreC	lad Weathertight PreLine Po	stLine Block Brick Ret.V	Vall Final
Notes to Kegne ck Leen cen at previ Lan ti	Tens ha np leton ous preli evived n on eng	Dia ve new as request ine: eur brace ineer.	gram (if necessary)	
Photo's Taken – Nos	sayed / scanne	d2 Y / N		
Site instruction issued	saved / scarne			
		Result: Pass	Part pass	Fail
Confirmation of inspection by perso	n on site			
Person on site: Builder Owne	er 🗌 Other 🗀		No One on site	
Your next inspection will be(Guidance notes for inspection on the rear of this sh	neet)			
		/	9.2	200
Agreed, CRALG CLOAD	ŞSign	Ballery .	Date	100
Agreed, CNALG GLOAD  Officer Name A A CAL	1WSign	nal Insp. Sheet No.	Date 2,3	1201

#### 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

- 1. The information contained on the Building Inspection Report Sheet is held by the Kapiti Coast District Council, whose address is Private Bag 601, Paraparaumu.
- 2. The information is available for public inspection as part of the Building Record of the property concerned.
- 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



#### WEATHERTIGHTNESS / PRELINE / POSTLINE

wner Name				The second secon				Alen a		_	
P = Pass F = Fai Inspection decisions	l are l	NA base	= Nor	strict reference to the  n-Applicable  he extent of work inspect for definition of the	ecte	ed at	the tin	ne of inspection.			
Applies to all insp	ecti	ons									
Sighted previous inspection notes	(m)	N	NA	Conforms with approved drawings	Υ	N	NA	Confirm Additional information/amended plan	Y	N	NA
WEATHERTIGHT	VES:	5						<del></del>			
Cladding selection complies with BC?	Р	F	A	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?	Р	F	NA	Sheet layout	Р	F	N
Ridge/hip flashings in place	Р	F	NA	Roof/wall junctions flashed	Р	F	NA	Control joints where appropriate	Р	F	N/
Penetrations correctly flashed	Р	F	NA	Fixings appropriate for bracing elements	P	F	NA	Flashings in place	Р	F	NA
Clearance provided for fascia & spouting	Р	F	NA	Ground clearances achieved	P	F	NA	Clearance off deck surface	Р	F	NIA
Flashings/wraps in place, parapets/barriers	Р	F	NA	Glazing human impact	P	F	NA	Truss/Rafter fixings	Р	F	NA
PRELINE			1 1								1
Max moisture Content%	Р	F	ÅN	Insulation R Value	Р	F	NA	Bracing connections	<b>(D)</b>	P	N/
Ventilation to rooms	Р	F	NA	Top plate connection	P	F	NA	Air seals	Р	Ê	N
Timber treatment	Р	F	NA	Ceiling batten spacing	Р	F	NA	Bottom plate fixings	Р	F	N
Lintel/beam size & fixing	Р	F	NA	Stud spacing	Р	F	NA		Р	F	N
Plumber Name			1	TPR line	P	F	NA	Waste pipe size & test	P	F	N/
Soil pipe size and test	P	F	NA	Inbuilt S/W pipes tested	P	F	NA	Floor wastes	P	P	N/A
Pipes fixed/supported	Р	F	NA	Vents terminated	P	F	NA	Shut off valves	Р	F	N/
System: AS3500, G13, Other	Р	F	NA	Pressure Test	P	F	NA	Fire wraps and collars	Р	F	N/
POSTLINE											1
Sheet bracing	Р	F	NA	Wet area substrate system	P	F	NA	Sheet fixings	Р	Ê	N/
Penetrations sleeved	Р	P	NA		P	F	NA	Fire/Acoustic separation	Р	F	N/
$\wedge$						1	$\Lambda$				0.0



02.2.2.2	SCOPE OF INSE	PECTION SHEET	0
Date LS L'O	SR or BCA	0.59.7Inspec	
Time		1/1	Documents on site YES /NO
Owner Name	Kotare St	Project Description	w awg
Site Address			
Building Plumbing	Circle appropriate	Type & Inspection Other	
Site Found Piles PreSlab Sub	ofloor Drainage PreWrap PreCl	ad Weathertight PreLine Post	Line Block Brick Ret.Wall Final
Engineer Supervision Yes	No n/a – Name		
Notes M/C 16-19	alls and will		
* ceiling for A PEF 10ds	e battens 70x3 n prewiop placed - to pl	have been con	npleted.
		**********	
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Photo's Taken – Nos.	saved / scannec	12 Y / N . /	. / 1
Site instruction issued	metal coinei	s to be place	ed to welaing
	shoners x2	_	
* (	costimation	lion engineer	regarding
	ELI 900 brace	to ensuit in	icather it can
	be deleted.	And 2 95/ 6	600 at front
	entrance can	be changed	to 1 BL 450
★ X	2 handibracs		
\$ W	rove flush box's	to blace elemen	Part pass Fail
Confirmation of inspection by		o side elemen	750
Person on site: Builder	Owner Other	1 1	
Your next inspection will be (Guidance notes for inspection on the rear	Vac.	hece.	
Agreed, RAMA	wee we sign	165	Date 23/ 2/2012
Officer Name	(LW Sign(	2.7	Date 23 12 12017
Onicer (vaille		al Insp. Sheet No	Date:
	,	AND THE PROPERTY OF THE PARTY O	

Information entered into data base

Date ...../.....

Initial .....



ne								Documents on	site '	YES /	OV
vner Name				P	roject	Desci	ription.	Men Co			
e Address		Ł.	a.la.	e St					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
All inspections are c	arriec	out	with s	trict reference to the	build	ling c	onsen	t granted.			
				-Applicable							
the second section and the second section is the second section of				ne extent of work insp							
Please refer to the re	elated	sco	pe she	eet for definition of th	e ins	pecti	ons ex	tent.			
Applies to all insp	oecti	ons									
Sighted previous inspection notes	(7)	N	NA	Conforms with approved drawings	Y	N	NA	Confirm Additional information/amended plan	3	N	N
WEATHERTIGHT	VESS	;							0		
Cladding selection complies with BC?	Р	F	NA	Roof material complies with BC?	Р	F	NA	Sheets fixed to manufacturers	Р	F	1
Roof fixing complies	Р	F	NA	Fixings appropriate for durability?	Р	F	NA	Sheet layout	P	F	1
Ridge/hip flashings in place	Р	F	NA	Roof/wall junctions flashed	Р	F	NA	Control joints where appropriate	Р	F	1
Penetrations correctly flashed	Р	F	NA	Fixings appropriate for bracing elements	Р	F	NA	Flashings in place	Р	F	1
Clearance provided for fascia & spouting	Р	F	NA	Ground clearances achieved	Р	F	NA	Clearance off deck surface	Р	F	١
Flashings/wraps in place, parapets/barriers	Р	F	NA	Glazing – human impact	Р	F	NA.	Truss/Rafter fixings	Р	F	1
PRELINE				ne m							
Max moisture 6.9%	0	F	NA	Insulation RZ6+R	(P)	F	NA	Bracing connections	Р	0	1
Ventilation to rooms	1	F	NA	Top plate connection	Р	F	NA)	Air seals	(e)	F	1
Timber treatment	8	Ē	NA	Ceiling batten spacing	(P)	F	NA	Bottom plate fixings	0	F	1
Lintel/beam size & fixing	P	F	(AM)	Stud spacing	P	F	NA		Р	F	1
Plumber Name				TPR line	Р	F	NA	Waste pipe size & test	Р	Ė	ŋ
Soil pipe size and test	P	F	ŅΑ	Inbuilt S/W pipes tested	Р	F	NA	Floor wastes	Р	F	-
Pipes fixed/supported	Р	F	NA	Vents terminated	Р	F	NA	Shut off valves	Р	F	-
System: AS3500, G13, Other	Р	F	NA	Pressure Test	Р	F	NA	Fire wraps and collars	Р	F	1
POSTLINE											
Sheet bracing	P	Ē	NA A	Wet area substrate system	Р	È	NA	Sheet fixings	Р	F	-
Penetrations sleeved	Р	F	NA		Р	F	NA	Fire/Acoustic separation	Р	F	ľ
							^				
							/				



Date 25-2-2013	SR or BCA	2397	Inspection No	
Time	7 . QZ P	roject Description	Documents on site  VW dwg  Restricted Building Work	YES / NO
Building Plumbing	Circle appropriate Ty	pe & Inspection	ther	
Site Found Piles PreSlab Subfloor I	Drainage PreWrap PreClad	Weathertight PreLine	PostLine Block Brick F	Ret.Wall Final
Engineer Supervision Yes No  Notes  # QD built du  Provioled t  Qwelling  # OK to 155UL	velling plan is outside			
Photo's Taken – Nos	saved / scanned? \	//N		
Confirmation of person on site		Result: Pa	SS Part pass	Fail
Name	LBP No.			
Your next inspection will be(Guidance notes for inspection on the rear of this she	et)			
Agreed, (Print Name) Officer Name	Sign	Qu XX		
Information entered	into data base 🔲 Ini	tial	Date//	



#### **FINAL INSPECTION**

NA pase	= Nor d on t	strict reference to the n-Applicable he extent of work insp	buil	ding	conse	nt granted			
ectic		eet for definition of th			the ti	me of inspection.			
	ons	Conforms with approved	2 1			Confirm Additional			
N	NA	drawings	Ø	N	NA	information/amended plan	Υ	(18)	NA
	1								
F	NA	Roof fixings	Р	F	NA	Spouting + Down-pipes	Р	F	N
F	NA	Flashings – Roof	Р	F	NA	Penetrations – Flashings	Р	F	N
F	NA	Gully Dishes	Р	F	NA	Storm-water + site drainage	Р	F	N
F	NA	Wastes to gully	Р	F	NA	Fixings – Durability	Р	F	N
F	NA	Terminal vents/AAV's	Р	F	NA	Cladding painted/sealed	Р	F	N
F	NA,	Cladding Ground Clearance	Р	F	NA		P	F	_
	1				-				
F	NA	Food storage/preparation	Р	F	NA	Hot water temp	Р	F	N
F	NA	Ventilation	Р	F	NA	Solid fuel heater	Р	F	N
F	NA	Insulation + clearance	Р	F	NA	Water supply tank	Р	F	N
F	NA	HWC flues	Р	F	NA	Trap seals + AAV's	Р	F	N
F	NA	HWC valves	Р	F	NA	Cistern flushing	Р	Ê	N
F	NA	HWC restraint	Р	F	NA	WC pan connection	Р	F	٨
F	NA	Tempering valve	Р	F	NA.	Septic tank	Р	F	N
F	NA	Glazing – Human Impact	Р	F	NA	Window labels	Р	F	N
Cor	nmer	cial							
F	NA	Guarantees/Warranties/ Certificates/ Expert Opinion	Р	F	Na	Intertenancy STC	P	F	N
F	NA	Energy Certificates supplied	Р	F	NA	Final Check Complete	Υ	N	
	F F F F F F F F F F F F F F F F F F F	F NA	F NA Gully Dishes F NA Wastes to gully F NA Terminal vents/AAV's Cladding Ground Clearance F NA Food storage/preparation F NA Ventilation F NA Insulation + clearance F NA HWC flues F NA HWC valves F NA HWC restraint F NA Glazing - Human Impact  // Commercial Guarantees/Warranties/ Certificates/ Expert Opinion  Energy Certificates	F NA Flashings – Roof P F NA Gully Dishes P F NA Wastes to gully P F NA Terminal vents/AAV's P Cladding Ground Clearance P F NA Food storage/preparation P F NA Ventilation P F NA Insulation + clearance P F NA HWC flues P F NA HWC valves P F NA HWC restraint P F NA Glazing – Human Impact P  // Commercial  Guarantees/Warranties/ Certificates/ Expert Opinion P  Energy Certificates	F NA Flashings – Roof P F F NA Gully Dishes P F F NA Wastes to gully P F F NA Terminal vents/AAV's P F Cladding Ground Clearance P F F NA Ventilation P F F NA Insulation + clearance P F F NA HWC flues P F F NA HWC valves P F F NA HWC restraint P F F NA Glazing – Human Impact P F Commercial  Guarantees/Warranties/ Certificates/ Expert Opinion P F Energy Certificates	F NA Flashings – Roof P F NA F NA Gully Dishes P F NA F NA Wastes to gully P F NA F NA Terminal vents/AAV's P F NA Cladding Ground Clearance P F NA F NA Food storage/preparation P F NA F NA Ventilation P F NA F NA Insulation + clearance P F NA F NA HWC flues P F NA F NA HWC valves P F NA F NA HWC valves P F NA F NA Glazing – Human Impact P F NA Commercial  Guarantees/Warranties/ Certificates/ Expert Opinion P F NA  Energy Certificates	F NA Gully Dishes P F NA Storm-water + site drainage F NA Wastes to gully P F NA Fixings – Durability F NA Terminal vents/AAV's P F NA Cladding painted/sealed F NA Ground Clearance P F NA Hot water temp F NA Ventilation P F NA Solid fuel heater F NA Insulation + clearance P F NA Water supply tank F NA HWC flues P F NA Cistern flushing F NA HWC valves P F NA Cistern flushing F NA HWC restraint P F NA Septic tank F NA Guarantees/Warranties/ Certificates/ F NA Guarantees/Warranties/ Certificates/ Expert Opinion P F NA Intertenancy STC  Energy Certificates	F NA Flashings – Roof P F NA Penetrations – Flashings P F NA Gully Dishes P F NA Storm-water + site drainage P F NA Wastes to gully P F NA Fixings – Durability P F NA Terminal vents/AAV's P F NA Cladding painted/sealed P F NA Ground Clearance P F NA Cladding painted/sealed P F NA Food storage/preparation P F NA Solid fuel heater P F NA Ventilation P F NA Solid fuel heater P F NA Insulation + clearance P F NA Water supply tank P F NA HWC flues P F NA Trap seals + AAV's P F NA HWC valves P F NA Cistern flushing P F NA HWC restraint P F NA WC pan connection P F NA Tempering valve P F NA Septic tank P F NA Glazing – Human Impact P F NA Window labels P  //Commercial  Energy Certificates	F NA Flashings – Roof P F NA Penetrations – Flashings P F F NA Gully Dishes P F NA Storm-water + site drainage P F F NA Wastes to gully P F NA Fixings – Durability P F F NA Terminal vents/AAV's P F NA Cladding painted/sealed P F F NA Ground Clearance P F NA Hot water temp P F F NA Ventilation P F NA Solid fuel heater P F F NA Insulation + clearance P F NA Water supply tank P F F NA HWC flues P F NA Trap seals + AAV's P F F NA HWC valves P F NA Cistern flushing P F F NA HWC restraint P F NA Septic tank P F F NA Glazing – Human Impact P F NA Window labels P F F NA Glazing – Human Impact P F NA Window labels P F F NA Garantees/Warranties/ Certificates/ Expert Opinion P F NA Intertenancy STC P F



## FILE NOTE Consents & Compliance Division

FILE NUMBER:	
OFFICER: Andrew	
DATE:	
Final recheck	
11/101 Telffler	
* spoke with Russell regarding site inspection	
17 + (/ -/: / 20 - 1 20	
* Kussell agreed that contingition and hen	201
as built site plan and note is regulte	9
to reposititioning of dwelling, from a surv	19901
* Long Tony 17-1-15 @ 2:47 continuing that at	1810
Inote is required.	
- 1/I	
Signature:	



Date 17-1-2013 SR or BCA 110397 Inspection No. 15
Date SR or BCA SR or BCA Inspection No. Documents on site YES NO
Owner Name Project Description  Site Address SSB KOTG/L St Restricted Building Work YES (NO)
Building Plumbing  Circle appropriate Type & Inspection Other
Site Found Piles PreSlab Subfloor Drainage PreWrap PreClad Weathertight PreLine PostLine Block Brick Ret.Wall Fine
Engineer Supervision Yes No n/a - Name  Notes # Recheller  Diagram (if necessary)  # CONNO   2 5 + 4 00 00  # CONNO   2 5 + 4 0
Confirmation of person on site  Name  LBP No.
Your next inspection will be(Guidance notes for inspection on the rear of this sheet)
Agreed, Sign Sign Officer Name Sign Date Information entered into data base Initial Date



#### FINAL INSPECTION

											NO
vner Name	~ «	1	2/	10 57 P	rojec	Desc	cription			**********	
e Address				<u> </u>						4	
All inspections are	, angela	d au	واغارين	atriat reference to the	la cit	به جالم		-tt-d			
P = Pass F = F				strict reference to the n-Applicable	buil	aing	conse	ent granted.			
				the extent of work insp	pecte	ed at	the ti	me of inspection.			
All the second of the second of				neet for definition of th				The state of the s			
Applicable to a	ll insp	ectio	ons	2011							
Sighted previous inspection notes	8	N	NA	Conforms with approved drawings	(9)	N	NA	Confirm Additional information/amended plan	0	N	N.
FINAL - Exterio	or										
Sub-floor ventilation	Р	F	NA	Roof fixings	Р	F	NA.	Spouting + Down-pipes	P	F	N
Deck Structure	Р	F	NA	Flashings – Roof	Р	F	NA	Penetrations – Flashings	Р	F	N
Barriers	Р	F	NA	Gully Dishes	Р	F	NA	Storm-water + site drainage	Р	F	N
Handrails	Р	F	NA	Wastes to gully	P	F	NA	Fixings – Durability	Р	F	1
Steps/Stairs	Р	F	NA	Terminal vents/AAV's	Р	F	NA	Cladding painted/sealed	Р	F	١
Flashings – Windows/Doors	Р	F	NA	Cladding Ground Clearance	Р	F	NA		Р	F	1
FINAL – Interior	r										
Service areas – floors/walls	Р	F	NA	Food storage/preparation	Р	F	NA.	Hot water temp	Р	F	Ŋ
Stair design	P	F	NA	Ventilation	Р	F	NA	Solid fuel heater	Р	F	N
Handrails	Р	F	NA	Insulation + clearance	Р	F	NA	Water supply tank	Р	F	N
Balustrades	Р	F	NA	HWC flues	Р	F	NA	Trap seals + AAV's	Р	F	
Lightings	Р	F	NA	HWC valves	Р	F	NA	Cistern flushing	Р	F	n
Laundering	Р	F	NA	HWC restraint	Р	F	NA	WC pan connection	Р	F	N
Cooking facilities	Р	F	NA	Tempering valve	Р	F	NA	Septic tank	Р	F	N
Smoke detectors	Р	F	NA	Glazing – Human Impact	Р	Ê	NA	Window labels	Р	F	N
FINAL - Interte	nancy	Cor	nmer	cial							
				Guarantees/Warranties/							
Fire/Life systems sighted	Р	F	NA	Certificates/ Expert Opinion	Р	F	NA	Intertenancy STC	Р	F	N
All Inspections					1						
Road Crossing Complete	Р	F	NA	Energy Certificates supplied	P	F	NA	Final Check Complete	Y	N	
					-						



Date 21:11-201	SCOPE OF INSP	ECTION SHEET	pection No. 14	
Time	j	Project Description	Documents on site YES  VOLWG + GG1	rage.
Building Plumbing	Circle appropriate	Type & Inspection Othe	r	
Site Found Piles PreSlab Subfloo	or Drainage PreWrap PreCla	ad Weathertight PreLine Po	ostLine Block Brick Ret.V	Vall Final
Notes K. 991999 C. Between Diaces C. Bortals  A Dwelling R. Stylights  * Yecycled	emplete, their wide and connection complete complete	mal bicale Di Steel frame	s and	
Photo's Taken - Nos.  Site instruction issued ()  Notes (2) extended ()  Sign to extend ()	saved/scanned  amended re  exner elec s  ennal taps  S) survey	Taining wall programs	non gotab nder floor seet on 2	t+Site Ce heati
Name  Your next inspection will be	LBP No.	Result: Pass	Part pass	<b>F</b> ail∕
Agreed, (Print) an Officer Name	his sheet) Sign Sign Sign	CI.M		



#### FINAL INSPECTION

Address	- Z	K	191	P	roject	Desc	ription	New dwg	9	9./	
= Pass F = F	ail ns are	NA base	= Non d on th	etrict reference to the -Applicable ne extent of work inspect for definition of the	oecte	d at	the ti	me of inspection.			
Applicable to al	linsp	ectio	ons	Conforms with approved				Confirm Additional	0	)	-
spection notes	(Y)	N	NA	drawings		N	NA	information/amended plan	Y	) N	NA
INAL – Exterio	r										
ub-floor ventilation	P	F	(NA)	Roof fixings	E	F	NA	Spouting + Down-pipes	B	F	N
eck Structure	P	F	(NA)	Flashings – Roof	P	F	NA	Penetrations – Flashings	(P)	F	N
Barriers	Р	F	(NA)	Gully Dishes	2	F	NA	Storm-water + site drainage	0	F	N.
landrails	P	F	(NA)	Wastes to gully	P	F	NA	Fixings – Durability	P	F	N
teps/Stairs	Р	F	NA	Terminal vents/AAV's	P	F	NA	Cladding painted/sealed	P	F	N
lashings – Vindows/Doors	P	) F	NA	Cladding Ground Clearance	P	F	NA		P	F	N
INAL – Interior											
ervice areas – oors/walls	P	F	NA	Food storage/preparation/	6	F	NA	Hot water temp	0	F	Ň
tair design	P	F	(Na)	Ventilation	(P)	F	NA	Solid fuel heater	P	F	A
Handrails	Р	F	(NA)	Insulation + clearance	(2)	F	NA	Water supply tank	P	F	N
Balustrades	Р	F	(NA)	HWC flues	P	F	NA	Trap seals + AAV's	P	F	N
ightings	P	F	NA	HWC valves		F	NA	Cistern flushing	P	F	N
aundering	12	F	NA	HWC restraint	P	F	NA	WC pan connection	P	F	(2)
Cooking facilities	P	F	NA	Tempering valve	P	F	NA	Septic tank	P	F	N
moke detectors	P	F	NA	Glazing – Human Impact	(P)	F	NA	Window labels	P	F	N
INAL – Interte	nancy	/Coi	nmer	cial							
ire/Life ystems sighted	Р	F	NG)	Guarantees/Warranties/ Certificates/ Expert Opinion	P	F	NA	Intertenancy STC	Р	F	(N
All Inspections	1.0	L'		Expert Opinion	1.1		1170	intertentiney 510	- 1		10,0
Road Crossing	P	F	NA	Energy Certificates	P	F	NA	Final Chack Complete	V	N	
Complete	P	-	NA	supplied	1	г	INA	Final Check Complete	-1	1.4	



121/11/2	SR or BCA	Inspection No.	13.
Date 12/6/3 30	SR OF BCAI/.		ents on site YES NO
Owner Name Name	Project Descriptio	n 9040-7	6
Site Address 05 6 KS/P	74 Si		
Building Plumbing	Circle appropriate Type & Inspection	Other	
Site Found Piles PreSlab Subfloor Drainage	e PreWrap PreClad Weathertight P	reLine PostLine Blo	ock Brick Ret.Wall Final
Engineer Supervision Yes No n/a -	Name		
Notes		Diagram (if n	
I P	1		
16 un DOTTOM	KOD-		
10 m81			
G6 M611			
A1 1190 1	SOR CHAIR		
100			
	- A		
VANOUR BYKI	g C		
Photo's Taken – Nos	saved / scanned? Y / N		
Site instruction issued			
DV TO 7651			
			,
	Result:/	Pass P	art pass Fail
Confirmation of inspection by person on sit	e		
Person on site: Builder Owner	Other		No One on site
Your next inspection will be(Guidance notes for inspection on the rear of this sheet)	$\sim$		
1 M Millingt	Sim MX/		ate//
Agreed (Print Name)	Sign		12 / 12
Officer Name	Sign	D	ate / / / /
	Additional Insp. Sheet No.		



ne / 3. 4	50					******		Documents on	site	YES)	NO
ner Name //	7/4	2	on specific co	Pr	roiect	Desc	ription	GARAGE			
e Address 35	B	k	57	ARE ST							
e Address	retion		(included)		*******	*******					
1											
All inspections are c	arriec	out	with s	trict reference to the	builo	ling o	consent	granted.			
P = Pass F = Fai	il	NA :	= Non	-Applicable							
				ne extent of work insp							
Please refer to the re	elated	sco	pe she	eet for definition of th	e ins	pect	ions ex	tent.			
CITE		_	1				-				
SITE Conforms with	1			15 -15		-	2	Engineer supervision		1	/
approved drawings	Y	N	NA.	Checked driveway	Υ	N	(NA)	required	Υ	N(	N
Scope of Resource	$\Box$			Checked position off relevant boundaries							
consent granted?	Y	N	NA	and datum height	Y	N	NA		Y	N	V
Expert Opinion				Name of Surveyor				Name of Engineer			
Producer statement) required	Y	N	NA	Company			Company				
FOUNDATIONS	1	0		PILES				SUBFLOOR			
Footing Depth	P	F	NA	Pile size	P	F	NA	Pile/Bearer/Joist Fixings	P	F	-
Good bearing (NZS 3604)	P	F	NA	Pile layout is to plan	P	4	NA	Notching Holes, etc	Р	F	1
Reinforcing	P	F	NA	Special piles - point load	Р	F	NA	Solid Blocking	P	F	1
Siting	1P	F	NA	Timber Treatment	P	F	NA	Joists	P	F	1
Sub-floor vents	P	F	NA.	Hole depth	P	F	NA	Beams/Bearers	Р	F	1
PRE SLAB					1						
Rebate for brick veneer	P	F	NA	sand blinding	P	F	NA	Steel reinforcing	P	F	1
Ground clearance	Р	F	NA	Slab thickenings	B	) F	NA	Bar chairs	P	F	1
Concrete Cover	P	) F	NA	Vapour barrier (DPC)	P	F	NA	DPC penetrations taped	P	D <sub>F</sub>	1
Driveway s/w control	P	F	NA	Bottom plate fixings	P	F	NA	Minimum Floor Level	P	) <sub>F</sub>	1
Secondary flow path	P	F	NA	TPR line	P	F	NA.	Wastes and drains – size / fall	- P	F	
Pipe material	P	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	P	F	NA	Connections/Angles	P	F	NA	Holding water	Р	F	
Bedding material	Р	F	NA	Branch length	Р	F	NA	Terminal vent	P	F	
	P	F	NA	Direction/Fall	100	10	NA	LBP/Registration No:		1	-



	SR or BCA 116397		cuments on site (YE	
	Project Descript			
	n 6 ST		> *	
Building Plumbing	5: 1:::5-m::2-:12		ultaria	
3)	Circle appropriate Type & Inspection	1	1	Mayor
Site Found Piles PreSlab Subfloor I	Prainage PreWrap PreClad Weathertight	PreLine PostLine	Block Brick Ret.	Wall Final
Engineer Supervision Yes No	n/a ) Name			
Notes 2 + SHower's	TICAL USGA	Diagran	(if necessary)	
HYMATHANE PROM				
+ Flows with S				
Stucent In Place	WITH MESIX			
+TAPE.				
21 WAYS.				
0 TO C	~7~~b			
Photo's Taken – Nos	saved / scanned? Y / N			
Site instruction issued				
***************************************				
	Result:	Pass	Part pass	Fail
	Kesura	(133)	t di t pass	
Confirmation of inspection by person	on site			
Person on site: Builder 🗌 Owner	Other Out Cope	, Giveni	🎑 . No One on sit	e 🗆
Your next inspection will be(Guidance notes for inspection on the rear of this sheet	cehno	37 RZ -E	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
(Guidance notes for inspection on the rear of this she	at)		11 1	
Agreed,(Print Name)	Sign		Date	113
04 Non-Ca as 1	c:		- Data 4 / 4	112



wner Name WAAA				P	rojec	t Des	cription	NEW AG			
P = Pass F = Fa Inspection decisions	il are elate	NA base d sco	= No ed on to ope sh	strict reference to the  n-Applicable  the extent of work insp  neet for definition of th	ecte	ed at	the tir	ne of inspection.			
Sighted previous	T	10115		Conforms with approved				Confirm Additional			T
inspection notes	Y	N	NA	drawings	Y	N	NA	information/amended plan	Y	N	NA
WEATHERTIGHTI	VES:	S									
Cladding selection complies with BC?	Р	F	NA	Roof material complies with BC?	P	Ē	NA	Sheets fixed to manufacturers	P	-F-	N/
Roof fixing complies	Р	F	NA	Fixings appropriate for durability?	Р	F	NA	Sheet layout	Р	F	N/
Ridge/hip flashings in place	P	F	NA	Roof/wall/junctions flashed	Р	F	NA	Control joints where appropriate	Р	F	N/
Penetrations correctly flashed	Р	F	NA	Fixings appropriate for bracing elements	P	F	NA	Flashings in place	Р	F	N
Clearance provided for fascia & spouting	Р	F	NA.	Ground clearances achieved	Р	F	NA	Clearance off deck surface	Р	F	NA
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	F	NA	Insulation R Value	Р	)=	NA	Bracing connections	Р	F	NA
Ventilation to rooms	Р	F	NA	Top plate connection	Р	F	NA	Air seals	Р	F	N/
Timber treatment	Р	F	NA	Ceiling batten spacing	P	F	NA	Bottom plate fixings	P	+	N/
Lintel/beam size & fixing	P	F	NA	Stud spacing /	Р	F	NA		Р	F	NA
Plumber Name				TPR line	Р	F	NA	Waste pipe size & test	P	F	NA
Soil pipe size and test	Р	F	NA	Inbuilt S/W pipes tested	P	F	NA	Floor wastes	P	F	N/
Pipes fixed/supported	Р	F	NA	Vents terminated	P	F	NA	Shut off valves	P	F	NA
System: AS3500, G13, Other	Р	F	NA	Pressure Test	Р	F	NA	Fire wraps and collars	Р	F	NA
POSTLINE											
Sheet bracing	Р	F(	MAD	Wet area substrate system	2	) <sub>F</sub>	NA	Sheet fixings	Р	F	(NA
Penetrations sleeved	Р	F	NA		P	F	NA	Fire/Acoustic separation	Р	F (	NA.
				0							
				/				1,	1.		10



Date 12/3/2012 - S	SR or BCA	CTION SHEET	No. //
Time 9-70 Am · Owner Name Site Address 35 b		Doo	cuments on site YES / NO
Building Plumbing	Circle appropriate Type	& Inspection Other	
Site Found Piles PreSlab Subfloor	Drainage PreWrap PreClad V	Weathertight PreLine PostLine	Block Brick Ret.Wall Final
Engineer Supervision Yes No Notes Aqualina Star Anna Haur As Pen Manua 1000mm Canara	GRAN FIXED	Diagram	(if necessary)
Photo's Taken – Nos	saved / scanned? Y /	 	
Site instruction issued			
		Result: Pass	Part pass Fail
Confirmation of inspection by person			
Person on site: Builder Owne	er 🗌 Other 🔲		No One on site
Your next inspection will be(Guidance notes for inspection on the rear of this sho	eet)		
Agreed, CPAIC CLOA	<b>.C.</b> Sign	loffin '	Date 12/3/12
Officer Name 1000	Additional In:	sp. Sheet No	Date 1213/17

Date ...../....

Initial .....

Information entered into data base



ne 9-702	an.							Documents on	site	YES /	NO
ner Name			······································	F	roject	Desc	ription.	NAW Duyl			
e Address35	7		10	TAGE ST.							
e Address									502 502 50		
A II	L aut de d	مريم آد	م طغنین	triat reference to the	huila	lina	200000	t granted			
				trict reference to the -Applicable	Dulic	ing c	Lonsen	t granted.			
				ne extent of work ins	oecte	d at	the tim	e of inspection.			
the party of the second				eet for definition of th							
Applies to all ins				13829 1107 201							
Sighted previous	pecu	0113		Conforms with approved				Confirm Additional			
inspection notes	O	N	NA	drawings	Y	) N	NA	information/amended plan	Υ	M	1
WEATHERTIGHTI	NESS	5									
Cladding selection		F	NA	Roof material complies with BC?	P	F	NA	Sheets fixed to manufacturers	P	F	
complies with BC?	Р	-	NA	Fixings appropriate for	1	-	IVA	to manufacturers	F	-	
Roof fixing complies	Р	F	NA	durability?	P	F	NA	Sheet layout	P	F	1
Ridge/hip flashings in place	p	F	NA	Roof/wall junctions	Р	F	NA	Control joints where appropriate	Р	F	
Penetrations correctly flashed	B	F	NA.	Fixings appropriate for bracing elements	Р	F	NA	Flashings in place	Р	F	
Clearance provided for fascia & spouting	Р	F	NA	Ground clearances achieved	P	F	NA	Clearance off deck surface	Р	F	
Flashings/wraps in place, parapets/barriers	Р	F	NA	Glazing – human impact	Р	F	NA	Truss/Rafter fixings	Р	F	. 1
PRELINE											
Max moisture Content%	Р	F	NA	Insulation R Value	Р	F	NA	Bracing connections	Р	F	-
Ventilation to rooms	Р	F	NA	Top plate connection	Р	F	NA	Air seals	P	F	16
Timber treatment	Р	F	NA	Ceiling batten spacing	P	F	NA	Bottom plate fixings	Р	F	
Lintel/beam size & fixing	Р	F	NA	Stud-spacing	Р	F	NA		Р	F	
Plumber Name				TPR line	Р	F	NA	Waste pipe size & test	Р	F	
Soil pipe size and test	P	F	NA	Inbuilt S/W pipes tested	P	F	NA	Floor wastes	P	É	
Pipes fixed/supported	P	F	NA	Vents terminated	Р	F	NA	Shut off valves	Р	F	
System: AS3500, G13, Other	P	F	NA	Pressure Test	P	F	NA	Fire wraps and collars	Р	F	
POSTLINE											
Sheet bracing	Р	F	NA	Wet area substrate system	P	F	NA	Sheet fixings	P	F	li
	1	F	NA		P	F	NA	Fire/Acoustic separation	Р	F	

Form 242e



Pate 9/3/12 Se	COPE OF INSPEC	TION SHEET	n No. 10
Time			ocuments on site YES NO
Owner Name WANS	Proj	ject Description NG	Ay -
Site Address 35 B KoTAN	← ST		>-
Building Plumbing	Circle appropriate Type	& Inspection Other	
Site Found Piles PreSlab Subfloor I	Prainage PreWrap PreClad W	/eathertight PreLine PostLine	Block Brick Ret.Wall F
Engineer Supervision Yes No ( Notes POSTLING ON NO. 6 The Company of the Company	- Type Pon		Ω (if necessary)
STANDAND WANT TO IN PACE + SURON AN PORCEUMUS AS POR EZYTORAGE NONE TO GREEN OLE TO CONT	Fixed SeramitixAD - 2011 STSTGA. S UPASCO PAR	 	
	saved / scanned? Y / 26 - Fr uss - To Mas G	ARCA AS PO	
		Result: Pass	Part pass F
Confirmation of inspection by person	on site		
Person on site: Builder Owne	Other		No One on site
Your next inspection will be	Tat Scace Fix	ys on ust	ALLOAS.
Agreed, ERMC CLOA & (Print Name)			
Officer Name CARCA TO	Sign Additional Ins	p. Sheet No	Bate 7 1 > 102
Information entered			



the transfer of the second of								Documents on	site Y	(ES)	NO
vner Name				Pr	oject	Descr	ription	Non- Air			
e Address	-	to inna	- tation					λ.			
e Audress					231111111	111012222					
	45	0.01			اماند			arantad			
All inspections are car $P = Pass$ $F = Fail$				trict reference to the t -Applicable	oulia	ing c	onsent	granted.			
Inspection decisions a					ecte	d at t	he time	e of inspection.			
Please refer to the rela											
Applies to all inspe							-				
Sighted previous		0113		Conforms with approved				Confirm Additional	1		70
inspection notes	Υ	N	NA	drawings	M	N	NA	information/amended plan	Y	N	N/
WEATHERTIGHTN	ESS	;			/						
Cladding selection complies with BC?	Р	F	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?	Р	F	NA	Sheet layout	Р	F	N
Ridge/hip flashings in place	P	F	NA.	Roof/wall junctions flashed	Р		NA	Control joints where appropriate	Р	F	N
Penetrations correctly flashed	Р	F	NA	Fixings appropriate for bracing elements	P	F	NA	Flashings in place	Р	F	N
Clearance provided for fascia & spouting	Р	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%	P	F	NA	R Value	Р	Ē.	NA	Bracing connections	P	F	N
Ventilation to rooms	Р	E	NA	Top plate connection	Р	F	NA	Air seals	P	F	N
Timber treatment	B	F	NA	Ceiling batten spacing	Р	F	NA	Bottom plate fixings	Р	F	N
Lintel/beam size & fixing	Р	F	NA	Stud spacing	Р	F	NA		Р	F	N
Plumber Name		F		TPR line	P	F	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	Р	F	NA	Vents terminated	Р	F	NA	Shut off valves	Р	F	N
System: AS3500, G13, Other	P	F	NA	Pressure Test	P	F	NA	Fire wraps and collars	Р	F	N
Other											
POSTLINE				Wet area	P	F	(NA)	Sheet fixings (	P	F	4
	P	F	NA	substrate system	100					-	-

Form 242e



SCOPE SCOPE	E OF INSPECTION SHEET  R or BCA 11.0397 Inspection No
	Documents on site YES/ NO
	Project Description M & Au
	λ, το
Building Plumbing c	ircle appropriate Type & Inspection Other
Site Found Piles PreSlab Subfloor Drainage	PreWrap PreClad Weathertight PreLine PostLine Block Brick Ret.Wall Final
Engineer Supervision Yes No n/a	Name
Notes MAIN FEED 20m HOT WATER CYLLIDER 20 10n FRAN FATURE DUX SECURA PIPE + FIT WACH TEST HOWAY	Diagram (if necessary)
POTABLE 702+15 PIPE FOR TO'LLOS + HO TESTED PLES VE PACE	SETAPS ALSO  PROTE HAD DISUSSION
Photo's Taken – Nos.	SHOW HANT INSTANCE Saved/scanned? Y/N FALSE I A STANCE
	NUME * TONE ON PINAPPAN
>TO DISW	SS WITH TOWAR ABOUT TES + VATE THOSE FOR TOWARD  Result: Pass Part pass Fail.
Confirmation of inspection by person on site	
Person on site: Builder Owner On  Your next inspection will be	ther Pursser No One on site   Tilly + CHECK BARCEURUS AS ABOVE  Sign Date 15/2/12
Officer Name GARO THE	Additional Insp. Sheet No.
Information entered into data	a base 🔲 Initial Date



ie								Documents on	site Y	ES)	NO
ner Name			*******	Pr	oject	Descr	iption.	som buc			
								)			
Address	******	drive				,,,,,,,,,,,					10110011
				trict reference to the	build	ling c	onsen	t granted.			
P = Pass F = Fai				-Applicable							
				ne extent of work insp							
Please refer to the re	latec	sco	pe she	eet for definition of th	e ins	pecti	ons ex	tent.			
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	N
WEATHERTIGHT	NESS				/						
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	F	NA	Sheet layout	Р	F	N
Ridge/hip flashings in place	Р	E	NA	Roof/wall junctions flashed	Р	F/	NA	Control joints where appropriate	Р	F	N
Penetrations correctly flashed	Р	F	NA	Fixings appropriate for bracing elements	P	F	NA	Flashings in place	Р	F	١
Clearance provided for fascia & spouting	Р	F	NA	Ground clearances achieved	Р	E	NA	Clearance off deck surface	Р	F	N
Flashings/wraps in place, parapets/barriers	Р	F	NA	Glazing – human impact	Р	Ė	NA	Truss/Rafter fixings	Р	F	N
PRELINE											
Max moisture Content%	Р	F	NA	Insulation R Value	Р	P	NA	Bracing connections	P	F	1
Ventilation to rooms	P	F	NA	Top plate connection	Р	F	NA	<u>Air seals</u>	Р	F	1
Timber treatment	Р	F	NA	Ceiling batten spacing	P	F	NA	Bottom plate fixings	Р	F	1
Lintel/beam size & fixing	P	F	NA	Stud spacing	P	F	NA		Р	F	1
Plumber Name				TPR line (	P	) F	NA	Waste pipe size & test	0	F	1
Soil pipe size and test	P	F	(M)	Inbuilt S/W pipes tested	P	F	(NA)	Floor wastes	P	F	(
Pipes fixed/supported	6	F	NA	Vents terminated	P	F	NA	Shut off valves	(P)	F	1
System: AS3500, G13, Other	8	F	NA	Pressure Test	(P)	F	NA	Fire wraps and collars	P	F	C
POSTLINE											
Sheet bracing	Р	F	NA	Wet area substrate system	P	Ė	NA	Sheet fixings	Р	F	1
Silver Bridging		F	NA		P	F	NA	Fire/Acoustic separation	P	F	1

Form 242e



Description Management of the person on site Person on site:    Project Description   Management   Project Description   Project Description   Project Description   Project Description   Management   Project Description   Management   Project Description   Project Description   Project Description   Project Description   Management   Project Description   Pr	Date 18-1-2012	SCOPE OI	F INSPECT	ION SHEET	pection No	7 2
Building Plumbing Circle appropriate Type & Inspection Other	Time // 10 An				. 7	YES NO
Circle appropriate Type & Inspection Other	Owner Name WAKD		Projec	t Description	ew Dwg	
Result: Pass Part pass Fair Confirmation of inspection by person on site  Correct inspection by person on site  Correct inspection by person on site  Correct inspection of inspection by person on site  Correct inspection will be the first part of the product of	Site Address 35 K	Kornke	87.			
Ingineer Supervision Yes No n/a — Name  Diagram (if necessary)  Diagram (if ne	Building Plumbing	Circle a	ppropriate Type &	Inspection Othe	er	inniminiminimi
Diagram (if necessary)  THE MOCKATT WITTERGATE WAS  AUDITAD THE TO WINDOWS  WHAT DAYS CAN BE FORD  Whoto's Taken - Nos. saved / scanned? Y / N  Site instruction issued  Result: Pass Part pass Fai  Confirmation of inspection by person on site  Person on site: Builder of where of this sheet  Suddance noise for inspection on the near for this sheet  Agreed The Mockatt Was Sign Date (S. 1 2016)  Difficer Name Officer Name Sign Date (S. 1 2016)	Site Found Piles PreSlab Subfle	oor Drainage PreW	rap PreClad Wea	thertight PreLine P	ostLine Block Brick	Ret.Wall Final
Diagram (if necessary)  THE MOCKATT WITTERGATE WAS  AUDITAD THE TO WINDOWS  WHAT DAYS CAN BE FORD  Whoto's Taken - Nos. saved / scanned? Y / N  Site instruction issued  Result: Pass Part pass Fai  Confirmation of inspection by person on site  Person on site: Builder of where of this sheet  Suddance noise for inspection on the near for this sheet  Agreed The Mockatt Was Sign Date (S. 1 2016)  Difficer Name Officer Name Sign Date (S. 1 2016)	Engineer Supervision Yes	No n/a - Nam	e			
Photo's Taken – Nos.  Site instruction issued  Result: Pass Part pass Fair Confirmation of inspection by person on site  Person on site: Builder   Government inspection will be   Agreed   Part pass Fair   Agreed   Part pass Fair   Part pass Pair   Part pass Pair	Notes	·				
Confirmation of inspection by person on site  Person on site: Builder   Owner   Other   No One on site   No One on site   Agreed,   Officer Name  Officer Na	HUBAND 11 WRAP AXOO CLADDINGS	RE TO V A SK CHN BE	SINDOW	RAP		
Confirmation of inspection by person on site  Person on site: Builder   Owner   Other   No One on site   No One on site   Agreed,   Officer Name  Officer Na					••••••	
Confirmation of inspection by person on site  Person on site: Builder   Owner   Other   No One on site   No One on site   Agreed,   Officer Name  Officer Na				Result: Pass	Part pass	s Fail
Person on site: Builder where the properties of the properties of this sheet of the sheet of the sheet of this sheet of the sheet of this shee	Confirmation of inspection by pe	erson on site			73718	
Cour next inspection will be DIM Re 1445768  Guidance notes for inspection on the rear of this sheet  Agreed, Brint Name)  Officer Name  Date   5   2016			<b></b>		No One o	on site
Officer Name JOZIVR Sign Ale Date 15.1/2016		mu Dal	145768			
	Agreed, Lyg Su (Print Na	seet lu	Sign	3/	Date./8	1/12012
Additional Insp. Sheet No	Officer Name X JOZIV	K.	/		Date./	1/1012

Information entered into data base

Initial ...... Date ..../....



### PRE WRAP / PRE CLAD

ner Name MA	80	2		Pr	oject	Desc	ription.	New DWG			
Address 35	K	3	Koz	2010 6-				(			
= Pass F = Fa	il s are b	NA pase	= Non	strict reference to the n-Applicable ne extent of work insp eet for definition of th	ecte	d at	the tin	ne of inspection.			
Applies to all ins	pecti	ons									
ighted previous espection notes	( v)	N	NA	Conforms with approved drawings	Y	N	NA	Confirm Additional information/amended plan	Y	N	N.
RE WRAP	0										
ladding type identified	Р	F	NA	Exterior sheet bracing & angle brace fixing	P	F	NA	Bracing requirements	Р	F	N
raming moisture meets ladding requirements	% Р	F	NA	Bottom plate connections	Р	F	NA	Purlin fixing	Р	F	N
tud spacing appropriate or cladding	P	F	NA	Building wrap type	Р	F	NA	Decking substrate	Р	F	1
RE CLAD											
uilding wrap type	1000	AT	<i>y</i>	Building wrap	P	F	NA	Head flashings To Do	Р	F	1
lexible sealing tape type,	Auc	BA		Flexible sealing tape (	P	F	NA	Sill flashings and DO	Р	F	1
eck membrane type				Deck membrane fixed in accordance with Spec	Р	F (	NA	Back flashings	Р	F	6
addle flashings	Р	F	NA	Internal/external corner flashings	Р	F	(NA)	Jamb flashings	Р	F	(
Capillary clearances	Р	F	NA	Flashing of penetrations	Р	F	NA	Ground/deck cladding clearance	Р	F	0
CAVITY SYSTEM											
Additional strapping o wrap	Р	F	NA	Batten timber treatment	Р	F	NA	Cavity closers	P	F	
Battens in place	Р	F	NA	Battens structural fixing	Р	F	NA	Cavity spacers	Р	F	
Cavity spacers ize & slope	P	F	NA	Reinforcing fixed in place (stucco)	Р	F	NA	Proprietary self spacing mesh	Р	F	
Mesh spacers (stucco)	Р	F	NA	Proprietary control joints (stucco)	Р	F	NA	Rigid backing type (stucco)	Р	F	
ixings (galvanized or tainless) (stucco)	P	F	NA	Waterproofing to slab-edge	Р	F	NA		Р	F	1



7 19 2011	OPE OF INSPECTION SHEET  SR or BCA 110397 Inspection No.
Date	
Time	Documents on site YES / NO
Owner Name	Project Description / VEO / NOG
Site Address 358 KO	77010 St
Building Plumbing	Circle appropriate Type & Inspection Other
Sita Found Piles PreSlah Subfloor Dri	ainage PreWrap PreClad Weathertight PreLine PostLine Block Brick Ret.Wall Final
	Alan Millanan
Engineer Supervision R No no	/a - Name
Notes & Stud to top	plate connection Diagram (if necessary)
A lintely stion	red .
* amended bra	ce plan on site,
external con	meetions only
	J
Photo's Taken – Nos	saved / scanned? Y / N
Site instruction issued X 16	internal truss connections as marked on )
as built , lan (	2) revised brow plans required. + calcs>
3 engineer	to check their design.
7	
	Result: Pass Part pass Fail
Configuration of inspection by person of	on site
Confirmation of inspection by person of	
Person on site: Builder 🗹 Owner	Other
Your next inspection will be(Guidance notes for inspection on the rear of this sheet)	pre aug & check above aems
Tourdance notes for inspection on the rear of this sheet	7 12 20
Agreed, Fuy My Surely	SignDate
Andin	7.12.201
Officer Name	Sign Date Date
	Additional Insp. Sheet No
Information entered in	nto data base Initial Date

Form 242



### PRE WRAP / PRE CLAD

IA = Non ased on the	strict reference to the a-Applicable he extent of work inspect for definition of the Conforms with approved drawings  Exterior sheet bracing & angle brace fixing  Bottom plate connections  Building wrap type	ecte	d at	the tin	ne of inspection.	(y)	N	NA NA
N NA F NA F NA	Exterior sheet bracing & angle brace fixing  Bottom plate connections	Р	F		information/amended plan			
F NA F NA	Exterior sheet bracing & angle brace fixing  Bottom plate connections	Р	F		information/amended plan			
F NA	angle brace fixing  Bottom plate connections	0		@	Bracing requirements	0	F	KI.
F NA	angle brace fixing  Bottom plate connections	0		@	Bracing requirements	0	F	NI.
F NA		P	F					IVA
	Building wrap type		1	NA	Purlin fixing	Р	F	(2)
		Р	F	(NA)	Decking substrate	Р	F	0
	Building wrap	Р	F	NA	Head flashings	Р	F	h
	Flexible sealing tape	Р	F	NA	Sill flashings	P	F	N
	Deck membrane fixed in accordance with Spec	Р	F	NA	Back flashings	Р	F	N
F NA	Internal/external corner flashings	Р	F	NA	Jamb flashings	Р	F	N
F NA	Flashing of penetrations	Р	F	NA	Ground/deck cladding clearance	Р	F	N
1								
FNÁ	Batten timber treatment	Р	F	NA	Cavity closers	P	F	N
F NA	Battens structural fixing	Р	F	NA	Cavity spacers	Р	F	N
F NA	Reinforcing fixed in place (stucco)	Р	F	NA	Proprietary self spacing mesh	Р	F	V
F NA	Proprietary control joints (stucco)	Р	F	NA	Rigid backing type (stucco)	Р	F	N
F NA	Waterproofing to slab-edge	Р	F	NA		Р	F	N
	F NA F NA F NA	F NA Flashing of penetrations  F NA Batten timber treatment F NA Battens structural fixing F NA Reinforcing fixed in place (stucco)  F NA (stucco)  Waterproofing to	F NA Flashing of penetrations P  F NA Batten timber treatment P  F NA Battens structural fixing P  Reinforcing fixed in place (stucco) P  F NA Proprietary control joints (stucco) P  Waterproofing to	F NA Flashing of penetrations P F  F NA Batten timber treatment P F  NA Battens structural fixing P F  Reinforcing fixed in place (stucco) P F  F NA Proprietary control joints (stucco) P F  Waterproofing to	F NA Flashing of penetrations P F NA  F NA Batten timber treatment P F NA  F NA Battens structural fixing P F NA  Reinforcing fixed in place (stucco) P F NA  F NA Proprietary control joints (stucco) P F NA  Waterproofing to	F NA Flashings P F NA Jamb flashings  F NA Flashing of penetrations P F NA Ground/deck cladding clearance  F NA Batten timber treatment P F NA Cavity closers  F NA Battens structural fixing P F NA Cavity spacers  F NA Reinforcing fixed in place (stucco) P F NA Spacing mesh  F NA Proprietary control joints  F NA Waterproofing to	F NA Flashings P F NA Jamb flashings P F NA Flashing of penetrations P F NA Cavity closers P F NA Batten timber treatment P F NA Cavity spacers P F NA Battens structural fixing P F NA Cavity spacers P Reinforcing fixed in place (stucco) P F NA Spacing mesh P F NA Proprietary control joints P F NA Rigid backing type (stucco) P Waterproofing to	F NA Flashings P F NA Jamb flashings P F  NA Flashing of penetrations P F NA Cavity closers P F  NA Batten timber treatment P F NA Cavity spacers P F  NA Reinforcing fixed in place (stucco) P F NA Rigid backing type (stucco) P F  NA Waterproofing to



1/	SCOPE OF INSPECTI	ION SHEET	11.
Date 8 /1///	SR or BCA.	Inspection	No
Time 8 40	1/0397	Doc	cuments on site (YES) NO
Owner Name WAYN	Projec	t Description	Duf
Site Address 3573 Ko	ign EST		
Building Plumbing	Circle appropriate Type &	Inspection Other	
Site Found Piles PreSlab Subf	loor Drainage PreWrap PreClad Wea	thertight PreLine PostLine	Block Brick Ret.Wall Final
Engineer Supervision Yes	No (n/a) – Name		
	An An		) (if necessary)
^	LASTE + Soil Ping		7
	LECTUS TO ALL		
	MAC WITH COOD FALL		
150000 DI T	in lace		
	2) ~ + cosyes		
7000			
	on into Track		
Over From To	creale		
	50 150m STOMWATE		
	J.P.		
	saved / scanned? Y / N		
Site instruction issued	3 Bulit arang	TO Four	
***************************************		Annual description of the second	
***************************************		p	
***************************************			
		Result: Pass	Part pass Fail
Confirmation of inspection by	person on site		
	To a Analysis	mine-	И О П
Person on site: Builder 🔲	Owner Other	A 2515	No One on site
Your next inspection will be (Guidance notes for inspection on the rear of	of this sheet)		
Did H	110	had -	D. 18/1/1/1
Agreed, Print	Name) Sign	Mr. Zam	Date
Officer Name GACTH	Sign S		Date / 8 / // ///
7	Additional Insp.	. Sheet No	
1294.54		5.23	
Information en	tered into data base 🔲 🔝 Initial	Date .	



me la				133	77			Documents or	site	YES)	NO
wner Name											
e Address			.,,,,,,,,,					1			
					_						
P = Pass F = Fai Inspection decisions	il are l	NA base	= Nor	strict reference to the n-Applicable he extent of work insp eet for definition of th	ecte	ed at 1	he tin	ne of inspection.			
SITE	_	_									
Conforms with approved drawings	Υ	N	NA	Checked driveway	Y	N	NA	Engineer supervision required	Υ	N	N
Scope of Resource consent granted?	Y	N	NA	Checked position off relevant boundaries and datum height	Y	N	NA		Υ	N	1
Expert Opinion (Producer statement) required	Y	Z	NA	Name of Surveyor Company				Name of Engineer Company			
FOUNDATIONS	1.4	14	7	PILES				SUBFLOOR		_	_
Footing Depth	Р	F	NA	Pile size	P	Ê	NA.	Pile/Bearer/Joist Fixings	Р	F	
Good bearing (NZS 3604)	8	F	NA	Pile layout is to plan	P	F	NA/	Notching, Holes, etc	Р	F	1
Reinforcing	P	F	NA	Special piles - point load	Р	F	NA	Solid Blocking	Р	F	1
Siting	Р	F	NA	Timber Treatment	P	F	NA	Joists	P	F	1
Sub-floor vents	Р	F	NA ,	Hole depth	6	F	NA	Beams/Bearers	Р	F	9
PRE SLAB			1	/	1						_
Rebate for brick veneer	P	F	INA	Sand blinding	P	F	NA	Steel reinforcing	Р	F	
Ground clearance	Р	F	NA	Slab thickenings	Р	F	NA	Bar chairs	P	F	13
Concrete Cover	P	F	NA	Vapour barrier (DPC)	P	F	NA	DPC penetrations taped	Р	F	
Driveway s/w control	Р	F	NA	Bottom plate fixings	Р	F	NA	Minimum Floor Level	P	F	
Secondary flow path	P	F	WA	TPR line	Р	F	NA	Wastes and drains – size / fall	Р	F	
Pipe material	Р	F	NA	Plumbing layout	P	F.	NA	Test – Water / Air	Р	F	
Pipe protection	Р	F	NA	Pipes supported	P	F	NA	Visual leak check	Р	F	1
DRAINAGE	0				0				0		
Pipe diameter	8	F	NA	Connections/Angles	()	F	NA	Holding water	9	F	
Bedding material	Q	F	NA	Branch length	A	F	NA	Terminal vent	(P)	F	
Gully trap(s)	(P)	F	NA	Direction/Fall	0	F	NA	LBP/Registration No:	16	M	6.
							_		-		



SCOPE OF INSPECTION SHEET	
Date 11 14 19 SR or BCA 110397 Inspection No.	
Time 230 Documents on site YES NO	
Owner Name Project Description	
Site Address SSTS KSTATE ST	
	=
Building Plumbing Circle appropriate Type & Inspection Other	
Site Found Piles PreSlab Subfloor Drainage PreWrap PreClad Weathertight PreLine PostLine Block Brick Ret.Wall F	
	mai
Engineer Supervision Yes No n/a – Name	
Notes PICE THANK HAIR MAKET FOUNDATION Diagram (if necessary)  L SUATO MEN PROTECTES AS PEN	
+ SLATE MEN PROTECTES AS PEN	
DESIGN + REQUIREMENTS	
Photo's Taken – Nossaved / scanned? Y / N	
Site instruction issued STIM NEWS PSY+SITE REPORT	
TO SUPER SURVEY PROPERTY	
······································	*****
Result: Pass Part pass F	ail
Confirmation of inspection by person on site	
Person on site: Builder Owner Other	
Your next inspection will be(Guidance notes for inspection on the rear of this sheet)	m
Agreed, LESTER SUCCESSION Sign Sign Date 1 111 11	1
(Frint Name)	
Officer Name Date Date	· · · · ·
Additional Insp. Sheet No	
Information entered into data base Initial Date	

Form 242



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

me 2 5								Documents or	site	YES)	NO
wner Name				P	rojec	Desc	ription	Maria Dest	.,,		
te Address	.,,,,,,,,,,			-							
P = Pass $F = FaInspection decisions$	il are l	NA base	= Nor	strict reference to the n-Applicable ne extent of work insp eet for definition of th	ecte	d at	the tin	ne of inspection.			
SITE					\						
Conforms with approved drawings	γ	N	NA	Checked driveway	Y	N	NA	Engineer supervision required	Υ	N.	NA
Scope of Resource consent granted?	Υ	N	NA/	Checked position off relevant boundaries and datum height	Y	N	NA		Υ	N.	N
Expert Opinion (Producer statement)			1	Name of Surveyor	1			Name of Engineer			
required	Υ	N	NA	Company				Company			
FOUNDATIONS	- 7			PILES				SUBFLOOR			
Footing Depth	P	F	NA	Pile size	P	F	NA	Pile/Bearer/Joist Fixings	P	F	V
Good bearing (NZS 3604)	P	F	NA	Pile layout is to plan	P	F	NA	Notching, Holes, etc	Р	Ē	N
Reinforcing	Р	F	NA	Special piles - point load	P	F	NA	Solid Blocking	Р	F	N
Siting	Р	F	NA.	Timber Treatment	P	F	NA	Joists	Р	F	N
Sub-floor vents	Р	Ē	NA	Hole depth	Р	F	NA	Beams/Bearers	Р	F	N
PRE SLAB					-						7
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	Р	F	N
Concrete Cover	Р	F	NA	Vapour barrier (DPC)	Р	F	NA	DPC penetrations taped	Р	F	N
Driyeway s/w control	P	F	NA	Bottom plate fixings	Р	F	NA	Minimum Floor Level	Р	F	N
Secondary flow path	Р	F	NA	TPR line	P	F	NA	Wastes and drains – size / fall	Р	F	N
Pipe material	Р	Ê	NA	Plumbing layout	P	Ê	NA	Test - Water / Air	Р	F	N
Pipe protection	Р	F	NA	Pipes supported	Р	F	NA	Visual leak check	Р	F	N
DRAINAGE		V	1								
Pipe diameter	P	F	NA	Connections/Angles	P	F	NA	Holding water	Р	F	N
Bedding material	P	F	NA	Branch length	P	F	NA	Terminal vent	P	F	N
Gully trap(s)	Р	F	NA	Direction/Fall	Р	F	NA	LBP/Registration No:			-
	11				-		_		1		



1.1.	SCOPE OF INSE	PECTION SHEE	T 7	
Date 10 /17 /17	SR or BCA	397	Inspection No.	
Time \$ 30			Documents on sit	e (ES) NO
Owner Name WAUS		Project Description	- Gan Dang	
Site Address 3573 POTAYL	+57			
Building Plumbing				
		Type & Inspection Ot		
Site Found Piles PreSlab Subfloor	Drainage PreWrap PreC	ad Weathertight PreLine	PostLine Block Brick	Ret.Wall Final
Engineer Supervision Yes No				
Engineer Supervision (res )NO	n/a - Name 191.91			
Notes SITE DONG THE		16	Diagram (if necessary)	
PROMING LATON				
6-GILLEN SLAB +	FOUND ATTOM			
ANDRAFT DONE AS	POR DESIGN	W.a		
ELTIHOLE LAWS.				
Peas in Roce		······································		
An STEEL IN t	7764.			
NOTE USED 665				
stee in pace F				
ALDO GOLLEGICO				
067	TO CONTING			
Photo's Taken – Nos	saved / scanne	H? Y / N		
Site instruction issued APE	PENATRACTION	S THENH	RAFT SHOW	136
AS PER REQUIV		,		
The state of the s			W.	
DS4 F	from becometer	2 + SITE RADE	2017	
	7 CEPONT	A		
70,427	·/			
			7	
	11/19/19	Result: Pas	s Part pass	Fail
	1/4	yle -		7
Confirmation of inspection by person	on on site			/
Person on site: Builder Down	ner Other		No One o	on site $\square$
	A	Δ		
Your next inspection will be	sheet)			
Agreed P. P. Sures	Blue Sign	VAL		111/11
(Print Name)	M Sigi1	50		
Officer Name GARATION	Sign &		Date 10	14 119
The second secon	Additio	al Insp. Sheet No		
		)		
Information entere	d into data base	Initial	Date	

Form 242



me							*********	Documents on	site	YES	NO
wner Name				Р	roject	Desc	ription.	Maritan Landy			
te Address		allum.	W.F.			,		- 1/			
P = Pass F = Fa Inspection decision Please refer to the	ail s are	NA base	= Nor	strict reference to the n-Applicable he extent of work insp eet for definition of th	ecte	d at	the tim	e of inspection.			
SITE											
Conforms with approved drawings	(7	N	NA	Checked driveway	Y	N	(NA)	Engineer supervision required	Υ	N	NA
Scope of Resource consent granted?	Y	N	NA	Checked position off relevant boundaries and datum height	Y	N	(NA)		Υ	N	NA
Expert Opinion				Name of Surveyor				Name of Engineer			1~
(Producer statement) required	Y	N	NA	Company				Company			
FOUNDATIONS				PILES				SUBFLOOR			
Footing Depth	P	F	NA	Pile size	Р	F	NA	Pile/Bearer/Joist Fixings	P	F	NA
Good bearing (NZS 3604)	Р	F	(NA)	Pile layout is to plan	Р	F	NA	Notching, Holes, etc	Р	F	NA
Reinforcing	P	F	NA	Special piles - point load	Р	F	NA	Solid Blocking	Р	F	NA
Siting	P	F	NA	Timber Treatment	Р	F	NA	Joists	Р	F	NA
Sub-floor vents	Р	F	(NA)	Hole depth	Р	F	NA	Beams/Bearers	Р	F	NA
PRE SLAB					_						
Rebate for brick veneer	P	F	NA	Sand blinding	R	F	NA	Steel reinforcing	P	F	NA
Ground clearance	P	) F	NA	Slab thickenings	P	F	NA	Bar chairs	P	F	NA
Concrete Cover	(P)	F	NA	Vapour barrier (DPC)	B	F	NA	DPC penetrations taped	P	F	NA
Driveway s/w control	P	F	NA	Bottom plate fixings	Р	F	NA)	Minimum Floor Level	P	F	NA
Secondary flow path	Р	F	NA	TPR line	Р	F	NA	Wastes and drains – size / fall	P	F	NA
Pipe material	P	F	NA	Plumbing layout	P	F	NA	Test - Water / Air	P	F	NA
Pipe protection	P	F	NA	Pipes supported	Р	F	NA	Visual leak check	Р	F	NA
DRAINAGE											
Pipe diameter	P	F	NA	Connections/Angles	Р	F	NA	Holding water	Р	F	NA
Bedding material	Р	F	NA	Branch length	P	F	NA	Terminal vent	Р	F	NA
		1	4		4		+ +		-		-1



Date 3 // // SR or BCA 10397 Inspection No.
Time 1:40 Documents on site YES NO
Owner Name WARD Project Description Management And
Site Address 3513 KoTANEST
Building Plumbing  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
Notes Puc with the Solic PIPES in Diagram (if necessary)
PLACE FOR ALL FIXTURES WITH
GOOD FAM OUT OF SLAB
ENDER TEST + HOUTE
USCA 100m FOR TOICETS + LASTE
Piges son
32m Eofera Une in Pace
TOL SCANICE DRAG + TPRLINE
PIPE PROTECTION PLANTE POLT
OK TO CONTINUE.
Photo's Taken – Nossaved / scanned? Y / N
Site instruction issued REQUICE Some Town Late Vant
a farcton wast near venter
COPPER WILL MESS TO THE TRAPPED
>**************************************
Result: (Pass ) Part pass Fai
Confirmation of inspection by person on site
Confirmation of inspection by person on site
Person on site: Builder Owner Other Moone on site
Your next inspection will be
DRding (1)
Agreed, Sign Date
Officer Name CAUSTANS
Additional Insp. Sheet No.
Information entered into data base Initial

Form 242



ne								Documents or	site '	YES)	NO
vner Name				P	1000			, , , , , , , , , , , , , , , , , , ,			
e Address			*********						nannon		******
All inamantians are a		4 ا	i+h	strict reference to the	مانيط	lina i		t granted			
P = Pass F = Fa				n-Applicable	Dunc	iling c	onsen	t granted.			
nspection decisions				he extent of work insp	ecte	d at t	the tim	e of inspection.			
Please refer to the r	elated	d sco	pe sh	eet for definition of th	e ins	pecti	ons ex	ctent.			
SITE					-	_					
Conforms with approved drawings	Υ	N	NA	Checked driveway	Y	N	NA	Engineer supervision required	Υ	N	N
Scope of Resource consent granted?	Y	N	NA	Checked position off relevant boundaries and datum height	Y	N	NA		Y	N	N
Expert Opinion	m			Name of Surveyor	X			Name of Engineer			
(Producer statement) required	Y	N	NA	Company	1			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)	Р	F	NA	Pile layout is to plan	P	F	NA	Notching, Holes, etc	Р	F	N
Reinforcing	Р	F	NA	Special piles - point load	Р	F	NA	Solid Blocking	Р	F	N
Siting	Р	F	NA	Timber Treatment	Р	F	NA	Joists	P	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	Р	F	NA	Steel reinforcing	P	F	1
Ground clearance	P	F	NA	Slab thickenings	P	F	NA )	Bar chairs	P	F	N
Concrete Cover	Р	F	NA	Vapour barrier (DPC)	Р	F	NA	DPC penetrations taped	Р	F	N
Driveway s/w control	Р	F	NA	Bottom plate fixings	Р	F	NA	Minimum Floor Level	Р	F	N
Secondary flow path	(P)	F	(NA)	TPR line	P	) F	NA	Wastes and drains – size / fall	0	F	N
Pipe material	P	F	NA	Plumbing layout	P	F	NA	Test - Water / Air	0	F	N
Pipe protection	(P)	F	NA	Pipes supported	P	F	NA	Visual leak check	P	F	N
DRAINAGE											
Pipe diameter	Р	F	NA	Connections/Angles	Р	F	NA	Holding water	Р	F	1
Bedding material	P	F	NA	Branch length	Р	F	NA	Terminal yent	Р	F	1
Gully trap(s)	Р	F	NA	-Direction/Fall	Р	F	NA	LBP/Registration No:			
		-		25		-	*		_		

a lettera			
RAPITI COAS		26 Site Inspection Report	- New BC Applications
BC Application nu	/ 10	597 Lot DP	409453
		MADY ST.	
Sife Address:		Shilling	************
Building Project:	NB	D Mod	
	Chaple M	CS status is currently "To Site Inspecti	on"
Item to be checked	Decision	Record any relevant	Action required
ADDE SO OF THE SAME		information	
Contours match	Yes No		
application?			
Datum point 7	Yes/No		4
Boundaries	Yes/No		
identified?	YESTINO		
Check ground	Yes No	TAKINISA	
conditions OK? Check f/path, kerb &		1-1	
channel, grass berm,	(T)	ALC	
note	Yes No	(1901)	
existence/damage.		10 A 2 CF	
Vehicle entrance	( )	SHARLEY BRIVO	
crossing installed (describe condition)	Yes No		
Photos taken?	77 - / 3 T-		
(Save & link to NCS)	Yes/No	)	
Dogs on property?	Yes/No		Referred to Approvals
Is there a		01 - 1	T/L
requirement for further foundation	Yes/No	MANTINEEN	
investigation e.g	(/	Licent	Yes/No
Engineers design			I T
Record all de	cisions in acco	rdance with KCDC Policy 007. Circl	te Yes or No in each case.
			Λ
			00//
Note: if there is a r	equirement	for further information or son	ne areas which to not
appear to comply r	efer file to I	Team Leader Consent Approva	Is for action.
		MAZ	11140
Inspecting Officer:		JUA Sign	ыше.4
Date Inspected:	7.1	./	*
Unless further foundati	on information farea for Appr	a required, change NCS status to "To covals. If further information is requi to Team Leader Consent Approvals fo	red, then status change to 10

KCDC Form 241 ver. 1

### KCDC CODE COMPLIANCE REVIEW CHECK SHEET

Criteria: All building work except for minor works or major projects. Refer BI-WI-024

Bo	2No: ///	1700	,
NAI CAMORE		57	
oplication for code compliance certificate (Form 278) completed	(Y)	N	
	0		0
confirm all required inspections have been completed and passed;	Answe		/No)
inspections have been missed, what supporting info and method of verification of the conference of the	cation has	been 	1
inspection 2 passed with #3. Inspection 5	115321	1.91	#1
inspection a passer will	1	/	3.04
Inspection #7 revised brown plan rece	ived 1	IOM	ingi
and the same have the same and the same of			V
			a produced for several
Work in accordance with approved consent and approved amendments		Tes	No
fine has NTE been issued:	N/A	Yes	100
Have items of non compliance been resolved and NTF uplifted.  Have items of non compliance been resolved and NTF uplifted.  Note: If work is not in accordance with consent, (and approved amendments) or NTF matter.	NIA	Yes	No
Supporting documentation required in building consent addenda (Acceptable MCDC Policy 002) Form completed during BC Approval process  Tick $(\forall)$ indicates yes, N/A indicates considered - but not applicable		Supplied	Accept
copy of electrical certificate ×2	V.	V	V
copy of gas certificate	NOW	-	1
on for built' drainage plan	V	V	V
plumbing (Form 125) for pressure test and installation piped services	V/	· /	V
drainage (Form 126) for stormwater installation	1	V	V
Arringge (Form 127) for private sewer installation	V	V	1
a Construction Review (PS4) statement for Structural engineering	WA.		-
a Construction Review (PS4) statement for Fire engineering	WA		-
a Constitution review ( = 5	WH.		1 42
a Construction Review (PS4) statement for Geo-technical engineering	-	1	V
a Construction Review (PS4) statement for Geo-technical engineering  Roof cladding warranty	Na	1	-
a Construction Review (PS4) statement for Geo-technical engineering  Roof cladding warranty  Solar water heating technical specifications	-		
a Construction Review (PS4) statement for Geo-technical engineering  Roof cladding warranty  Solar water heating technical specifications	Na My	1	1
a Construction Review (PS4) statement for Geo-technical engineering Roof cladding warranty Solar water heating technical specifications wall cladding/texture coating installation applicator warranty a copy of the lift certificate	We we		/
a Construction Review (PS4) statement for Geo-technical engineering Roof cladding warranty Solar water heating technical specifications wall cladding/texture coating installation applicator warranty a copy of the lift certificate a certificate from the fire alarm installer	Will Will We		/
a Construction Review (PS4) statement for Geo-technical engineering Roof cladding warranty Solar water heating technical specifications wall cladding/texture coating installation applicator warranty a copy of the lift certificate a certificate from the fire alarm installer a certificate from the sprinkler installer	We we	·/	
a Construction Review (PS4) statement for Geo-technical engineering Roof cladding warranty Solar water heating technical specifications wall cladding/texture coating installation applicator warranty a copy of the lift certificate a certificate from the fire alarm installer a certificate from the sprinkler installer	Wa NVI Wa VV		
a Construction Review (PS4) statement for Geo-technical engineering Roof cladding warranty Solar water heating technical specifications wall cladding/texture coating installation applicator warranty a copy of the lift certificate a certificate from the fire alarm installer a certificate from the sprinkler installer a copy of wet-area membrane installers warranty A copy of deck membrane manufacturer's installers warranty/guarantee	Will Will We	·/	
a Construction Review (PS4) statement for Geo-technical engineering Roof cladding warranty Solar water heating technical specifications wall cladding/texture coating installation applicator warranty a copy of the lift certificate a certificate from the fire alarm installer a certificate from the sprinkler installer a copy of wet-area membrane installers warranty A copy of deck membrane manufacturer's installers warranty/guarantee	Wa NVI Wa VV	·/	
a Construction Review (PS4) statement for Geo-technical engineering Roof cladding warranty Solar water heating technical specifications wall cladding/texture coating installation applicator warranty a copy of the lift certificate a certificate from the fire alarm installer a certificate from the sprinkler installer a copy of wet-area membrane installers warranty A copy of deck membrane manufacturer's installers warranty/guarantee  EPIS (verifier) Fire Systems Certification	Wa NVI WA NA	V	
a Construction Review (PS4) statement for Geo-technical engineering Roof cladding warranty Solar water heating technical specifications wall cladding/texture coating installation applicator warranty a copy of the lift certificate a certificate from the fire alarm installer a certificate from the sprinkler installer a copy of wet-area membrane installers warranty A copy of deck membrane manufacturer's installers warranty/guarantee	Wa NVI Wa VV	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	

## KCDC CODE COMPLIANCE REVIEW CHECK SHEET

specified supporting documentation has not learning and learning the supporting documentation has been provided to comp	pensate. (describe):			
	7	of marked had had not seen fore you got you find you had not seen seen seen out and had he		and the same of th
	1			
	1			
ومواهدة ما المرابع والمرابع والم	ar yan jad dan jad yan ban dan san dan jada san dan jada yan dan dan dan san an gan dan dan dan dan dan dan da	UDUNUMENTA TITLE		
Compliance Schedule			55	1
s a néw or amended compliance schedule req	quired?		Y	M
f "Y" Has it been issued? (Refer note below)			Y	34
If the new/ revised compliance schedule has n it will be issued? Outline:	not been issued, who	it action has been i	taken to	ensure
To Little on Section 1990	egye hig our face amount that the further two tray only and and compare to a particular state of the second state of the secon	ne for each an ear and only only fad and had never to come an early and pages.		
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	patents had been had yet been been ready and also said year they ready and the second second			
Building consent requirements.  Are there any item specified in the building of the building o	CONSCIT OF LITTE			
Annual of the second se		nel per fin arrange de spirit per		
		N.		
re there any development impact fees to be pa	aid outstanding? Y	es / No) (if yes, CC	C cannot	be issued
e there any development impact tees to be pe	and during the			1
pprove to issue Code Compliance Certifica	ate if all other outs	tanding fees are I	paid.	YESYN
pprove to issue code company				
1	24.0	. 10	2	
Building officer:	Co-	reviewer:	100	X
Signature:	Sign	ature:	7	
7015	Date	26,21	بنوسيد	1
Date;		V. ccol	118	ml
Name: Andlish	Nat	10: 10: 10:	.1	1.66

KCDC Form 124 V2

Page 2 of 2

FOR COUNCIL USE:

		FOR COUNCIL USE:	
DEPARTMENT	TICK FOR REFERRAL		APPROVING OFFICER/ DATE
Site Inspection	/	Refer to Form 241 for completion of site Inspection & sign off this form when completed.	
Resource Consents (refer PIM Sheet)	/		
Plumbing and Drainage	/		X 12/1/200
Building	/	SAMMan 18	-8-11
Fire Design			
Compliance Schedule			
Environmental Health			
Other			
		NOTES:	
5			

KAPITI COAST

	110397	
<b>Building Project</b>	New house e Charage	
Location (Site Address)	35B Kofare St. No	ul
<b>Building Category</b>	Circle appropriate category 0 (1) 2 3	
RECEIVEAPPI	ication workflow checklist	
0 6 JUL 2011 KAPITI COAST DISTRICT COUNCIL	Name & Signature  Note # A signature confirms that the application contains sufficient information to enable compliance with the building code to be assessed	ate

# 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 Payment taken and receipted (details entered inside this cover sheet) by CSO CS-WI-008 Data entered and invoiced by CSO CS-WI-008 Barbara Pages numbered by CSO CS-WI-008 BC Application and documentation scanned, checked & status update by CSO CS-WI-009 Darbara BC Application signed over to BC CS-WI-009

Barbara Application reviewed by Technical Officers who sign off at back of this form AP-WI-026 & AP-WI-009 Once Technical review complete, passed to CS for Plan Production and Invoicing AP-WI-009 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 Inspection envelope prepared by CSO with endorsed plans and other appropriate paperwork and filed to cabinet. CS-WI-012

Barbara	13	19/11

**Building Consent No.** 

### **CONSENT DATA INPUT REQUIREMENTS**

REQ	UIRED INSPECTIONS	32	1	Lapse and cancellation	23		Installation of solid fuel
V	Foundation/Piles		V	after 12mths of consent			appliance (wood burner) comply and secured
V	Block	2	1	Engineer design specific components	23A		Second hand wood burner certified
/	Pre-Slab (Plumbing)	3	/	Foundations to solid bearing of 200mm	25	V	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	6		Building Code	04		
V	Drainage			Not approved as Habitable Room	31		As in CCZ, all fixings need to be stainless steel
/	Pre-Wrap	9	/	Note and comply with all endorsements on approved plans	33		Approval only given for relocation purposes
/	Pre-Clad	10		Names and Registration of plumber and drain-	34		If cladding to have pre-
/	Weathertightness			layer required			finished colour coating, to be appropriate for coastal
V,	Pre-lining (Building)	11		Concealed soil and TV	38		conditions Window sashes on upper
/	Pre-lining (Plumbing)			pipes and gas flues only allowed in ducts or minimum framed			levels less than 760mm above floor to have stays fixed
V	Wet areas - membrane	12		Hot & Cold water pipes	39		Construction of
/	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
V	Retaining Wall						swimming pool to comply with Pool Act 1987
V	Final (Dwelling)	14		Copper water pipes not permitted	43	1	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	/	Exterior cladding system to be completed and inspected prior to internal lining
		21	/	Minimum FFL to comply with NZS3604			

STA	NDARD CONSENT CONDITIONS
37	
72	
80	

#### NON-STANDARD ADDENDA

Con	ipaction	cer	fificate	by engl	neer to
be	Supplied	of h	council	proc to	placina
cein	fordina	and	concrete		
					A THE RESERVE

Form 123 ver. 2 - Doc #124146

#### FOR OFFICE USE ONLY

FEES		APPLICATION FEE	\$
Building Fee	\$3007.00		\$5060-00
Sewer Connection	\$	RECEIPT NO	DATE
Water Connection	\$		
Vehicle Crossing	\$	INVOICE NO	DATE
Damage Deposit	\$.508.00	24079	6/7/11
Code Compliance Administration	\$	RECEIPT NO	DATE
Building Research Levy	\$500.00	381367	6/7/11
Development Levy	\$	FEES PAID BY:	
DBH Levy	\$1005.00	Anthony & Lor	na Ward
Compliance Schedule	\$		
Digital Storage Fee	\$40.00	BUILDING CONSENT NUMBER	DATE ISSUED
Certificate of Title Charge	\$	100 A 200 A	6/7/11
Photocopying	\$	110397	~ 1 / 1 / 1
SUBTOTAL	\$	AUTHORISATION FOR R	EFUND OF DEPOSIT
Less Fee Paid	\$	Deposit held =	\$
TOTAL	\$5060.00	Cost to Repair Damage Caused	During \$
GST INCLUDED	\$	Total Balance to be Refunded	<b>4</b>
		Authority Number:	
		Authorised:	DATE:

GST 51-860-608

Received with thanks by 45
KAPITI COAST DISTRICT COUNCIL 49/01

6-07-11 12:43 Receipt no.381367

DR BC110397

ANTHONY & LORNA WARD 5,060.00-Anthony & Lorna Ward::35B Kotare Street

Westpac Bank Cheque

5,060.00

Form 123 ver. 2 - Doc #124146







### Kāpiti Coast District Council

Private Bag 60 601 Paraparaumu 5254 New Zealand Tel (04) 296 4700 or 0800 486 486

Fax (04) 296 4830 =

kapiti.council@kapiticoast.govt.nz

www.kapiticoast.govt.nz

## Building consent 110397

Section 51, Building Act 2004

#### The building

Street address of building: 35B Kotare Street, Waikanae

Legal description of land where building is located: LOT 1 DP 409453 C/T 34B/419

Valuation number: 1496061603

Building name: Dwelling & Separate Garage

Location of building within site/block number: House Nth end & Garage Sth end of site.

Level/unit number:

#### The owner

Name of owner: Anthony & Lorna Ward

Contact person: Stuart Jackson - Agent - 905 0550

Mailing address: 35B Kotare Street, Waikanae

Street address/registered office:

Phone number: Landline: 04 293 7203

Mobile: 027 551 4443

Daytime:

After hours:

Facsimile number:

Email address: kotareg@xtra.co.nz

Website:

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

As above

#### **Building work**

The following building work is authorised by this building consent:

Build new house at north end of site. Build shed and garage at south end of site. Construct retaining wall on excavation for drive access.

Residential 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.



The building must be altered, removed, or demolished on or before the end of Over 50 years years from the date of issue of this consent (being the specified intended life of the building); and

#### Compliance schedule

A compliance schedule is not required for the building.

#### Attachments

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

Signature

Position

On behalf of: KAPITI COAST DISTRICT COUNCIL

Date: 18/08/11

13 September 2011

Anthony & Lorna Ward 35B Kotare Street Waikanae

Dear Sir/Madam

#### Approval of Building Consent: 110397

Description: Build new house at north end of site. Build shed and garage at south end of site.

Construct retaining wall on excavation for drive access.

Location: 35B Kotare Street, Waikanae

Legal Description: LOT 1 DP 409453 C/T 34B/419

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 final inspection.
- 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 Kapitl Coast District Council on (04) 9045 617.

## Addenda to Application

Application

Anthony & Lorna Ward 35B Kotare Street Waikanae No.

110397

Project

Description	New (& prebuilt) House, Unit, Bach, Crib, Town House etc.
Description	New (& prebuilt) House, Offit, Bach, Chb, Town House etc.
	Being Stage 1 of an intended 1 Stages
	Build new house at north end of site. Build shed and garage at
	south end of site. Construct retaining wall on excavation
Intended Life	Specified as Over 50 years years
Intended Use	Residential dwelling
Estimated Value	\$500,000
Location	35B Kotare Street, Waikanae
Legal Description	LOT 1 DP 409453 C/T 34B/419
Valuation No.	1496061603

Builder:

Cox & Sweetman Ltd 37 Ihaka Street, Paraparaumu: 04 902

5618

Designer:

Designscape - Allan Pullenger 298 Rosetta Road, Ramati: 04

902 8528 / 027 442 0486

Drainlayer:

TBA

Plumber:

Advanced Plumbing & Gas Services Ltd PO Box 45151,

Waterloo, Lower Hutt: 04 577 3007 / 021 492 291

Contractor:

Allan Pullenger 298 Rosetta Road, Raumati: 04 902 8528 /

027 442 0486

Contractor:

Solar Works Ltd 6 Ocean Vista Lane, Paraparaumu: 0800 649

649 / 021 168 5062

#### **General Requirements**

- a) The Building Inspector is to be given 24 hours' notice before carrying out the following inspections:
- 1. Foundations
- 2. Block
- 3. Pre-slab
- 4. Pre-slab
- Drainage
- 6. Pre Wrap
- 7. Pre Clad
- 8. Weathertightness
- 9. Preline
- 10. Preline
- 11. Wet Area pre Application

### Addenda to Application 110397

- 12. Wet Area post application
- 13. Postline

2

- 14. Retaining Wall
- 15. 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.

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:

- 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. All foundations are to be to solid bearing minimum of 300mm
- 4. Note and comply with endorsements on approved plans.
- Minimum heights of finished concrete slab-on-ground floors above adjoining finished ground level to comply with the current NZS3604.
- 6. Contractor to leave site clear of all demolition materials and in a tidy state.
- Textured Systems should be applied by licensed, trained applicators only. Supply copy
  of warranty to Certifier.
- 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.
- Compaction Certificate by Engineer to be supplied to Council prior to placing reinforcing and concrete.
- All work shall be carried out in general accordance with RM's 100144 & 050238 and approved plans.
- 11. DIF Fees: \$1478.70

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:

the water storage tank is to be topped up by a 600lt per day restricted supply from the second connection on the modified toby. No additional connections permited. Two water mains required! one for house one for the tank.

I recommend that the lid be secured of the water stoarge tank to prevent unauthorised access

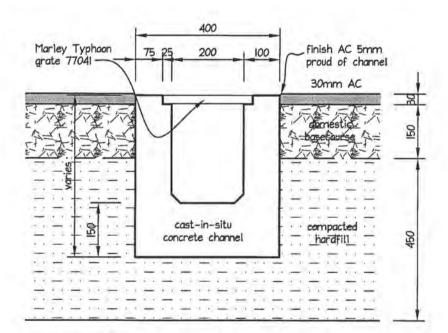
water pipes running to w.c's and all hose taps are to be marked non potable for entire lenght

No Hose Taps on the town water supply permitted

The plumber is to contact Aldrin Abad with the attached water connection form (159)when

the toby is to be changed/modified 042964731 .the cost of this toby modification and any reinstatement work will be paid by the owner/agent when the invoice is sent out

Ensure that the lid of the tank is above the finished ground level

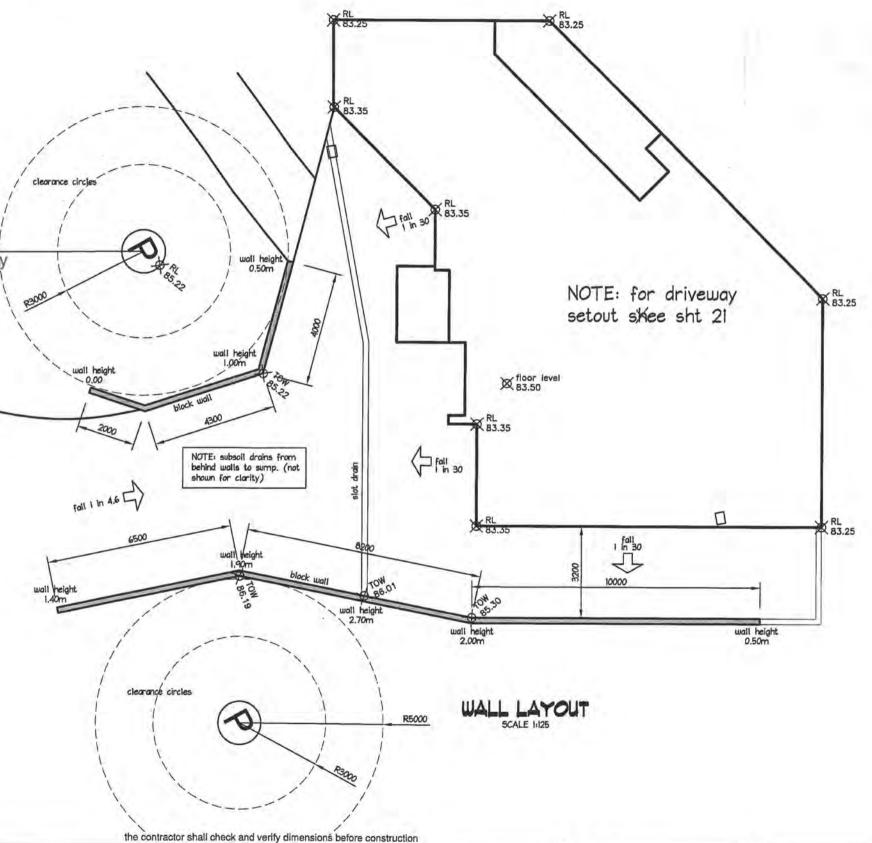


## SLOT DRAIN SECTION

designscape

Civil, Structural and Building design http://www.designscape.net.nz email info@designscape.net.nz Allan Pullenger AIPENZ CertETn 298 Rosetta Road sunny Raumati

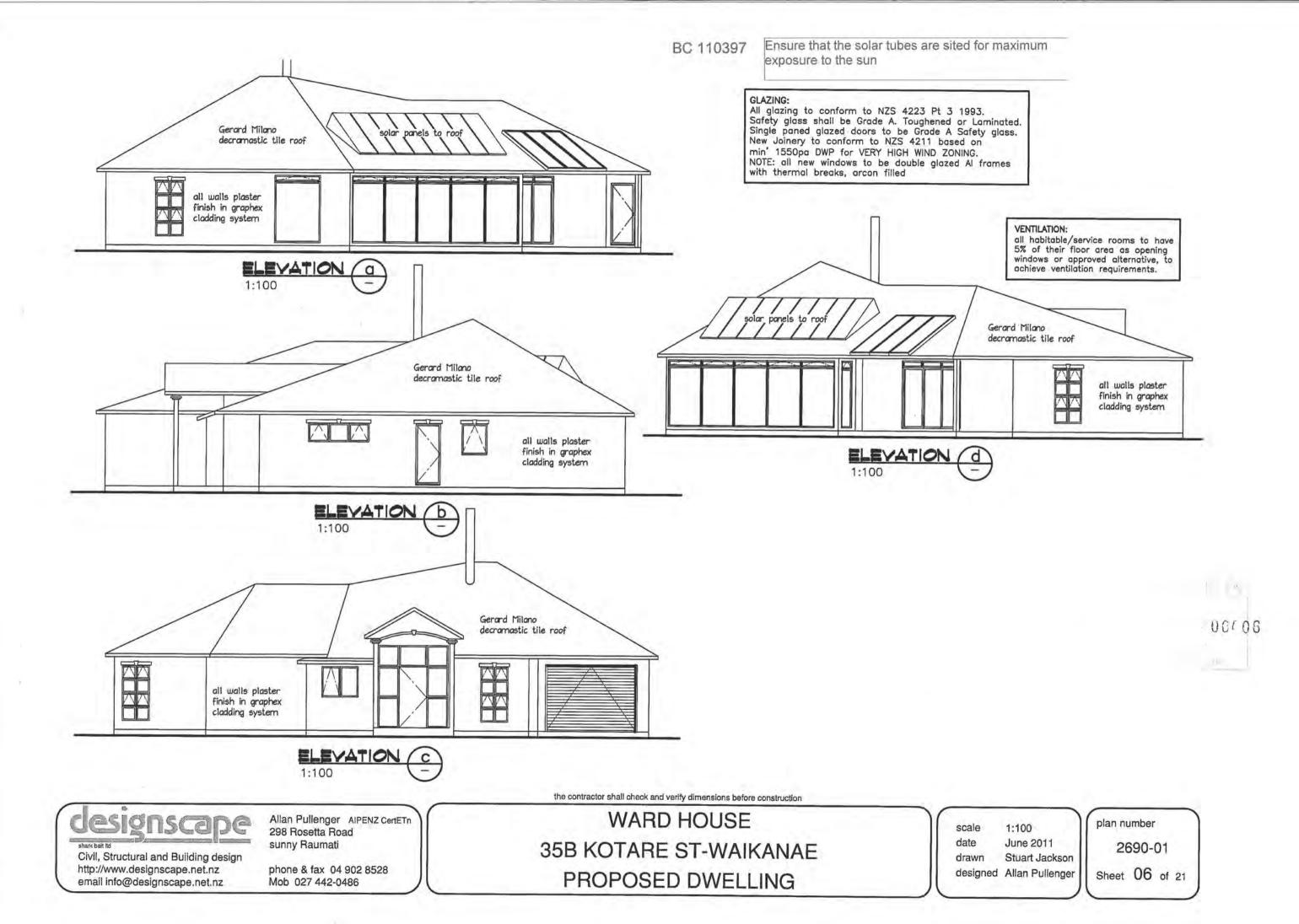
phone & fax 04 902 8528 Mob 027 442-0486

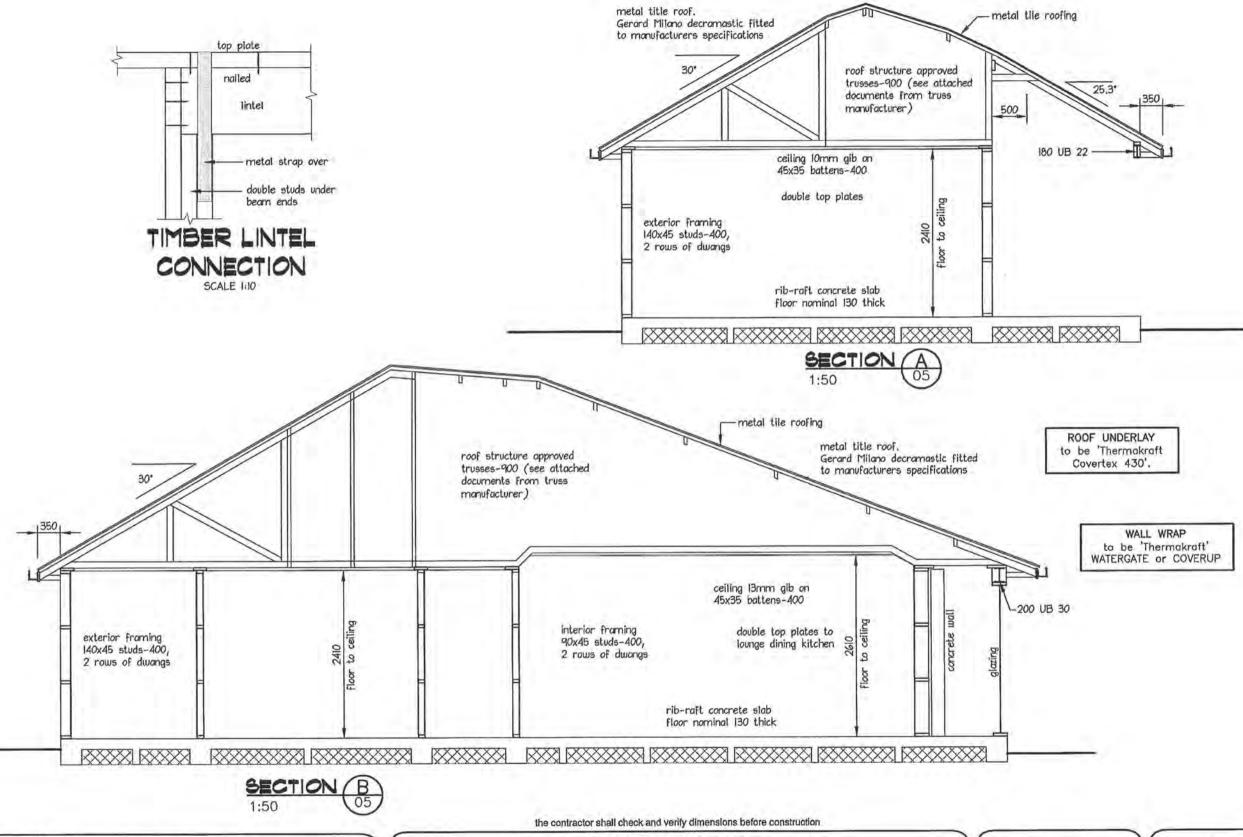


WARD HOUSE 35B KOTARE ST-WAIKANAE PROPOSED DWELLING

scale as shown
date June 2011
drawn Stuart Jackson
designed Allan Pullenger

plan number 2690-01 Sheet 03 of 21 00103





designscape

Civil, Structural and Building design http://www.designscape.net.nz email info@designscape.net.nz Allan Pullenger AIPENZ CerteTh 298 Rosetta Road sunny Raumati

phone & fax 04 902 8528 Mob 027 442-0486 WARD HOUSE 35B KOTARE ST-WAIKANAE PROPOSED DWELLING

scale 1:50
date June 2011
drawn Stuart Jackson
designed Allan Pullenger

2690-01 Sheet 07 of 21

2500 2100 3546 3000 3560 400mm wide NO planting or garden areaaround entire dwelling 600x600x600 2/1200 long DIO bars to internal corners -2/1200 long DIO bars to internal corners 600x600 pads -400x400 pads-400x400 pad 130mm thick concrete floor 25Mpa special grade (see details) 400x400 pa ground bearing must be reconfirmed on site following excavation but prior to placing of concrete and reinforcing 400x400 pag 2/1200 long DIO bars to internal corners NOTE: all pads 250mm deep unless shown otherwise FOUNDATION PLAN 400x400 pad — 600x under ends of girder trusses 600x600 pad

CONTROL JOINTS: shrinkage control joints to be formed in floor slab as per section 7.5.8.6 of NZS3604:1999

100100

Civil, Structural and Building design

http://www.designscape.net.nz

email info@designscape.net.nz

CONCRETE STRENGTH: to be 25 Mpa @ 28 days unless detail elsewhere

> Allan Pullenger AIPENZ CertETn 298 Rosetta Road sunny Raumati

phone & fax 04 902 8528 Mob 027 442-0486

WARD HOUSE

5701

35B KOTARE ST-WAIKANAE PROPOSED DWELLING

the contractor shall check and verify dimensions before construction

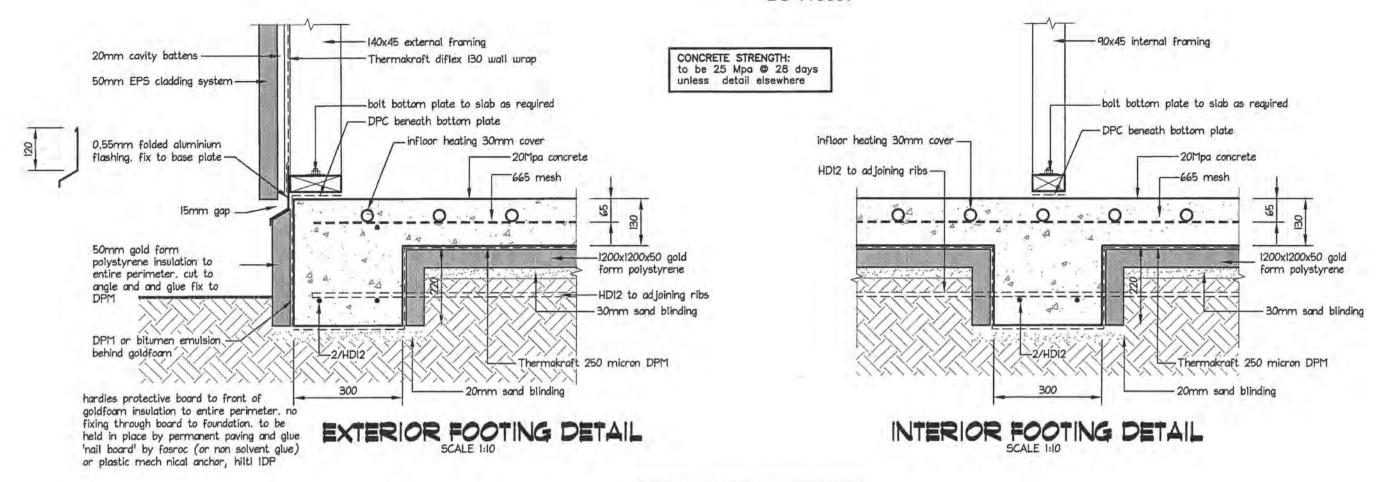
9582

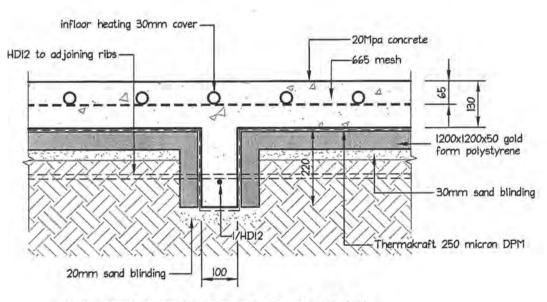
3881

scale 1:100 date June 2011 Stuart Jackson drawn designed Allan Pullenger

plan number 2690-01

Sheet 08 of 21





REINFORCING STEEL LAP: D10 = 400 mm : HD10 = 700 mm D12 = 480 mm : HD12 = 840 mm D16 = 640 mm : HD16 = 1120 mm D20 = 800 mm : HD20 = 1400 mm

REINFORCING STEEL BENDS:

D10 = min 50mmø & min 40mm for stirrups D12 - min 60mmø & min 48mmø for stirrups

D16 = min 80mmø

REFER ALSO TO NZS3101 for clarity

00(09

# INTERMEDIATE RIB DETAIL

Allan Pullenger AIPENZ CertETh 298 Rosetta Road sunny Raumati the contractor shall check and verify dimensions before construction

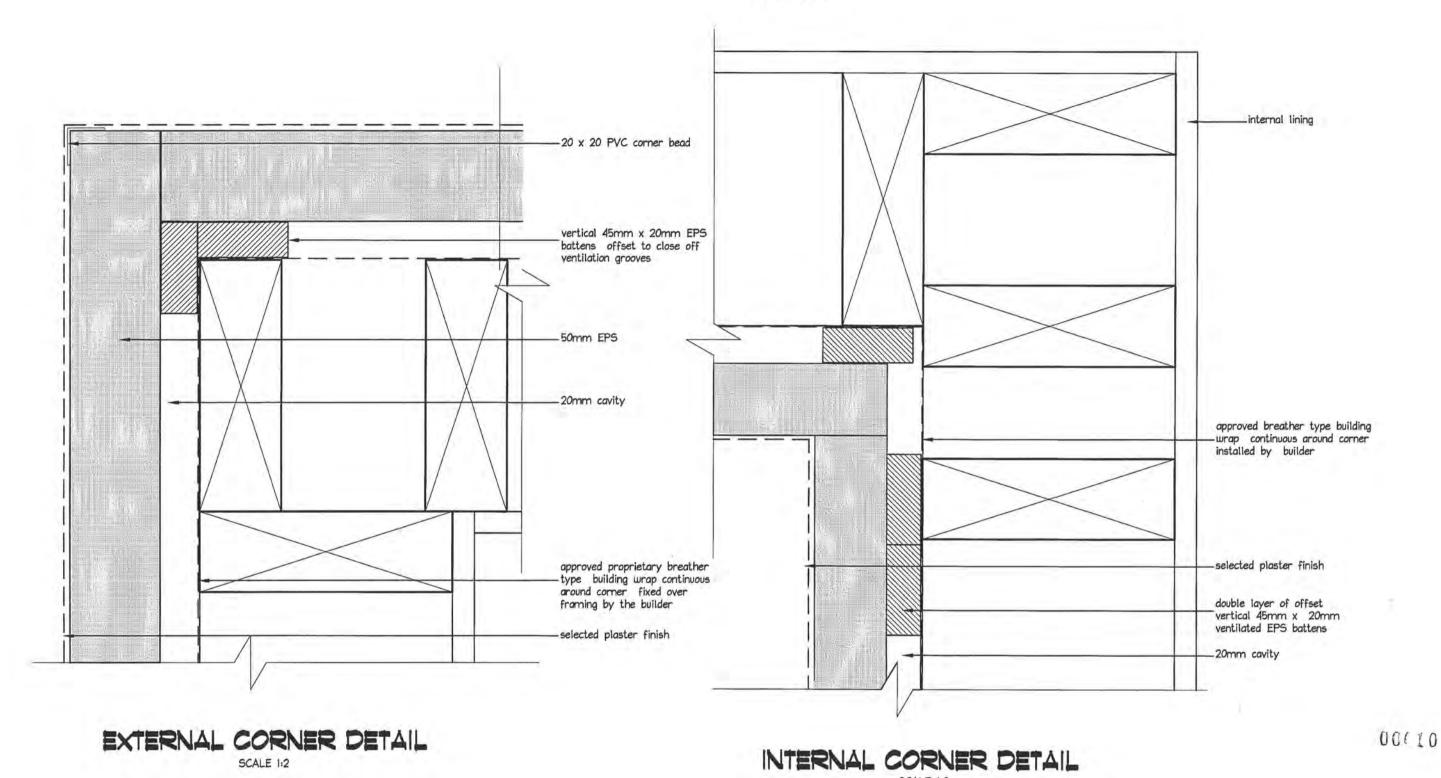
WARD HOUSE 35B KOTARE ST-WAIKANAE PROPOSED DWELLING

scale 1:10 date June

date June 2011 drawn Stuart Jackson designed Allan Pullenger 2690-01 Sheet 09 of 21

civil, Structural and Building design http://www.designscape.net.nz

phone & fax 04 902 8528 Mob 027 442-0486



Civil, Structural and Building design http://www.designscape.net.nz email info@designscape.net.nz

Allan Pullenger AIPENZ CertETn 298 Rosetta Road sunny Raumati

phone & fax 04 902 8528 Mob 027 442-0486

the contractor shall check and verify dimensions before construction

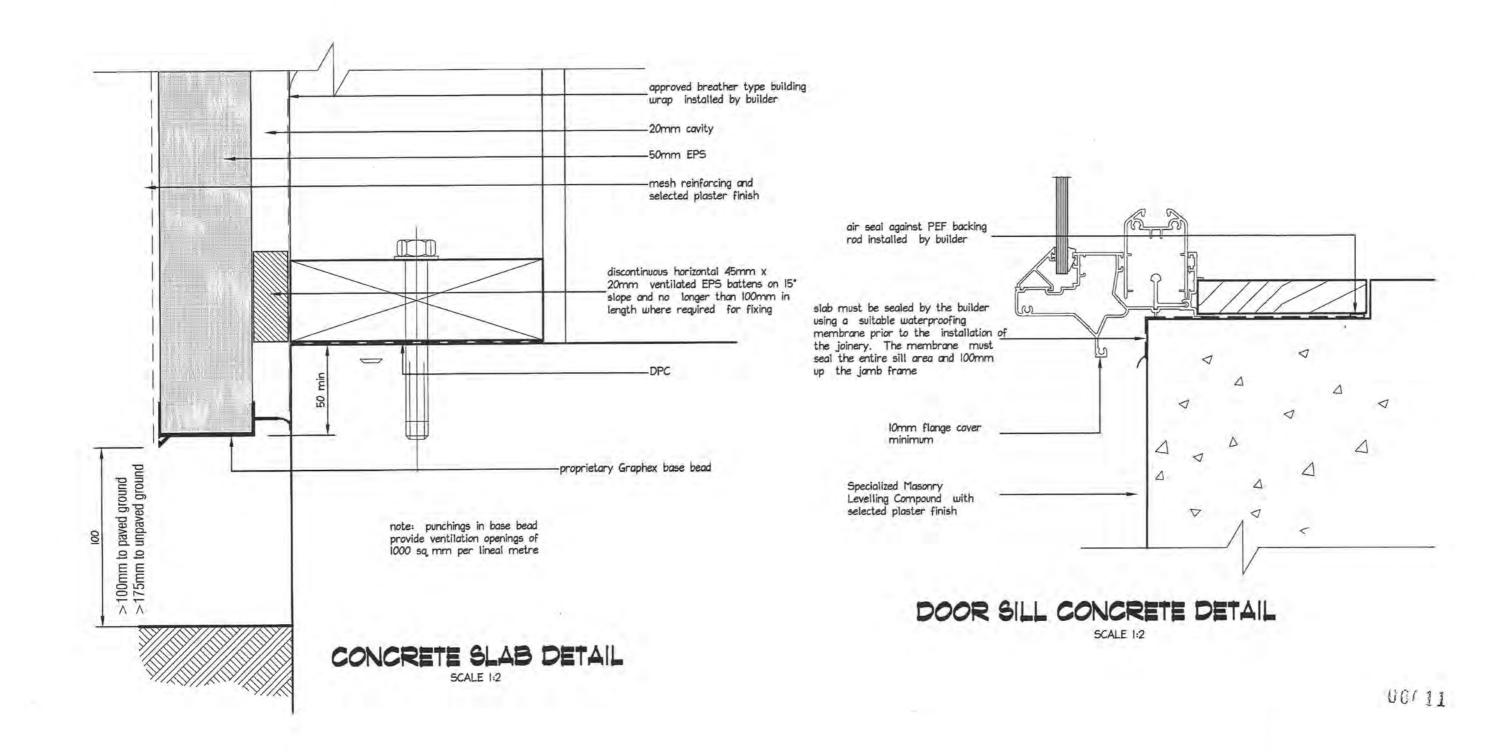
WARD HOUSE 35B KOTARE ST-WAIKANAE PROPOSED DWELLING

June 2011 date drawn Stuart Jackson designed Allan Pullenger

2690-01

plan number

Sheet 10 of 21



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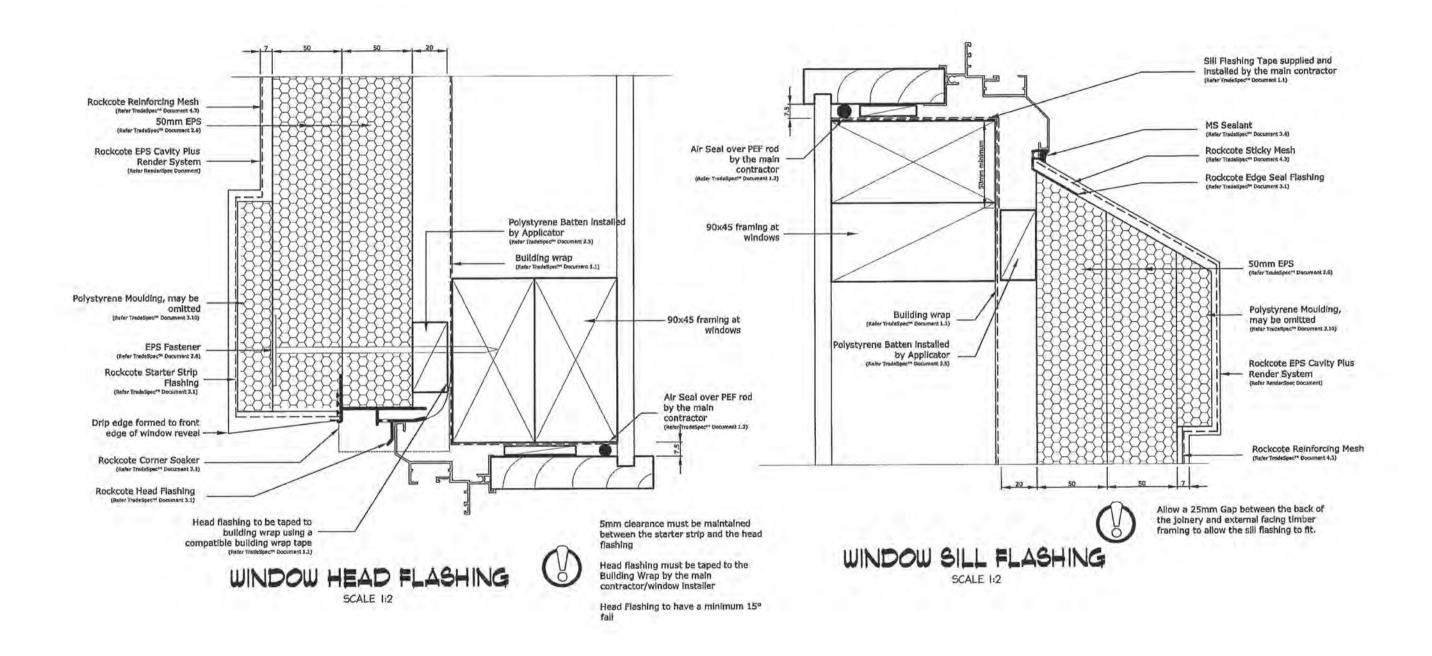
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WARD HOUSE 35B KOTARE ST-WAIKANAE PROPOSED DWELLING

scale 1:2 date June

date June 2011 drawn Stuart Jackson designed Allan Pullenger plan number 2690-01

Sheet 11 of 21





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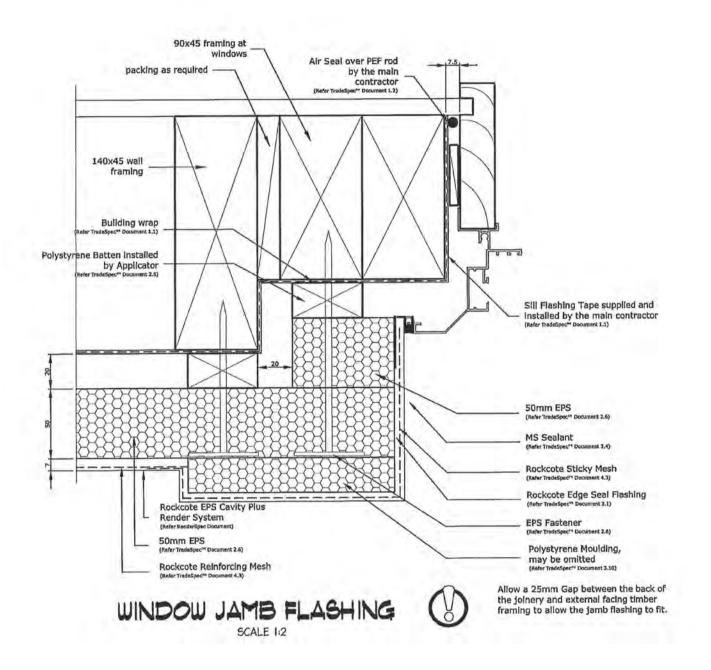
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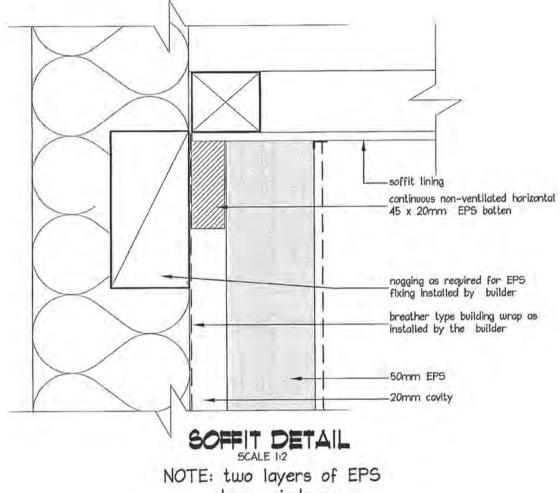
WARD HOUSE 35B KOTARE ST-WAIKANAE PROPOSED DWELLING

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date June 2011 drawn Stuart Jackson designed Allan Pullenger plan number 2690-01

Sheet 12 of 21





above windows



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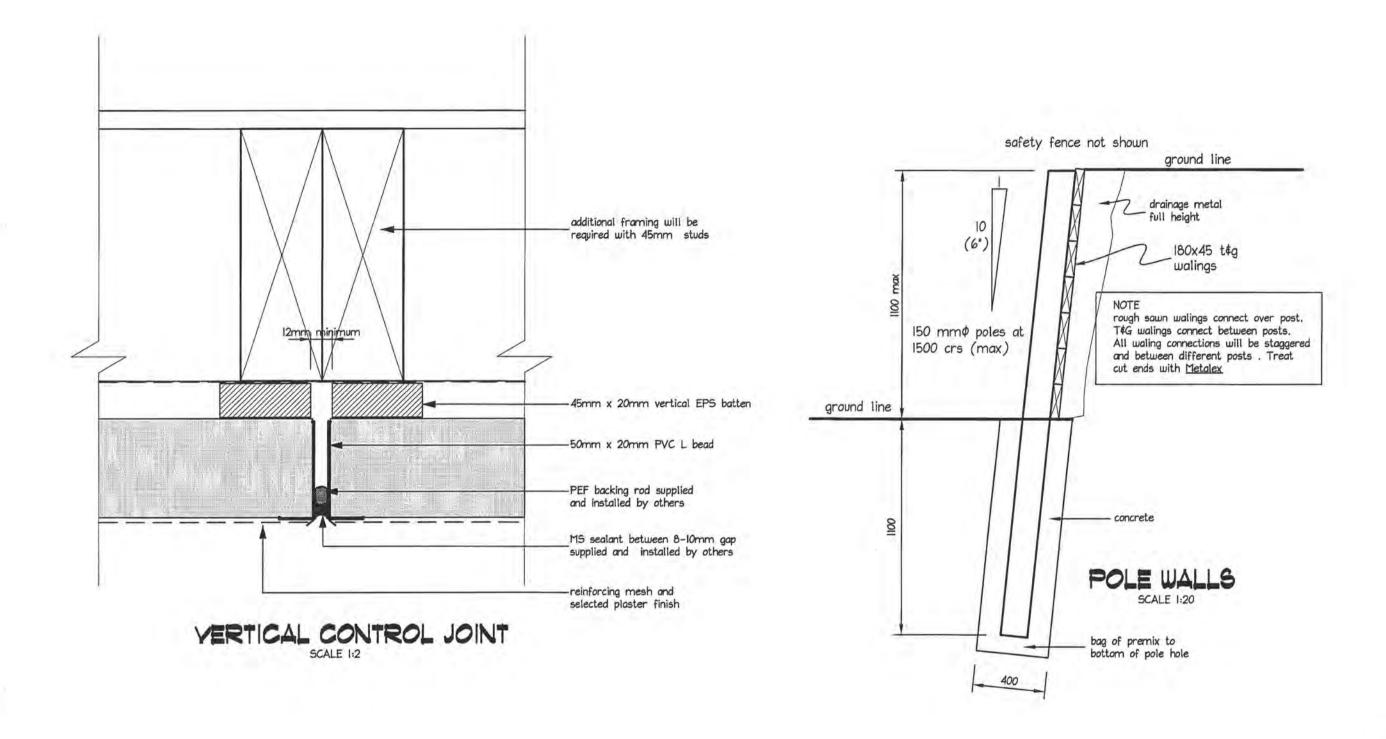
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phone & fax 04 902 8528 Mob 027 442-0486

the contractor shall check and verify dimensions before construction

WARD HOUSE 35B KOTARE ST-WAIKANAE PROPOSED DWELLING

scale 1:2 June 2011 drawn Stuart Jackson designed Allan Pullenger plan number 2690-01 Sheet 13 of 21



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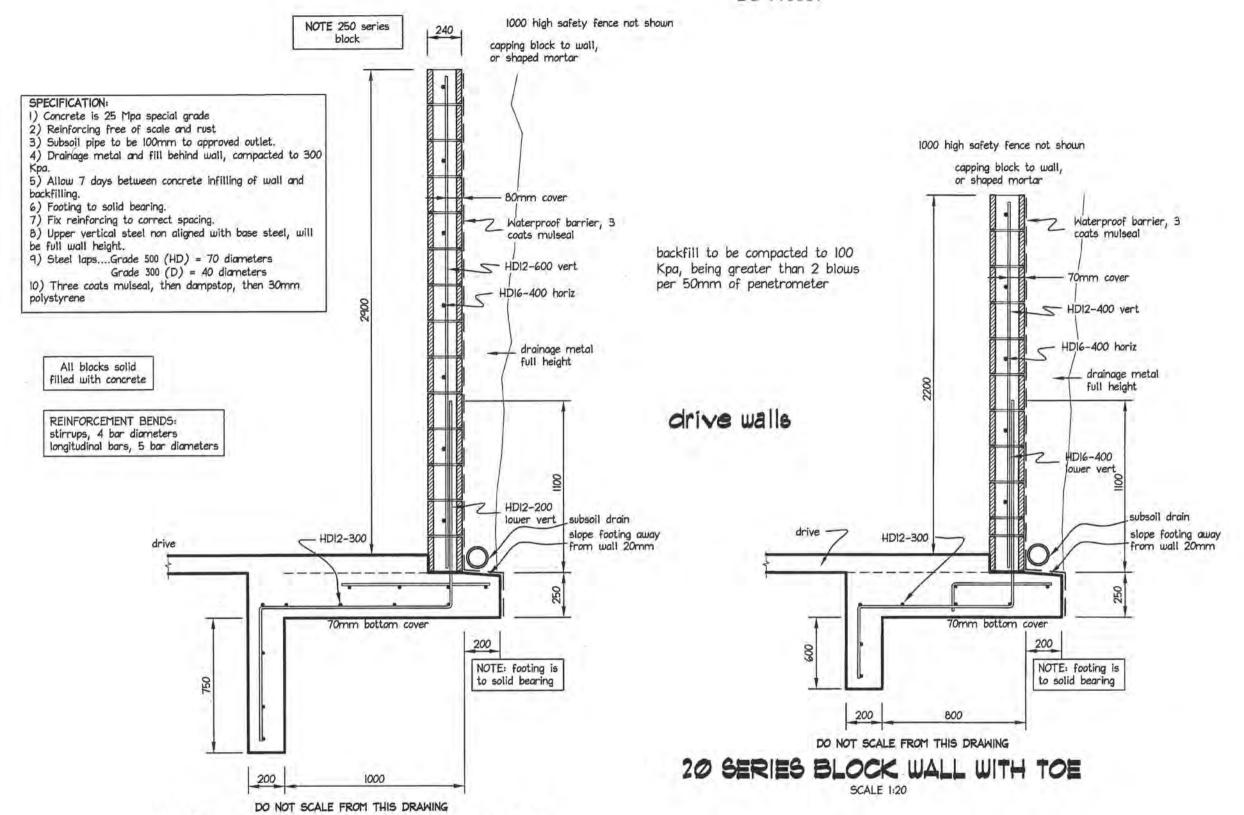
Allan Pullenger AIPENZ CertETn 298 Rosetta Road sunny Raumati

phone & fax 04 902 8528 Mob 027 442-0486 the contractor shall check and verify dimensions before construction

WARD HOUSE 35B KOTARE ST-WAIKANAE PROPOSED DWELLING

scale as shown
date June 2011
drawn Stuart Jackson
designed Allan Pullenger

2690-01 Sheet 14 of 21



### 25 SERIES BLOCK WALL WITH TOE

SCALE 1:20

the contractor shall check and verify dimensions before construction

Civil, Structural and Building design

email info@designscape.net.nz

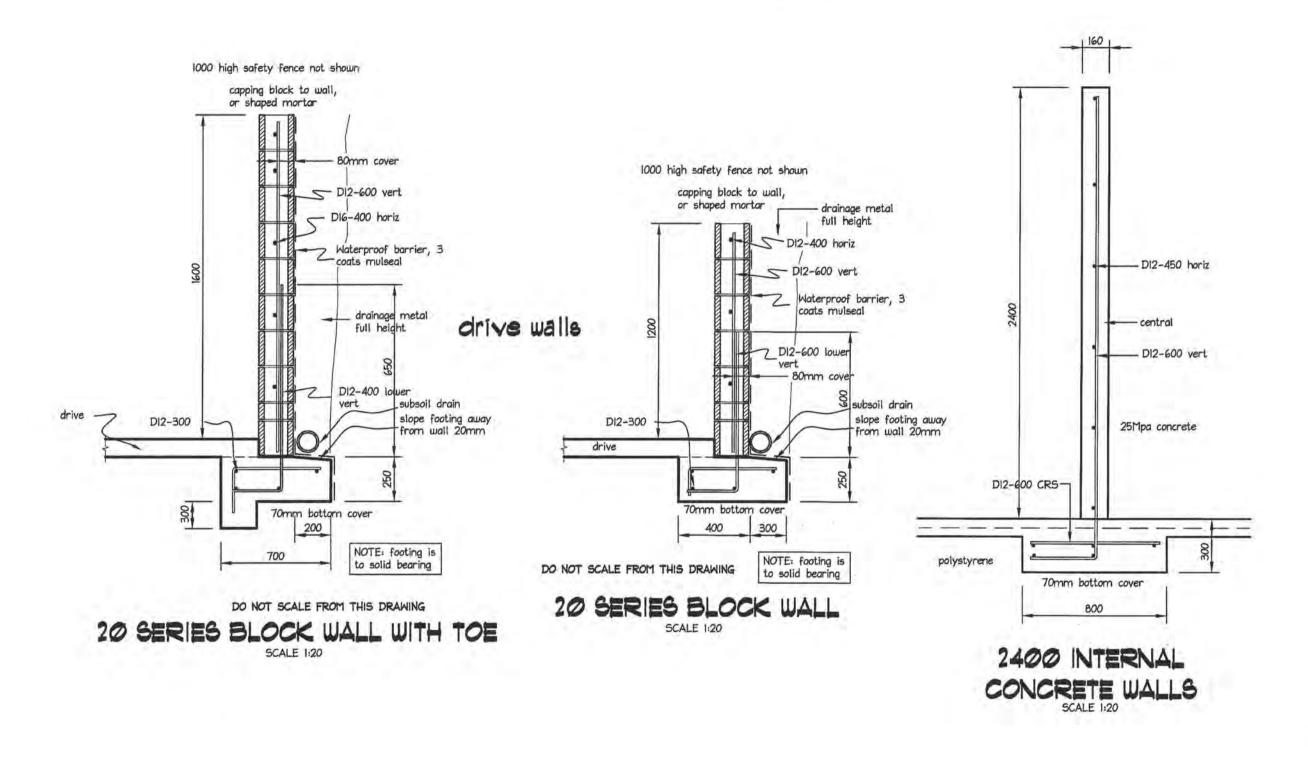
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WARD HOUSE 35B KOTARE ST-WAIKANAE PROPOSED DWELLING

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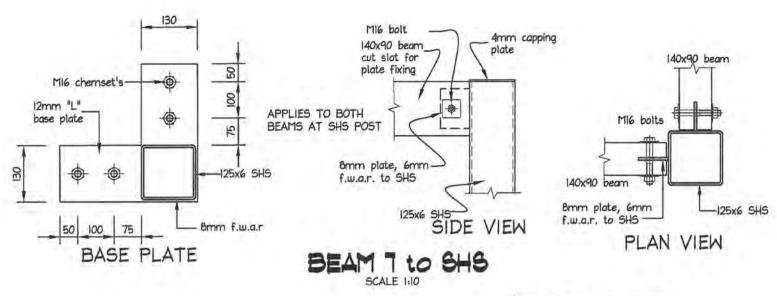
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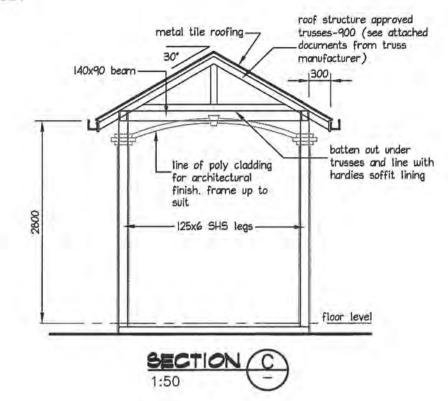
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scale 1:20 date June 20

date June 2011 drawn Stuart Jackson designed Allan Pullenger plan number 2690-01

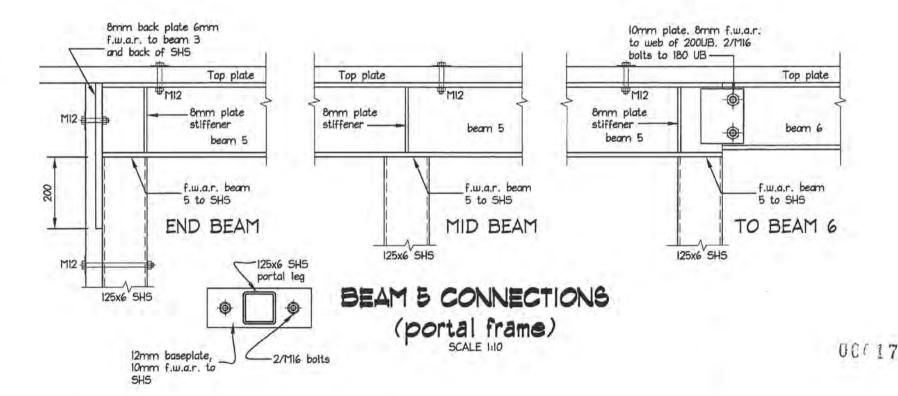
Sheet 16 of 21





BOLT FIXING: all nuts and bolts to have 50x50x5 washers when in contact with timber

8mm thick plate. 6mm fillet weld to both sides to PFC 8mm end plate. 6mm f.w.a.r. to end of PFC Top plate UB MI2 stiffener. 6mm - 2/MI2 bolts f.w.a.r. to PFC 3/MI2 bolts evenly spaced to floor 90x45 to floor 2/90x45 direct support packed to full width beam



designscape

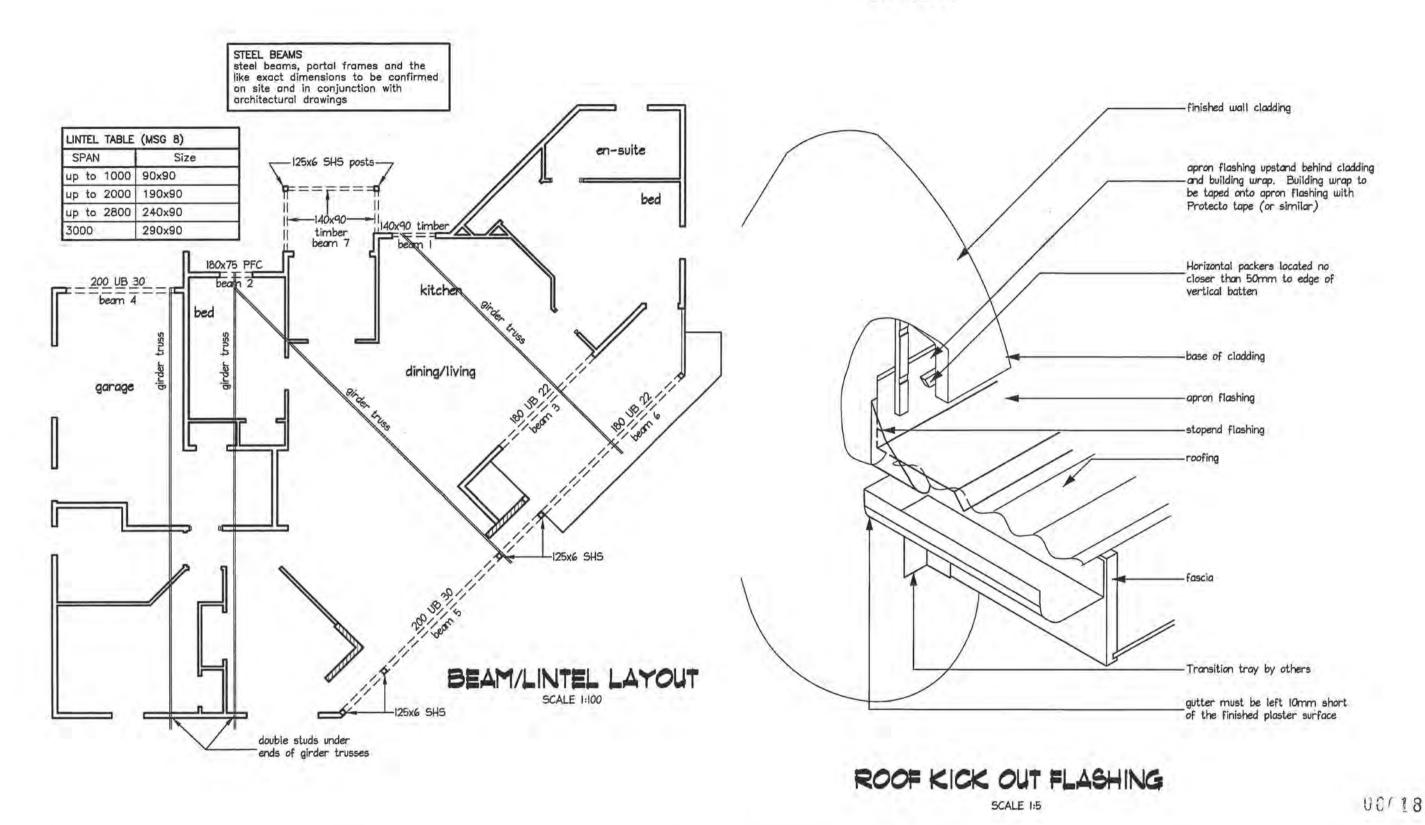
Civil, Structural and Building design http://www.designscape.net.nz email info@designscape.net.nz Allan Pullenger AIPENZ CertETn 298 Rosetta Road sunny Raumati

phone & fax 04 902 8528 Mob 027 442-0486 the contractor shall check and verify dimensions before construction

WARD HOUSE 35B KOTARE ST-WAIKANAE PROPOSED DWELLING

scale as shown
date June 2011
drawn Stuart Jackson
designed Allan Pullenger

2690-01 Sheet 17 of 21



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phone & fax 04 902 8528 Mob 027 442-0486 the contractor shall check and verify dimensions before construction

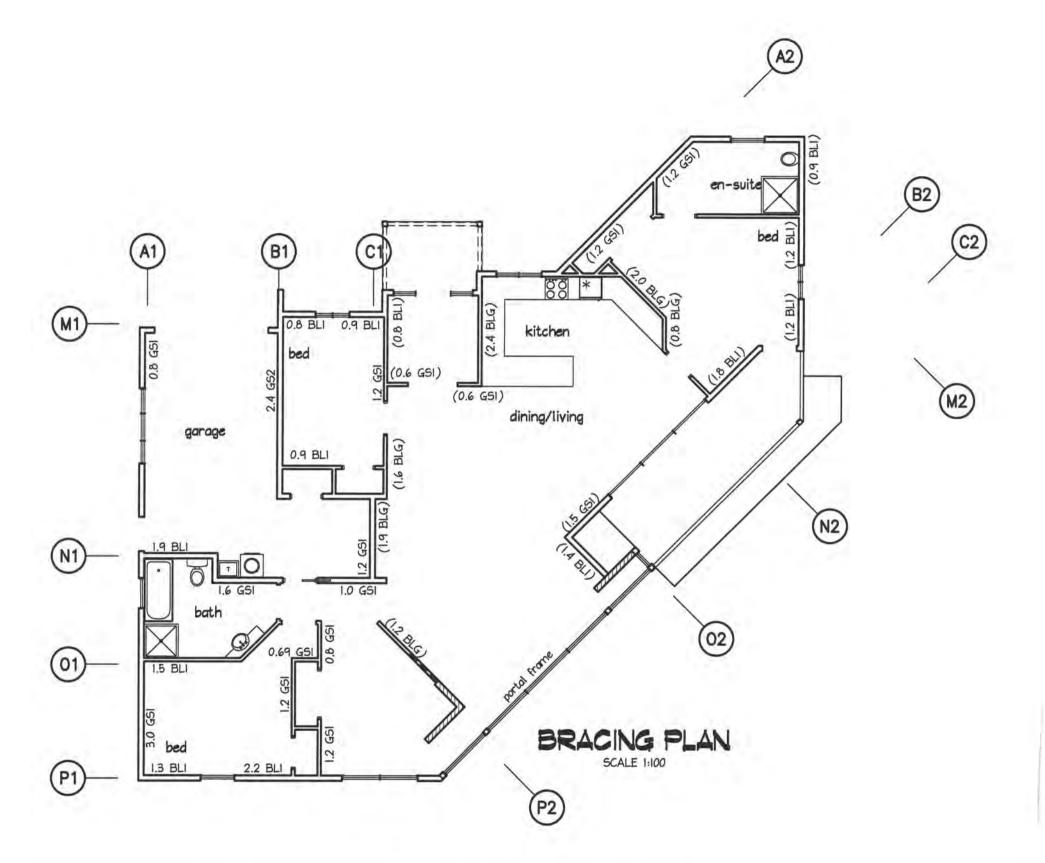
WARD HOUSE 35B KOTARE ST-WAIKANAE PROPOSED DWELLING

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drawn Stuart Jackso

drawn Stuart Jackson designed Allan Pullenger

plan number 2690-01

Sheet 18 of 21



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WARD HOUSE 35B KOTARE ST-WAIKANAE PROPOSED DWELLING

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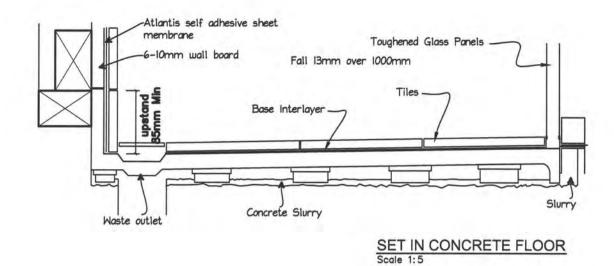
June 2011

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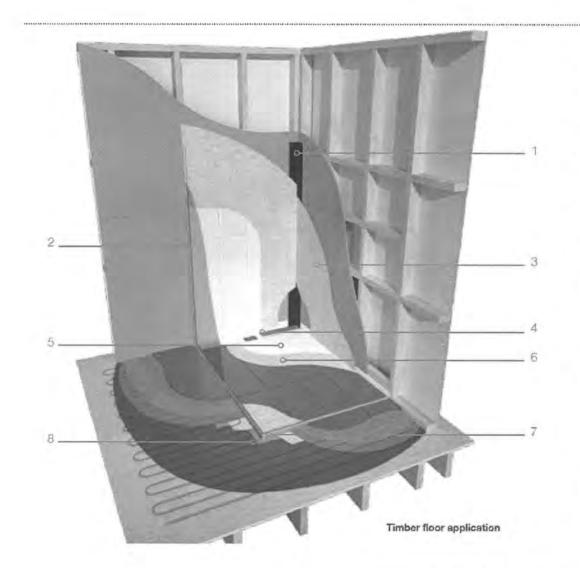
drawn Stuart Jackson designed Allan Pullenger plan number

2690-01

Sheet 19 of 21



LINEA QUATTRO ONE PIECE WET AREA SHOWER BASE WITH INTEGRATED CHANNEL DRAIN FROM ATLANTIS.

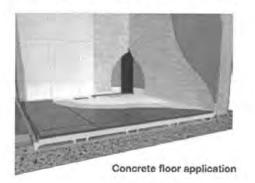


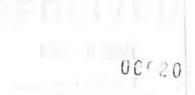
#### LEAK-FREE SHOWERING, GUARANTEED.

- 1 Corner detail tape
- 2 Wall channel
- Self-adhesive wall membrane
- 4 Channel drain and waste outlet
- 5 Shower base surface
- 6 Base interlayer (adhesion surface only)
- 7 Factory-fitted base channel
- 8 Base floor connector

#### **BUILDING CODE COMPLIANT AND** PERFORMANCE TESTED

The waterproofing membrane and connection to the Linea Quattro™ shower base have been BRANZ appraised and tested to meet the requirements of the NZ Building Code.





WARD HOUSE 35B KOTARE ST-WAIKANAE

the contractor shall check and verify dimensions before construction

PROPOSED DWELLING

plan number

scale

date

drawn

n.t.s.

designed Allan Pullenger

June 2011

Stuart Jackson

2690-01

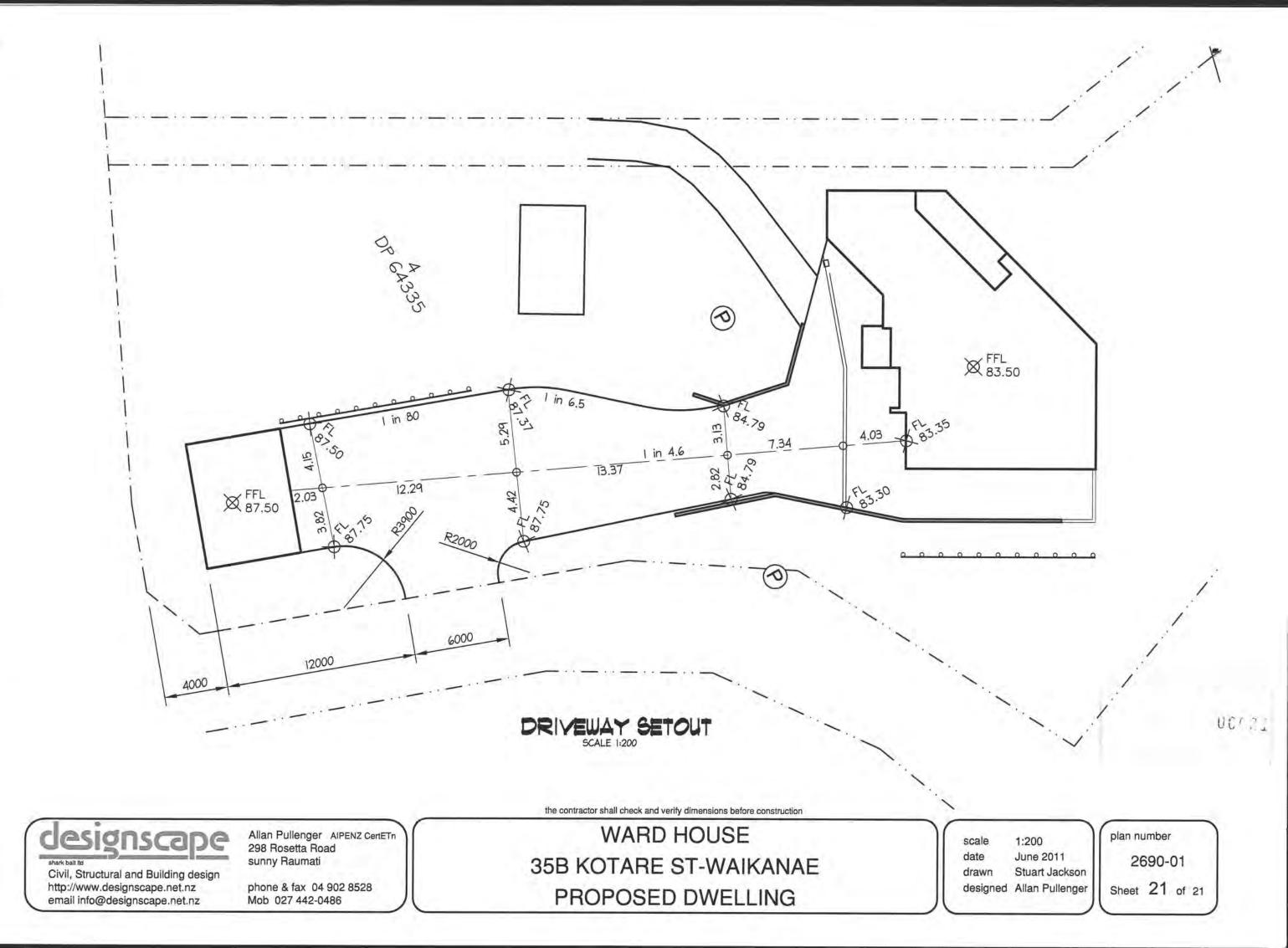
Sheet 20 of 21



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Allan Pullenger AIPENZ CertETn 298 Rosetta Road sunny Raumati

phone & fax 04 902 8528 Mob 027 442-0486





## GARAGES · SHEDS · CARPORTS

Engineered By:

**F R Smith Consultant** 

consulting engineer, civil - structural

## Producer Statement Structural Details

#### CLIENT:

Tony Ward

Kotare Street

Waikanae

Kapiti

#### BUILDING:

Size & Stud Height:  $5.914m \log x 3.964m$  wide, with 2.700m stud height, Bay Size 3.000m Awning(s): 1 x Awning  $6.000m \log x 4.000m$  wide Wind Zone: HIGH (A6-A7) Area:  $47.443m^2$ 

Steel Framed Enclosed Buildings

#### NOTES

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#### INDEX

Cover Page (this page)

Producer Statement: F.R. Smith Consultants - Design

Producer Statement: Versatile Buildings/BHP - Durability

**Specifications - Building Components** 

Site Plan

**Building Elevations** 

**Foundation Details** 

Section - End Wall

**Building Details** 

**Roof Plans** 

**Flashing Details** 

**Bracing Reference** 

Awning

**Awning Foundation** 

00r3

I certify that buildings erected in accordance with these drawings will conform to the requirements of the New Zealand and Australian Building Codes.

FR Smith BE (civil) MIPENZ, MACENZ, MEIAust, no. 2410880, Cp.Eng. RPEQ (6225)





Building Code Clause(s).B.1...

## PRODUCER STATEMENT — PS1 — DESIGN (Guidance notes on the use of this form are printed on the reverse side")

ISSUED BY:	Frederick, R. Smith. Consulting.	
To: Tony Ward / Totalspa	Pulldings	
TO BE SUPPLIED TO:	KCDC	artinatus paratellar de la constante artinatus
	(Building Consent Authority)	
IN RESPECT OF:	Portal Building (Description of Building Work)	
AT: Kotare Street, Waika	nae, Kapiti, , / High (A6-A7) - T.C.2 Rural	***************************************
	DP	so
We have been engaged by the o	wner/developer referred to above to provide .structural.d	esign
(E	extent of Engagement) Services	
	pecified in the attachment to this statement), of the propo	
	been prepared in accordance with: led by Department of Building & Housing .B:1/VM1,.B:1/V.	
NZS 3101, AS/NZS 4600	(verifi	ication method / acceptable solution)
	e attached schedule	
	ered by this producer statement is described on the draw	
	and numbered1-14	and the same of th
구기에게 그 맛이 맛이 뭐라고 있어? 그 아이	nd other documents set out in the schedule attached to the	his statement.
On behalf of the Design Firm,		o outro and description
	following design assumptionsSoil bearing strength to b (Ultimate capacity of 225 cts meeting their performance specification requirements	LP2 to NZC 3804-1000)
documents provided or listed in t	ds the building, if constructed in accordance with the dra the attached schedule, will comply with the relevant prov	isions of the Building Code.
I, .Frederick.R.Smith	e of Design Professional)	ng .34469#
	Reg	Arch#
I am a Member of : 🗸 IPENZ	NZIA and hold the following qualifications: .BE.(0	Civil)
The Design Firm Issuing this stat The Design Firm is a member of	ement holds a current policy of Professional Indemnity In ACENZ OYES ONO	nsurance no less than \$200,000*.
SIGNED BY .Frederick Roland.Sr.	nithON BEHALF OF Frederick Smit	th. Consulting Engineers(Design Firm)
Date 24-06-2010	(signature)	
the Design Firm only. The total max	relied upon by the Building Consent Authority named above. imum amount of damages payable arising from this statement thority in relation to this building work, whether in contract, tori	and all other statements
This form is to accompany Form	2 of the Building (Forms) Regulations 2004 for the a	pplication of a Building Consent.
PRODUCER STATEMENT PS1	4	May 2007

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### MANUFACTURERS STATEMENT - DURABILTY

#### Cladding

To satisfy the requirements of Clause B2:"Durability" of the NZBC and to ensure the cladding material meets a 15-year durability life the following provisions must apply:

#### Cladding Range of Product and Use

Coating Type: Zinc/Aluminium & Painted (Coloured Steel).

Steel thickness range: 0.35mm - 0.55mm BMT

Steel grade range: G300 - G550

Application: Standard Totalspan Roof and Wall Cladding

Profile: Totalspan 7 Rib, Totalspan 6 Rib

#### Requirements, Limitations and Exclusions

- \* Fixing and installation of the cladding must be done exactly in accordance with Totalspan Buildings instructions and specifications.
- Normal and regular maintenance must be carried out on the exterior surface of the cladding and the following guide must be followed to ensure the durability requirements are met.

#### Regular Maintenance

- Normal Maintenance to be completed in accordance with Durability Acceptable Solution B2/AS 2.1.3
- Corrosion Zones 1, 2, 3, 4. (\*Reference NZS 3604:1999 Corrosion Zone Figure 4.1)

Rain-washing only required on exposed (open to airborne salts and rain wetting) material. Sheltered (open to airborne salts, but not rain washed) or protected areas such as under spouting, top-cladding sheets and tops of doors require washing every 3 months.

Sea Spray Zones (Within 500m from the sea or 100m from sheltered harbours or inlets – \*Reference NZS 3604:1999 4.2.3) and areas of Geothermal Activity (\*Reference NZS 3604:1999 4.2.4).

Rain-washing only required on **exposed** (open to airborne salts and rain wetting) areas. **Sheltered** (open to airborne salts, but not rain washed) and protected areas such as under spouting, top cladding and tops of doors require washing down every month and whenever corrosive salts are present.

#### Extended Maintenance, Painting or Repainting

#### **Extended Durability**

Once the metallic coating or the paint system has weathered away, signs of red rust for bare material or signs of the metallic coating for painted material, painting of the entire surface is required to extend the life of the cladding product. Paint manufacturers recommendations are to be followed for surface preparation and paint type to be used.

#### Evident Corrosion

Areas that show signs of white or red rust/corrosion (typically in unwashed areas) require cleaning back with a stiff brush and cleaner to remove all dust, surface contaminants and corrosion products and present a sound substrate for painting. Priming of the surface and application of two coats of paint as per the Paint Manufacturer's recommendations is then required.

Particular attention needs to be paid to laps (side, end, flashing etc) where earlier corrosion may start due to moisture and dirt entrapment.

If evident corrosion is not treated quickly rapid deterioration of the sheet may occur which could result in perforation. At this stage replacement of the affected sheet is the best option.

#### Steel Framing

To satisfy the requirements of Clause B2:"Durability" of the NZBC and to ensure the structural framing material meets a 50-year durability life the following provisions must apply:

#### Steel Framing Range of Product and Use

Coating Type: Galvanised

Steel thickness range: 0.75mm - 2.4mm BMT

Steel grade range: G450 – G550

Application: Standard Totalspan Purlins, Girts, Portal Frames, Door Jambs, Wall Uprights, Bridging

Profile: C Sections - 80x40, 150x64, 220x64, 250x85

Z Sections - 100x53, 150x65

Tophat Sections - 100x163, 120x170, 150x183

#### Regular Maintenance

- Normal Maintenance to be completed in accordance with Durability Acceptable Solution B2/AS 2.1.3
- Corrosion Zones 1, 2, 3, 4. (\*Reference NZS 3604:1999 Corrosion Zone Figure 4.1)

Rain-washing only required on exposed (open to airborne salts and rain wetting) material. Sheltered (open to airborne salts, but not rain washed) or protected areas such as under spouting, top-cladding sheets and tops of doors require washing every 3 months.

- Sea Spray Zones (Within 500m from the sea or 100m from sheltered harbours or inlets \*Reference
- NZS 3604:1999 4.2.3) and areas of Geothermal Activity (\*Reference NZS 3604:1999 4.2.4).

Rain-washing only required on **exposed** (open to airborne salts and rain wetting) areas. **Sheltered** (open to airborne salts, but not rain washed) and protected areas such as under spouting, top cladding and tops of doors require washing down every month and whenever corrosive salts are present.

#### References

- 1. NZBC Compliance Document Clause B2 Durability
- 2. NZS 3604, Clause 4, Durability\*
- \* Totalspan Buildings acknowledges and understands that NZS 3604 is a Timber Framed Building standard. Totalspan Buildings has used NZS 3604 as a reference only to identify Corrosion Zones, Sea Spray Zones and areas of Geothermal activity.

#### **Building Tables**

Zoned: T.C.2 Rural High (A6-A7) Wind Region: Wind Zone: Bay Size: 3.0m Live Roof Load: 0.25 kpa Roof Snow Load: 0.86kpa Inner Purlins: C80x40(2) Ridge & Gutter Purlins: C80x40

**Row Numbers:** 

Region A6-A7 (High)

Girts: B80x40 End Wall Post - On Edge: B80x40 Roof Frames - Portals: C15010

**GENERAL** 

1 - All work shall conform to the New Zealand Building Code,

2 - Check diagonals to ensure building is square.

#### LOADINGS

1 - Buildings are designed to AS/NZS 1170 for NZS 3604 HIGH and VERY HIGH. Design Wind Speeds to limit state levels of 45 and 50m/s, T.C.2 roof live load of 0.25kPa, and basic Roof Snow loads of 0.86kPa. Heavier snow loads will be a specific design as will buildings used for habitable purposes.

End Wall:

2 - The roofing is not designed for point loads of 1 Kn.

#### **FOUNDATIONS**

1 - Support ground to have a safe bearing capacity of at least 75 kPa. In weaker ground building loads to be taken to subsoil which has a bearing capacity of at least 75 kPa.

#### CONCRETE

- 1 Remove vegetation, 60mm of top soil and loose material from the site of the building, backfill with compacted hardfill, if required, and lay a blinding of sand to the underside of the concrete slab. Ensure the surface of the slab will be at least 100mm above the highest level of cleared ground around the slab.
- 2 Concrete shall have a maximum aggregate size of 20mm, slump of 80mm maximum and a 20 MPa compression strength at 28 days.
- 3 The concrete floor slab shall be 100mm thick with a 200 x 200 mm edge thickening and a D16 rod continuous around the perimeter of the slab with 600 laps and 75 bottom cover.
- 4 Concrete slab to be reinforced with 668 mesh placed 30mm maximum below the slab surface with 225mm laps.
- 5 Provide a 0.25mm black polythene dampproof and slip layer under the slab taped with 100mm laps (optional but recommended).
- 6 Fix roof frames to concrete with M10 zinc screwbolts screwed into holes drilled in the slab.

#### STEELWORK

- 1 All structural framing members shall be G550-1.0mm BMT, G500-1.2mm BMT, G450-1.5mm, 1.9mm BMT grade steel galvanised to Z200 (G550 for 80 x 40 boxed and single channels). Cleats to be G450, Z200.
- 2 Purlins and girts shall be 80 x 40 x 0.75 B.M.T. lipped, crimped channel located at centres shown on the drawings.
- 3 Boxed members to be flange fixed with #10 Tek screws at 600 centres.
- 4 Screws to be #10 x 16mm long Tek screws Class 3 zinc plated, fixed at a minimum edge distance of 6mm and to a12mm minimum pitch.
- 5 Girts to be connected with 2 #10 Tek screws each side of girt.
- 6 Steelwork shall conform to:

NZ/AS 4600 Cold Formed Steel Structures Code NZ/AS 1397:1993 AS 1562:1962 Design and Installation of Metal Roofing AS 1111/1112 Hex Commercial Bolts and Screws AS 3566 Self Drilling Screws for Building

#### CLADDING

- 1 Roof and wall sheeting shall be 0.35 B.M.T., G550 grade steel zincalumed to AZ150 and rolled to profile as detailed.
- 2 Roof sheets shall be fixed to ridge and eaves purlins with a Tek screw at every rib, as shown, tekscrew to alternative ribs at intermediate fixings, all complete with neoprene washers tigtened firmly but not to form depressions in the roof cladding. Ensure all roof fixings are waterproof.
- 3 Wall sheeting shall be fixed to the eave purlins and to the rafters of the end wall frames with a Tek screw at third points of each pan and to third points of alternate pans at other girts and fixings.
- 4 Ridges, gables and all penetrations to be flashed with similar sheet steel.
- 5 Guttering to be fixed with Tek screws and joint sealed with silicone. Fit downpipes to guttering to discharge to an approved stormwater drainage system, provided by the Owner.
- 6 Frame for personnel door and windows with 80 x 40 x 0.75 unlipped channels. Flange connect members with 2 screws to each flange Fix jambs to floor with 40x40x1.2 angle cleat having 1/M10 screwbolt to concrete and 2 Tek screws to jamb.

FREDERICK R SMITH chartered consulting engineer

363 Wairakel Rd. Burnside Christchurch 8053 Phone 03 348 1521

I certify that buildings erected in accordance with these

BE (civil) MIPENZ MACENZ MIEAust CPEng RPEQ (6225)

TOTALSPAN.

A Division of VERSATILE BUILDINGS LTD 112 WATERLOO ROAD, HORNBY P.O. BOX 11-013, CHRISTCHURCH

PH: (09) 261 2306 FAX: (09) 262 1535

Drawing Title:

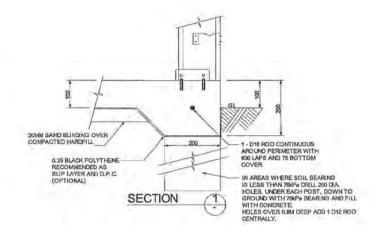
**PORTAL BUILDING SPECIFICATIONS** 

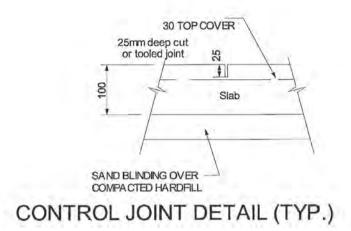
For: Tony Ward Kotare Street Waikanae Kapiti

Page 4 of 14

## SCREWBOLT NOTE

- 1 EMBEDMENT DEPTH OF SCREW BOLTS= 70mm
- 2 SCREWBOLTS SHALL BE M10/75 ZINC PLATED IN 10DIA. HOLES 80 DEEP.





#### CONCRETE SLAB NOTE:

Concrete slabs to have construction joints keyed during placing or cut in panels not exceeding the following dimensions:

Unreinforced

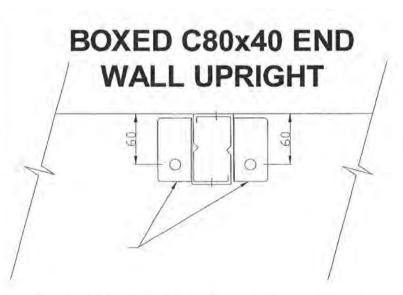
3m x 3.9m

Fibre reinforced

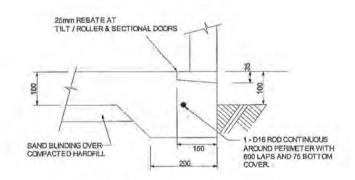
4m x 6m (Fibre dosage 0.7kg/cu.m)

Mesh reinforcement 6m x 12m (668 mesh, 225 laps, 30mm top cover)

For slabs 15m to 30m long, form keyed joints at mid length of floors. For slabs over 30m long keyed joints to be at a maximum of 15m centres.



40X40X1 ANGLE 75 LONG WITH 4#10 TEKS OR 2/M10 BOLTS TO POST & 1/M10 SCREWBOLTS TO CONCRETE,



P.A. DOOR & GARAGE ENTRY SLAB EDGE DETAIL (TYP.)

FREDERICK R SMITH chartered consulting engineer

363 Wairakel Rd, Burnside Christchurch 8053 Phone 03 348 1521 I certify that buildings erected in accordance with these drawings will comply with the New Zealand Building Code.

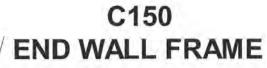
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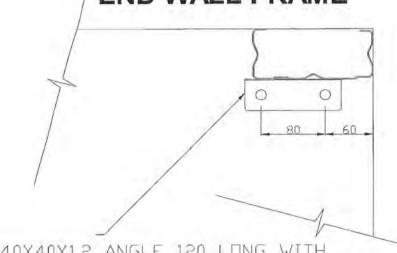
A Division of VERSATILE BUILDINGS LTD 112 WATERLOO ROAD, HORNBY P.O. BOX 11-013, CHRISTCHURCH PH: (09) 261 2306 FAX: (09) 262 1535 Drawing Title:

PORTAL BUILDING
FOUNDATION DETAILS

For: Tony Ward Kotare Street Waikanae Kapiti

Page 5 of 14

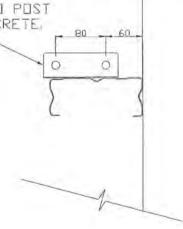




40X40X1.2 ANGLE 120 LONG WITH 8#10 TEKS OR 2/M10 BOLTS TO POST & 2/M10 SCREWBOLTS TO CONCRETE.

## SINGLE C150 INTERIOR FRAME

40X40X1,2 ANGLE 120 LONG WITH 8#10 TEKS OR 2/M10 BOLTS TO POST & 2/M10 SCREWBOLTS TO CONCRETE,



FREDERICK R SMITH chartered consulting engineer

363 Wairakel Rd, Burnside Christchurch 8053 Phone 03 348 1521 I certify that buildings erected in accordance with these drawings will comply with the New Zealand Building Code.

F R Smith BE (civil) MIPENZ MACENZ MIEAust CPEng RPEQ (6225) TOTALSPAN.

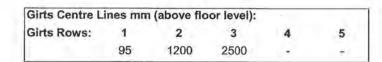
A Division of VERSATILE BUILDINGS LTD 112 WATERLOO ROAD, HORNBY P.O. BOX 11-013, CHRISTCHURCH PH; (09) 261 2306 FAX: (09) 262 1535 Drawing Title:

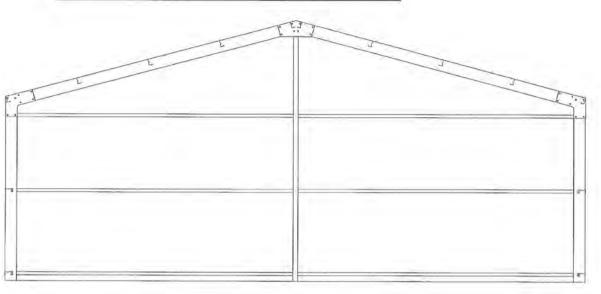
PORTAL BUILDING
FOUNDATION DETAILS

For: Tony Ward Kotare Street Walkanae Kapiti

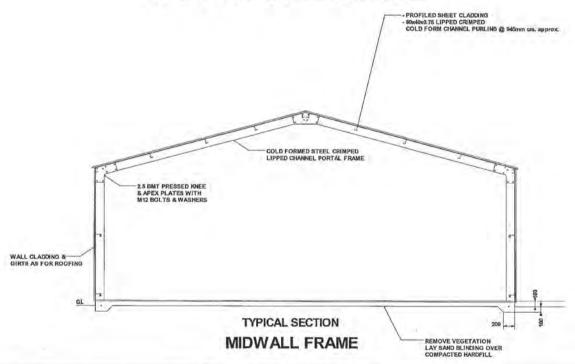
Page 6 of 14

Apex Height (mm): 3232 Wall Height (mm): 2700





## **END WALL FRAME**



FREDERICK R SMITH chartered consulting engineer

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F R Smith
BE (dvli) MIPENZ MACENZ MIEAust
CPEng RPEQ (6225)

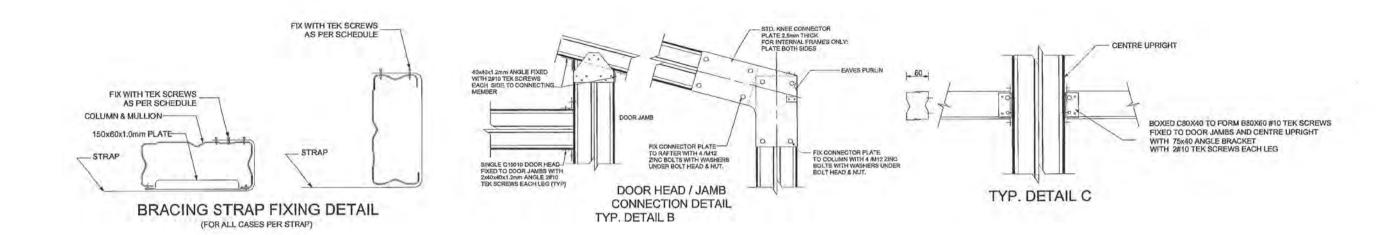
TOTALSPAN.

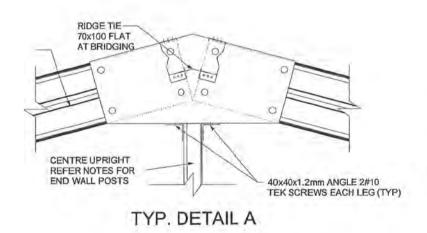
A Division of VERSATILE BUILDINGS LTD 112 WATERLOO ROAD, HORNBY P.O. BOX 11-013, CHRISTCHURCH PH: (09) 261 2306 FAX: (09) 262 1535 Drawing Title:

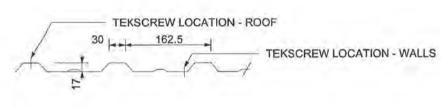
PORTAL BUILDING SECTION - END WALL

For: Tony Ward Kotare Street Waikanae Kapiti

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CENTRE UPRIGHT (FRONT FIT ONLY) END FRAME

SHEETING PROFILE 0.35 T.C.T.

FREDERICK R SMITH chartered consulting engineer

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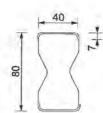
A Division of VERSATILE BUILDINGS LTD 112 WATERLOO ROAD, HORNBY P.O. BOX 11-013, CHRISTCHURCH PH: (09) 261 2306 FAX: (09) 262 1535 Drawing Title:

PORTAL BUILDING
BUILDING DETAILS

For: Tony Ward Kotare Street Walkanae Kapiti

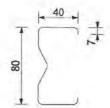
TYP. DETAIL D

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# TYPICAL BOXED CRIMPED LIPPED CHANNEL

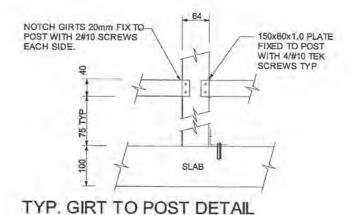
SECTION (EX 0.75 BMT)
ALL PURLINS AND GIRTS SINGLE UNLESS
NOTED TO BE BOXED.

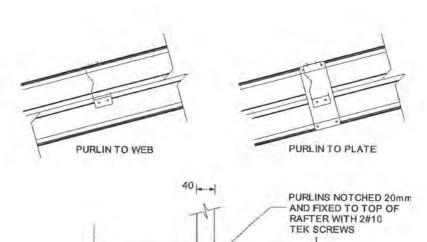


# TYPICAL CRIMPED LIPPED CHANNEL

SECTION (EX 0.75 BMT)

ALL PURLINS AND GIRTS SINGLE UNLESS NOTED TO BE BOXED.





### TYPICAL PURLIN TO RAFTER DETAILS

RAFTER

150x60x1.0mm PLATE FIXED WITH 4#10 TEK SCREWS TO OPEN FACE OF RAFTER

#### FREDERICK R SMITH

chartered consulting engineer

363 Wairakei Rd, Burnside Christchurch, 8053

Phone 03 348 1521

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F R Smith BE (civil) MIPENZ MACENZ MIEAust CPEng RPEQ (6225)

#### TOTALSPAN.

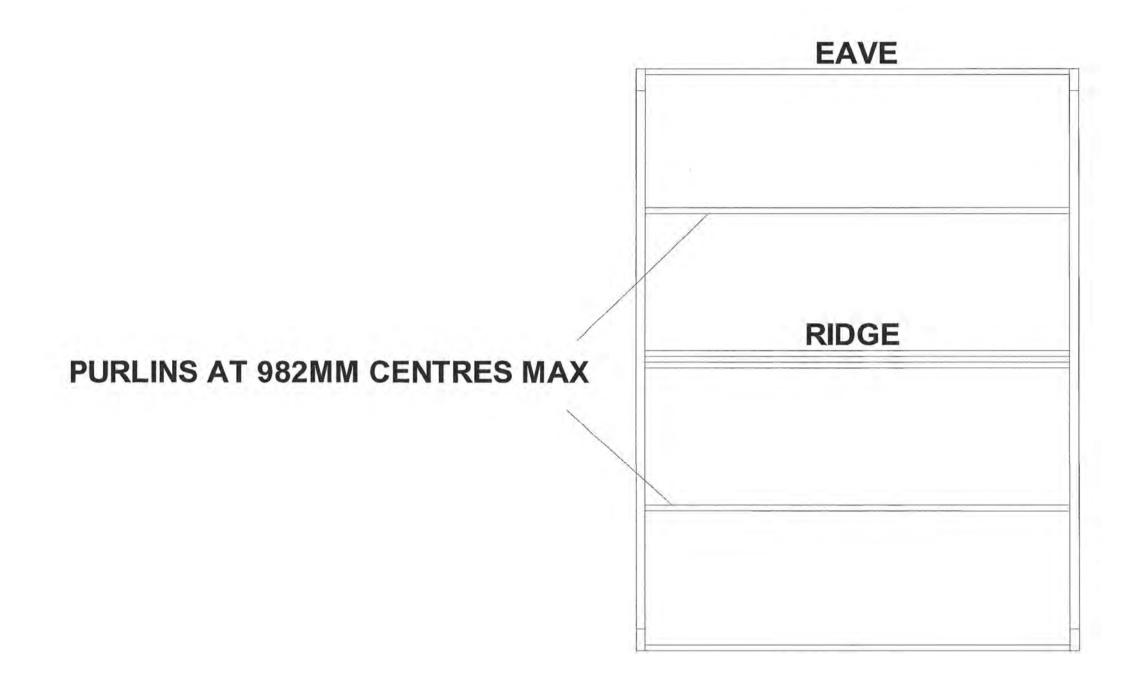
A Division of VERSATILE BUILDINGS LTD

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PORTAL BUILDING
BUILDING DETAILS

For: Tony Ward Kotare Street Waikanae Kapiti

Page 9 of 14



FREDERICK R SMITH chartered consulting engineer

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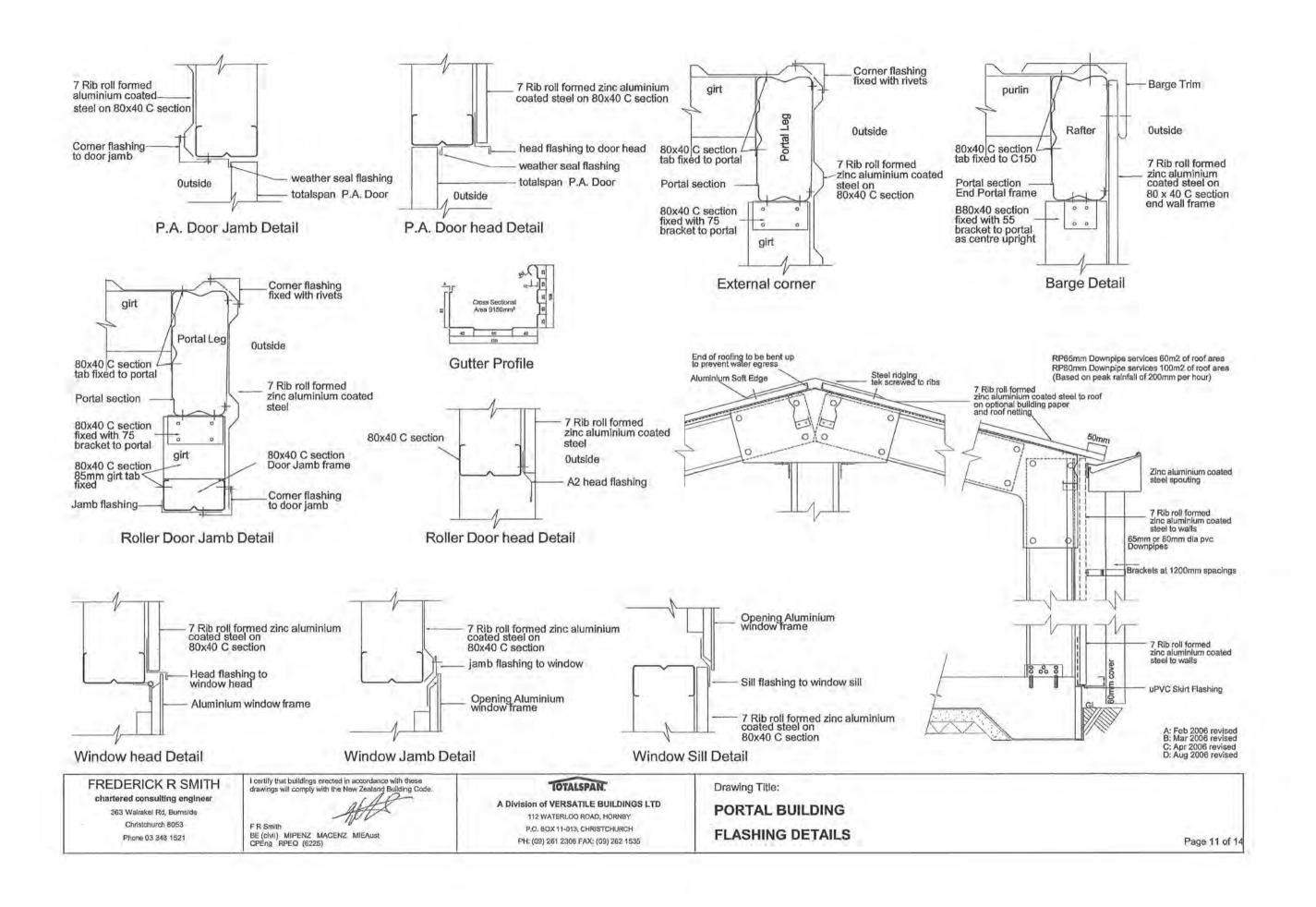
PORTAL FRAME ROOF PLANS For: Tony Ward

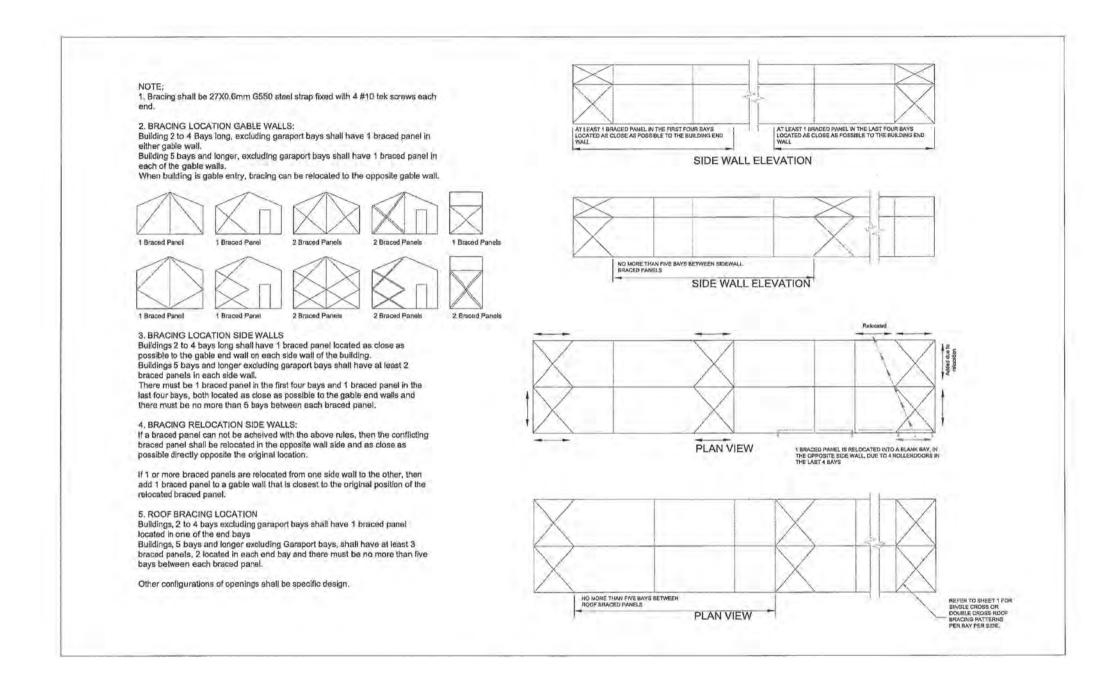
Kotare Street

Waikanae

Kapiti

Page 10 of 14





## FREDERICK R SMITH chartered consulting engineer

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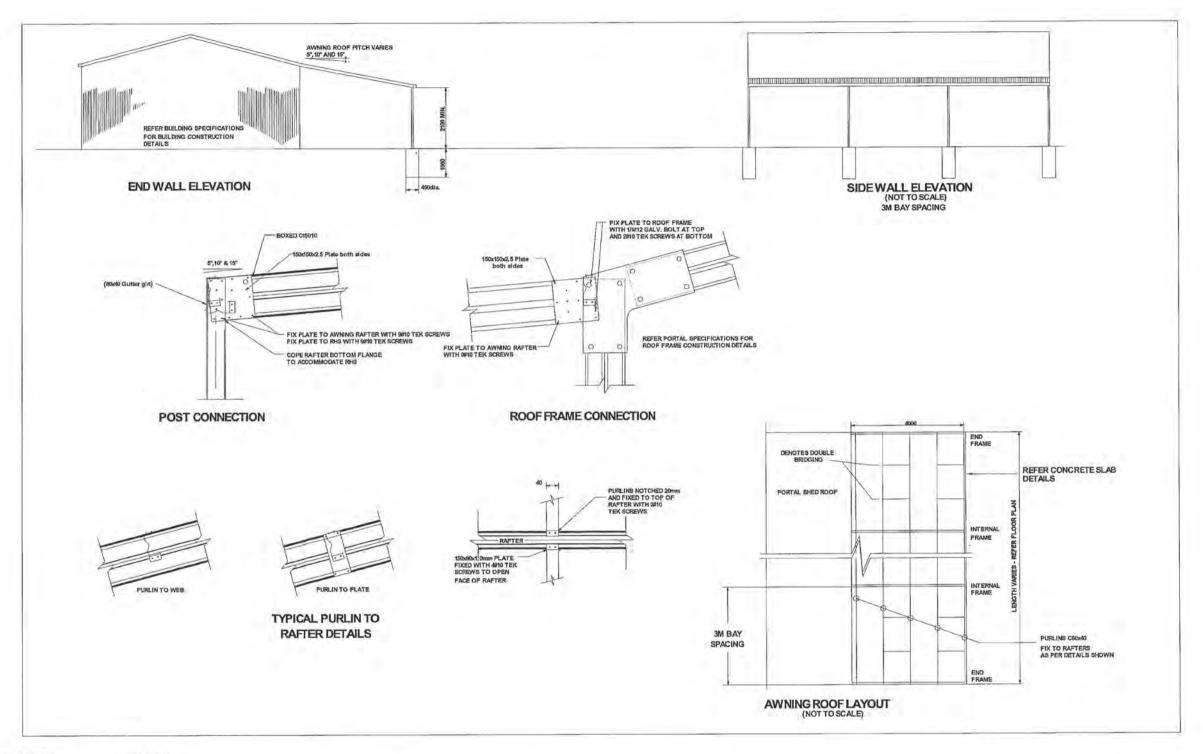
PH: (09) 261 2306 FAX: (09) 262 1535

Drawing Title:

PORTAL BUILDING
BRACING - WALLS AND ROOF

For: Tony Ward Kotare Street Walkanae Kapiti

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Awning Rafters:

B15010

Awning Purlins (Rows:5):

C80x40(2)

### FREDERICK R SMITH

chartered consulting engineer 363 Wairakei Rd, Burnside Christchurch 8053 Phone 03 348 1521 I certify that buildings erected in accordance with these drawings will comply with the New Zealand Building Code.

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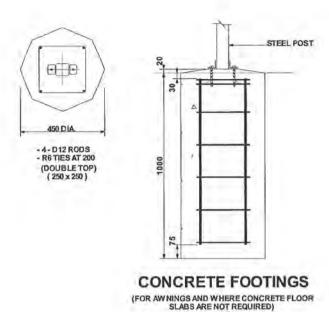
#### TOTALSPAN.

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AWNING 4M AWNING For: Tony Ward Kotare Street

Waikanae Kapiti

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60x60x5.0 angle 50 long, 65x65x1.6 Hot dipped galvanised SHS Post 2xM10x75 galv.screwbolts to footing/slab M12x85 bolt, nut and washer (galv.) 60x60x5.0 angle 50 long, Hot dipped galvanised 1xM10x75 galv. screwbolts Awning slab to footing/slab edge M12x85 bolt,nut 65x65x1.6 and washer (galv.) SHS Post 50 4000, 5000, 6000

### POST HOLD DOWN DETAILS



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PORTAL BUILDING
AWNING FOUNDATION DETAILS

668 MESH

8

0.25 BLACK POLYTHENE RECOMMENDED AS

SLIP LAYER AND D.P.C. (OPTIONAL)

CONCRETE SLAB DETAIL

SAND BLINDING OVER COMPACTED HARDFILL

30 TOP COVER

For: Tony Ward Kotare Street Waikanae Kapiti

1 - D16 ROD CONTINUOUS AROUND PERIMETER WITH 600 LAPS AND 75 BOTTOM

IN AREAS WHERE SOIL BEARING IS LESS THAN 75kPa DRILL 200 DIA. HOLES, UNDER EACH POST, DOWN TO GROUND WITH 75kPa

BEARING AND FILL WITH CONCRETE. WHERE HOLES ARE

OVER 800 DEEP REINFORCE WITH 1-D10 ROD

Page 14 of 14

10/02/2010

Main Building Length:

5914mm

Main Building Width: Main Building Area:

3964mm 23.443m<sup>2</sup>

Awning Length:

6000mm

Awning Width:

4000mm

Awning Area:

24.000m<sup>2</sup>

Total Building Length:

5914mm

Total Building Width: Total Building Area:

7964mm 47.443m<sup>2</sup>

Stud Height:

2700

Wind Rating:

High (A6-A7)

Bay Size:

3000

Cladding:

7 Rib Profile Colour: TBC

Foundation:

Concrete Slab

#### Notes:

The design has been checked in accordance with B1/VM1, B1/VM4 and B2 of the approved documents issued by the Department of Building and Housing (DHB) and the work is described on drawings prepared by Frederick R Smith, Chartered Professional Engineer.

Durability requirements for wall cladding detailed in Manufacturers Statement-Durability.

This specification is to be read in conjunction with the attached Totalspan Specification drawings and Producer Statement by Frederick R Smith, Chartered Professional Engineer.

Construction to comply with the New Zealand Building Code.

TOTALSPAN BUILDINGS A Division of Spanbild New Zealand Ltd

112 Waterloo Road, Hornby, P.O.Box 11-013, Christchurch PH: (09) 261 2306 FAX: (09) 262 1535 PREPARED BY: Kevin Calcott, Wellington-Horowhenua, 04 297 0033

SITE ADDRESS: Kotare Street

Waikanae Kapiti

REFERENCE: KevinC-1903

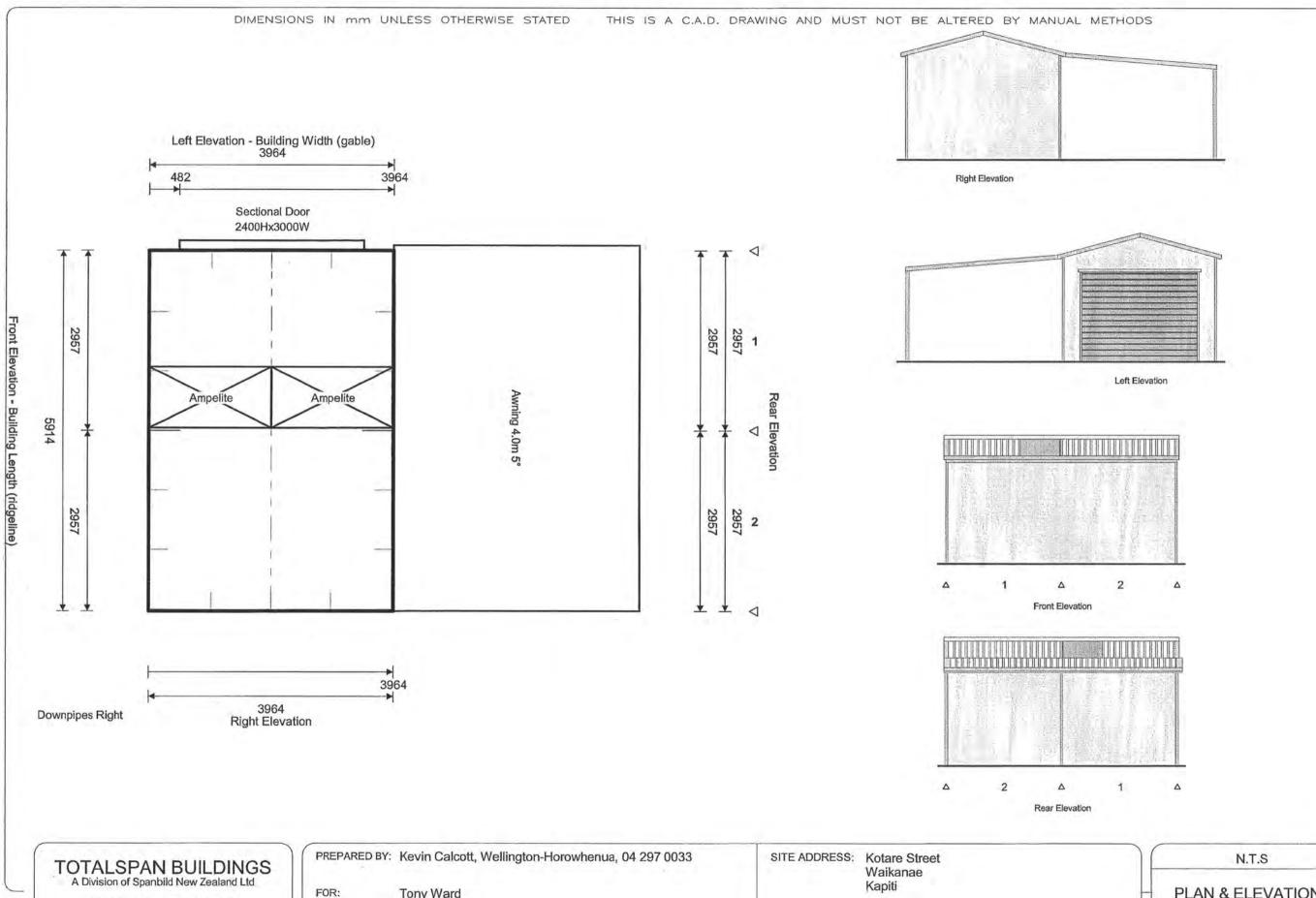
Tony Ward

FOR:

**SPECIFICATIONS** 

Sheet 1 of 7

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Tony Ward

REFERENCE: KevinC-1903

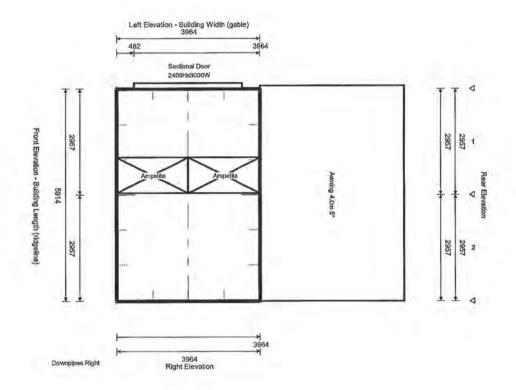
PLAN & ELEVATIONS

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Sheet 2 of 7

DIMENSIONS IN mm UNLESS OTHERWISE STATED

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PREPARED BY: Kevin Calcott, Wellington-Horowhenua, 04 297 0033

FOR:

Tony Ward

REFERENCE: KevinC-1903

SITE ADDRESS: Kotare Street

Waikanae Kapiti

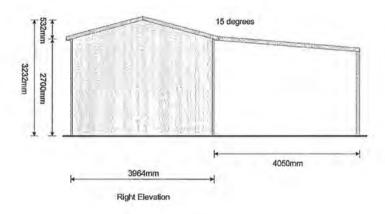
Scale 1:100

PLAN

Sheet 3 of 7

DIMENSIONS IN mm UNLESS OTHERWISE STATED

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112 Waterloo Road, Hornby, P.O.Box 11-013, Christchurch PH: (09) 261 2306 FAX: (09) 262 1535 PREPARED BY: Kevin Calcott, Wellington-Horowhenua, 04 297 0033

FOR:

Tony Ward

REFERENCE: KevinC-1903

SITE ADDRESS: Kotare Street

Waikanae Kapiti Scale 1:100

RIGHT ELEVATION

Sheet 4 of 7



## GARAGES · SHEDS · CARPORTS

Engineered By:

### **F R Smith Consultant**

consulting engineer, civil - structural

## **Producer Statement Structural Details**

#### CLIENT:

Tony Ward

Kotare Street

Waikanae

Kapiti

#### BUILDING:

Size & Stud Height: 5.914m long x 3.964m wide, with 2.700m stud height, Bay Size 3.000m

Awning(s): 1 x Awning 6.000m long x 4.000m wide

Wind Zone: HIGH (A6-A7)

Area: 47.443m2

**NOTES** 

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#### **INDEX**

Cover Page (this page)

Producer Statement: F.R. Smith Consultants - Design Producer Statement: Versatile Buildings/BHP - Durability

**Specifications - Building Components** 

Site Plan

**Building Elevations Foundation Details** Section - End Wall **Building Details** 

**Roof Plans** 

Flashing Details **Bracing Reference** 

Awning

**Awning Foundation** 



I certify that buildings erected in accordance with these drawings will conform to the requirements of the New Zealand and Australian Building Codes.

F R Smith BE (civil) MIPENZ, MACENZ, MEIAust, no. 2410880, Cp.Eng. RPEQ (6225)

### MANUFACTURERS STATEMENT - DURABILTY

#### Cladding

To satisfy the requirements of Clause B2:"Durability" of the NZBC and to ensure the cladding material meets a 15-year durability life the following provisions must apply:

#### Cladding Range of Product and Use

Coating Type: Zinc/Aluminium & Painted (Coloured Steel)

Steel thickness range: 0.35mm - 0.55mm BMT

· Steel grade range: G300 - G550

· Application: Standard Totalspan Roof and Wall Cladding

Profile: Totalspan 7 Rib, Totalspan 6 Rib

#### Requirements, Limitations and Exclusions

- Fixing and installation of the cladding must be done exactly in accordance with Totalspan Buildings instructions and specifications.
- Normal and regular maintenance must be carried out on the exterior surface of the cladding and the following guide must be followed to ensure the durability requirements are met.

#### Regular Maintenance

- Normal Maintenance to be completed in accordance with Durability Acceptable Solution B2/AS 2.1.3
- \* Corrosion Zones 1, 2, 3, 4. (\*Reference NZS 3604:1999 Corrosion Zone Figure 4.1)

Rain-washing only required on **exposed** (open to airborne salts and rain wetting) material. **Sheltered** (open to airborne salts, but not rain washed) or protected areas such as under spouting, top-cladding sheets and tops of doors require washing every 3 months.

Sea Spray Zones (Within 500m from the sea or 100m from sheltered harbours or inlets – \*Reference NZS 3604:1999 4.2.3) and areas of Geothermal Activity (\*Reference NZS 3604:1999 4.2.4).

Rain-washing only required on **exposed** (open to airborne salts and rain wetting) areas. **Sheltered** (open to airborne salts, but not rain washed) and protected areas such as under spouting, top cladding and tops of doors require washing down every month and whenever corrosive salts are present.

#### **Extended Maintenance, Painting or Repainting**

#### · Extended Durability

Once the metallic coating or the paint system has weathered away, signs of red rust for bare material or signs of the metallic coating for painted material, painting of the entire surface is required to extend the life of the cladding product. Paint manufacturers recommendations are to be followed for surface preparation and paint type to be used.

#### Evident Corrosion

Areas that show signs of white or red rust/corrosion (typically in unwashed areas) require cleaning back with a stiff brush and cleaner to remove all dust, surface contaminants and corrosion products and present a sound substrate for painting. Priming of the surface and application of two coats of paint as per the Paint Manufacturer's recommendations is then required.

Particular attention needs to be paid to laps (side, end, flashing etc) where earlier corrosion may start due to moisture and dirt entrapment.

If evident corrosion is not treated quickly rapid deterioration of the sheet may occur which could result in perforation. At this stage replacement of the affected sheet is the best option.

#### Steel Framing

To satisfy the requirements of Clause B2:"Durability" of the NZBC and to ensure the structural framing material meets a 50-year durability life the following provisions must apply:

#### Steel Framing Range of Product and Use

\* Coating Type: Galvanised

\* Steel thickness range: 0.75mm - 2.4mm BMT

\* Steel grade range: G450 - G550

\* Application: Standard Totalspan Purlins, Girts, Portal Frames, Door Jambs, Wall Uprights, Bridging

\* Profile: C Sections – 80x40, 150x64, 220x64, 250x85

Z Sections - 100x53, 150x65

Tophat Sections - 100x163, 120x170, 150x183

#### Regular Maintenance

- Normal Maintenance to be completed in accordance with Durability Acceptable Solution B2/AS 2.1.3
- \* Corrosion Zones 1, 2, 3, 4. (\*Reference NZS 3604:1999 Corrosion Zone Figure 4.1)

Rain-washing only required on **exposed** (open to airborne salts and rain wetting) material. **Sheltered** (open to airborne salts, but not rain washed) or protected areas such as under spouting, top-cladding sheets and tops of doors require washing every 3 months.

- \* Sea Spray Zones (Within 500m from the sea or 100m from sheltered harbours or inlets \*Reference
- NZS 3604:1999 4.2.3) and areas of Geothermal Activity (\*Reference NZS 3604:1999 4.2.4).

Rain-washing only required on **exposed** (open to airborne salts and rain wetting) areas. **Sheltered** (open to airborne salts, but not rain washed) and protected areas such as under spouting, top cladding and tops of doors require washing down every month and whenever corrosive salts are present.

#### References

- 1. NZBC Compliance Document Clause B2 Durability
- 2. NZS 3604, Clause 4, Durability\*
- \* Totalspan Buildings acknowledges and understands that NZS 3604 is a Timber Framed Building standard. Totalspan Buildings has used NZS 3604 as a reference only to identify Corrosion Zones, Sea Spray Zones and areas of Geothermal activity.

#### **Building Tables**

Zoned: Wind Zone: T.C.2 Rural

High (A6-A7) 3.0m Wind Region:

Region A6-A7 (High)

Bay Size: Live Roof Load: Roof Snow Load:

Inner Purlins:

0.25 kpa 0.86kpa

0.86kpa C80x40(2)

Row Numbers:

Ridge & Gutter Purlins: Girts: C80x40 B80x40

End Wall:

End Wall Post - On Edge: B80x40 Roof Frames - Portals: C15010

**GENERAL** 

1 - All work shall conform to the New Zealand Building Code.

2 - Check diagonals to ensure building is square.

LOADINGS

1 - Buildings are designed to AS/NZS 1170 for NZS 3604 HIGH and VERY HIGH. Design Wind Speeds to limit state levels of 45 and 50m/s, T.C.2 roof live load of 0.25kPa, and basic Roof Snow loads of 0.86kPa. Heavier snow loads will be a specific design as will buildings used for habitable purposes.

2 - The roofing is not designed for point loads of 1 Kn.

**FOUNDATIONS** 

1 - Support ground to have a safe bearing capacity of at least 75 kPa. In weaker ground building loads to be taken to subsoil which has a bearing capacity of at least 75 kPa.

CONCRETE

1 - Remove vegetation, 60mm of top soil and loose material from the site of the building, backfill with compacted hardfill, if required, and lay a blinding of sand to the underside of the concrete slab. Ensure the surface of the slab will be at least 100mm above the highest level of cleared ground around the slab.

2 - Concrete shall have a maximum aggregate size of 20mm, slump of 80mm maximum and a 20 MPa compression strength at 28 days.

3 - The concrete floor slab shall be 100mm thick with a 200 x 200 mm edge thickening and a D16 rod continuous around the perimeter of the slab with 600 laps and 75 bottom cover.

4 - Concrete slab to be reinforced with 668 mesh placed 30mm maximum below the slab surface with 225mm laps.

5 - Provide a 0.25mm black polythene dampproof and slip layer under the slab taped with 100mm laps (optional but recommended).

6 - Fix roof frames to concrete with M10 zinc screwbolts screwed into holes drilled in the slab.

STEELWORK

1 - All structural framing members shall be G550-1.0mm BMT, G500-1.2mm BMT, G450-1.5mm, 1.9mm BMT grade steel galvanised to Z200 (G550 for 80 x 40 boxed and single channels). Cleats to be G450, Z200.

2 - Purlins and girts shall be 80 x 40 x 0.75 B.M.T. lipped, crimped channel located at centres shown on the drawings.

3 - Boxed members to be flange fixed with #10 Tek screws at 600 centres.

4 - Screws to be #10 x 16mm long Tek screws Class 3 zinc plated, fixed at a minimum edge distance of 6mm and to a12mm minimum pitch.

5 - Girts to be connected with 2 #10 Tek screws each side of girt.

6 - Steelwork shall conform to:

NZ/AS 4600 Cold Formed Steel Structures Code

NZ/AS 1397:1993

AS 1562:1962 Design and Installation of Metal Roofing

AS 1111/1112 Hex Commercial Bolts and Screws

AS 3566 Self Drilling Screws for Building

CLADDING

1 - Roof and wall sheeting shall be 0.35 B.M.T., G550 grade steel zincalumed to AZ150 and rolled to profile as detailed.

2 - Roof sheets shall be fixed to ridge and eaves purlins with a Tek screw at every rib, as shown, tekscrew to alternative ribs at intermediate fixings, all complete with neoprene washers tigtened firmly but not to form depressions in the roof cladding. Ensure all roof fixings are waterproof.

3 - Wall sheeting shall be fixed to the eave purlins and to the rafters of the end wall frames with a Tek screw at third points of each pan and to third points of alternate pans at other girts and fixings.

4 - Ridges, gables and all penetrations to be flashed with similar sheet steel.

5 - Guttering to be fixed with Tek screws and joint sealed with silicone. Fit downpipes to guttering to discharge to an approved stormwater drainage system, provided by the Owner.

6 - Frame for personnel door and windows with 80 x 40 x 0.75 unlipped channels. Flange connect members with 2 screws to each flange Fix jambs to floor with 40x40x1.2 angle cleat having 1/M10 screwbolt to concrete and 2 Tek screws to jamb.

FREDERICK R SMITH

chartered consulting engineer

363 Wairakei Rd, Burnside Christchurch 8053 Phone 03 348 1521 I certify that buildings erected in accordance with these drawings will comply with the New Zealand Building Code.

F R Smith BE (civil) MIPENZ MACENZ MIEAUSI CPEng RPEQ (6225) TOTALSPAN

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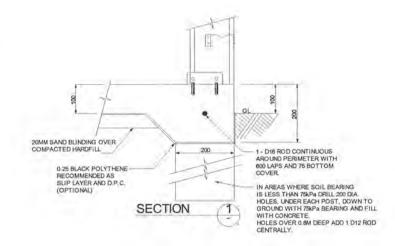
PORTAL BUILDING SPECIFICATIONS

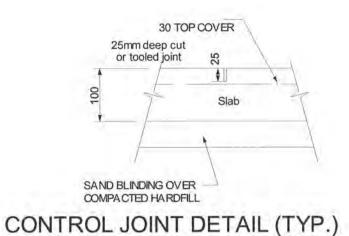
For: Tony Ward Kotare Street Waikanae Kapiti

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## SCREWBOLT NOTE

- 1 EMBEDMENT DEPTH OF SCREW BOLTS= 70mm
- 2 SCREWBOLTS SHALL BE M10/75 ZINC PLATED IN 10DIA. HOLES 80 DEEP.





#### CONCRETE SLAB NOTE:

Concrete slabs to have construction joints keyed during placing or cut in panels not exceeding the following dimensions:

Unreinforced

3m x 3.9m

Fibre reinforced

4m x6m (Fibre dosage 0.7kg/cu.m)

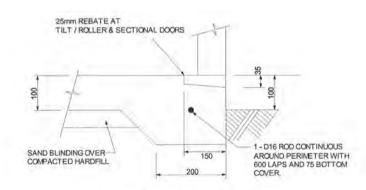
Mesh reinforcement

6m x 12m (668 mesh, 225 laps, 30mm top cover)

For slabs 15m to 30m long, form keyed joints at mid length of floors. For slabs over 30m long keyed joints to be at a maximum of 15m centres.

BOXED C80x40 END
WALL UPRIGHT

40X40X1 ANGLE 75 LONG WITH 4#10 TEKS OR 2/M10 BOLTS TO POST & 1/M10 SCREWBOLTS TO CONCRETE.



P.A. DOOR & GARAGE ENTRY SLAB EDGE DETAIL (TYP.)

FREDERICK R SMITH

chartered consulting engineer

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PH; (09) 261 2306 FAX: (09) 262 1535

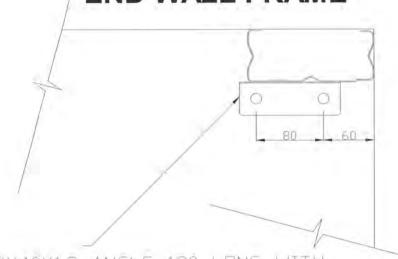
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PORTAL BUILDING
FOUNDATION DETAILS

For: Tony Ward Kotare Street Waikanae Kapiti

Page 5 of 14

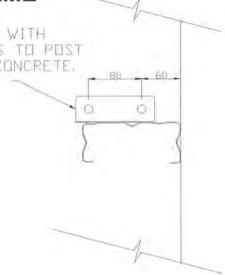
## C150 **END WALL FRAME**



40X40X1.2 ANGLE 120 LONG WITH 8#10 TEKS OR 2/M10 BOLTS TO POST & 2/M10 SCREWBOLTS TO CONCRETE.

## SINGLE C150 INTERIOR FRAME

40X40X1,2 ANGLE 120 LONG WITH 8#10 TEKS OR 2/MIO BOLTS TO POST & 2/M10 SCREWBOLTS TO CONCRETE.



FREDERICK R SMITH

chartered consulting engineer

363 Wairakei Rd, Burnside Christchurch 8053 Phone 03 348 1521

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BE (civil) MIPENZ MACENZ MIEAust CPEng RPEQ (6225)

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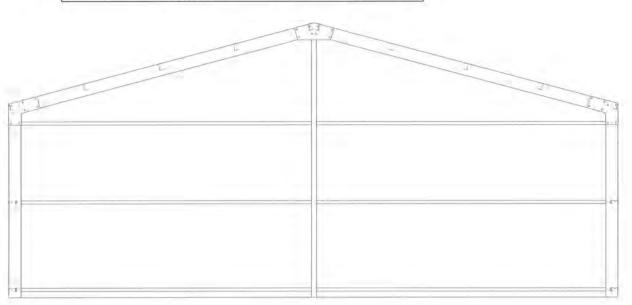
**PORTAL BUILDING FOUNDATION DETAILS**  For: Tony Ward Kotare Street Waikanae Kapiti

Page 6 of 14

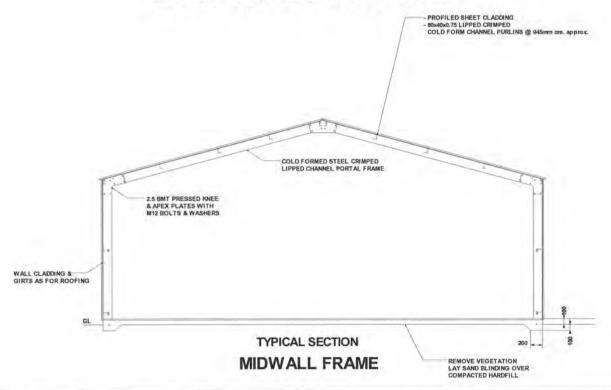
Apex Height (mm): 3232 Wall Height (mm): 2700 Girts Centre Lines mm (above floor level):

Girts Rows: 1 2 3 4 5

95 1200 2500 - -



## **END WALL FRAME**



FREDERICK R SMITH

chartered consulting engineer 363 Wairakei Rd, Burnside Christchurch 8053 Phone 03 348 1521 I certify that buildings erected in accordance with these drawings will comply with the New Zealand Building Code.

F R Smith
BE (civil) MIPENZ MACENZ MIEAust
CPEng RPEQ (6225)

TOTALSPAN.

A Division of VERSATILE BUILDINGS LTD 112 WATERLOO ROAD, HORNBY

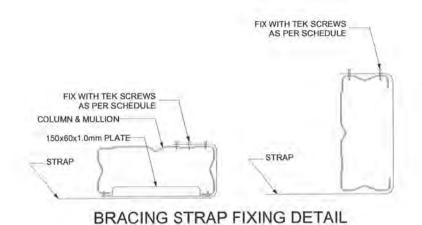
P.O. BOX 11-013. CHRISTCHURCH
PH: (09) 261 2306 FAX: (09) 262 1535

Drawing Title:

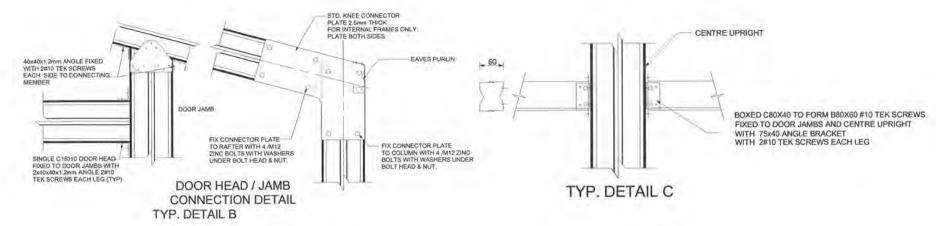
PORTAL BUILDING
SECTION - END WALL

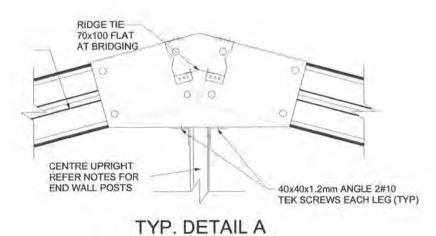
For: Tony Ward Kotare Street Waikanae Kapiti

Page 7 of 14



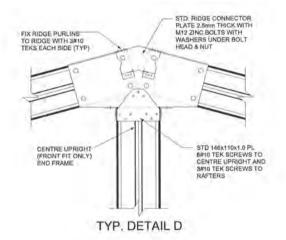
(FOR ALL CASES PER STRAP)





TEKSCREW LOCATION - ROOF **TEKSCREW LOCATION - WALLS** 

SHEETING PROFILE 0.35 T.C.T.



FREDERICK R SMITH

chartered consulting engineer

363 Wairakei Rd, Burnside Christchurch, 8053 Phone 03 348 1521

I certify that buildings erected in accordance with these drawings will comply with the New Zealand Building Code.

FR Smith

BE (civil) MIPENZ MACENZ MIEAust CPEng RPEQ (6225)

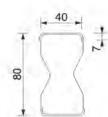
TOTALSPAN.

A Division of VERSATILE BUILDINGS LTD

112 WATERLOO ROAD, HORNBY P.O. BOX 11-013, CHRISTCHURCH PH: (09) 261 2306 FAX: (09) 262 1535 Drawing Title:

PORTAL BUILDING **BUILDING DETAILS**  For: Tony Ward Kotare Street Waikanae Kapiti

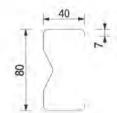
Page 8 of 14



# TYPICAL BOXED CRIMPED LIPPED CHANNEL

SECTION (EX 0.75 BMT)

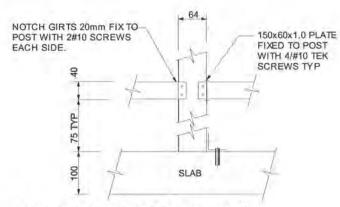
ALL PURLINS AND GIRTS SINGLE UNLESS NOTED TO BE BOXED.



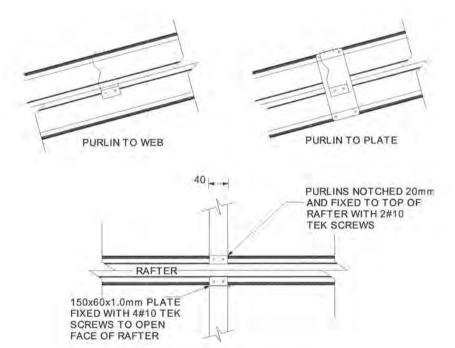
# TYPICAL CRIMPED LIPPED CHANNEL

SECTION (EX 0.75 BMT)

ALL PURLINS AND GIRTS SINGLE UNLESS NOTED TO BE BOXED.



TYP. GIRT TO POST DETAIL



# TYPICAL PURLIN TO RAFTER DETAILS

#### FREDERICK R SMITH

chartered consulting engineer

363 Wairakei Rd, Burnside Christchurch, 8053 Phone 03 348 1521 I certify that buildings erected in accordance with these drawings will comply with the New Zealand Building Code.

F R Smith BE (civil) MIPENZ MACENZ MIEAust CPEng RPEQ (6225) TOTALSPAN.

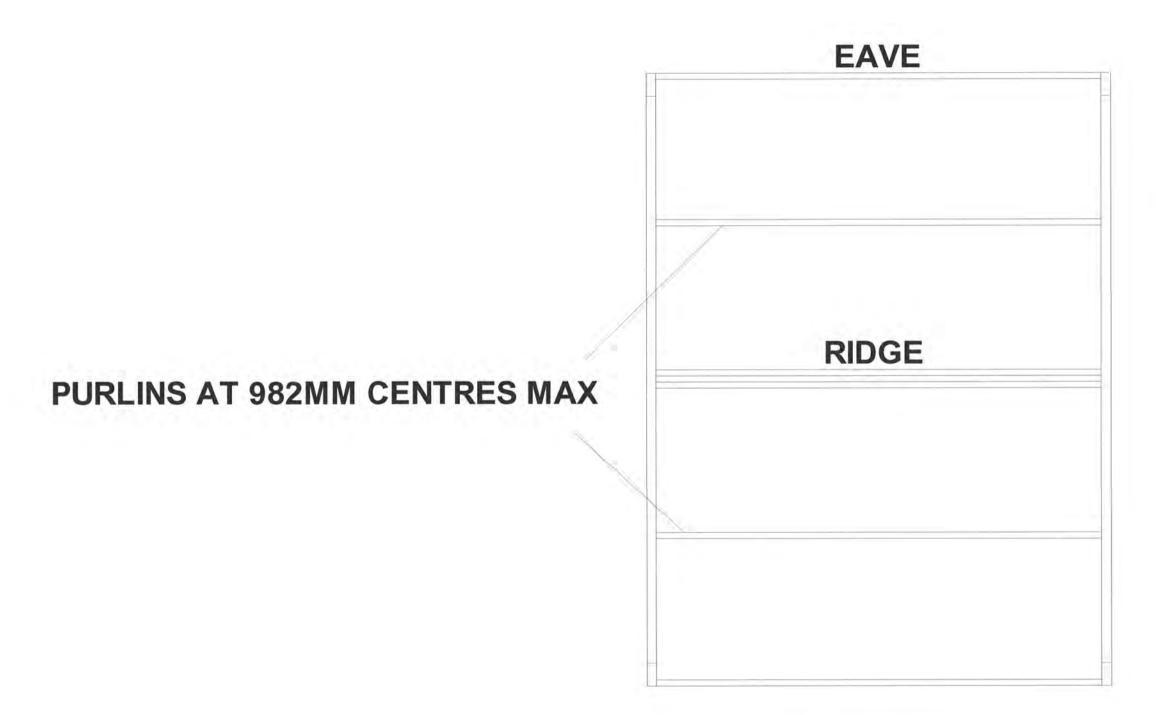
A Division of VERSATILE BUILDINGS LTD

112 WATERLOO ROAD, HORNBY P.O. BOX 11-013, CHRISTCHURCH PH: (09) 261 2306 FAX: (09) 262 1535 Drawing Title:

PORTAL BUILDING
BUILDING DETAILS

For: Tony Ward Kotare Street Waikanae Kapiti

Page 9 of 14



FREDERICK R SMITH chartered consulting engineer

363 Wairakei Rd, Burnside Christchurch 8053 Phone 03 348 1521 I certify that buildings erected in accordance with these drawings will comply with the New Zealand Building Code.

FR Smith
BE (civil) MIPENZ MACENZ MIEAust
CPEng RPEQ (6225)

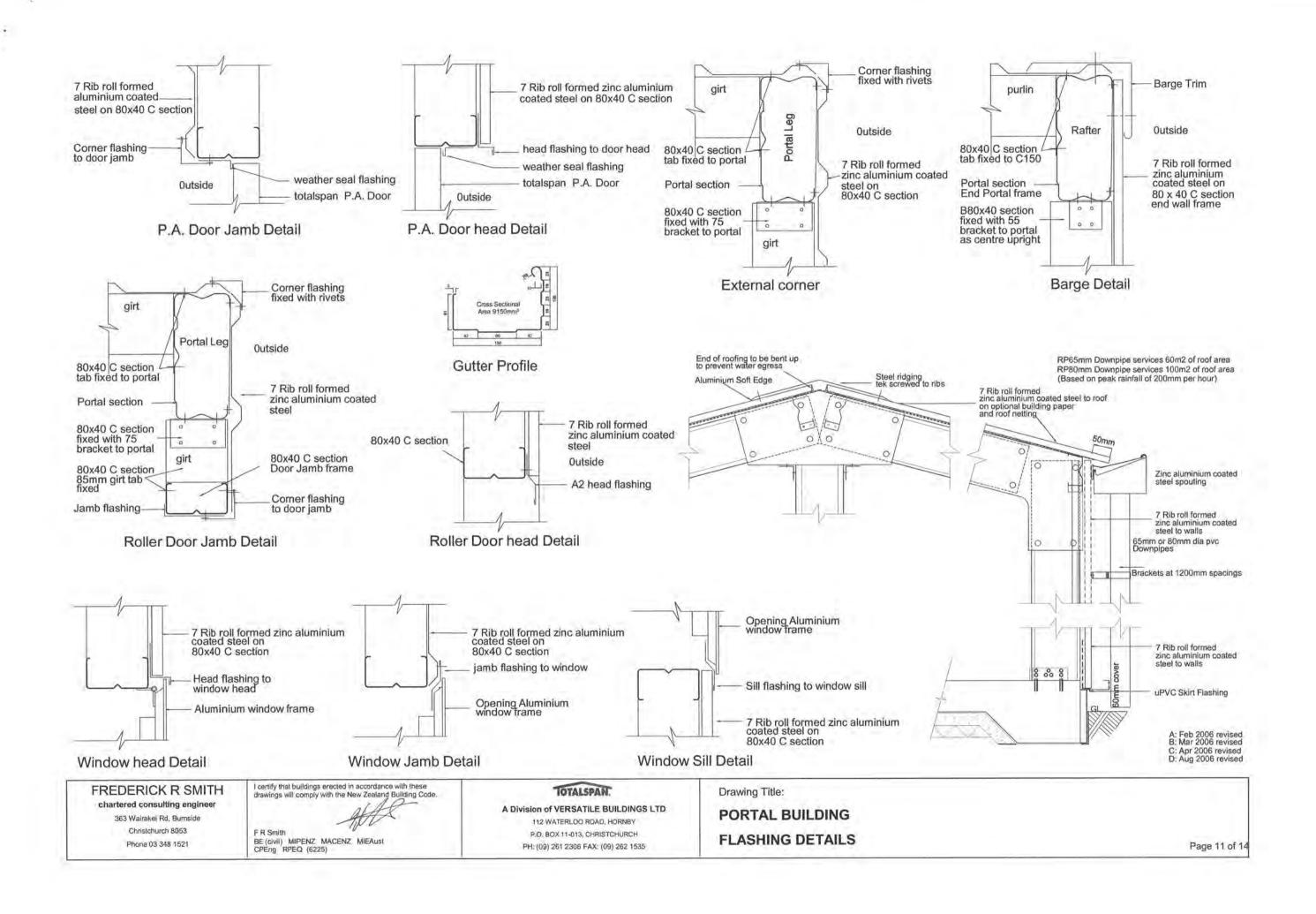
TOTALSPAN.

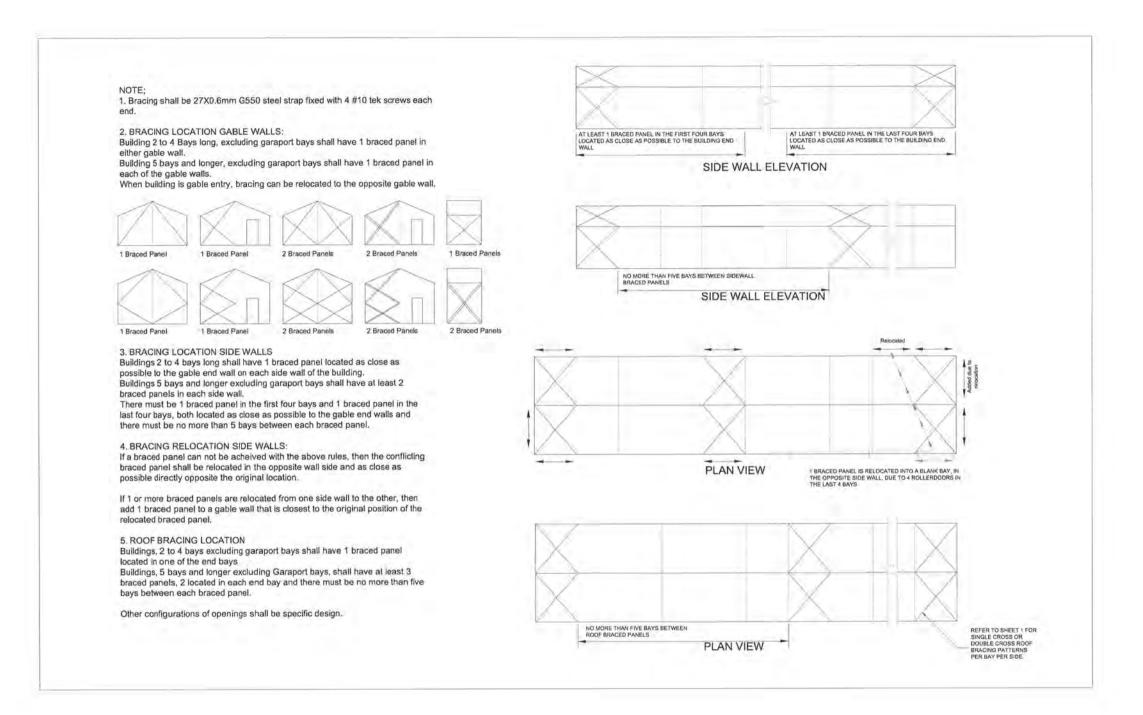
A Division of VERSATILE BUILDINGS LTD

112 WATERLOO ROAD, HORNBY P.O. BOX 11-013, CHRISTCHURCH PH: (09) 261 2306 FAX: (09) 262 1535 Drawing Title:

PORTAL FRAME ROOF PLANS For: Tony Ward Kotare Street Waikanae Kapiti

Page 10 of 14





#### FREDERICK R SMITH

chartered consulting engineer 363 Wairakei Rd, Burnside Christchurch 8053 Phone 03 348 1521 certify that buildings erected in accordance with these drawings will comply with the New Zealand Building Code.

F R Smith BE (civil) MIPENZ MACENZ MIEAust CPEng RPEQ (6225)

#### TOTALSPAN.

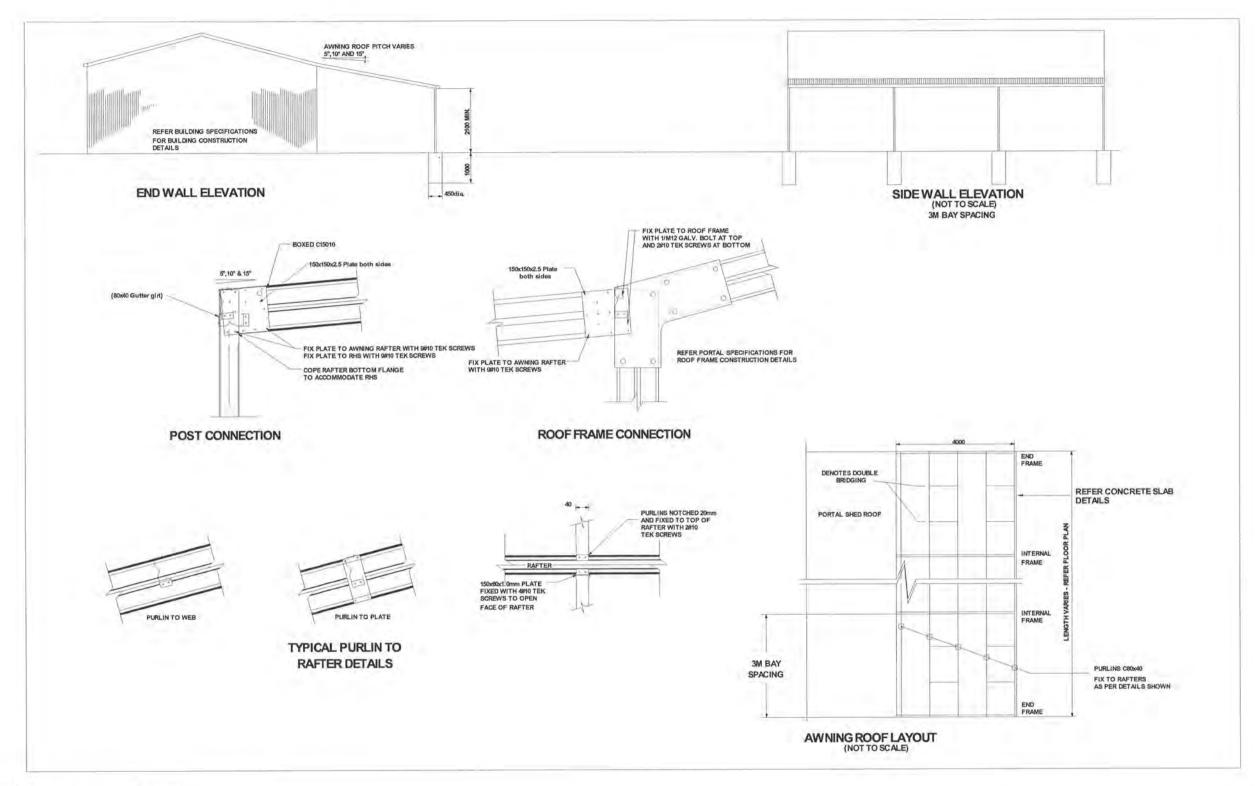
A Division of VERSATILE BUILDINGS LTD

112 WATERLOO ROAD, HORNBY
P.O. BOX 11-013, CHRISTCHURCH
PH: (09) 261 2306 FAX: (09) 262 1535

Drawing Title:

PORTAL BUILDING BRACING - WALLS AND ROOF For: Tony Ward Kotare Street Waikanae Kapiti

Page 12 of 14



Awning Rafters:

B15010

Awning Purlins (Rows:5):

C80x40(2)

#### FREDERICK R SMITH

chartered consulting engineer

363 Wairakei Rd, Burnside Christchurch 8053 Phone 03 348 1521

I certify that buildings erected in accordance with these drawings will comply with the New Zealand Building Code.

F R Smith BE (civit) MIPENZ MACENZ MIEAust CPEng RPEQ (6225)

#### TOTALSPAN.

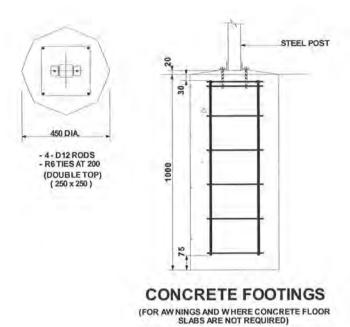
A Division of VERSATILE BUILDINGS LTD

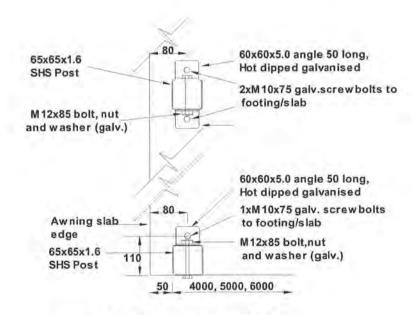
112 WATERLOO ROAD, HORNBY P.O. BOX 11-013, CHRISTCHURCH PH: (09) 261 2306 FAX: (09) 262 1535 Drawing Title:

**AWNING 4M AWNING** 

For: Tony Ward Kotare Street Waikanae Kapiti

Page 13 of 14





# POST HOLD DOWN DETAILS



I certify that buildings erected in accordance with these drawings will comply with the New Zealand Building Code.

F R Smith BE (divil) MIPENZ MACENZ MIEAust CPEng RPEQ (6225)

# TOTALSPAN.

A Division of VERSATILE BUILDINGS LTD 112 WATERLOO ROAD, HORNBY P.O. BOX 11-013, CHRISTCHURCH

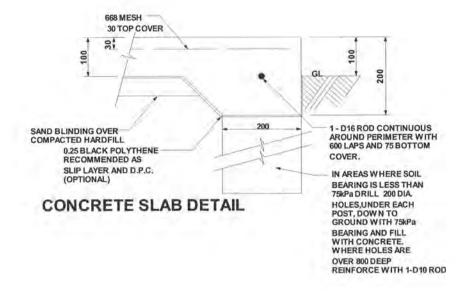
PH: (09) 261 2306 FAX: (09) 262 1535

Drawing Title:

PORTAL BUILDING
AWNING FOUNDATION DETAILS

For: Tony Ward Kotare Street Waikanae Kapiti

Page 14 of 1



Date Drawn: Main Building Length: 10/02/2010 5914mm

Main Building Width: Main Building Area: 3964mm 23.443m<sup>2</sup>

Awning Length: Awning Width:

6000mm 4000mm

Awning Area:

24.000m<sup>2</sup>

Total Building Length: Total Building Width:

Total Building Area:

5914mm 7964mm 47.443m²

Stud Height:

2700

Wind Rating:

High (A6-A7)

Bay Size:

3000

Cladding:

7 Rib Profile Colour: TBC

Foundation:

Concrete Slab

# Notes:

The design has been checked in accordance with B1/VM1, B1/VM4 and B2 of the approved documents issued by the Department of Building and Housing (DHB) and the work is described on drawings prepared by Frederick R Smith, Chartered Professional Engineer.

Durability requirements for wall cladding detailed in Manufacturers Statement-Durability.

This specification is to be read in conjunction with the attached Totalspan Specification drawings and Producer Statement by Frederick R Smith, Chartered Professional Engineer.

Construction to comply with the New Zealand Building Code.

TOTALSPAN BUILDINGS
A Division of Spanbild New Zealand Ltd

112 Waterloo Road, Hornby, P.O.Box 11-013, Christchurch PH: (09) 261 2306 FAX: (09) 262 1535 PREPARED BY: Kevin Calcott, Wellington-Horowhenua, 04 297 0033

SITE ADDRESS:

Kotare Street Waikanae Kapiti

KevinC-1903

REFERENCE:

FOR:

Tony Ward

**SPECIFICATIONS** 

Sheet 1 of 7

Front Elevation - Building Length (ridgeline)

112 Waterloo Road, Hornby, P.O.Box 11-013, Christchurch PH: (09) 261 2306 FAX: (09) 262 1535 PREPARED BY: Kevin Calcott, Wellington-Horowhenua, 04 297 0033

FOR: Tony Ward

KevinC-1903 REFERENCE:

SITE ADDRESS:

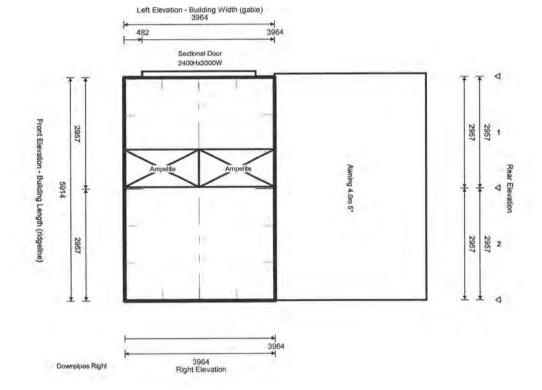
Kotare Street Waikanae Kapiti

Rear Elevation

N.T.S

**PLAN & ELEVATIONS** 

Sheet 2 of 7



TOTALSPAN BUILDINGS
A Division of Spanbild New Zealand Ltd

FOR:

REFERENCE:

112 Waterloo Road, Hornby, P.O.Box 11-013, Christchurch PH: (09) 261 2306 FAX: (09) 262 1535 PREPARED BY: Kevin Calcott, Wellington-Horowhenua, 04 297 0033

Tony Ward

KevinC-1903

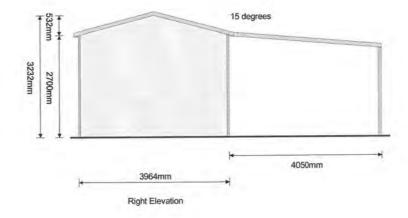
Kotare Street Waikanae Kapiti

SITE ADDRESS:

Scale 1:100

PLAN

Sheet 3 of 7



TOTALSPAN BUILDINGS
A Division of Spanbild New Zealand Ltd

112 Waterloo Road, Hornby, P.O.Box 11-013, Christchurch PH: (09) 261 2306 FAX: (09) 262 1535

PREPARED BY: Kevin Calcott, Wellington-Horowhenua, 04 297 0033

FOR: Tony Ward

REFERENCE: KevinC-1903

SITE ADDRESS: Kotare Street

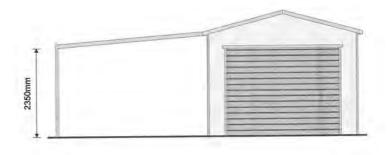
Waikanae

Kapiti

Scale 1:100

RIGHT ELEVATION

Sheet 4 of 7



Left Elevation

TOTALSPAN BUILDINGS
A Division of Spanbild New Zealand Ltd

112 Waterloo Road, Hornby, P.O.Box 11-013, Christchurch PH: (09) 261 2306 FAX: (09) 262 1535 PREPARED BY: Kevin Calcott, Wellington-Horowhenua, 04 297 0033

SITE ADDRESS: Kotare Street Waikanae Kapiti

Scale 1:100

LEFT ELEVATION

Sheet 5 of 7

FOR:

REFERENCE: KevinC-1903

Tony Ward

Δ 1 Δ 2 Δ

5914mm

Front Elevation

TOTALSPAN BUILDINGS
A Division of Spanbild New Zealand Ltd

112 Waterloo Road, Hornby, P.O.Box 11-013, Christchurch PH: (09) 261 2306 FAX: (09) 262 1535 PREPARED BY: Kevin Calcott, Wellington-Horowhenua, 04 297 0033

FOR: Tony Ward

REFERENCE: KevinC-1903

SITE ADDRESS: Kotare Street

Kotare Street Waikanae Kapiti Scale 1:100

FRONT ELEVATION

Sheet 6 of 7

TOTALSPAN BUILDINGS A Division of Spanbild New Zealand Ltd

112 Waterloo Road, Hornby, P.O.Box 11-013, Christchurch PH: (09) 261 2306 FAX: (09) 262 1535 PREPARED BY: Kevin Calcott, Wellington-Horowhenua, 04 297 0033

FOR: Tony Ward

REFERENCE: KevinC-1903

SITE ADDRESS: Kotare Street

Kotare Street Waikanae Kapiti Scale 1:100

REAR ELEVATION

Sheet 7 of 7





Building	Code	Claurale	.B1
Building	Code	Clause(2)	· Midney war

# PRODUCER STATEMENT - PS1 - DESIGN

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

ISSUED BY:	Frederick R Smith Consulting (Design Firm)	
To: Tony Ward / Totalspan	Buildings (Owner/Daveloper)	
TO BE CURRUED TO:	KCDC	
	(Building Consent Authority)	
IN RESPECT OF:	Portal Building	
- Kotare Street Walkana	(Description of Building Work) ne, Kapiti, , / High (A6-A7) - T.C.2 Rural	
AT: Kotare Street, Walkana	(Address)	
	DP	SO
We have been engaged by the own	ner/developer referred to above to provide .structural.design	
	services in re	
(Esta)	ni of Engagement)	
All or	cified in the attachment to this statement), of the proposed	building work.
The design carried out by us has be		
Compliance Documents issued	d by Department of Building & Housing .B.1(VM.1B.1/VM.4A	nethod / acceptable solution)
	attached schedule	
The proposed building work covere	ed by this producer statement is described on the drawings	uueu
	and numbered1-14	
: 1. 유럽 - 1 전 : 1. 1	other documents set out in the schedule attached to this st	tatement.
On behalf of the Design Firm, an		
	ollowing design assumptionsSoil.bearing.strength.to.be.no (Ultimate capacity of 225 kPa s meeting their performance specification requirements;	to NZS 3604:1999)
I believe on reasonable grounds	the building, if constructed in accordance with the drawing attached schedule, will comply with the relevant provision	gs, specifications, and other as of the Building Code.
	am: CPEng 3	
(Name o	of Design Professional)	1#
I am a Member of : VIPENZ	NZIA and hold the following qualifications: .BE.(Civil).	
	ment holds a current policy of Professional Indemnity Insura	ance no less than \$200,000*.
SIGNED BY .Erederick Roland.Smit	. ///	onsulting Engineers
Date 24-06-2010	(signature)	
the Design Firm only. The total maxim	lied upon by the Building Consent Authority named above. Liabi num amount of damages payable arising from this statement and nority in relation to this building work, whether in contract, tort or o	all other statements
This form is to accompany Form 2	of the Building (Forms) Regulations 2004 for the applic	ation of a Building Consent.
PRODUCER STATEMENT PS1	1	May 2007

THIS FORM AND ITS CONDITIONS ARE COPYRIGHT TO ACENZ, IPENZ AND NZIA

Page 2 of 14

# DESIGN PRODUCER STATEMENT - PS1

ISSUED BY:

David Smart Consulting Ltd

TO:

Fergusson Tanks

TO BE SUPPLIED TO:

Building Consent Authority

IN RESPECT OF:

Flat Top 10500 Litre Cement Mortar Water Tank

LOCATION:

Grour d Burial

David Smart Consulting Ltd has been engaged by Fergusson Tanks of Fellding to provide structural design services for a design check to assess suitability for ground burial of their standard 10500 litre flat top cement mortar water tanks.

The design check has been undertaker in accordance with verification methods B1/VM1 & B1/VM4 of the approved documents issued by the Department of Building and Housing with additional reference to NZS 3106;1986 'Code of Practise for Concrete Structures for the storage of Liquids' for the tank construction as specified below.

The standard flat top tank construction is detailed to consist of;

- Circular Tank 2.9m in diameter and 2.0m high having a flat top tof with a centre post to provide a
  water holding capacity of more than 10,000 litres
- Concrete Floor 100mm thick reinforced with 665 mesh centrally placed transitioned into the wall
  with a 250 mm concrete ring fillet
- 50mm thick cement mortar walls reinforced with 50 mm chain link mesh wire netting and 6 wraps
  of 4.0 mm dia galvanised wire spirally wound at the bottorn changing to 3.15 mm dia wire for the
  rest of the wall to the top at a 50 mm pitch spacing
- 80mm thick concrete roof reinforced with 665 mesh centrally placed and supported on a 160 mm dia concrete post reinforced with 4 D10 bars.

# On behalf of the Design Firm, and subject to,

- all proprietary products meeting performance specifications
- ground burial depth not exceeding 200mm above the tank roof
- no additional ground or floor loading surcharge being placed on the roof.
- backfill around the tank being uniformly placed
- no influence of adjacent ground loading surcharge outside the tank from nearby structures or vehicles and the like being placed on the walls
- the tank not being emptied in the presence of a high ground water table to avoid flotation
- Concrete and cement mortar strength exceeding 25 Mpa to NZ 5 3106 1986 requirements
- Construction being completed in accordance with NZS 3106 1936.
- ultimate ground bearing capacity exceeding 200 kPa

I BELIEVE ON REASONABLE GROUNDS that the tank, if constructed as described will comply with the relevant provisions of the New Zealand Building Code

Signed:

MI

Date: 5 November 2:10

David L Smart BE (Civil), MIPENZ

On behalf of David Smart Consulting Ltd (Design Firm)
28 Amesbury St. Palmerston North
with a current policy of Professional Indemnity Insurance no less than \$2,00,000.

Note: Liability under this statement accuses to the Design 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 Form 2 of the Building (Forms) Regulations 2004 for the application of a Building Consent







EC

# PRODUCER STATEMENT - PS1 - DESIGN

6)	70 · *	-	to.
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ICCI	ILL	BY:
(33)	11-11	PK V .

Allan Bruce Pullenger

(Suitably qualified Design Professional)

TO:

Mr & Mrs Ward

(Owner)

TO BE SUPPLIED TO:

Kapiti Coast District Council

(Territorial Authority)

IN RESPECT OF:

Structural Beams, Retaining, pole & concrete walls

(Description of Building Work)

AT:

35b Kotare Street

Waikanae

(Address)

LOT 3

DP 64335

Designscape sharkbait Ita

has been engaged by

owner

(Design Firm)

(Owner/Developer/Contractor)

to provide

Structural design

services in respect of the

(Extent of Engagement)

requirements of Clause(s) B1, B2 (limited to structural materials)

of the Building Regulations 2004 for

LI All

Part only as specified

of the building work. The design has been prepared in accordance with

R1

(verification method(s)/acceptable solutions(s))

(respectively) of the approved documents issued by the Building Industry Authority and the work is described on

Designscape sharkbait Ital drawings titled Ward House and numbered 2690 and the specification and other documents according to which the building is proposed to be constructed.

As an independent design professional covered by a current policy of Professional Indemnity Insurance to a minimum value of \$200,000. I BELIEVE ON REASONABLE GROUNDS that subject to:

(i) the site verification of the following design assumptions

and (ii) all proprietary products meeting the performance specification requirements, the drawings, specifications, and other documents according to which the building is proposed to be constructed comply with the relevant provisions of the building code.

Date

20/06/2011

NZCE, Rea (Professional Qualifications)

(Signature suitably qualified Design Professional)

IPENZ Reg No 57930

Member CertETn



298 Rosetta Road, Raumati

# GUIDANCE ON USE OF PRODUCER STATEMENTS

This producer statement has been prepared 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 and the Building Officials Institute of New Zealand.

Four producer statements are available and brief details on the purpose of each are as follows:

Design: Intended for use by the person responsible for the design in circumstances where the Territorial

Authority will rely on the producer statement to issue a Building Consent.

Design Review: Intended for use by a suitably qualified independent design professional where the Territorial

Authority does not undertake an internal review and relies on the independent design

professional's review to issue the Building Consent.

Construction: Intended for the use by the contractor of the building works where the Territorial Authority

requires a producer statement at the completion of construction.

Construction Review: Intended for use by the person required by the Building Consent to undertake construction

monitoring of the building works in circumstances where the Territorial Authority will rely on

the producer statement to issue a Code Compliance Certificate.

The producer statements system is intended to provide Territorial Authorities with reasonable grounds for the issuing of a Building Consent or Code Compliance Certificate without having to duplicate design or construction checking by others.

The following criteria are recommended to Territorial Authorities with respect to the use of the producer statements.

# Definition of Suitably Qualified Design Professional

A suitably qualified design professional should have recognised qualifications and experience for the work undertaken and should be either:

- (i) an active member of the Association of Consulting Engineers New Zealand (ACENZ) or;
- (ii) a member of the Institution of Professional Engineers New Zealand (IPENZ) having a current policy of Professional Indemnity Insurance for a sum not less than \$200,000 or;
- (iii) a member of the New Zealand Institute of Architects (NZIA) having a current policy of Professional Indemnity Insurance for a sum of not less than \$200,000.

# **Design Build Contracts**

If the design professional is engaged by the contractor, the territorial authority should satisfy itself that it is appropriate for the territorial authority to rely upon a producer statement from the design professional.

# Consulting Services during Construction Phase

There are several levels of service which a design professional may provide during the construction phase of a project. The territorial authority is encouraged to require that the service to be provided by the design professional is appropriate for the project concerned.

### Requirement to provide Producer Statement

Territorial Authorities should ensure that the applicant is aware of any circumstances in which there may be a 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 professional's engagement.

# Attached Particulars

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

Paraparaumu Prenail Ltd.

37 Ihakara St. PARAPARAUMU Ph (04) 902 5618 Fax (04) 902 5619

Date: 24 June 2011

# Preliminary Producer Statement - PS1 - Design

Truss Design Criteria For Building Consent Application

Design roof snow load: 1.5 KPA

Ground snow load: 0 Pa

Altitude above sea level: 100 m

Location: Region N1 - lower Nth Island

(incl. probability factor)

Job Ref: 4481

CLIENT Name:

Tony Ward

SITE Details:

Ward House

Address:

35c Kotare Street

City:

Walkanae

Post Code:

State:

Nominal Design Criteria:

Building importance: Residential

Roofing: Metal Tile Ceiling: 13mm Gibboard Top chord purlins: 380mm

BC restraints: 400mm Standard truss spacing: 900mm Standard roof pitch: 30.00 deg.

Ult design wind speed:50 m/s (wind classification = Very High)

Max. eaves height: 3 m Max. ridge height 8 m

Int pressure coeff. up: 0.2

Structural Fascia: Not required except at hip comers

The truss designs for this job have been determined using computer software provided by Pryda New Zealand, using sound and widely accepted engineering principles. In particular, loadings and designs are performed in accordance with the Standards adopted by primary reference in the Compliance Document, B1 Structure, as called up in the New Zealand Building Code, NZBC 2008.

In addition, the following secondary referenced Australian Standard also applies:

AS 1649-2001

Timber - Methods of test for mechanical fasteners and connectors - Basic working loads and characteristic strengths

All trusses are to be manufactured in accordance with the fabrication specifications provided by Pryda, and installed, connected and braced in accordance with the recommendations given in -: AS4440:2004 "Installation of nailplated timber roof trusses" and any other supplementary details that may be provided.

All truss designs and their connections have been designed using Pryda design software. Additional items such as roof/ceiling plane bracing, special notes, supplementary timber, etc., which may be shown on the plan drawings are the responsibility of others.

I/we confirm that the trusses for this project have been manufactured in accordance with the fabrication specifications provided by Pryda New Zealand

Name:_	Bruce Dyhrberg	Position:_	Head Detailer	
Signed:	B. Duhrberg	Date:	Friday, 24 June 2011	

Page 1 of 1 Date: 24-06-2011 Pryda Build V 2.0.8.79

Job Ref:

4481D

# Producer Statement - PS1 - Design

This producer statement applies to the structural engineering design software "Pryda Build" supplied by Pryda NZ to

Paraparaumu Prenail Ltd.

who is licensed to use the software to produce nailplated timber roof truss, floor truss, lintel and beam designs. These truss designs are in accordance with sound and widely accepted engineering principles and comply with the Compliance Document for the New Zealand Building Code, Clause B1, and New Zealand Building Code Verification Method B1/VM1.

In addition to the above, this software also complies in part with:

ANSI / TPI 1 - 2002 National Design Standard for metal plate connected wood truss construction.

AS 1649 - 2001

Timber - Methods of test for mechanical fasteners and connectors - Basic working loads and characteristic strengths.

The truss designs require that the supporting structure is stable in its own right, and that the trusses will be braced in accordance with the New Zealand Building Code Standard NZS3604:1999 and amendments 1 & 2, and any supplementary documentation provided by Pryda NZ.

Pryda NZ holds a current policy of Professional Indemnity Insurance with cover no less than NZ\$2 million. The policy includes the engineering design processes used in the software.

On behalf of Pryda NZ (a division of ITW New Zealand)

A C van Blerk BSc (Eng) MIPENZ (214689) CPEnd IntPE

Engineering Services Manager

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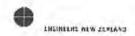


Suitcing Code Clause(s) .....

# PRODUCER STATEMENT — PS1 — DESIGN (Guironce notes on the vive of this form are granted on the reverse side?)

ISSUED BY: SUMI RESOURCES LTD
TO: LARSENS CONCRETE & DRAWABE
TO BE SUPPLIED TO:
IN RESPECT OF: LARVES ELE 10000 LITTEL WATER TANK
ĀT:
LOT. DP SO
We have been engaged by the owner developer referred to above to provide STRUCTURE BOUGHT TO RESERVE CONTRICT TO SERVICES IN RESPONDED TO THE REQUIREMENTS OF Clause(s) 6-7 of Ad NZS 15 U.S. 11968 of the Building Code for O-All-or O-Part-only (as specified in the attachment to this statement), of the proposed pullding work.
The design carried out by us has been prepared in accordance with:
Compliance Documents issued by Department of Building & Housing
Li Alternative solution as per the attached schedule
The proposed building work covered by this producer statement is described on the drawings titled
and numbered
together with the specification, and other documents set out in the schedule attached to this statement.
On behalf of the Design Firm, and subject to:
Site verification of the following design assumptions
(ii) All proprietary products meeting their performance specification requirements;
I believe on reasonable grounds the building. If constructed in accordance with the drawings, specifications, and other documents provided or listed in the attached schedule, will comply with the relevant provisions of the Building Code.  I. MALLAO, LANDE MALLAO, LAND
lam a Member of : VIPENZ NZIA and hold the following qualifications:
The Design Firm issuing this statement holds a current policy of Professional Indomnity Insurance no less than \$200,000°. The Design Firm is a member of ACENZ OYES ONO
SIGNED BY STUDEN ON BEHALF OF BURL RESOURCES LTD
Date 15/2- 2010 (signatura) DAVID MOLHOLLAND STOR
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 enting from this statement and of other statements provided to the Building Consent Authority in relation to this building work, whether in contract, lost or otherwise (including negligence), is united to the sum of \$200,000.
This form is to accompany Form 2 of the Building (Forms) Regulations 2004 for the application of a Building Consent.
FRODUCER STATEMENT PS1 1 May 2017

THE FORM AND ITS GONDITIONS ARE COPYRIGHT TO ACENZ IPENZAMO KZIA





Building Code Clause(s)	B1
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# PRODUCER STATEMENT – PS1 – DESIGN (Guidence notes on the use of this form are printed on the reverse side\*)

ISSUED BY: GH	DLTD			Search Contract Contr		
TO: .AZZURG	A. Spiar. System	n	(Owner)	Developer)		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
TO BE SUBDILIE	D. TO: Local	Councils	7.07		- 1	K ANT S
TO BE SUPPLIE	D TO: LONG.		(Building Cor	asent Authority)		
IN RESPECT OF	: Structural o	design of angle	bracket ( only)	to support solar	panel	manana atau da
			(Description o	( Building Work)	Carrette Comment	
AT: Different	locations					
			(Add	dress)		
		99944444444444		LOT	DP	so
We have been en	gaged by the	owner/develop	er referred to a	bove to provide	Structural de	esign of angle bracket to suppe
			ents ie roof me			in respect of the requirements of
Clause(s) B1		(Extent or Engagement)	*************			of the Building Code for
O All or 1	Part only (as	specified in the	attachment to	this statement),	of the propos	sed building work.
The design carried						
					1	*******************************
					the section	Prince and Marie A.
Alternative on	todian an area	(contraction of the contraction	4 = 4 4 =	************		on married / acceptable souther)
						***************************************
The proposed buil	ding work cov	rered by this pr	oducer stateme	ent is described	on the drawin	ngs titled. Detail and
						singed by GHD LTD
together with the s				n the schedule a	attached to th	is statement.
On behalf of the	Design Firm,	and subject to	1			1
(i) Site ve	rification of th	e following des	ign assumption	ns .roof.element	s supporting.	the panels are adequate &to he
				e specification re		enecked by engineer
I helieve on ress	onable group	ade the buildin	a if constructs	d (n. n. n		
documents provide	ed or listed in	the attached so	chedule, will co	omply with the re	elevant provis	wings, specifications, and other ions of the Building Code.
I, .Hamid Rahmar	nian			aı	m: CPEng	250574#
	(Nai	me of Design Professions	ai)			
I am a Member of	. ✓ IPENZ	CINZIA :	and hold the fo	lloudes suclifica		rch#
The Design Firm is	a member of	ACENZ (a)YE	S()NO			urance no less than \$200,000*.
SIGNED BY Hamio			ON I	BEHALF OF .GH	DLTD	(Design Firm)
				1	1 0	(Design Firm)
Date 07/03/11	est)	(signature)		1 le	10/11	
the Design Firm only	y. The total mi ling Consent A	axımum amount	of damages pa	vable arising from	this statemen	bility under this statement accrues to nt and all other statements or otherwise (including negligence),
This form is to acco	ompany Form	2 of the Build	ling (Forms) R	egulations 200	4 for the app	lication of a Building Consent.
PRODUCER STATEME	NT PS1		4			May 2007

PRODUCER STATEMENT PS1

May 2007

# 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 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 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 Intended for use by a suitably qualified independent design professional where the BCA Review 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 3910:2003 or Schedules E1/E2 of NZIA's SCC 2007

Intended for use by a suitably qualified independent design professional who undertakes PS4 Construction Review 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 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-CM5)<sup>3</sup> (OL1-OL4)<sup>2</sup>. 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:

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

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







# APPLICATOR'S PRODUCER STATEMENT

Of	36 FR	LEEMANS	CASS	7410	\		(Address)
Being	an Applic	ator					
Confir	m that we	have applied	HORK	JUANT	,		(Product)
At	350	YOTENE.	STREET	W	RIKA	me	
Compl	leted	4/2012		for	MR	e mas	WARD.
in acco	ordance was E2, E3	vith the manufac and B2 of the cu	turers written	applicati	ion instr	uctions, AS	3740-2004 and
clause I/Wé a suitabl Bond I	es E2, E3 are satisfie ly prepare Breaking	with the manufact and B2 of the cu ed that the subst ed, and the mate Tape or Neutral- ting 970mm as	rrent NZ Bui rate over whi rials have be Cure Silicon	Iding Coo ch this sy en correc	le. /stem ha ctly insta	as been app alled, includi	olied has been ng 50mm wide
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I/Wé a suitabl Bond I Reinfo	es E2, E3 are satisfie ly prepare Breaking proing Mat	and B2 of the cued that the substed, and the mate Tape or Neutral-	rate over white rate over silicons required.	ch this sy en correct e, Reinfo	vstem hatty insta	as been app alled, includi ape 140mm	olied has been ng 50mm wide minimum and

# Manufacturer's 15 year Guarantee

- Construction Chemicals manufactures products throughout Australia, Asia and New Zealand and has over 30 years of manufacturing experience.
- We maintain a Research and development laboratory that maintains and develops leading edge technology.
- We guarantee our tile adhesives and grout;
   Waterproof membranes are guaranteed when applied by an Accredited Applicator.

"When tiles are installed in accordance with AS 3958 Part 1- guide to the installation of ceramic tiles, and waterproofing is installed in accordance with AS 3740 -2004, Waterproofing of wet areas within residential areas, in conjunction with our written instructions, good trade practise and any relevant local requirement, Construction Chemicals guarantees the performance of the products mentioned on the guarantee when applied to structurally sound surfaces"

This guarantee is for a fifteen (15) year period from the time of the original installation and covers only the cost of materials and labour of the original installation when the product is proven and acknowledged to be faulty.

# CONSTRUCTION CHEMICALS

Adelaide, Brisbane Melbourne, Sydney, Perth Auckland & Kuala Lumpur



Construction Chemicals (NZ) Ltd 16 Carpenter Road East Tamaki Auckland Signed on behalf of Construction Chemicals (NZ) Ltd S. Plester Steve Plester NZ Representative (Adhesives) WATERPROOFING & REPAIR PRODUCTS FOR CONCRETE AND MASONRY

# Certificate of Proficiency For the Installation of Waterproofing

This certificate is to confirm that On 24th July 2007

# Michael Cooksley

Has been instructed by Construction Chemicals (NZ) Ltd in the application of our waterproofing membranes and is hereby classed as an approved applicator.

All waterproofing must be installed according to A.S.3740-2004 Construction Chemicals written instructions and good trade practices and any relevant local requirements under Sections B2, E2 and E3 of the NZBC

Steve Plester

Authorized by

CONSTRUCTION CHEMICALS

Steve Plester

Technical Manager

Adelaide 467-469 South Road, Regency Park. Brisbane, Melbourne, Sydney, Perth, Auckland, Kuala Lumpur



# P & J Plastering Contractors Ltd

Joe Tousoon P O Box 312 Waikanae Kapiti Coast p: 04 293 1466

f: 04 293 1471 m: 021 548 536

pandjplastering@inspire.net.nz

# LICENSED PLASTERER WARRANTY

Job Number:

27812

Site Address :

35 Kotare Street, , Waikanae

Consent No :

Building Owner:

Tony Ward

Builder:

Cox & Sweetman

Licensed Plasterer: Systems Used: P & J Plastering Contractors Ltd EPS Cavity Plus Render System,

Substrates Used :

50mm EPS,

Textures Used : Colours Used : Santa Fe (Painted),

Colours Used :

1/2 Truffle (R)

Start Date :

10-Feb-2012 10-Apr-2012

Clauses and Further

Information:

The Licensed Plasterer warrants that defects in the work carried out by the Licensed Plasterer arising within five years of the Completion Date recorded above and caused by faulty workmanship in the application of the Rockcote Resene Products ("RRP") or as a result of RRP being applied other than in accordance with the manufacturer's or supplier's specifications will be made good by the Licensed Plasterer and without cost to the Purchaser.

- The warranty will only apply if the Purchaser has made full payment for the supply and application of the RRP and thereafter will extend to subsequent owners of the property.
- The warranty will only apply where the defect is a direct result of faulty workmanship in the application of the RRP.
- The liability of the licensed plasterer is limited to remedying the defect in the workmanship and the licensed
  plasterer will not by virtue of this warranty be liable for any other damage, loss, liability, expense or any other
  loss of any kind whatsoever.
- The warranty will not apply to any repair or maintenance work if any such repair or maintenance work is done
  other than under the supervision of and subject to the inspection and approval of the Licensed Plasterer or
  Rockcote Resene Limited.
- Any remedial work carried out under this warranty will not extend the term of this warranty,
   PAJ PLASTERING

CONTRACTORS LTD PO BOX 312 WAIKANAE

Signed by P & J Plastering Contractors Ltd











# MANUFACTURERS GUARANTEE

Job Number :

27812

Site Address :

35 Kotare Street, , Waikanae

Consent No :

Building Owner:

Tony Ward

Builder:

Cox & Sweetman

Licensed Plasterer:

P & J Plastering Contractors Ltd

Systems Used:

EPS Cavity Plus Render System,

Substrates Used :

50mm EPS,

Textures Used : Colours Used :

Santa Fe (Painted),

Start Date :

1/2 Truffle (R)

10-Feb-2012

End Date :

10-Apr-2012

Clauses and Further

Information:

Guarantee Periods:

EPS Cavity Plus Render System: - This system has a 15 Year Manufacturers Guarantee for product as per conditions below.

The Manufacturer, Rockcote Resene Limited (herein after called "the Manufacturer") hereby quarantees;-

This quarantee is limited to necessary repairs arising from defects in the manufacture of any products manufactured by the manufacturer, affixed and applied in accordance with all specifications, installation directions, procedures and instructions established by the Manufacturer but does not include damage to or deterioration of the products caused by factors beyond the control of the Manufacturer. For example, but without limiting the foregoing factors damage or defects could be caused by:-

· Faulty Workmanship and/or materials by others.

Damage caused by acts of God, for example earthquakes, flood, wind or storm damage.

Damage caused by fire or unlawful acts.

Damage caused by accidental or intentional impact.

Damage caused by localised ground movement, including slips and subsidence.

The manufacturer will not by virtue of this warranty be liable for any consequential, indirect or special damage or loss of any kind whatsoever.

### NOTE:

- . The manufacturer accepts no Liability for damage caused to other surfaces products or property through water leakage or water penetration which occurs because of improper fixing of doors, windows or door and window flashings.
- This Guarantee extends to product only and does not include the making of any refunds or payments by the manufacturer.
   Please refer to Rockcote specifications which are to be read in conjunction with this Guarantee.

- . This Guarantee shall meet the requirements of the current E2 Including proposed changes to E2 AS1 & B2 Durability which complies with the New Zealand Building Code Performance B2,3
- The Guarantee is subject to maintenance requirements, if Vector 5 has been applied to balustrades/parapet area's, these areas are to be cleaned and maintained annually, over coated with Resene X-200 after the first two years and subsequentially every five years there after
- No liability is assumed or implied for project supervision or defects caused by improper installation of the system.

This Product is for application by Licensed Plasterers only. Product only applied in non-conformance with the product data sheet and installation manual or to non approved substrates will invalidate Rockcote's Guarantee.

Signed By Manufacturer. Mike Olds General Manager



# P & J Plastering Contractors Ltd

Joe Tousoon P O Box 312 Waikanae Kapiti Coast

p: 04 293 1466 f: 04 293 1471 m: 021 548 536

pandjplastering@inspire.net.nz

# PRODUCER / CONSTRUCTION STATEMENT EXTERNAL CLADDING

Job Number :

27812

Site Address :

35 Kotare Street, , Waikanae

Consent No : Building Owner :

Tony Ward

Builder:

Cox & Sweetman

Licensed Plasterer:

P & J Plastering Contractors Ltd EPS Cavity Plus Render System,

Systems Used : Substrates Used :

50mm EPS,

Textures Used : Colours Used : Santa Fe (Painted),

Start Date :

1/2 Truffle (R) 10-Feb-2012

End Date :

10-Apr-2012

Clauses and Further

Information :

We the above firm have completed the above work in acceptance NZBC E2/AS1, B2/AS1, BRANZ Appraisal 476 and the Rockcote Resene Limited Specifications. P&J PLASTERING

CONTRACTORS LTD PO BOX 312 WAIKANAE

Signed by P & J Plastering Contractors Ltd

Date: 30/05/2012









nu	00	<

Certificate No: 095

Date: 20.3.12

# PRODUCER STATEMENT CERTIFICATE

Client: TONY WARD
Address: 35c KOTARE STREET
WAIKANAE
Site Legal Description: Lot 1: 35 B KOTARE ST, WAIKANAE
Local Authority: KARITI COAST DISTRICT Permit No.: 110397
W.A.N.Z. Registration No.: 06476
Confirm that all products supplied by this company as described in our Quotation
No.: 12613 Dated: 27.10.11 Revision Dated: 12.1.12
Supplied Only Supplied & Installed Unglazed Glazed
Comply with the following current New Zealand Standard Specification:
Performance of Windows NZS 4211 S.W.P.: VH
Water Leakage Grade:
Aluminium Joinery NZS 3504
Glass & Glazing NZS 4223
B.I.A. "Safety from Falling" Clause F4
W.A.N.Z. Installation Code of Practice
Other Specified Documents:
Signed:



# Warranty for Nulook Aluminium

The organisations involved in the manufacture of your Nulook aluminium joinery warrant the product they have supplied and their workmanship.

# **Fabricator Warranty:**

The joinery supplier who has supplied you with Nulook aluminium joinery (the "Fabricator") will, subject, to the conditions below, at its option, repair or replace free of charge any Nulook aluminium joinery due to a failure in workmanship or installation carried out by the Fabricator within a period of five years from the date of delivery or installation by the Fabricator.

The Fabricator shall not be liable for any defect in materials covered by any other supplier warranty. This Warranty does not affect any applicable statutory consumer rights.

# Nalco Extrusion Warranty:

National Aluminium Limited ("NALCO") has supplied the Fabricator with aluminium and will, subject to the conditions below, at its option, repair or replace free of charge any Nulook aluminium extrusion supplied by NALCO where it:

- · Fails to remain waterproof
- · Fails to be durable as defined by the New Zealand Building Code Requirement: Fifteen Years
- · Fails to comply with the performance requirements of NZS4211: Specification for windows: within a period of TWO Years from the date of manufacture.

NALCO shall not be liable for any defect in workmanship, fabrication installation or failure of powdercoating paint finish covered by the Powdercoating Warranty or any defect in hardware not manufactured by NALCO.

This warranty does not affect any applicable statutory consumer rights.

# Conditions of the Fabricator and NALCO Warranty ("the Warrantee"):

- · The Warranties are only applicable to windows and doors fitted to domestic dwellings.
- · The Warranties do not apply in the event of:
  - a) Any damage or deterioration arising from causes beyond the control of Nalco or the Fabricator including but not limited to impact, abrasion, earthquake, flood, mechanical damage, neglect, malicious damage, misuse, fire damage, act of God, pollution, abnormal weather, damage caused by geothermal gases, air pollution or severe coastal conditions, excessive heat, exposure to chemicals, or attempted repairs unauthorised by NALCO or the Fabricator.
  - b) Where the defect is caused by the use of adhesive tapes or by the use or failure of sealants or mastics.
  - c) Where the defect is caused by a failure to regularly maintain the surfaces in accordance with the recommended care and maintenance procedures as set out in the Powdercoat Warranty.
  - d) Where the defect is attributable to a defect in the structure to which the joinery has been affixed.
- · The obligations under this Warranty are limited to either free replacement of the defective component or repair at the discretion of NALCO or the Fabricator, as the case may be.
- · Neither NALCO nor the Fabricator is liable for any additional direct or indirect special consequential or third party claims for loss, damage or expenses.
- The Warranties are not assignable or transferable to subsequent owners without the prior written consent of both NALCO and the Fabricator.
- The liability of NALCO and the Fabricator shall not exceed the original invoice value of the applicable aluminium joinery product at fault.
- · No liability shall arise where the purchase price for any product supplied remains unpaid in full, or where payment is not made on the due date for payment.
- No liability shall arise unless a claim is made in writing to the Fabricator or to NALCO within 30 days of the defect arising or being reasonably discoverable by the purchaser.

Nulook Windows and Doors is a registered trademark of National Aluminium Ltd (NALCO) 42 Lady Ruby Drive East Tamaki Auckland Ph: 64 9 272 1700, Fax 64 9 272 1708, Website www.nulook.co.nz



Date: 16 December 2011 Warranty No: 100389.01 Distributor: O Ten M Ltd

# TEXTURED STONE-COATED TILE WARRANTY FOR NEW ZEALAND USE ONLY

(Manufactured from Zincalume only)

To the Purchaser Named Hereunder: Cox and Sweetman Builders Ltd

Address: 35B Kotare Street, Waikanae

Tile warranty by Metrotile (NZ) Limited (hereinafter called the Company).

# (a) Weather Security Warranty

The Company warrants that each Zincalume roofing tile comprised in the roof fitted to the purchaser's property described below; will carry a 50 year pro-rata weatherproof warranty. This warranty is a full 25-year weatherproof warranty plus a diminishing pro-rata weatherproof warranty for the subsequent 25 years. Should any tile not remain weatherproof over this period the Company may at its option repair or replace the tile. The Company's obligation under this section of the warranty shall be limited to the cost of the remedial work during the first 25 years following the date of this warranty, and thereafter shall be limited to sharing the costs with the purchaser based on the schedule on the reverse of this warranty.

# (b) Surface Coating Warranty

If during a period of 20 years from the date of this warranty, the surface coatings of the tile deteriorates to the extent that in the Company's reasonable opinion the appearance of the roof is substantially affected, then the Company will at its option either repair the roof or apply the Company's surface coating to the roof. The Company's obligation under this surface warranty shall be limited to the cost of the remedial work during the first ten years following the date of this warranty, and thereafter shall be limited to the sharing of costs with the purchaser based on the schedule on the reverse side of this warranty.

### (c) Installation Warranty by the Installation Contractor

The installation contractor warrants that defects in the purchaser's roof arising within five years of the date of this warranty and caused by faulty workmanship in the fitting of the roof shall, within a reasonable time, be made good by the installation contractor and without cost to the purchaser.

# (d) Terms and Conditions of the Tile and Installation Warranties:

- (i) The warranties shall only apply if the purchaser has made full payments for the supply and fitting of the roof and thereafter will extend to subsequent owners of the property.
- (ii) The warranties shall only apply where the defect is a direct result of a manufacturing defect or faulty workmanship in fitting of the roof. (For example, damage caused by walking on the roof by the owner or any other persons such as plumbers, TV repairmen, electricians, painters etc. following the correct fitting of the roof, or any defects in the structure on which the roof is fitted, is not covered by the warranty.)
- (iii) The Company by virtue of these warranties shall not be liable for any consequential, indirect or special damage or loss of any kind whatsoever beyond the period that the Company is liable to the consumer under the Consumer Guarantees Act 1993.
- (iv) As colour variations may exist in tiles manufactured at different times the Company and installation contractor reserve the right to repair or replace tiles in a colour similar to the original.
- (v) The warranties shall not apply if any work, except temporary emergency work, is done other than under the supervision of or subject to the inspection and approval of the Company.
- (vi) The Company gives no warranty if during installation of the roof, skill saws, abrasive discs or hacksaws are used to cut tiles except as directed in fixing instructions issued by the manufacturer of the tiles.
- (vii) The surface coating warranty shall not apply where the growth of organic matter such as moss or lichen occurs on the roof. Organic matter, if left unchecked, may damage the surface of any roofing or cladding product.
- (viii) Any remedial work carried out under this warranty shall not extend the term of warranty.
- (ix) This warranty does not in any way limit the rights of the consumer or limit the obligations of the Company under the Consumer Guarantees Act 1993

### (e) Special Note:

If rainwater is to be collected from this roof and intended for drinking, the system must be disconnected for three good rainfalls or thoroughly hosed down before reconnecting.

# How to care for your roof:

- You should not walk on your roof unless absolutely necessary. If you do need to walk on your roof, to avoid denting or causing
  other damage to your roof, you should, firstly wear soft-soled shoes and secondly place your feet on the lowest point of the tile at
  the front edge.
- Metrotile roofs must be washed down regularly with fresh water especially those areas sheltered by the eaves overhang of a higher roof. In areas near the sea, where salt deposits are noticeable on windows and similar surfaces, or near areas of industrial pollution, washing down should be carried out every 2-3 months. In other areas, washing down every 6 months should suffice.
- 3. All organic growth such as moss, mould, algae, lichen or other organic growth can damage the surface coating of your Metrotile roof and must be removed with chemical cleaners as recommended by Metrotile in order for your warranty to be valid refer to section (d) (vii). Metrotile recommends to chemically clean the roof within a 3 year time period of your roof being installed and thereafter once every 2-3 years to maintain a good appearance and prevent the growth of moss, mould, algae, lichen or other organic growth. Metrotile recommends the use of MossBoss to chemically clean your roof.

Clause (a)	Weather Security Pro Rata Warranty Schedule			
Year	Company Contribution	%	Purchaser (Owner) Contribution	%
1 to 26	.00	100%	n	0%
27	0	96%	n ·	49
28	Ú.	92%	11	89
29	ii	88%	10	129
30	H	84%	ii .	169
31	16	80%		20%
32	u .	76%	· u	24%
33	.00	72%	9	28%
34	0	68%	))	32%
35	70.	64%	н	36%
36	4	60%	- 0	40%
37	.0	56%	00	44%
38	0.	52%	0	48%
39	'n	48%	-10	52%
40	W.	44%	0	56%
41	10	40%	0	60%
42	n	36%	-0	64%
43	et .	32%	ú	68%
44	w ·	28%	ii ii	72%
45	N.	24%		76%
46	310	20%	a	80%
47		16%	0	84%
48	ii -	12%	"	88%
49	**	8%	и	92%
50	W.	4%	ű	96%
51 - thereafter	n-	0%	n	100%

Clause (b)	Textured Surface Coating Pro Rata Warranty Schedule					
Year	Company		Purchaser (Owner)			
	Contribution	%	Contribution	%		
1 to 10	"	100%	u u	0%		
11	00	50.0%	JL	50.0%		
12		45.0%	- 0	55.0%		
13	30	40.0%	, ii	60.0%		
14	n -	35.0%	0	65.0%		
15	ji.	30.0%	- 0	70.0%		
16		25.0%	· n	75.0%		
17	16 =	20.0%		80.0%		
18	11.	15.0%	- a	85.0%		
19	48-	10.0%	All	90.0%		
20	n ·	5.0%	**	95.0%		
21 - thereafter	- 10	0%		100%		

Page 1 of 5 Date: 09-11-2011

Prvda Build V 3.0.3.169

Design roof snow load: 0 Pa

Altitude above sea level: 100 m

Ground snow load: 0 Pa

Location: Region N1 - lower Nth Island

(incl. probability factor)

Job Ref:

4481A

# Fabricator / Designer Statement

This statement may be used by the Building Consent Authority for compliance purposes and is issued by a licensed truss fabricator using the Pryda Build software.

CLIENT Name:

Ward Residence

SITE Details:

Address: 35 Kotere Street

Waikanae

City:

Post Code:

Nominal Design Criteria:

Design working life: 50 years Building importance: Residential

Roofing: Corrugated iron (8.0 kg/sq.m)

Ceiling: 10mm Gib-board (6.8 kg/sq.m)

Top chord purlins: 900 mm

BC restraints: 600 mm Standard truss spacing: 900 mm Standard roof pitch: 30,00 deg.

Ult. design wind speed: 50 m/s (wind classification = Very high)

Max. eaves height: 3 m Max. ridge height: 8 m

Int pressure coeff. up: 0.2

Overhang Condition: Metal fascia

The correctness of the Design Criteria used by the Pryda Build truss design software is the responsibility of the fabricator.

Note: A structural fascia beam is required at all hip and dutch hip corners to support the short creeper/rafter overhangs, as shown in AS4440-2004

Note: The external wind pressure coefficients for the standard trusses in this job have allowed for proximity to a gable end.

Note: Some trusses in this job support roofing and ceiling materials that are different to this nominal data (see individual truss detail sheets).

All truss designs and their connections have been designed using Pryda design software. Additional items such as roof/ceiling plane bracing, special notes, supplementary timber, etc., which may be shown on the plan drawings are the responsibility of others.

All trusses shall be manufactured in accordance with the fabrication specifications provided by Pryda, and installed, connected and braced in accordance with the recommendations given in -: AS4440:2004 "Installation of nailplated timber roof trusses" and any other supplementary details that may be provided, such as the Pryda Installation Guides.

Timber verification and grading values are in accordance with clause B1 and timber treatment in accordance with clause B2 of the New Zealand Building Code.

I/we confirm that the trusses for this project have been manufactured in accordance with the fabrication specifications provided by Pryda New Zealand

Name: Steve Carson

Position: Detailer

Signed:

Date: 09-11-2011

Page 1 of 1 Date: 09-11-2011

Pryda Build V 3.0.3.169

Job Ref:

4481A

Producer Statement - PS1 - Design

This producer statement applies to the structural engineering design software "Pryda Build" supplied by Pryda NZ to

# Paraparaumu Prenail Ltd.

who is licensed to use the software to produce nailplated timber roof truss, floor truss, lintel and beam designs. These truss designs are in accordance with sound and widely accepted engineering principles and comply with the Compliance Document for the New Zealand Building Code, Clause B1, and New Zealand Building Code Verification Method B1/VM1. The durability shall comply with the New Zealand Building Code, Clause B2, for importance level 2 and a design working life of 50 years.

In addition to the above, this software also complies in part with:

ANSI / TPI 1 - 2002 National Design Standard for metal plate connected wood truss construction.

AS 1649 - 2001

Timber - Methods of test for mechanical fasteners and connectors - Basic working loads and characteristic strengths.

The truss designs require that the supporting structure is stable in its own right, and that the trusses will be braced in accordance with the New Zealand Building Code Standard NZS 3604:2011, and any supplementary details provided, such as the Pryda Installation Guides.

Pryda NZ holds a current policy of Professional Indemnity Insurance with cover no less than NZ\$2 million. The policy includes the engineering design processes used in the software.

On behalf of Pryda NZ (a division of ITW New Zealand)

A C van Blerk BSc (Eng) MIPENZ (214689) CPEnd IntPE

**Engineering Services Manager** 

### TRUSS TIEDOWN LEGEND

"Z" -2/ Z nails

"U" - 1/ U nail at bottom chord

2/MG -2/ Multigrips (1/ each side of truss)

1/MGT - 1/ Multigrip

F/BKT - 1/Framing Bracket (Joist Hanger)

WS6(wr) - ends of WS6 folded & nailed under top plate

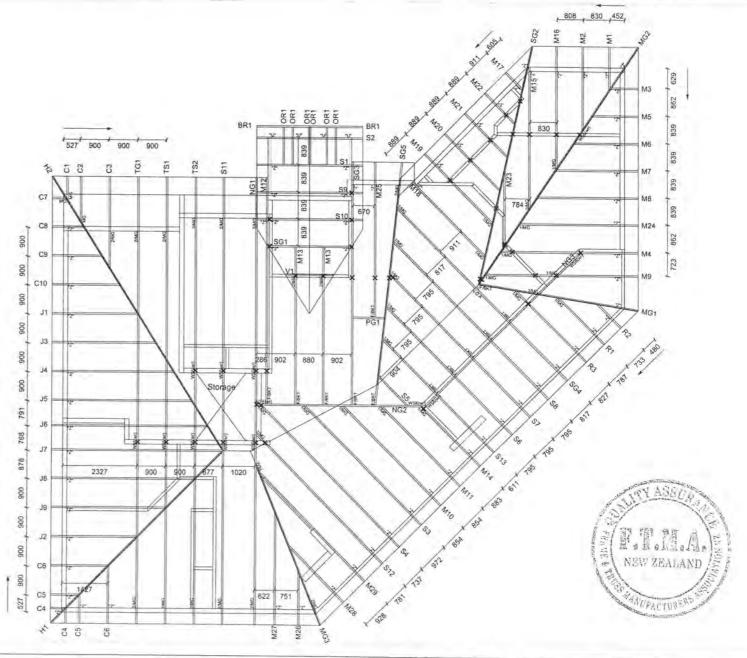
N.O.A - 2/ Nail on Angles

Note: Remaining Trusses without fixings, require a minimum of 3 scew nails

BUILDER: Please tack all the trusses when standing and only nail home once you have completed the roof and all truss members are fitting.

IMPORTANT: Do not cut or alter structural spanning trusses in any way.

FTMA



Customer : Ward Residence Site Address : 35 Kotere Street

Waikanae

Roofing Curringaled iron
Plich 30.00 Deg
Specing 900
Design Wein Velocity 500 on the (UII )
Detailor Seeve Causon

Job Ref 4481a Scale Level

# Model Producer Statement PS3 (Customer copy)

Form D2

leaded Florated Statement F35
Council: Installation of Solar Water Heating System.
Building Consent No: 110397
Producer Statement Issued By: Scales Wantes Litely
(Suitably qualified solar water heating system installer)
Address of installer: 6 Occas Vista, Lance Paraparania
Telephone Number for Installer: CSCC L(+9 61+9
Telephone Number for Installer: CSOC LLA 6149  Product and Model Number Installed: 1922200 Custom descent
Supplier of Product: Solar I Lades Lad
Registered Plumber (if applicable): Green Landing No. 1335
Registered Electrician (if applicable) Stones Electrical Registration No
Address of Property on which installed: 35B 1 Catare Street Neilleans
Location of installation: North Facinio voor Colombia in garage
Owner of Property on which installed: Tomo ( ) over!
Property description: LotDPDP
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: 23/14/19
Negistered Flumber Signature
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 mad
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
nstructions from the Product Supplier who is a Solar Industries Association Accredited Supplier.
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
Professional Indemnity Insurance Policy to a current value of \$
nstaller Signature: Date: Date: Signature with KCDC Policy 002
2 1 NOV 2010
2 1 100 2012
Signature:

# **Producer Statement**

# Solar Water Heater Installation

# **Construction Review**

Issued by Registration Number
To Kapiti Coast District Council
In respect to the following AS/NZS 2712: 2007 G12/AS2
Piped Services installed in accordance with G12/AS1 as shown on the approved plans or as per the attached amended plan.
Installed at
Building Consent No
As a Craftsman plumber, 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.
NameDateDate
KCDC Office use only
Producer Statement author authenticated and current registration verified
Verification & Registration checked: https://www2.pgdb.co.nz/PGDB/PublicRegister
Date
Name
ignature



This form is approved by the Electrical Workers Registration Board (PO Box 10-156, Wellington. Freephone 0800 66 1000) for the purposes of the Electricity (Safety) Regulations 2010.

Name:

Date:

# **Electrical Certificate of Compliance**

For a low voltage installation if prescribed electrical work has been done on any part of it and the prescribed electrical work involved placing, replacing or repositioning conductors or fittings attached to conductors. ME 99916



No. of attachments:

intings attached to conductors	26
To be completed whether or not an Inspecti	on is required.
CUSTOMER INFORMATION - PLEASE PRINT	CLEARLY
Name of customer: MR. WARD	Contact Ph No: 04 793 7203
Address of installation: 35 B WOTCHE	
Postal address of customer if different from above	
DECLARATION OF CONFORMITY (Please tick appl	opriate boxes or attach the Declaration of Conformity from the installation designer).
I declare that the design of the installation or part-	
(a) either Part 2 of AS/NZS 3000:2007 or P	art 1 of AS/NZS 3000:2007 and Regulation 59
	stem: 230V/400V MEN or other system (attached)
This declaration is issued by:	- 011
Name: T. GRIFFIN	Date: 17 4 12 Signature: 7-
	The signature of the
<b>A</b> -/	Spropriate where work includes:
No. of lighting circuits Mains Mains	Electrical Lines
No. of socket outlets 35 Main earthin	
	oard closest to the point of supply
	f multiple installers or homeowner please attach details of work done ()
wanting to new	endential DreneAir.
CERTIFICATION OF WORK	
CERTIFICATION OF WORK (Please tick appropriate bo	
installation or part-installation on which the work w	was done in accordance with the Electricity Act 1992; and that the completed as done is electrically safe.
The work has been installed in accordance with	the design detailed in the Declaration of Conformity described above
	Regulations 2010 have been satisfactorily completed (Results attached )
The installation has an earthing system that is	
The fittings on which work has been done are si	afe to connect to a power supply (Supplier declaration of conformity attached )
The installation or part-installation is safe to co	
Certifier details, (This section must be compl	eted)   Electrical Worker details (if not certifier)
Name: TGnHW Registration No: 25	
Company: LWS Contact Ph No.027	\$22231 Company: Contact Ph No: 3127 In
Date: 17 4 12 Signature:	Date: Signature: 1 CDC Policy 00
Inspection details Electrical work requiring	Inspection by a registered electrical Inspector 2 1227 4012
Mains work (Mains, MEN switchboards closest	
Medical	THICK Voltage Work
Mains parallel generation systems	Hazardous Animal Stunning/Meat Conditioning
Work carried out in accordance with Part 1 of A	

per the Electricity (Safety) Regulations 2010 the work described above, and certify it electrically safe.

Signature:



# **Electrical Certificate of Compliance**

For a low voltage installation if prescribed electrical work has been done on any part of it and the prescribed electrical work involved placing, replacing or repositioning conductors or fittings attached to conductors

ME 82676



ECANZ COC June 2010

No. of attachments:

Name of customer: Cox		/ K 1/ 1e		
	and Inva	from Builders Contac	t Ph No:	
Address of installation: 35	B Kopare	St, Warkanae		
Postal address of customer if di	fferent from above:			
DECLARATION OF CONFORM	WITY (Please tick appropriate	e boxes or attach the Declaration of Confo	rmity from the installation designer)	
I declare that the design of the i	nstallation or part-insta	allation described below complies	with:	
(a) either Part 2 of AS/NZS 300	00:2007 🗹 or Part 1	of AS/NZS 3000:2007 and Regu	lation 59	
(b) and is compatible with the f	following supply system:	230V/400V MEN or other s	system (attached)	
This declaration is issued by:			11	
Name: Jamed	Noger	Date: 20/10/20	71 Signature:	
	/		1	
WORK DETAILS		iate where work includes:		
No. of lighting circuits	Mains	Electrical Lines		
No. of socket outlets	Main earthing sys	_		
No. of fixed appliances	MEN switchboard	closest to the point of supply		
Description of work carried out I	by the installer (or if mul	tiple installers or homeowner ple	ase attach details of work done	(
Cut and Ex	tended Und	ersound main		
		1		
I am satisfied, and certify, that t	he work described was o	done in accordance with the Elec	tricity Act 1992; and that the co	ompleted
The work has been installation of the work has been installed.  The tests as required by the the installation has an earth.  The fittings on which work has installation or part-installation or part-installation.	he work described was on which the work was do in accordance with the Electricity (Safety) Regu hing system that is corre as been done are safe to	one is electrically safe.  design detailed in the Declaration lations 2010 have been satisfacted lations are to a power supply (Support to a power supply (S	n of Conformity described abov orily completed (Results attached	
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# PRODUCER STATEMENT - PS4 - CONSTRUCTION REVIEW

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

ISSUED BY:		Bruce Puller alified Design Professional		
TO:	Mr & Mr	's Ward		
		past District Council ritorial Authority)		
IN RESPECT OF:	Structur (Descrip	al Beams, Reta	ining, pole & concrete walls	
AT:	35b Kot	are Street		
	Waikana	ae , (Address)		
LOT 3	DP 64335		so	
Designscape sharkbait itd (Design Firm)	been engaged by	owner	(Owner/Developer/	Contractor)
to provide structu	ral design and inspection	service	es	
in respect of clause(s) B1, B2	(limited) of the Building F	Regulations 200	4 for the building work descri	bed by the
drawings and specifications pre	epared by Designscape anal	rkburs Ita		
titled Structural Details	and numbered	2690		
Authorised variation(s) No. 2	(copies attached) have	been issued du	ring the course of the	
works. I have sighted Building	Consent No. 110397	and the attache	ed conditions of building cons	sent.
As an independent design profe	essional covered by a curr	rent policy of Pro	ofessional Indemnity Insuran	ce to a minimum
value of \$200,000, I or personn	el under my control have	carried out perio	odic reviews of the work appr	opriate to the
engagement and based upon the	nese reviews and informat	tion supplied by	the contractor during the cou	urse of the works
I BELIEVE ON REASONABLE	GROUNDS that	ll Pa	art only as specified in the att	ached particulars
of the building work under the a	above Building Consent wi	th respect to Cl	ause(s) B1 VM4	of the
Building Regulations 1992 has	been completed to the ext	tent required by	that Building Consent.	
			Validity authentical accordance with K	
My			25 FEB	2013
(Signature suitably qualified Design Pr	rofessional)		Date 18/06/2012 Signature:	
NZCE Rea(Professional Qualifications)			IPENZ Reg No 57930	
			Member CertETn	
298 Rosetta Road Raumati	**********			

### GUIDANCE ON USE OF PRODUCER STATEMENTS

This producer statement has been prepared 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 and the Building Officials Institute of New Zealand.

Four producer statements are available and brief details on the purpose of each are as follows:

Design: Intended for use by the person responsible for the design in circumstances where the Territorial

Authority will rely on the producer statement to issue a Building Consent.

Design Review: Intended for use by a suitably qualified independent design professional where the Territorial

Authority does not undertake an internal review and relies on the independent design

professional's review to issue the Building Consent.

Construction: requires Intended for the use by the contractor of the building works where the Territorial Authority

a producer statement at the completion of construction.

Construction Review: Intended for use by the person required by the Building Consent to undertake construction

monitoring of the building works in circumstances where the Territorial Authority will rely on

the producer statement to issue a Code Compliance Certificate.

The producer statements system is intended to provide Territorial Authorities with reasonable grounds for the issuing of a Building Consent or Code Compliance Certificate without having to duplicate design or construction checking by others.

The following criteria are recommended to Territorial Authorities with respect to the use of the producer statements.

# Definition of Suitably Qualified Design Professional

A suitably qualified design professional should have recognised qualifications and experience for the work undertaken and should be either:

- (i) an active member of the Association of Consulting Engineers New Zealand (ACENZ) or;
- (ii) a member of the Institution of Professional Engineers New Zealand (IPENZ) having a current policy of Professional Indemnity Insurance for a sum not less than \$200,000 or;
- (iii) a member of the New Zealand Institute of Architects (NZIA) having a current policy of Professional Indemnity Insurance for a sum of not less than \$200,000.

# **Design Build Contracts**

If the design professional is engaged by the contractor, the territorial authority should satisfy itself that it is appropriate for the territorial authority to rely upon a producer statement from the design professional.

# Consulting Services during Construction Phase

There are several levels of service which a design professional may provide during the construction phase of a project. The territorial authority is encouraged to require that the service to be provided by the design professional is appropriate for the project concerned.

# Requirement to provide Producer Statement

Territorial Authorities should ensure that the applicant is aware of any circumstances in which there may be a 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 professional's engagement.

# **Attached Particulars**

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

## Warranty & life time statement

aquatherm® fusiotherm® lilac climatherm® firestop

underfloor heating pipe system pressure pipe system for reclaimed water chilled and hot applications sprinkler pipe system

aquatherm GmbH manufacture all pipes and fittings in accordance with the German DIN confirming a 50 year guarantee of service life in accordance with the permissible working pressure / temperature of their technical product manuals. Within the scope of this, aquatherm will supply replacement material pipe and fittings if damages are traceable to materials faults and defects.

#### Liability Warranty

furthermore within the scope of the aquatherm GmbH gives a 10 year guarantee which compensates for material damage to third persons, for investigation, removal, replacement, acceptance, dismounting or laying bare of all defective goods.

aquatherm Gmbh guarantee is conditional on:

- The fusion of joining of pipe and fittings using only aquatherm GmbH welding tools and devices.
- Installation of pipe and fittings are certified aquatherm installers and adherence to aquatherm GmbH technical rules and guidelines for correct installation principles.

#### Limits of Liability

For bodily injury

15.000.000 Euro

For property damage [per occurrence]

15.000.000 Euro

Installation Address:		
35 B Kotare	e Wailcana	е.
Description of Installation	Domestic /	Commercial
Contractor: Andy Magee	Plumbing Ltd	Installers # //60/
Completion Date: 30/10/12		Signature: Plant
This warranty must be fully completed, months of the completion of the project		
8	aquatherm NZ Limited	
	P.O. Box 99 393	
	Newmarket,	
	Auckland 1149	
	9 570 7204 Fax: 09/570 www.aquatherm.co.nz	0 7206

# aquatherm NZ Test record - fusiotherm® - pipe installation principles

Description of	of the Insta	allation
Street Address	35B V	Cotare
Suburb		
City	Warkar	ae
		1
Type of Installation	Domestic	
	Commercial	1
Type of Pipe	fusiotherm®	
	climatherm	
	lilac	
- /	firestop	9/1
V	underfloor	1 1 1
Time testing Starte Time testing finishe	d	30/2/12
Test period (minute		Manh
Client: /IDAM	ward	THOMAS
Contractor: And	ly Magee "	Plunding
Installers #: And	O Da	te:30/10/12
Declaration:		1 1
I declare that I have in accordance with no branding mix		
no branding mix Signature:	101	

aquatherm® NZ limited must recieve this information within 3 months of the installation for the waranty to be valid. Please consult with your local area Council as the may require a copy of the test results for the records.

Preliminary Test

[Testing procedure NZ January 2001] Test pressure - 20 bar:

- 1. Test pressure 20 bar 10 minutes.
- 2. Unpressurise for 1 minute.
- 3. Test pressure 20 bar 5 minutes.
- 4. Unpressurise for 1 minute.
- 5. Test pressure 20 bar for 5 minutes.
- Unpressurise.

#### WARNING

It is imperative to have movement during test period. Tight clips or damaged pipes in frame work will result in an incomplete test which will result in the warranty being invalid.

Result preliminary test:

The test is to be conducted as a continuous test as 20 bar with the five steps noted above.

The system MUST be pressurised THREE TIMES with a minimum rest of one minute between re-pressurising.

If leaking occurs, please replace the part and re start the testing procedure.

The test is complete and acceptable when the above has been undertaken and no leaks are present.

Finally, complete all parts for the test sheet and return a copy to:

#### aquatherm NZ Limited

P.O. Box 99393, Newmarket, Auckland 1149

www.aquatherm.co.nz. Phone: 09 570 7204 Fax: 09 570 7206



### INSTRUCTION AND OR VARIATION TO CONTRACT 2690-01 BC 110397

CONTRACT

: New House

PRINCIPAL

: Tony Ward

DATE

: 24/11/11

**NOTE** this instruction is issued to the builder. It is the builders responsibility to liaise with the client, and to supply a copy to the local authority. If the local authority has a fee demand, then this is the builders responsibility. Designscape takes no liability for advising council, or any cost attached to the variation or instruction,

#### INSTRUCTION

Type instructions here

Owner has selected cavity slider doors in 3 locations. This has changed the bracing to line C1 and P2 (combined), and also to line N2 with reduction in wall length. Attached is plan showing altered brace layout to these lines.



### INSTRUCTION AND OR VARIATION TO CONTRACT 2690-02 BC 110397

CONTRACT : New House

PRINCIPAL : Tony Ward

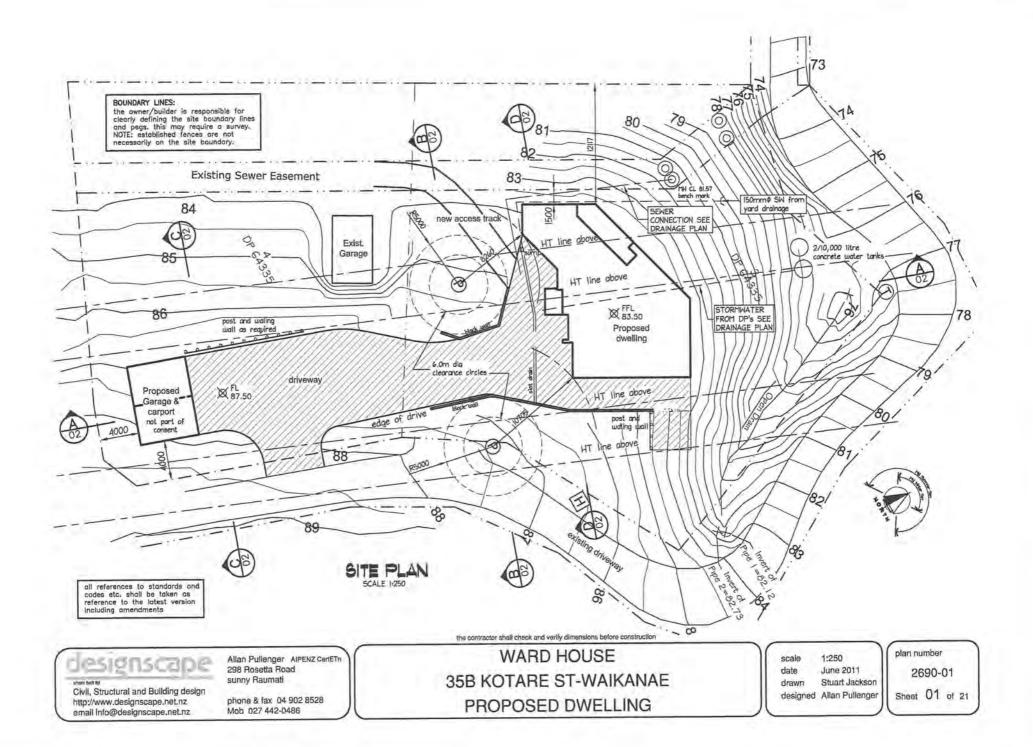
DATE : 27/02/12

**NOTE** this instruction is issued to the builder. It is the builders responsibility to liaise with the client, and to supply a copy to the local authority. If the local authority has a fee demand, then this is the builders responsibility. Designscape takes no liability for advising council, or any cost attached to the variation or instruction,

#### INSTRUCTION

Type instructions here

Altered bracing to ensuite, bathroom and entry. Attached plan and updated calculations.





# INSTRUCTION AND OR VARIATION TO CONTRACT 2690-01 BC 110397

CONTRACT : New House

PRINCIPAL : Tony Ward

DATE : 24/11/11

 ${f NOTE}$  this instruction is issued to the builder. It is the builders responsibility to liaise with the client, and to supply a copy to the local authority. If the local authority has a fee demand, then this is the builders responsibility. Designecape takes no liability for advising council, or any cost attached to the variation or instruction,

#### INSTRUCTION

Type instructions here

Owner has selected cavity slider doors in 3 locations. This has changed the bracing to line C1 and P2 (combined), and also to line N2 with reduction in wall length. Attached is plan showing altered brace layout to these lines.

## GIB® EzyBrace<sup>™</sup> FP for GIB® EzyBrace<sup>™</sup> Systems, 2009



Braci	ing Line		В	racina Elem	nents provid	led		Wind	Earthq
-1	2	3	4	6	5	7	8	9W	10EQ
Line Label	Minimum BUs Req/Ach	Bracing Element No.	Available Wall Length L (m)	Angle to Bracing line (degrees)	Element Height H (m)	Bracing Type	Supplier	BUs Achieved	BUs Achieved
M	enter	1	0.8		2.4	BL1(10)	GIB®	102	89
	not enough	2	0.9		2.4	BL1(10)	GIB®	116	99
line totals		3				15.15			
W	218	4							
EQ	187	5			3000	1277.77			
N	enter	1	0.9		2.4	BL1(10)	GIB®	116	99
	not enough	2	1.1		2.4	BL1(10)	GIB®	144	118
line totals		3	1.6		2.4	BL1(10)	GIB®	219	163
W	546	4	-1-		2.4	GS1(10)	GIB®	68	55
EQ	435	5				· ·		-	
0	enter	- 1	1.5		2.4	BL1(10)	GIB®	203	155
-	not enough	2	0.69		2.4	BL1(10)	GIB®	87	77
line totals		3						-	
W	291	4					1		
EQ	232	5				-			
P	enter	1	1.3		2.4	BL1(10)	GIB®	173	137
	not enough	2	2.2		2.4	BL1(10)	GIB®	306	220
line totals		3							
w	479	4							
EQ	357	5	-						
Q	enter	1				-			
		2							
line totals		3							
W		4							
EQ		5							
R	enter	1							
		2						1	
line totals		3							
W		4						1	1
EQ		5							
S	enter	1						1	1
		2							1
line totals		3		_					1
W		4							
EQ		5							1
T	enter	1						1	
	1	2						1	
line totals		3							
W totals		4						1	1
EQ	1	5				<b></b>		†	1
	Wallboards L		2-2009 All rio	hts reserved				Wind	Earthq
Totals Act		Achieved/I		W	101%	EQ	439%	1534	1212
Concrete		Actileved/	Demand	_ VV	10176	EU	40576		
		Demand)						1521	276

## GIB® EzyBrace<sup>™</sup> FP for GIB® EzyBrace<sup>™</sup> Systems, 2009



Across									
Bracin	ng Line		В	racing Elem	ents provid	led		Wind	Earthq
_1	2	3	4	6	5	7	8	9W	10EQ
Line Label	Minimum BUs Req/Ach	Bracing Element No.	Available Wall Length L (m)	Angle to Bracing line (degrees)	Element Height H (m)	Bracing Type	Supplier	BUs Achieved	BUs Achieved
M	enter	1	0.8	45	2.4	BLG	GIB®	83	76
	not enough	2	1.2	45	2.4	BL1(10)	GIB®	112	90
line totals		3	1.2	45	2.4	BL1(10)	GIB®	112	90
W	307	4							
EQ	257	5							
N	enter	1	2		2.4	BLG	GIB®	300	270
	not enough	2	0.8	45	2.4	BLG	GIB®	83	76
line totals		3							
W	383	4							
EQ	346	5							
0	enter	1	2.4	45	2.4	BLG	GIB®	255	229
	not enough	2	1.4		2.4	BL1(10)	GIB®	188	146
line totals		3			-				
W	443	4							
EQ	375	5			-				1
P	enter	- 1	1.6	45	2.4	BLG	GIB®	170	153
	not enough	2	1.2		2.4	BLG	GIB®	180	162
line totals		3	0.8		2.4	BLG	GIB®	117	108
w	561	4	0.9	45	2.4	BLG -	GIB®	94	86
EQ	509	5							
Q	enter	1			1				
		2							
line totals		3							
W		4	-						
EQ		5							
R	enter	1	6 - 1						
		2				E = 1		1	
line totals		3							
W		4	1.0						
EQ		5							
S	enter	.1.							
		2							
line totals	-	3							
W		4							
EQ		5							
T	enter	1							
		2							
line totals		3							
W totals	-	4							
EQ		5							
	Wallboards L		-2009 All rigi	hts reserved			l.	Wind	Earthq
Totals Ach		Achieved/I		W W	100%	EQ	398%	1694	1487
Concrete S		ACTION GU/L	Jonalu	V V	10076	LU	03076		
ONICIBIE S	Jiau	Demand)						OK	374



### INSTRUCTION AND OR VARIATION TO CONTRACT 2690-02 BC 110397

CONTRACT : New House

PRINCIPAL : Tony Ward

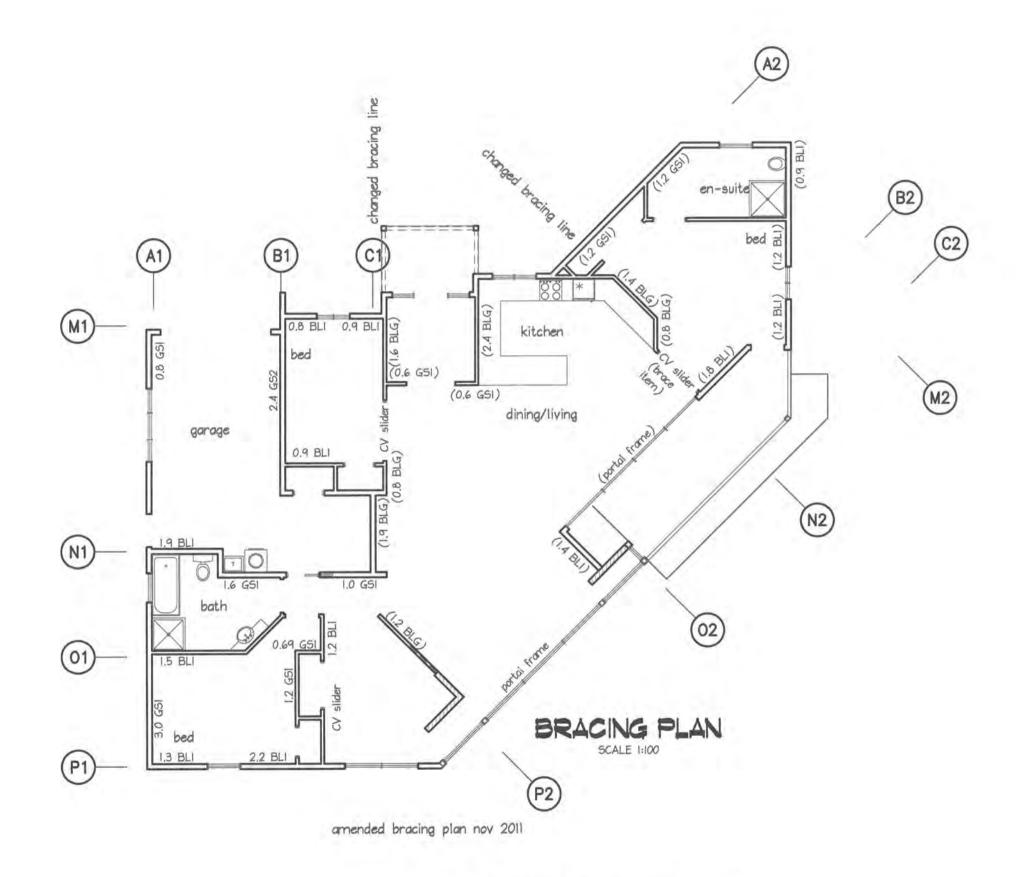
DATE : 27/02/12

 ${f NOTE}$  this instruction is issued to the builder. It is the builders responsibility to liaise with the client, and to supply a copy to the local authority. If the local authority has a fee demand, then this is the builders responsibility. Designscape takes no liability for advising council, or any cost attached to the variation or instruction,

#### INSTRUCTION

Type instructions here

Altered bracing to ensuite, bathroom and entry. Attached plan and updated calculations.



Civil, Structural and Building design http://www.designscape.net.nz email info@designscape.net.nz

Allan Pullenger AIPENZ CertETn 298 Rosetta Road sunny Raumati

phone & fax 04 902 8528 Mob 027 442-0486

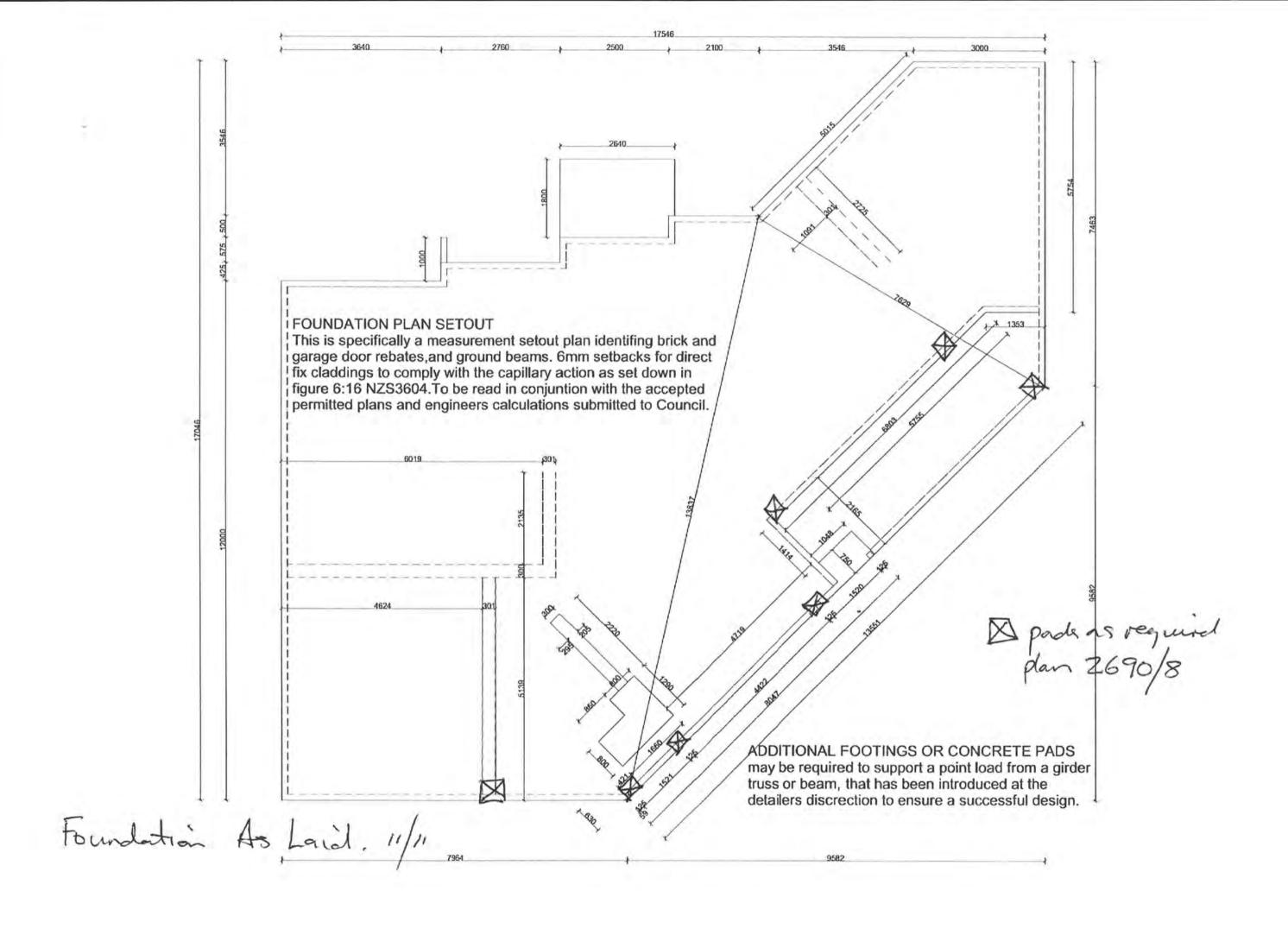
the contractor shall check and verify dimensions before construction

## WARD HOUSE 35B KOTARE ST-WAIKANAE PROPOSED DWELLING

1:100 scale

date June 2011 drawn Stuart Jackson designed Allan Pullenger plan number 2690-01

Sheet 19 of 21



designscape tel 902 8528 or shoe 027 442 0486 email allan@aesignatape.net.nz

## INSPECTION SHEET

JOB NUMBER : 2690	BC: 110397
CLIENT : Tony Ward	DATE: 10/11/11
LOCATION : 35h Kofare Street	11
CLIENT : Tony Ward  LOCATION : 35 b Kofare Street  CONTRACTOR: Cox e Sweetman	CONTACT: Bryan
INSPECTOR : 🗹 Allan 🗆 Stua	art Peter
WEATHER : NUMBER WORKMAN ON SITE :	
INSPECTION : Base check Base stee	el 🗆 Stem steel 🗆 Compaction
☐ Structural Steel ☐ Piling ☐ other	
Verbal Instructions given (if any):	Confirmed in writing
General Comments: Cleck base Steel to Slab, and	d first section retaining was
by house	11115 11
Base Slab has Ribrastpods	instead of somm polystrene.
Bosse Slab has Ribrast pods Ground beams changed by pren Clerked Stel. Needs extrer roo	Is under Heckening for pads +
heavenes.	
Charlested to bose of 3m his	ish wall. All correct.
Okto pour.	
This report does not constitute a PS4, but forms a basis	on which it may be issued.
Faxed	Charged



### INSTRUCTION AND OR VARIATION TO CONTRACT 2690-01 BC 110397

CONTRACT : New House

PRINCIPAL : Tony Ward

DATE : 24/11/11

**NOTE** this instruction is issued to the builder. It is the builders responsibility to llaise with the client, and to supply a copy to the local authority. If the local authority has a fee demand, then this is the builders responsibility. Designscape takes no liability for advising council, or any cost attached to the variation or instruction.

#### INSTRUCTION

Type instructions here

Owner has selected cavity slider doors in 3 locations. This has changed the bracing to line C1 and P2 (combined), and also to line N2 with reduction in wall length.

Attached is plan showing altered brace layout to these lines.

### Ward House 35b Kotare Street

### Bracing change assement

Line P2	wind	seismic
Total unts required	381	347
Line C1	249	545
Total units for this brace lin	ne 630	892
Achived by		
1.2 BL1		
1.8 BLg		
.8 BLG		
1.6 BLG		
Achieved	786	695
Brace line N2		
Change the 2 BLG required	300	270
1.4 BLG	210	189
CV Slider	114	99
Achieved	324	288

So Ok

## GIB® EzyBrace<sup>TM</sup> FP for GIB® EzyBrace<sup>TM</sup> Systems, 2009



Across			tion Shee			Upper Walls			
	ng Line		В	racing Elem	ents provid	led		Wind	Earthq.
1	2	3	4	6	5	7	8	9W	10EQ
ine Label	Minimum BUs Req/Ach	Bracing Element No.	Available Wall Length L (m)	Angle to Bracing line (degrees)	Element Height H (m)	Bracing Type	Supplier	BUs Achieved	BUs Achieved
М	enter	1	0.8		2.4	BL1(10)	GIB®	102	89
	not enough	2	0.9		2.4	BL1(10)	GIB®	116	99
line totals		3							
W	218	4	12						
EQ	187	5	£						
N	enter	1	0.9		2.4	BL1(10)	GIB®	116	99
	not enough	2	1.1		2.4	BL1(10)	GIB®	144	118
line totals		3	1.6		2.4	BL1(10)	GIB®	219	163
W	546	4	1		2.4	GS1(10)	GIB®	68	55
EQ	435	5			20,	3.2.()			
0	enter	1	1.5		2.4	BL1(10)	GIB®	203	155
	not enough	2	0.69		2.4	BL1(10)	GIB®	87	77
line totals	not enough	3	0.00		5.7	2=1(10)	3,00	1	1
W	291	4							
EQ	232	5							
P	enter	1	1.3		2.4	BL1(10)	GIB®	173	137
			2.2		2.4	BL1(10)	GIB®	306	220
in a comme	not enough	3	2.2		2.4	BL1(10)	GIDU	300	220
line totals	1		-	_	-				1
W	479		-	-	-	-		+	+
EQ	357	5							-
Q	enter	-1-						-	-
		2							
line totals		3	-						
W		4							
EQ		5							
R	enter	1							
		2							
line totals		3							
W		4	-						
EQ		5				-			
S	enter	1							
		2							-
line totals		3							
W		4	200				-		
EQ		5						-	
T	enter	111		1					
		2							1.4
line totals		3							
W		4			1 1 1 1				
EQ		5							
©Winstone	Wallboards L	imited, 1999	9-2009. All rig	hts reserved				Wind	Earthq
Totals Ach		Achieved/		W	101%	EQ	439%	1534	1212
Concrete :								ОК	ОК
	quired (from	Damaad						1521	276

## GIB® EzyBrace<sup>TM</sup> FP for GIB® EzyBrace<sup>TM</sup> Systems, 2009



Across			tion Shee			Upper Wall	-		Page 1.1
	ng Line		В	racing Elem	ents provid	led		Wind	Earthq.
1	2	3	4	6	5	7	8	9W	10EQ
Line Label	Minimum BUs Req/Ach	Bracing Element No.	Available Wall Length L (m)	Angle to Bracing line (degrees)	Element Height H (m)	Bracing Type	Supplier	BUs Achieved	BUs Achieved
M	enter	1	0.8	45	2.4	BLG	GIB®	83	76
	not enough	2	1.2	45	2.4	BL1(10)	GIB®	112	90
line totals	1	3	1.2	45	2.4	BL1(10)	GIB®	112	90
W	307	4							
EQ	257	5				W. 184			
N	enter	1 -	2		2.4	BLG	GIB®	300	270
	not enough	2	0.8	45	2.4	BLG	GIB®	83	76
line totals		3							
W	383	4							
EQ	346	5							
0	enter	1	2.4	45	2.4	BLG	GIB®	255	229
	not enough	2	1.4		2.4	BL1(10)	GIB®	188	146
line totals		3							
W	443	4							
EQ	375	5							
P	enter	1	1.6	45	2.4	BLG	GIB®	170	153
	not enough	2	1.2		2.4	BLG	GIB®	180	162
line totals		3	0.8		2.4	BLG	GIB®	117	108
W	561	4	0.9	45	2.4	BLG	GIB®	94	86
EQ	509	5	-				55		
Q	enter	1							
		2							1
line totals		3							1
W		4							
EQ		5						1	1
R	enter	1	-					1	_
	O'ILO	2	1						1
liwa katala		3							1
line totals	-	4	-			-		+	+
W EQ		5							1
S	enter	1				-			+
	enter	2	-			-		-	+
line totals		3							1
W		4							
EQ		5						1	1
T	enter	1				-			
		2							1
line totals		3						1	
W totals	1	4							
EQ		5	1		-		_	1	
	Wallboards L		2.2000 411 ===	hte recoved				Wind	Earthq.
Totals Ach		Achieved/		W W	100%	EQ	398%	1694	1487
Concrete		Achieved/	Demand	VV	100%	EQ	390%		0K
Concrete	SIAD							OK	374

## GIB® EzyBrace<sup>TM</sup> FP for GIB® EzyBrace<sup>TM</sup> Systems, 2009



Along	1-5								
	ng Line			racing Elem				Wind	Earthq.
1	2	3 Presing	4 Available	6 Angle to	5 Element	7 Bracing Type	8 Supplier	9W BUs	10EQ BUs
ine Label	Minimum BUs Req/Ach	Bracing Element No.	Wall Length L (m)	Bracing line (degrees)	Height H (m)	bracing Type	Supplier	Achieved	Achieved
A	enter	- 1	1.2		2.4	GS1(10)	GIB®	83	66
	not enough	2			2.4	GS2(10)	GIB®		
ine totals		3	0.6	45	2.4	GS1(10)	GIB®	27	23
W	138	4	0.6	45	2.4	GS1(10)	GIB®	27	23
EQ	113	5							
В	enter	1	1.8		2.4	BL1(10)	GIB®	250	180
	not enough	2	1.5		2.4	GS1(10)	GIB®	104	83
ine totals		3							
W	354	4							
EQ	263	5							
C	enter	1	1		2.4	portal	Steel	170	170
	not enough	2							
line totals		- 3							
W	170	4							
EQ	170	5							
D	enter	1							
		2				-			
line totals		3							
W		4	1						
EQ		5							
E	enter	1							
	5.115	2							
line totals		3	1						
W		4							
EQ.		5	1						
F	enter	1				1			
	OTHO!	2							
line totals		3							
W		4				-			
EQ		5						7	
G	enter	1							
	Union	2	1					1	1
line totale		3							
line totals W		4							
EQ		5							
H	enter	1	1						
	Onto	2							
line tetals		3							
line totals	-							1	
W		5		1		1		1	
EQ	NA IA/allbaaada		0 2000 All =1	ahte recenses	1			Wind	Eartho
	e Wallboards	Achieved/		W W	101%	EQ	146%	661	545
Totals Ac		Achieved	Demand	VV	10176	EU	140 %		0K
Concrete		Demand)						658	374

## designscape

sharkdar no

298 rosetta road telephone 04 902 8528 allan pullenger rea alipenz

Mr & Mrs Ward LINTELS AND BEAMS

Job 2690

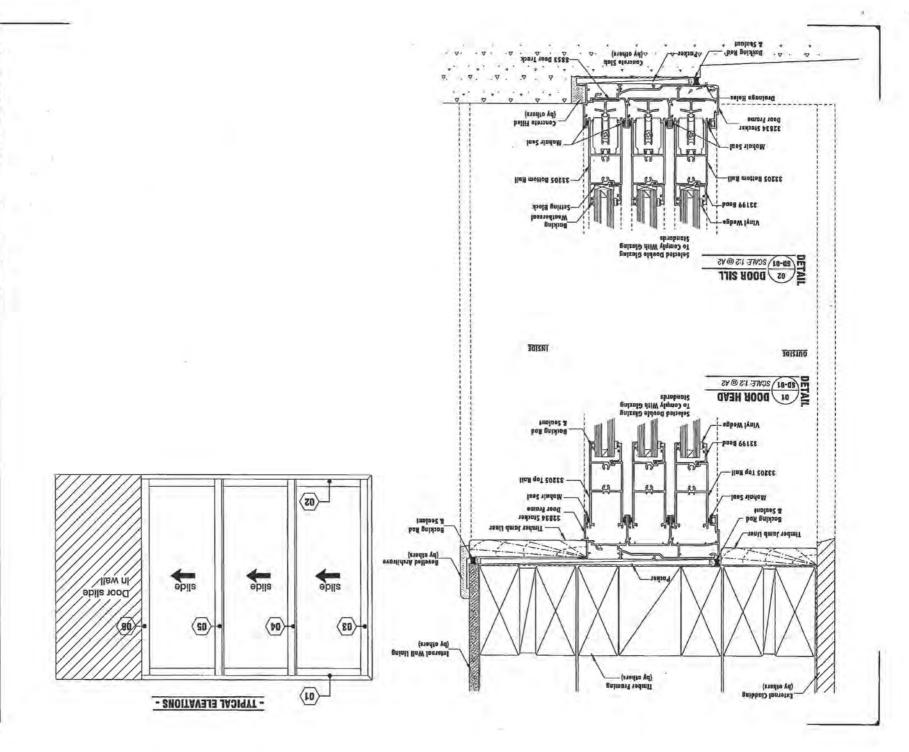
DATE

11/08/2011

BEAM NUMBER		Tank Stand joists	8
LOADING			
Span	L =	0.9	m
Load width (water)		0.45	0.9 m
Load LL + DL		6.10	kpa
Load per metre	w =	2.745	kn/m
BENDING MOMENT			
$BM = WL^2/8 \qquad \qquad M =$		0.28	knm
BEAM SIZE		90 x 45 Timber	
Depth	D =	0.09	m
Width	W =	0.045	m
STRESS			
Fw = MY/I	Y=	0.045	m
$I = BD^3/12$	1)=	2.73375E-06	m <sup>4</sup>
	Fw	4609	kpa
DEFLECTION			
E		8000000	
Deflection is 5WL4 /384EI		0.001	m
Allowable L/360		0.003	m
REACTION			
End Reaction is LxW/2		1.24	KN

<b>BEAM NUMBER</b>	Tai	nk Stand bearer	9
LOADING			
Span	Le	0.9	m
Load width (water	r)	0.45	0.9 m
Load LL + DL		6.10	kpa
Load per metre	w =	2.745	kn/m
<b>BENDING MOME</b>	ENT		
$BM = WL^2/8$	M=	0.28	knm
BEAM SIZE	90	x 45 Timber	

Depth	D =	0.09	m
Width	W =	0.045	m
STRESS			
Fw = MY/I	Y=	0.045	m
$I = BD^3/12$	1=	2.73375E-06	m <sup>4</sup>
	Fw	4609	kpa
DEFLECTION			14.0
E		8000000	
Deflection is 5WL⁴ /384EI		0.001	m
Allowable L/360		0.003	m
REACTION			
End Reaction is LxW/2		2.47	KN
PAD AREA TO ENDS			
Load 1		2.47	kn
Footing Size at 100 kpa		0.037	m <sup>2</sup>
Each side		0.19	m
Use 190 mm square sides	6-	4.14	



20 fo 10 Sheet Kumber: 10 - QS Drawing Mumber: S.R. resil fenigino) :olso2] 11/10/20 SXX Date: :#stet0 BOOR SUITE HETALLATION DETAILS: ROYALTY STACKER SLIDING :attil galward

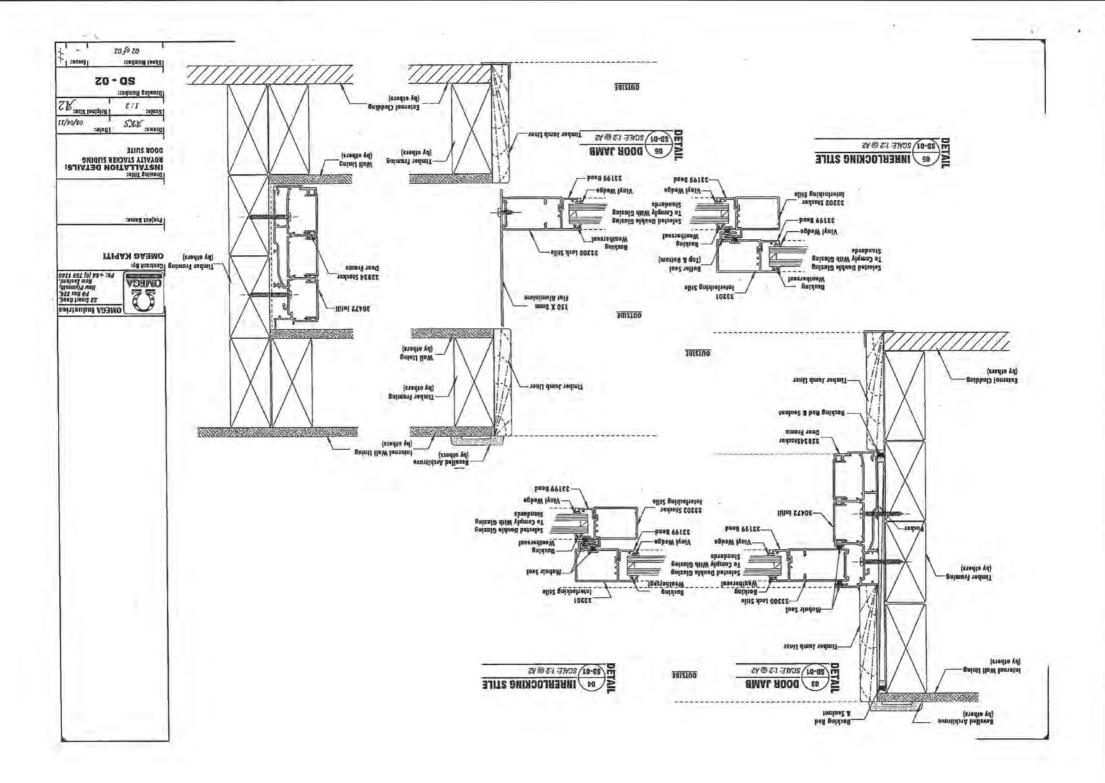
Freject Kame:

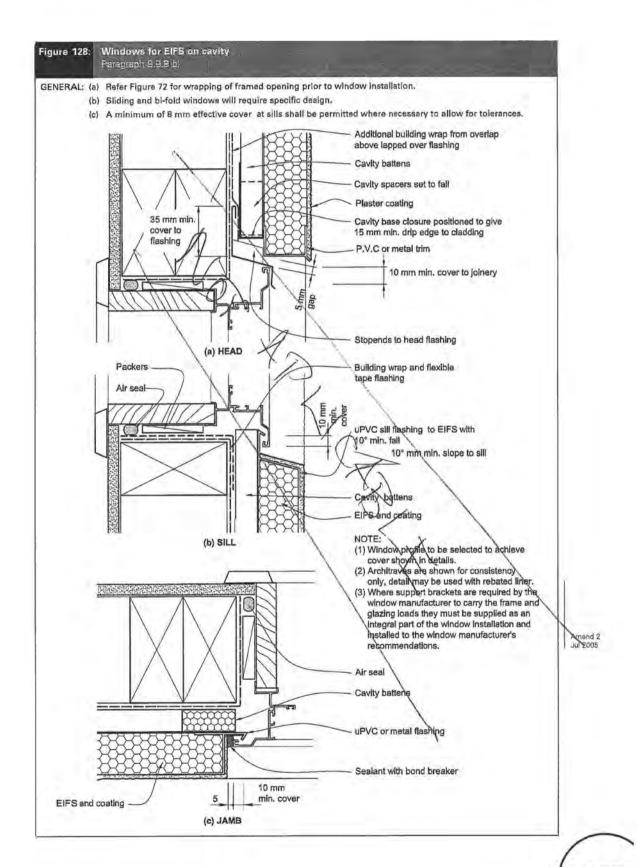
ITITAN DABMO Contract By:

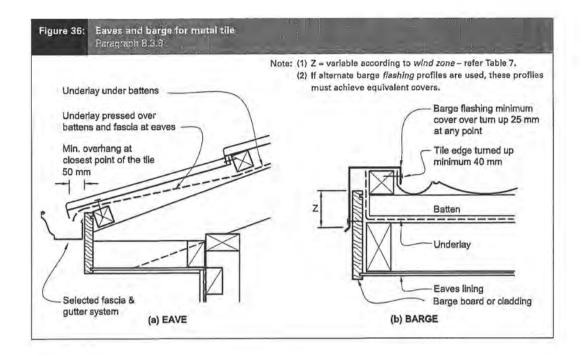
OWEGY U

Jacon Inside S.S. Po Bar 2280, John Plymouth, Wow Zestend, Opyt 227 (8) 88+ :49.

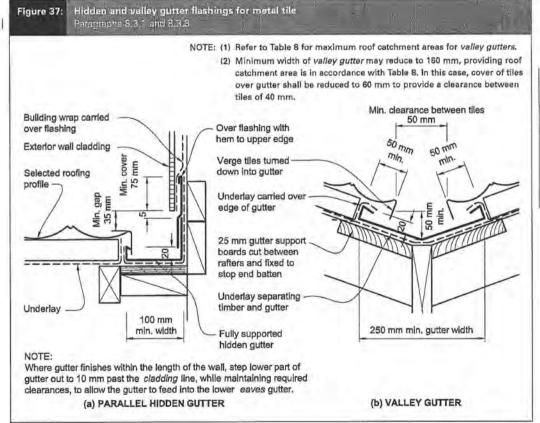
OMEGA Industries







Amend 2 Jul 2005

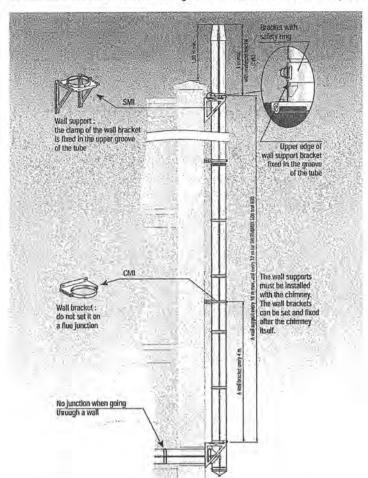


Amend 2 Jul 2005

#### Multi-fuel chimneys, twin wall, mineral wool or air gap insulation Therminox

Therminox TI and ZI flues are suitable for the evacuation of fumes from any gas, oil, wood and coal-fired atmospheric appliances. With seal they can also be used under positive pressure.

Incorporating a 30 mm thick insulation of high-density pressure injected mineral fibre, these twin wall stainless steel or stainless/aluzinc+ steel chimneys are now CE marked in compliance with EN 1856-1.



#### For gas boilers, we also offer :

- · Therminox TR.
- · Therminox ZR,

where the insulation is ensured by an air gap between the walls.

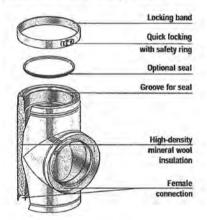
#### External appearance :

- · RAL colour finishes available.
- Non overlapping locking band integrated in the diameter.

#### Safety:

· Stainless steel 316L inner wall.

#### Detailed sketch of the product



2004 the European Standard EN 1856-1 "Requirements for metal chimneys, Part 1: System chimney products" was published. The table below shows the designations of the Therminox range, according to this standard. Do not hesitate to contact us if you have any questions about this standard. CHIMNEY EN 1856-1: Cert. 0071-CPD-0011 (TI/ZI) and 0012 (TR/ZR).

	Normal operating temperature	Pressure level	Resistance to condensate	Corrosion resistance	Inner wall	Thermal performance
0071		N1 : negative pressure P1 : positive pressure (up to 200 Pa)	W = wet (condensation)	Inner wall material V2L50 = Mat. Nr 1.4404 (AISI 316L) VmL20 = Mat. Nr 1.4301 (AISI 304)	0.4 mm	G: sootfire resistant Distance to combustible mat. 50 mm min. O: not for sootfire resistant use Distance to combustible mat. 20 mm min.
TI/ZI without seal	450 °C	N1	W	V2L50	040	G 50
TI/ZI without seal	250 °C	N1	W	V2L50	040	O 20*
TI/ZI with seal	250 °C	P1	W	V2L50	040	O 20
TR/ZR without seal	160 °C	N1	W	VmL20	040	O 20*
TR/ZR with seal	160 °C	P1	W.	VmL20	040	O 20

<sup>\*</sup> For horizontal use with condensates, even for negative pressure chimneys, use the silicone lip seal.





298 rosetta road raumati

00(26

#### FOUNDATION SOIL : 35b KOTARE STREET

The soil is clay soil, soft for about 700mm, then good ground as defined in NZS 3604.

The profile is the section is on the side of a hill, with a sealed access above the site channelling the surface water away. The site will be cut to form a level platform, and involves s small area of soft ground to be removed, and replaced with site fill (compacted).

The cut faces are being retained with engineered retaining walls. The walls effectively cut any subsurface water to the building platform, and this water is caught in the subsoil drains.

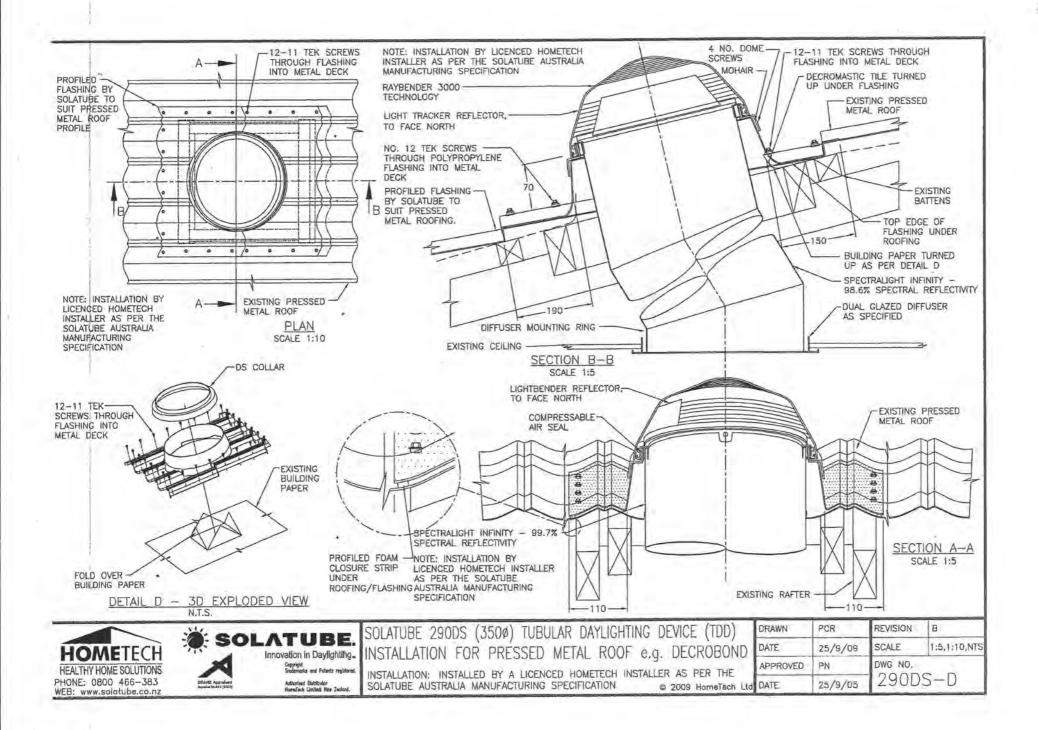
Fill and slab construction is under the control of the engineer.

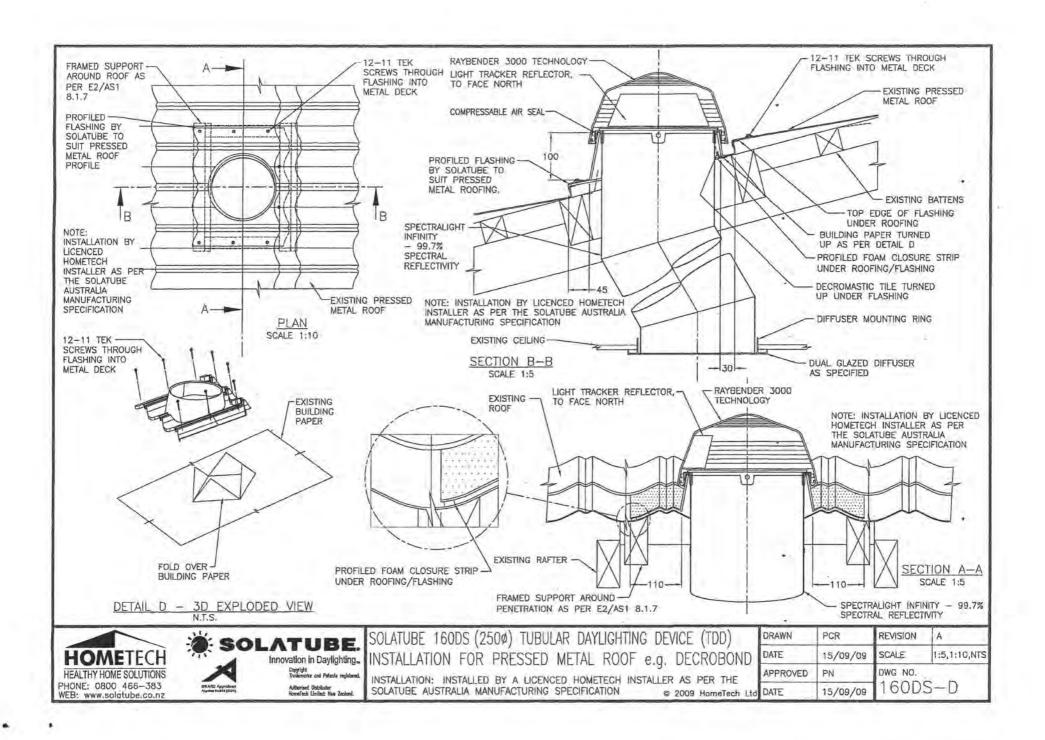
			RISK MATRIX	SUMMARY				
Client: Address: Job #	Ward house 35B Kotare St 2690-01		see plans for loc	ation of elevati	ons		Designscape 298 Rosetta Rd Phone 04-902-852	28
	Elevation 1		Elevation 2		Elevation 3		Elevation 4	
Wind Zone per NZS 3604	very high	2	very high	2	very high	2	very high	2
Number of Storeys	low	0	low	0	low	0	low	0
Roof/wall Intersection	low	0	low	0	low	0	low	0
Eaves width	high	3	high	3	high	3	high	3
Envelope complexity	medium	1	medium	1	medium	Ť	medium	1
Deck design	low	0	low	0	low	0	low	0
TOTALS		6		6		6		6
Cladding 1	EIFS	•	EIFS	4.	EIFS		EIFS	
Fixing 1	Direct fixed		Direct fixed		Direct fixed		Direct fixed	
Cladding 2 Fixing 2	Not applicable  Not applicable	•	Not applicable	15	Not applicable  Not applicable		Not applicable  Not applicable	1 (2

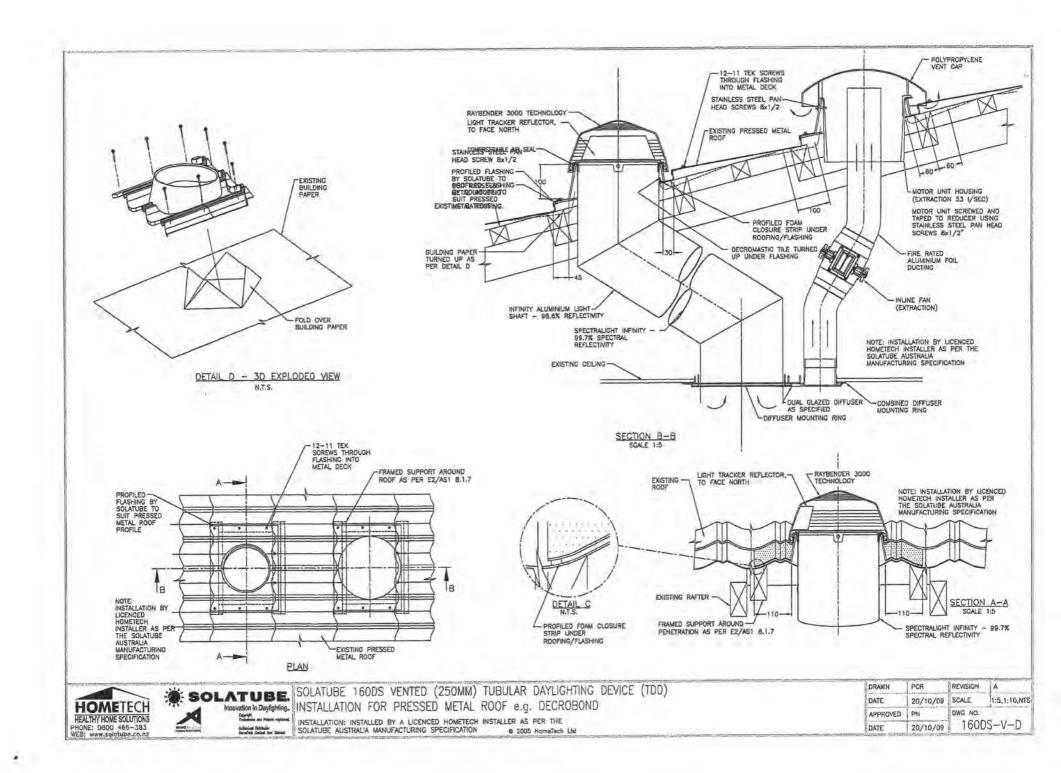
although direct fixed is shown ok cladding will be on cavity as per manufactures specifications



000023



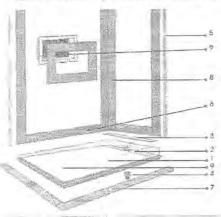








#### Linea Quattro™ | essential structure and connections



- Shower base
- Channel drain
- Stainless steel drain cover
- Waste outlet (40mm / 50mm)
- Glazing channels
- Base to wall reinforcement band
- Base to floor reinforcement band
- 8. Corner connection band
- (Optional) EasyNiche accessory
- 10. Fully frameless screen (& hardware)
- 11. (Optional) Atlantis self-adhesive sheet membrane for the full shower wall area.

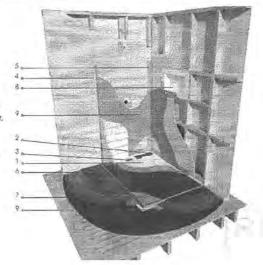
#### Waterproofing

The 100% waterproof Atlantis shower base and connections are compliant with the requirements

of the New Zealand Building Code.

The shower system is compatible with any compliant waterproofing membrane used on the walls and for the rest of the bathroom floor.

- 1. Shower base
- 2. Channel drain and stainless steel cover
- Waste outlet
- 4. Glazing channels
- 5. Corner reinforcement band
- 6. Reinforcement band connections
- 7. Adhesion layer
- 8. (Optional) EasyNiche accessory
- 9. Liquid waterproofing (by others).



- Structurally solid pre-formed base made of tarrimated GPP rnaterial - already 100% waterproof.
- \* Ready-to-file gisloopt surface accepts a wide range of (specified) cement-based tile adhesives.
- . No structural alterations to (timber) floce required (where fall side it less than 1600mm)
- . Base support structure for level placement on floor or bedding into a concrete sturry
- . Can also be installed to achieve law-step entry on any existing
- · Minimum 70mm high upstand for secure connection to wall memorane.
- Factory-fitted glass receiver channels on base
- . Guaranteed fall (1:80) to waste.
- Single plane to channel drain surface accepts lies up to 12mm thick (standard).
- Thicker this can be accommodated by special request
- Base underside adhesive supplied (for flying to floor).
- Weight: lokg/mi.

#### CHANNEL DRAIN & WASTE

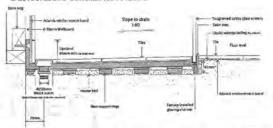
- Integral channel drain located at side (for 2 and 3th walled) showers) and at side or back (for 3 walled)showers.
- 40mm direct flow vertical waste outlet.
- . Maximum flow rate 40 litres per minute.
- Stainless steel drain in optional palished (standard) or brushed finish.

#### WATERPROOFING

ESSENTIAL (Standard): Altaritis self-adhesive reinforcement band is supplied for internal porner(s), floor and wall connection.

- Compatible with any compliant liquid waterproofing memoranes. FULL MEMBRANE: Atlantis self-adhedive AFM-WM sheet membrane for shower wall can be supplied as an upgrade aption.
- Optimum controlled 1mm thickness.
- · Applied membrane immediately ready for timp
- Building Code compliant (AS 3740-2004). (BRANZ appraisa) certificate on request).
- 16-year product durability warranty.

#### BASE PROFILE INTO CONCRETE FLOOR RECESS



Specifications subject to change without notice. Please check www.allantis.net.nz for latest version.

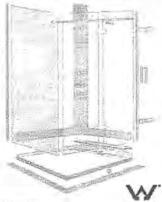
#### PRECISION-FIT NAKED FRAMELESS SCREENS

- 8mm to ghened safety glass screens.
- Hinged door option complete with chrome/stainless steel handles, solid brass hinges and fixing materials.
- Sliding door option complete with stainless steel handles, roller assemblies and installation materials.
- Walk-in fixed panel options available in most sizes.
- \* Satin anodized wall glass receiver channels incorporate mechanical glass looking system and are machined to look with base changels.
- High strength aluminium top roll brace at 2000/mm high. above logse.
- Screens supplied at 2120mm overall neight.
- 5-year durability warranty (screens).
- Supplied with crisicizate glass cleaner and surface protector (for after-purchase application)

#### EASYNICHEM PRODUCT SHELF

- . One-piece unit made of GRP composite.
- Already 100% waterproof
- Fits into 90 nm wall cavity.
- Available in 10 sizes including footrest
- Supplied with self-adhesive reinforcement band for connection to well
- · Compatible with all wet area beards
- 25-year product warranty.

abstration of 2-wated shower showing Linea Quatity." Draw and rully proloted HZ screens (tanged abor) potton



www.atlantis.net.nz 43

00022



### MCX

# PUMPING SUPPLIES & INSTALLATIONS LTD 461 Jackson St, Petone Wellington 5012 T: 04 568 7482 F: 04 568 4860

#### MULTISTAGE CENTRIFUGAL PUMPS

The MCX series horizontal multistage centrifugal pumps offer the following benefits:

High hydraulic pressure and flow rate performance Minimum electrical energy consumption Extremely silent operation



### **Applications**

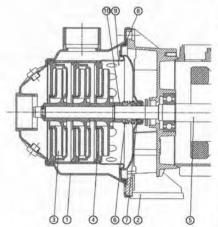
- Pumping and distribution of water in domestic systems
- Booster systems
- Firefighting systems
- Washing systems, irrigation

### **Usage limitations**

- Type of liquid: clean water with no suspended solids or abrasive material
- Maximum liquid temperature 50°C Maximum recommended suction height 6 m with foot valve Maximum operating pressure 7 bar

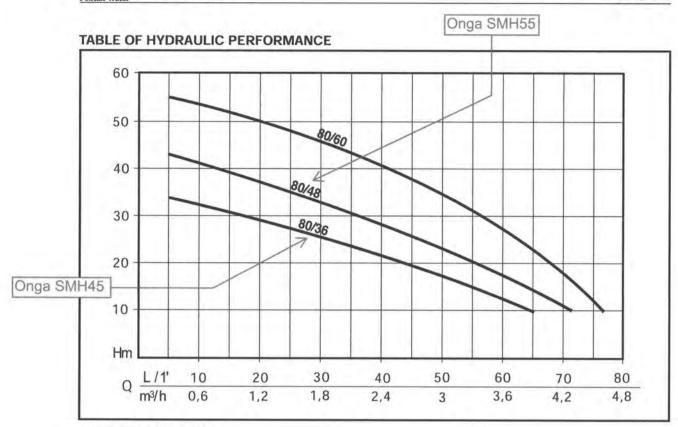
#### Motor

- Enclosed, externally ventilated
   Level of protection IP 44
   Class F insulation
   Single phase power supply with capacitor permanently activated and thermal protection built into the motor winding winding
- Three phase power supply with external protection provided by the
- Speed of rotation 2850 rpm
- Suitable for continuous use



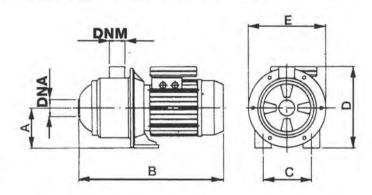
#### **DESIGN FEATURES**

	Component	Material
1	Pump casing	X5 CrNi 1810 (AISI 304) Stainless steel
2	Motor bracket	Die-cast aluminium
3	Impeller	Technopolymer with X5 CrNi 1810 (AISI 304) stainless steel shim ring
4	Diffusors	Technopolymer
5	Shaft (hydraulic end)	X5 CrNi 1810 (AISI 304) Stainless steel
6	Mechanical seal	Graphite
7	Counterface	Ceramic
8	O'ring	NBR 70 shore
9	Seal holder plate	GNF 2V Noryl (stainless steel on 200 Lt version)
10	Spacer (on 200 Lt)	X10 CrNiS 1809 (AISI 303) Stainless steel



#### **PUMP PERFORMANCE**

CODE	MODEL	Nom Pov		Abso		VOLTAGE	Amp.	μF.	L/1	0	20	40	60	80
CODE	MODEL	HP	kW	HP	kW	VOLINGE	Amp.	μr.	m <sup>3</sup> /	0	1,2	2,4	3,6	4,8
	MCX 80/36 M MCX 80/36 T	0,6	0,45	0,8	0,6	1 ~ 230 V 3 ~ 230 ÷ 400 V	2,9 2-1,2	12,5	head	35	28	21	13	0,5
	MCX 80/48 M MCX 80/48 T	0,75	0,55	1,1	0,8	1 ~ 230 V 3 ~ 230 ÷ 400 V	4 2,6-1,5	12,5	nete	45	36	28	17	1,
	MCX 80/60 M MCX 80/60 T	1	0,75	1,3	1	1 ~ 230 V 3 ~ 230 ÷ 400 V	4,8 2,9-1,7	16	Disch	57	50	40	27	3

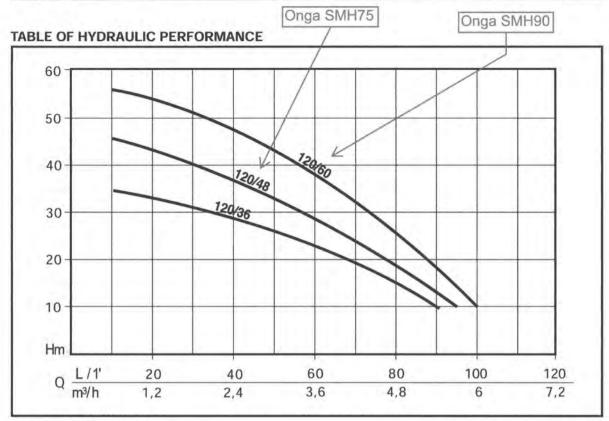


#### **TABLE OF SIZES AND WEIGHTS**

Model		Dimensions mm.									
	A	В	С	D	E	DNA	DNM	kg			
MCX 80/36	90	296	99	190	174	1"	1."	6			
MCX 80/48	90	318	99	190	174	1"	1"	7			
MCX 80/60	90	360	99	195	174	1"	1"	8			

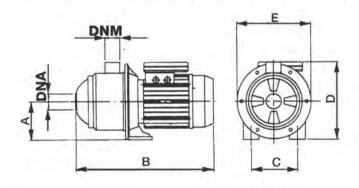






#### **PUMP PERFORMANCE**

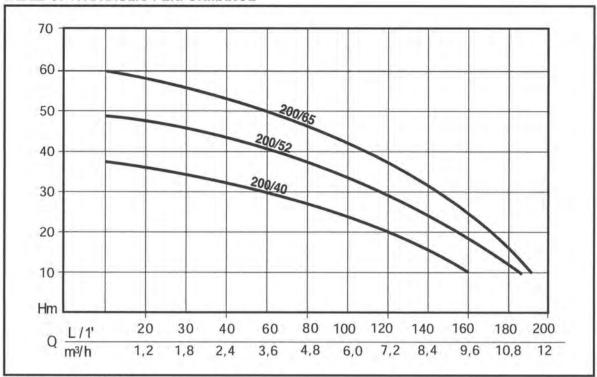
CODE	MODEL		ninal wer		orbed wer	VOLTAGE		-	L/1	0	20	40	60	80	100
CODE	MODEL	HP	kW	HP	kW	VOLTAGE	Amp.	μF.	m <sup>3</sup> /	0	1,2	2,4	3,6	4,8	6
	MCX 120/36 M MCX 120/36 T	0,75	0,55	1,1	0,8	1 ~ 230 V 3 ~ 230 ÷ 400 V	3,5 2,9-1,7	12,5	head	36	33	28	22	14	4
	MCX 120/48 M MCX 120/48 T	1	0,75	1,5	1,1	1 - 230 V 3 - 230 ÷ 400 V	4,6 3,6-2,1	16	charge h	48	42	37	27	18	5
	MCX 120/60 M MCX 120/60 T	1,2	0,9	1,7	1,25	1 ~ 230 V 3 ~ 230 ÷ 400 V	5,8 3,5-2	20	Disch	60	55	48	36	26	10



#### TABLE OF SIZES AND WEIGHTS

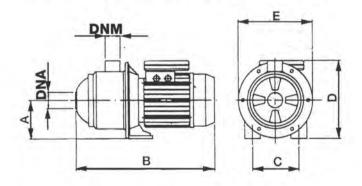
Model	Dimensions mm.									
	A	В	С	D	E	DNA	DNM	kg		
MCX 120/36	90	316	99	195	174	1"	1"	8		
MCX 120/48	90	338	99	195	174	1"	1"	9		
MCX 120/60	90	360	99	195	174	1"	1"	10		

#### TABLE OF HYDRAULIC PERFORMANCE



#### **PUMP PERFORMANCE**

CODE	MODEL		minal ower		orbed wer	VOLTAGE	Amp.	μF.	L/1'	0	20	40	80	120	160	200
OODL	MODEL	HP	kW	HP	kW	VOLINGE	Amp.	μι.	m³/h	0	1,2	2,4	4,8	7,2	9,6	12
	MCX 200/40 M MCX 200/40 T	1,5	1,1	2	1,5	1 ~ 230 V 3 ~ 230 ÷ 400 V	7 3,6-2,1	20	head	38	35	32	26	19	11	
	MCX 200/52 M MCX 200/52 T	1,8	1,3	2,5	1,8	1 ~ 230 V 3 ~ 230 ÷ 400 V	8,5 5-2,9	25	Discharge h	49	47	44	38	29	18	3
	MCX 200/65 M MCX 200/65 T	1,9	1,4	2,7	2,0	1 ~ 230 V 3 ~ 230 ÷ 400 V	9 6-3,5	35	Disch	62	59	55	47	36	22	4



#### **TABLE OF SIZES AND WEIGHTS**

Model	Dimensions mm.									
	A	В	С	D	E	DNA	DNM	kg		
MCX 200/40	105	400	141	235	205	1" 1/4	1" 1/4	14		
MCX 200/52	105	430	141	235	205	1" 1/4	1" 1/4	16		
MCX 200/65	105	460	141	235	205	1" 1/4	1" 1/4	18		



## Calculations

GHD Limited

JBJECT:	Azzuro CPC-Stands.	JOB NO: 5/29748  CALCS BY: [PRINT NAME]  CHECKED BY: [PRINT NAME]	SHEET: of DATE: DATE:
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	Statoprace.		

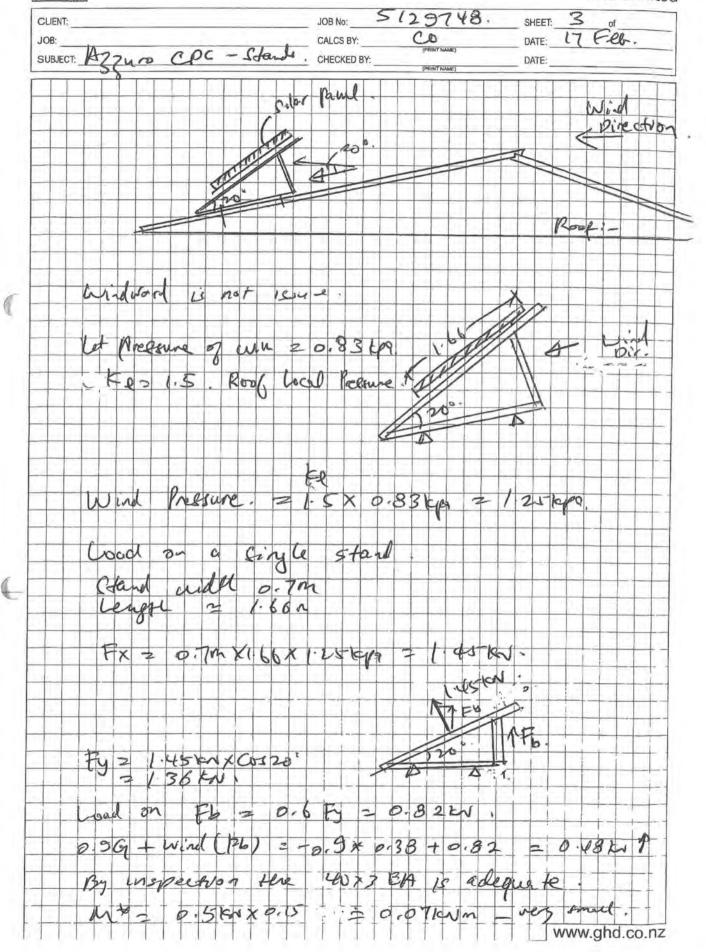


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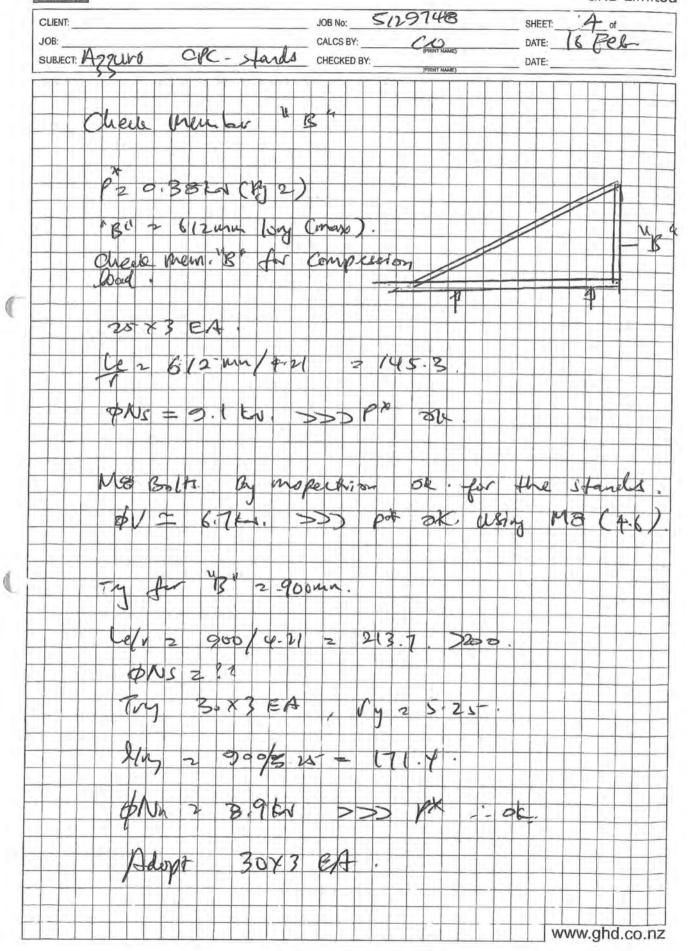


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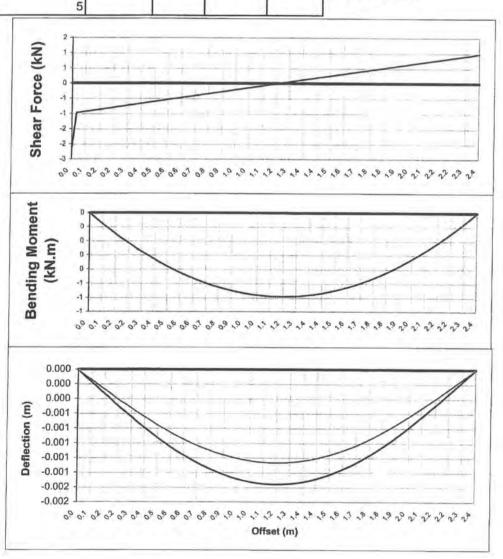
Project:

E 5.40E+06 kPa 1/250x50 5.18E-05 m<sup>4</sup> Î. Ix 5.18E+07 mm FI 2.80E+02 kN.m2

	2.002.0	Z 1111.11112		
Load Type	Ultimate		Service	
Uniform	-0.82	0	-1.01	kNm
		0		
Conc. Loads:	Load(kN)			Position(m)
1 2	-0.38 -0.38			0.4 1.10
3	-0.38			1.80
4				1
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øMn=2.729 kN-m Use 250X50 Le=0.9 - Restrain





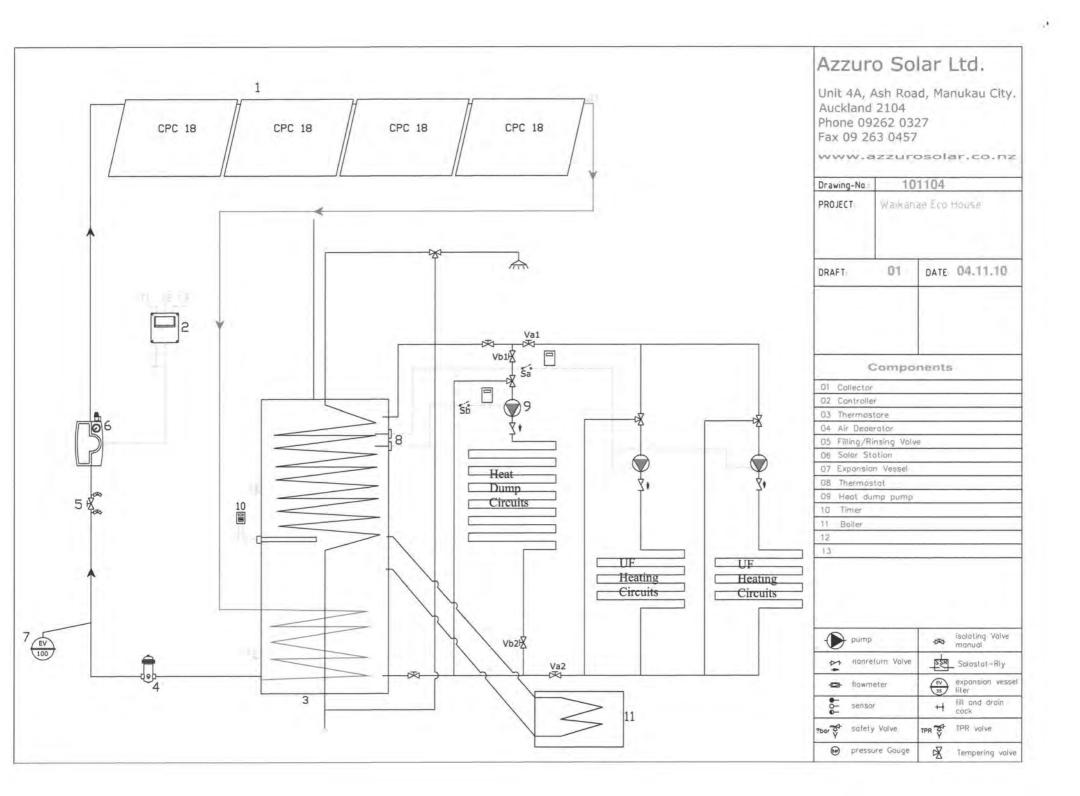
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## thinking for the future arzuro solar

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o Whom it may concern:	

Dear Sir and Madam

This letter is to confirm that Azzuro Solar is an accredited supplier of Solar Water Heater Company of EECA.

Azzuro Solar domestic solar water heaters (DSWH's) are high performance systems. The CPC evacuated tube collector panels were designed and developed in Germany. Azzuro Solar DSWH's are manufactured and installed in accordance with the following European, Australian and New Zealand standards:

#### Product manufacture

- AS/NZS 2712 Solar and heat pump water heaters Design and construction
- NZS 4613
- Code of Practice for Manufacture and Installation of SWH Systems in NZ

#### Energy performance

- EN 12975-2 Report of Performance Test for a glazed Solar Collector
- AS 4234 Product energy output

#### Installation

- NZBC G12/AS2 Acceptable Solution G12/AS2 for Solar Water Heaters
- AS/NZS 3500.4 Plumbing and drainage, part 4 Heated water services
- "Code of Practice for Manufacture and Installation of SWH Systems in NZ"

#### Impact resistance

DIN EN 12975-2 (25mm hail stones at 23 m/s)

To ensure high installation standards are maintained and to ensure systems operate at maximum performance and efficiency, Azzuro Solar DSWH's must only be installed by Azzuro Solar accredited specialists.

Please don't hesitate to contact us if you need any more information.

Regards

Azzuro Solar NZ Limited

Re: 100209 custom cylinder order form

#### **CUSTOM CYLINDER ORDER FORM**

circuits

Household occupancy H. - Vent OH. PBB Collector Area (m1) Cylinder Capacity 0H8 (L) Water Pressure Mains (Please Circle) Hu OH30 Hz - UF reciting Solar + Solar + Wetback Electric return Solar + Solar + Gas Boiler Instantaneous Gas Hz- UF Heating Cylinder Solar Coil Application 12 KW (kw) (Please Circle) Wetback Coil H4-Thermostat pocket for underfloor Hectling (kw) Other: wetback connection Height Depth Width Cupboard Size (mm) BA H5 - coldwater inlet. Cylinder Height Diameter measurement 60 120 (mm) Hb- wetbook connection Cold water Hot water Solar coil Cylinder inlet outlet Connection Hy-wetback com (mm) Please mark the position of the following connections H8 - dumping including the angles between them (in plan view) on the

diagrams opposite:

- A- Potable water inlet connection
- B- Potable Water outlet connection
- C-Solar inlet connection
- D- Solar outlet connection
- E- Electric element position
- F-Solar inlet sensor pocket
- G- Tank sensor pocket
- H- Position of any additional connections coil required

Order	Order	Azzuro
No.	from	Order No.
Order	Customer	Customer
Date	Name	Phone No.
Required Delivery Date	Delivery Address	

Azzuro Solar Limited, PO Box 76642, Manukau City 2241 Unit 4A, 23 Ash Road, Manukau City, Auckland Phone 09 2620327 Fax 09 2630457 Email admin@azzurosolar.co.nz www.azzurosolar.co.nz

## **Azzuro Solar CPC Collector specifications**



Item	Units	CPC6	CPC12	CPC18
No. Of evacuated tubes		6	12	18
Required mounting brackets per collector		2	2	3
Collector height	m	1.64	1.64	1.64
Collector depth	m	0.1	0.1	0.1
Collector width	m	0.7	1.39	2.08
Gross surface area	m <sup>2</sup>	1.14	2.28	3.41
Aperture area	m <sup>2</sup>	1.0	2.0	3.0
Collector capacity	1	0.8	1.6	2.4
Collector weight empty	kg	19	37	54
Collector weight empty	kg/m <sup>2</sup>	16.7	16.3	15.9
Collector weight full with water	kg/m <sup>2</sup>	17.5	17.85	18.25
Maximum pressure	bar	10	10	10
Maximum stagnation temperature	°C	295	295	295
Pipe connection diameter	mm	15	15	15
Sensor pocket inner diameter	mm	6	6	6
Heat transfer fluid		H <sub>2</sub> 0	H <sub>2</sub> 0	H <sub>2</sub> 0
Collector material		Al/Cu/Glass	/Silicone /PBT/	
Evacuated tube material		В	Borosilicate 3.3	
Evacuated tube dimensions	mm	O.D = 47, length = 1500		
Selective absorber layer			uminium nitrate	

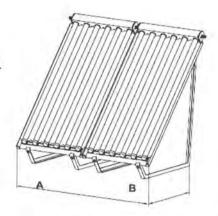
## thinking for the future azzuro solar

Install collector on flat roof 090301.doc

## 5. Installation on flat roofs

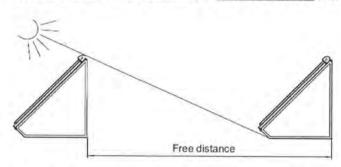
## 5.1 Space requirement

Space requirement for a single-row collector field.

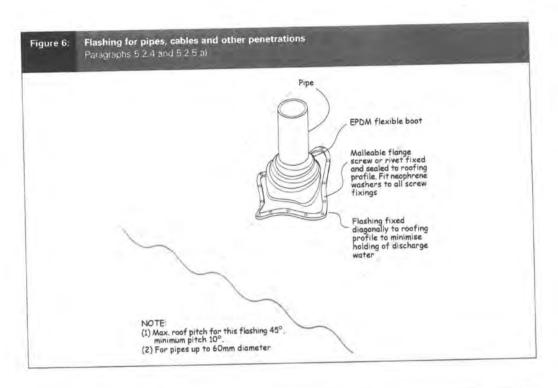


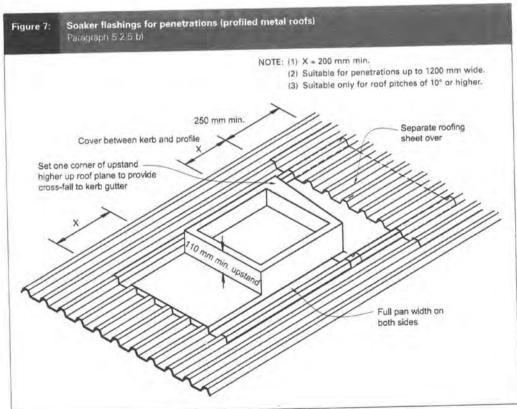
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Number of collectors	Dim.	Dim.	Dim.	Dim.	Dim.	Dim.	Dim.	Dim.	Dim.
	A	В	В	A	В	В	A	В	В
		30°	45°		30°	45°		30°	45°
	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)
1	0,70	1,47	1,23	1,40	1,47	1,23	2,10	1,47	1,23
2	1,40	1,47	1,23	2,80	1,47	1,23	4,20	1,47	1,23
3	2,15	1,47	1,23	4,20	1,47	1,23	6,30	1,47	1,23
4	2,85	1,47	1,23	5,60	1,47	1,23	8,35	1,47	1,23
5	3,55	1,47	1,23	7,00	1,47	1,23	10,45	1,47	1,23
6	4,25	1.47	1,23	8,40	1,47	1,23	12,55	1,47	1,23

Free distance between the collectors, for double or multi row collector fields.



Type of use	Main utilization period	Free distance 30° (m)	Free distance 45° (m)
Service water	May until August	2,6	Not appropriate
Service water	April until September	Not appropriate	3.1
Service water and heating	March until October	Not appropriate	4,0
Service water and heating	All year round	Not appropriate	5,0





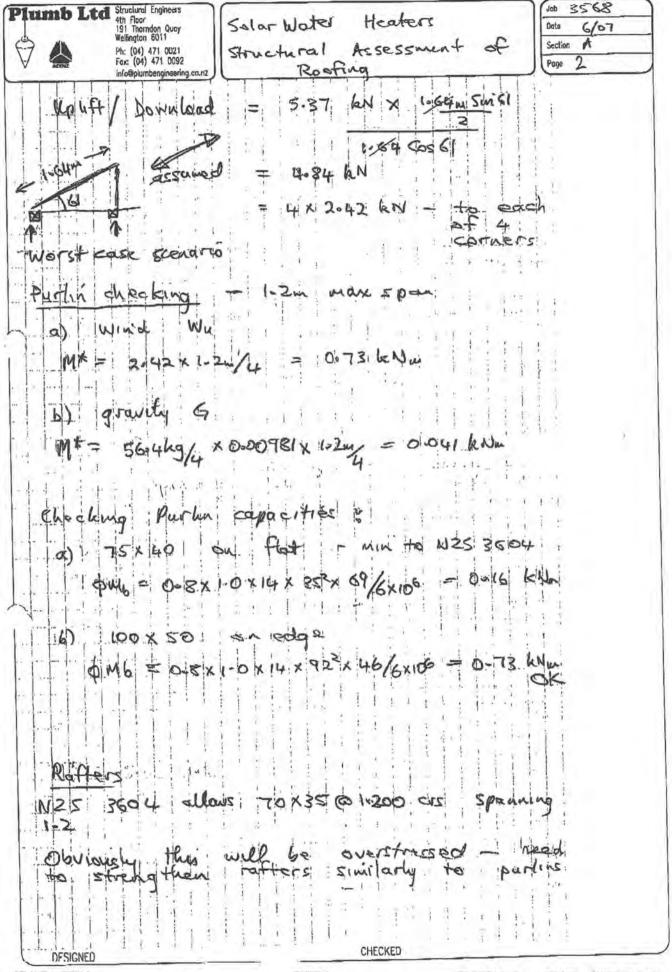
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lumb Ltd	Consulting Engineers	STRUCTURAL CALCULATIONS	200. 2200
2 🛦	4th Floor, 191 Thorndon Quay,		Date:
7 200	Wellington 6001.	Azzuro Solar Water	7/07
	weimigton ooor.	Azzuro Solar Water Heaters	1,27
	; Pax: (04) 471 0092	11 12 12 2 2	
-mail info@pii	umbengineering.co.nz	Checking Roof Structura	<b>2</b> S
	de la companya de la	ply with Sections B1 of the New Zealand Building Code.	Other parties are to
nese Calcula	ance with other relevant s	ections of the Code.	20.4
The scope of	these calculations is as sh	own in the index below and in summary includes the follows	owing:
		1 1== 31=1	
Chack	k roof 5th	ructures to NZC 3604 A	51
lagde	un impores	1 by solor water he	27970
<u> </u>	J		
REFERENCE	DOCUMENTS	4.00	
		to the state of the Politican	
NZS 4203 19	92 General Structure Desi	ign and Design Loadings for Buildings	
NZS 3404-19	97-Steel Structures-Stand	ares	
NZS 3603 19	93 Timber Structures Star	requiring specific design	
NZ <del>3 4227 19</del>	04 Design of Masonry St	ruchuse.	
	95 Concrete Structures-St		
	97 Specification for Conc		
			Page No
INDEX		2	Page No
-	1 0 11111	1 1	A1-A2
Gravi		loads	
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PLUMB LTD trading as Bob Laybourn, Consulting Engineer, 4th Floor, 191 Thorndon Quay, Wellington 6001 Ph: 04 471 0021; Fax (04) 471 0092 (c-mail bob@laybourn.co.nz) F:\00Consulting\FORMS\CALC-SHE.wpd

Page No 1

Plumb Ltd Structural Engineers
4th Floor
191 Thorndon Quoy
Wellington 6011 3568 Solar Water Heaters 0/07 Date structural Assessment Section Ph: (04) 471 0021 Fox: (04) 471 0092 Roofing Page Locals Gravity water Deuel in significa Loading = 50 m/see 0.6(50) 1.500 kPa C 1-2 pressure 410 inclination = 5-37 KW 1. 86Pax 1.64 x 2.08 51,619

DESIGNED

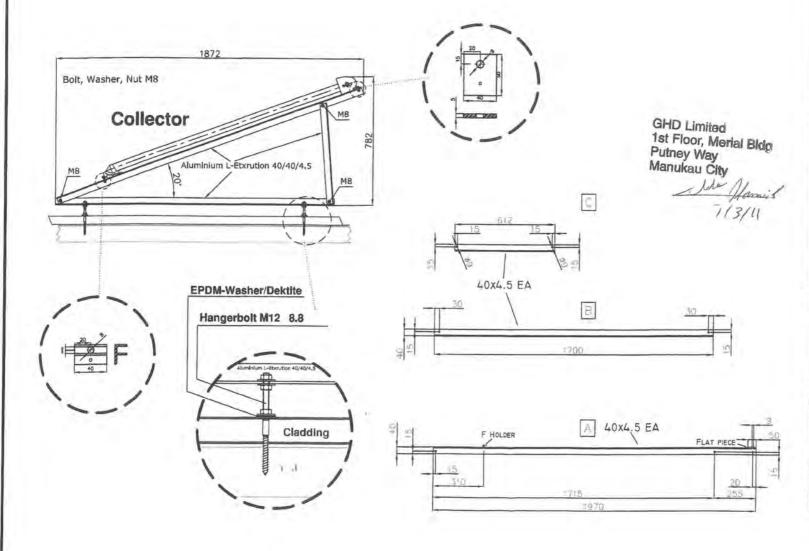


70/40 30A9

PLUMB

15/02/5008 04:13 044/10035

# AZZURO CPC - STANDS



otes

Site check all existing levels and Dimensions prior to putting work in hand

Existing dwelling built in accrdance with NZS 3604

All flashings are to be installed in accrdance with E2/AS1 All plumbings are to be installed in accrdance with G12/AS1

All boits/ Washer to be galvanised

These drawings are to remain the property of Azzuro Solar Ltd, and should not be copied copied without permission of Azzuro Solar Ltd.

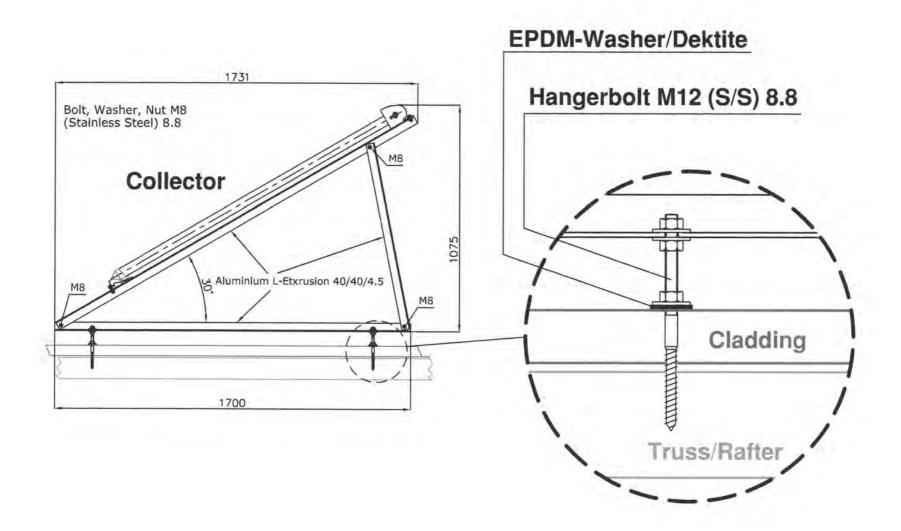
Job Title Solar Water Heating

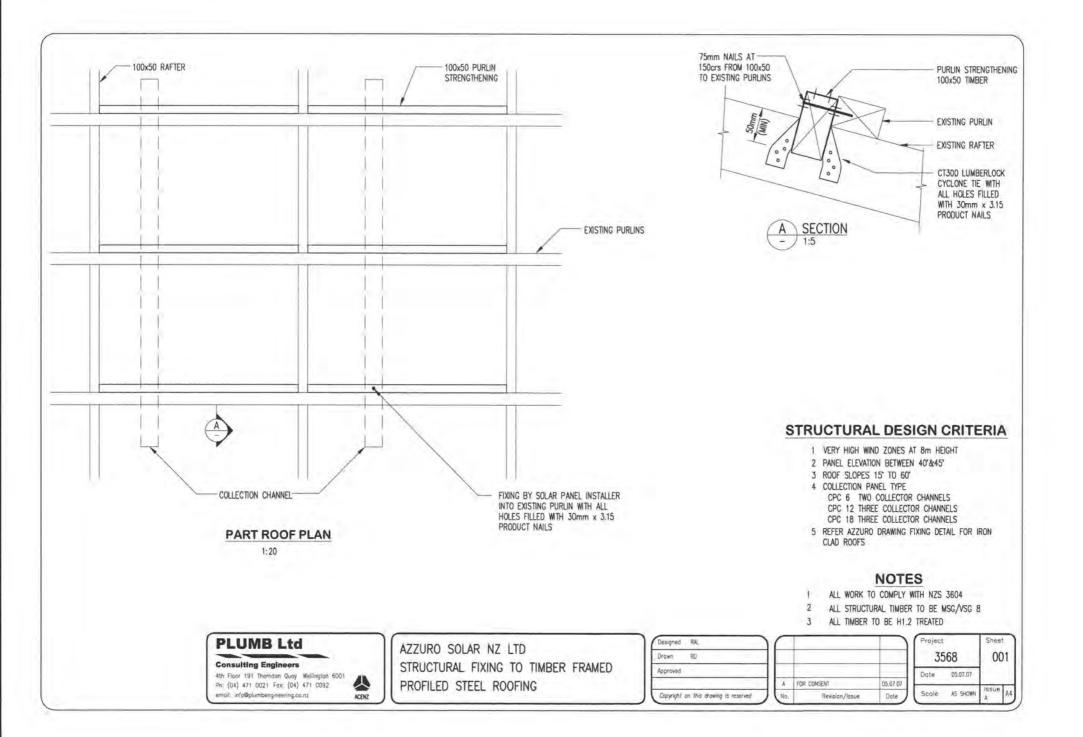
Drawing Title

DETAILS & SPECIFICATION

Scale	
Job No.	0
Drawn No.	AZZ RK-STD20
Checked	
Date	23/2/2011

# AZZURO CPC - STANDS





## Plumb Ltd Consulting Structural Engineers

Box 12196 Wellington 6144.

Ph: (04) 471 0021; Fax: (04) 471 0092 e-mail info@plumbengineering.co.nz

#### STRUCTURAL CALCULATIONS SOLAR WATER HEATER 27 FIFESHIRE CRES, NELSON BUILDING CONSENT 071238

Job: 3844

Date 7/08.

These Calculations are intended to comply with Sections B1 of the New Zealand Building Code. Other parties are to ensure compliance with other relevant sections of the Code.

The scope of these calculations is as shown in the index below and in summary includes the following:

Determination of specific design roof to resist wind loads on solar heater panel
Refer to Architecture DM Limited drawings ADM 06-05 of 25-09-07

#### REFERENCE DOCUMENTS

AS/NZS 4203 1170 Structural design actions NZS 3404 1997 Steel Structures Standard

NZS 3603 1993 Timber Structures Standard

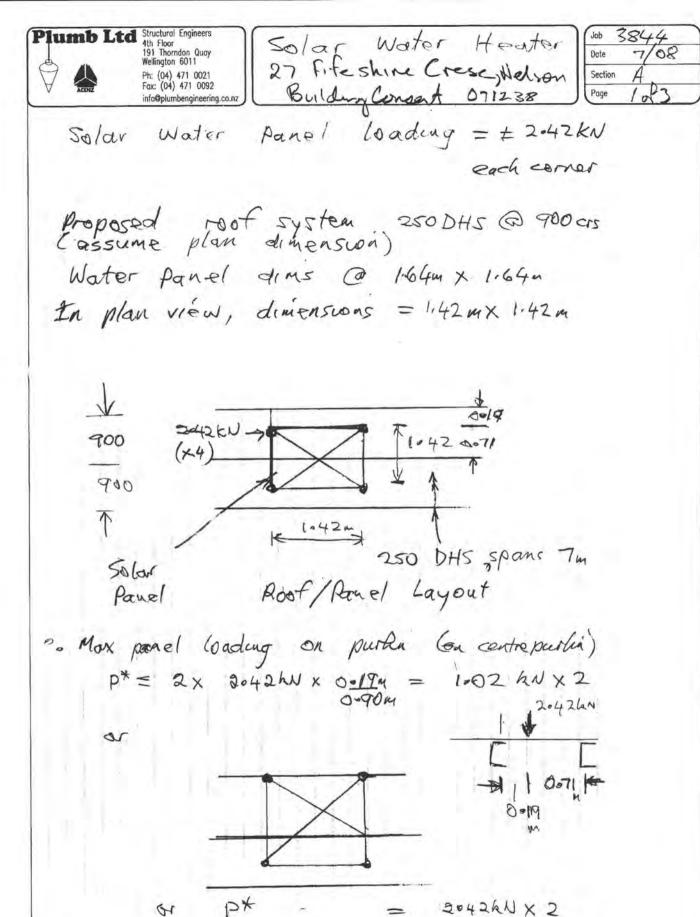
NZS 4229 1999 Concrete Masonry not requiring specific design

NZS 4230 2004 Design of Masonry Structures

NZS 3101 1995 Concrete Structures Standard

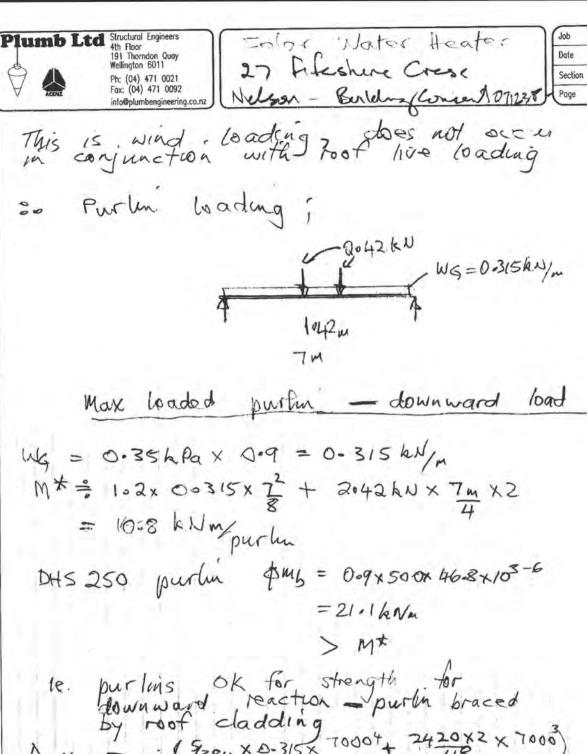
NZS 3109 1997 Specification for Concrete Construction

INDEX	PAGE NO
Loadings	1
Purlin check	2
Fixings	3



= 2042kN x 2 = 2042kN x 2 crifical loading

DESIGNED



burlins OK for strength for downward reaction purch braced by roof cladding = (9384 X D-315X TOOO+ 2420X2 X 7000)

2.08 XIOS X 586 XIOG

-8-44 7/08

36-4 MM - Igo - this will be ok-for ultimate Wind

DESIGNED

CHECKED

# Plumb Ltd Structural Engineers 4191 Floor 191 Floor 191

7/08

3083

Compression flange not braced by roof
Assume purtin has I brace @ contre

30 \$\pm\beta = 1075 \text{RN} \times 7\text{8} = 10.72 \text{kNm/purtin}

ex load tables, 7m Span, DHS
250/13 purlin

30 Amb > u\*, puran OK

# Attachment panel/purlu

Assume 8mm 316 grade stainless steel

\$T = 0.9 x 485 NP2 x 36.6 NM² = 15.0 kN

tensile
strongth threaded
area

Assume 400 MPa standard bott  $\phi T = 0.9 \times 400 \text{ MPa} \times 36.6 \text{ mn}^2 = 13.18 \text{ kN}$ 

OK

DESIGNED

CHECKED



00126

FOUNDATION SOIL

35b KOTARE STREET

The soil is clay soil, soft for about 700mm, then good ground as defined in NZS 3604.

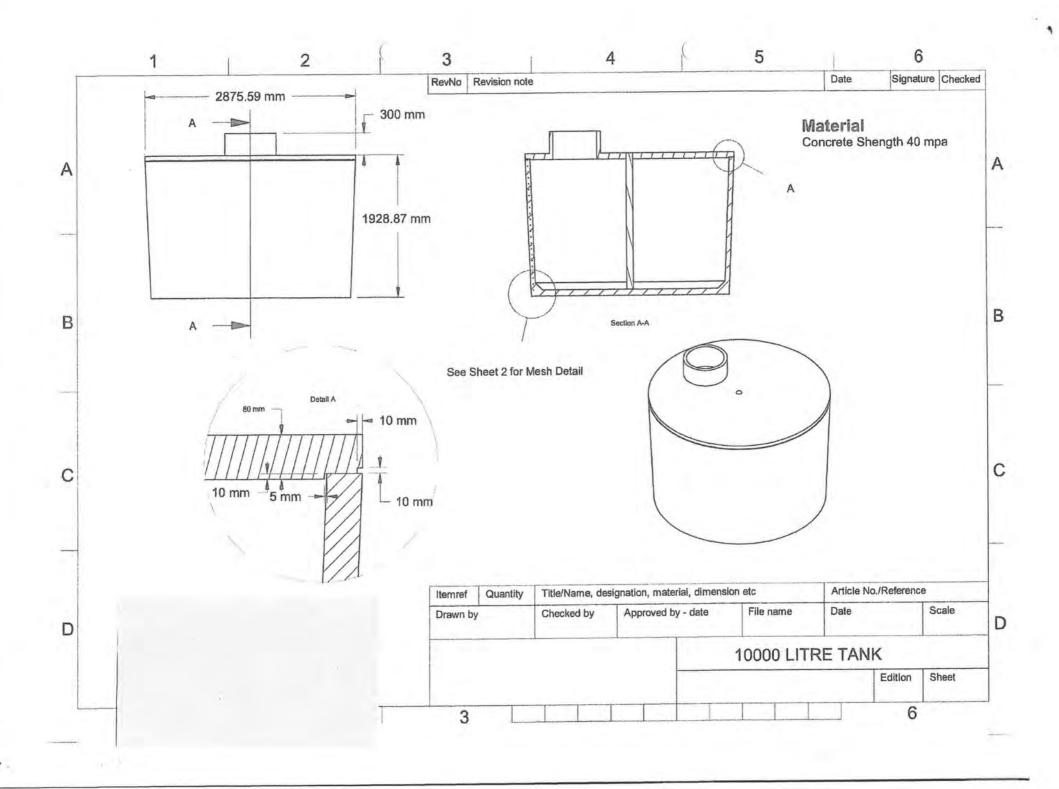
The profile is the section is on the side of a hill, with a sealed access above the site channelling the surface water away. The site will be cut to form a level platform, and involves s small area of soft ground to be removed, and replaced with site fill (compacted).

The cut faces are being retained with engineered retaining walls. The walls effectively cut any subsurface water to the building platform, and this water is caught in the subsoil drains.

Fill and slab construction is under the control of the engineer.

			RISK MATRIX	SUMMAR	Y			
Client: Address: Job#	Ward house 35B Kotare St 2690-01		see plans for loca	ation of elev	ations		Designscape 298 Rosetta Rd Phone 04-902-852	28
	Elevation 1		Elevation 2		Elevation 3		Elevation 4	
Wind Zone per NZS 3604	very high	2	very high	2	very high	2	very high	2
Number of Storeys	low	0	low	0	low	0	low	0
Roof/wall Intersection	low	Ó	low	0	low	0	low	0
Eaves width	high	3	high	3	high	3	high	3
Envelope complexity	medium	1	medium	1	medium	1	medium	1
Deck design	low	0	low	0	low	0	low	0
TOTALS		6		6		6		6
Cladding 1	EIFS	÷	EIFS		- EIFS		▼ EIFS	-
Fixing 1	Direct fixed		Direct fixed		Direct fixed		Direct fixed	
Cladding 2	Not applicable	•	Not applicable		Not applicable		Not applicable	-
Fixing 2	Not applicable		Not applicable		Not applicable		Not applicable	

although direct fixed is shown ok cladding will be on cavity as per manufactures specifications



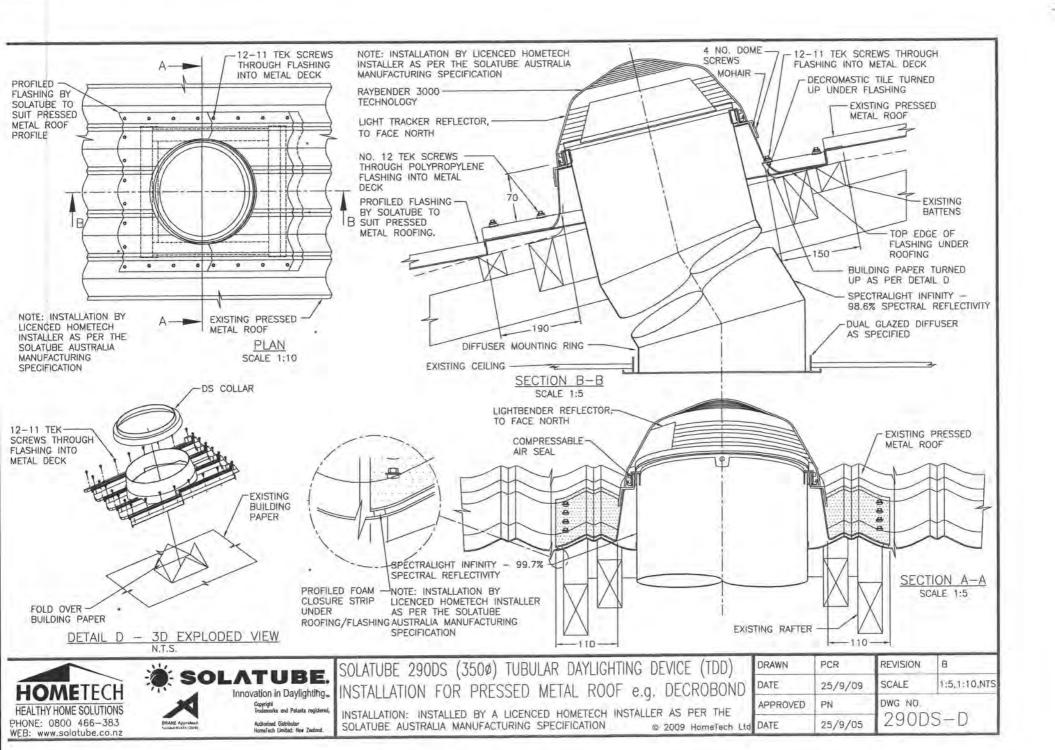


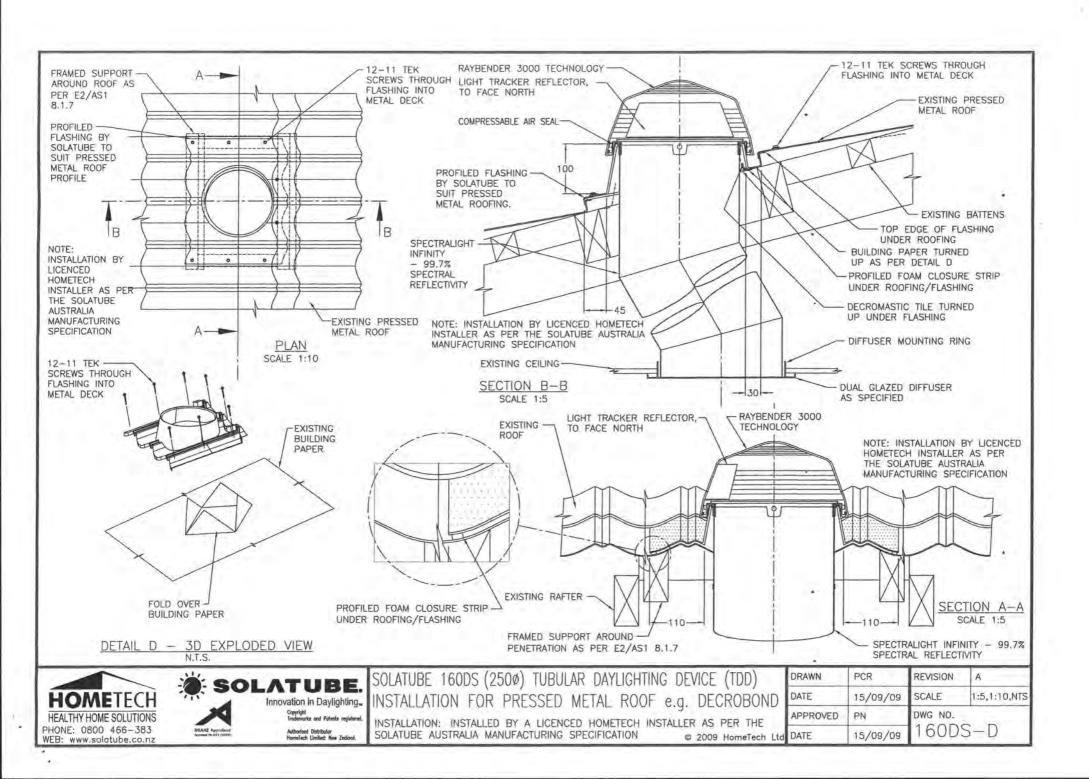
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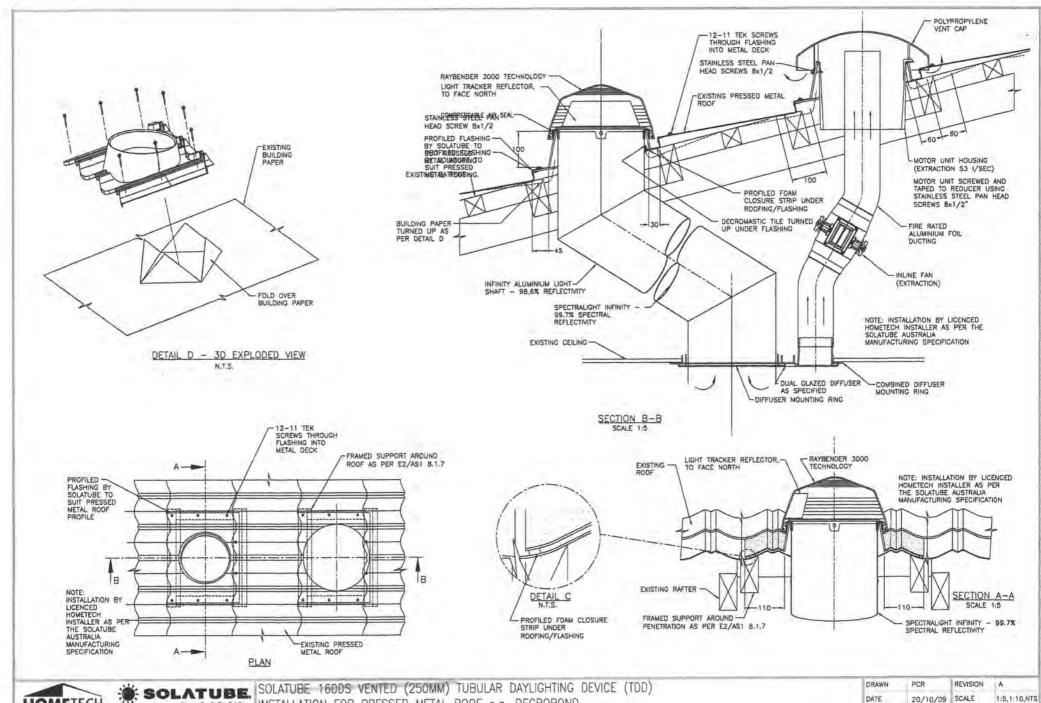
Badial 2911 OCC23

KAPITY GOAST

BISTRICT COUNCIL







HOMETECH HEALTHY HOME SOLUTIONS PHONE: 0800 466-383

Innovation in Daylighting. INSTALLATION FOR PRESSED METAL ROOF e.g. DECROBOND

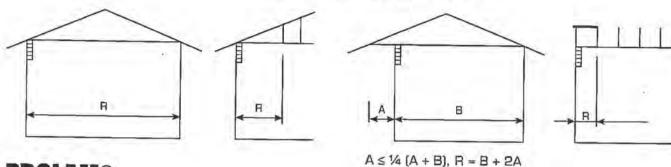
INSTALLATION: INSTALLED BY A LICENCED HOMETECH INSTALLER AS PER THE SOLATUBE AUSTRALIA MANUFACTURING SPECIFICATION o 2005 HomeTech Ltd

DRAWN	PCR	REVISION	A
DATE	20/10/09	SCALE	1:5,1:10,01
APPROVED	PN	DWG NO.	
DATE	20/10/09	1600	S-V-D



**Providing Superior Timber Solutions** 

## **SELECTION CHARTS**



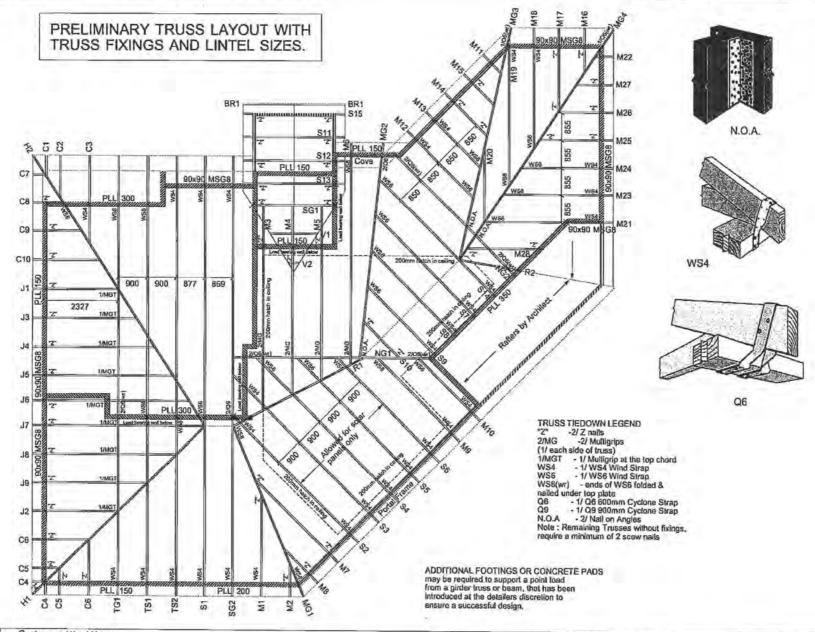
## **PROLAM®**

TABLE 1: PROLAM® LINTELS SUPPORTING ROOF AND CEILING ONLY

		LINTEL		MAXIMUM LINTEL SPAN (m)											
		SIZE					SUPP	ORTED	ROOF	SPAN	'R' (m	)			
			2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0	11.0	12.0	13.0	14.0
		PLL 150 135 x 88mm	3.25	3,00	2.80	2.60	2.40	2.25	2.15	2.05	1.95	1.85	1.80	1.75	1.70
	ROOF	PLL 200 180 x 88mm	4.15	3.95	3.70	3.45	3,20	3.Q0	2.85	2.70	2.60	2.50	2.40	2.30	2.25
		PLL 250 225 x 88mm	4.90	4.60	4.40	4.30	4.00	3.70	3.50	3.40	3.20	3,10	3.00	2.90	2.80
	LIGHT	PLL 300 270 x 88mm	5.60	5.30	5.10	4.90	4.70	4,50	4.30	4.10	3.90	3.70	3.60	3.50	3.30
GLB	Œ	PLL 350 315 x 88mm	6.30	6.00	5.70	5,50	5.30	5.10	5.00	4.70	4.50	4.30	4.20	4.00	3.90
5	11	PLL 150 135 x 88mm	2.75	2.50	2.30	2.10	2.00	1.85	1.75	1.70	1.60	1.55	1.50	1.45	1.40
	ROOF	PLL 200 180 x 88mm	3.65	3.35	3.05	2.80	2.65	2.50	2,35	2.25	2.15	2.05	2.00	1.90	1.85
	1	PLL 250 225 x 88mm	4.50	4.10	3.80	3.50	3.30	3.10	2.90	2.80	2.70	2.50	2.40	2.40	2.30
	HEAVY	PLL 300 270 x 88mm	5,30	4.90	4.50	4.20	3.90	3.70	3.50	3.30	3,20	3.10	2.90	2.80	2.70
	T	PLL 350 315 x 88mm	5.90	5.60	5.30	4.90	4.60	4.30	4.10	3.90	3.70	3.60	3.40	3.30	3.20
		PL12 150 135 x 88mm	3.65	3.40	3.20	2,95	2.75	2.60	2.45	2,35	2.25	2.15	2.05	2.00	1.95
	ROOF	PL12 200 180 x 88mm	4.55	4.30	4.10	3.95	3.70	3.45	3,30	3.15	3.00	2.85	2.75	2.65	2.60
		PL12 250 225 x 88mm	5.40	5.10	4.90	4.70	4.50	4.30	4.10	3,90	3.70	3.60	3.40	3.30	3.20
mp.	LIGHT	PL12 300 270 x 88mm	6.20	5.80	5.60	5.40	5.20	5.00	4.90	4.70	4.50	4.30	4.10	4.00	3.80
12	2	PL12 350 315 x 88mm	6.90	6.60	6.30	6,00	5.80	5.60	5.50	5.30	5.20	5.00	4.80	4.60	4.50
5	11	PL12 150	3,10	2.90	2.65	2.45	2.25	2.15	2.00	1.95	1.85	1.75	1.70	1.85	1.60
	ROOF	PL12 200 180 x 88mm	4.10	3.85	3.50	3.25	3.05	2.85	2.70	2.55	2.45	2.35	2.25	2.20	2.10
		PL12 250 225 x 88mm	5.10	4.70	4.30	4.00	3.80	3.50	3.30	3.20	3.00	2.90	2.80	2.70	2.60
	HEAVY	PL12 300 270 x 88mm	5.89	5.50	5.20	4.80	4.50	4.20	4.00	3.80	3.70	3.50	3.40	3.30	3.20
	-	PL12 350 315 x 88mm	6.50	6.20	5.90	5.60	5.20	4.90	4.70	4.50	4.30	4.10	3.90	3.80	3.70

283 Waiwhero Rd PO Box 413 Motueka New Zealand Phone 03 526 7436 Fax 03 526 7437 Email: info@prowoodnz.com

2007/4





Customer : Ward House Site Address : 35 Kotare Street

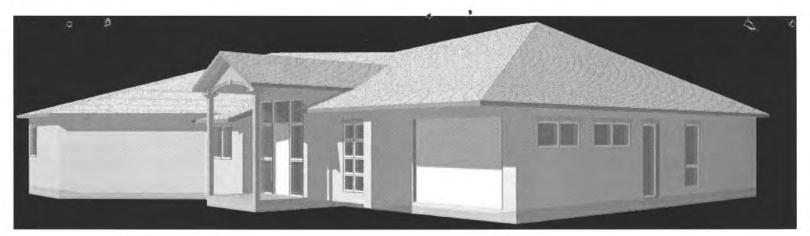
: Waikanae

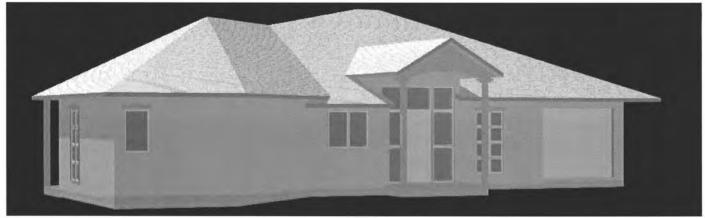
Roeling : Corrupated hon Pilch : 30,00 Deg. Spacing : 900 Design Wind Velocity : 50,00 er/s (Uli ) Detater : Bruce Dylubeig.

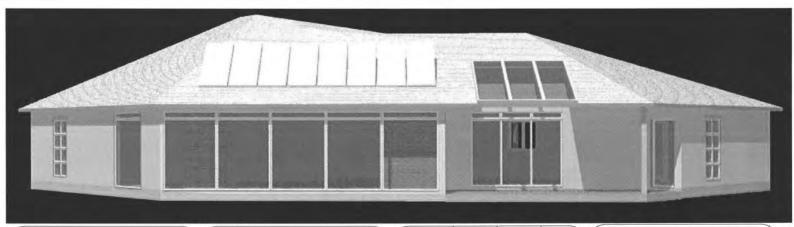
Job Ref 4481d Scale

Level

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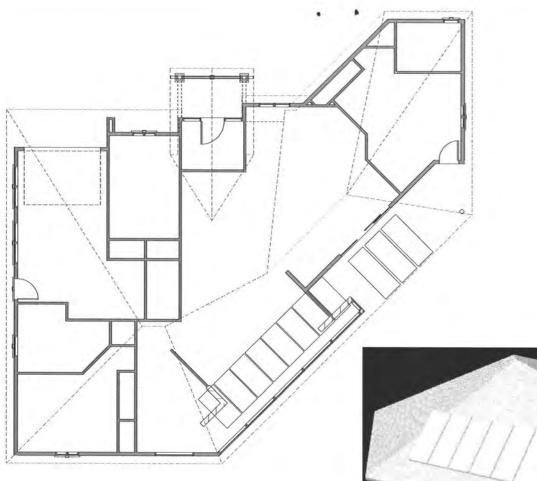
## **Landseer Services**

PO Box 1656, Paraparaumu Beach Tel: 04-2984192 Fax: 04-2984192 Mobile: 0274-925336 email: patrick.shaw@xtra.co.nz Client :

Drawing:

Designed : Shaw	Checked:	Drawn : Shaw	Sheet:
Scale :	Job No:	Date :	Of:

THESE DRAWINGS HAVE BEEN PREPARED BASED ON THE KNOWLEDGE THAT THE BUILDING CONTRACTER HAS A SOLND KNOWLEDGE OF THE ADDIC A NEW SHOP HOW ANY OWNER OR BUILDER, SHALL ENSURE THAT ALL WORKS COMPLY WITH INSECCODES IN ADDITION TO THE REQUIREMENTS OF THE TERRITORAL AUTHORITY. ANY WORKS INDIGETABLE OUTSIDE THESE REQUIREMENTS WITHOUT ANY WORKS INDIGETABLE OUTSIDE THESE REQUIREMENTS WITHOUT AUTHORITY. HERE IN DIGENSITY STILL BE DESCORED ON HIS AGENT ANY CLAIM OR CLAIMS IN RESPECT TO THE SAID WORKS







## **Landseer Services**

PO Box 1656, Paraparaumu Beach Tel: 04-2984192 Fax: 04-2984192 Mobile: 0274-925336 email: patrick.shaw@xtra.co.nz Client :

Drawing:

Designed : Shaw	Checked:	Drawn : Shaw	Sheet:
Scale :	Job No :	Date :	Of:

THESE DRAWINGS HAVE BEEN PREPARED BASED ON THE KNOWLEDGE THAT THE BUILDING CONTRACTER HAS A SOUND KNOWLEDGE OF THE YEAR'S A SOUND KNOWLEDGE OF THE YEAR'S A KNOWLEDGE OF THE SUBJECT AND THE SOUND KNOWLEDGE OF THE HUBBER, SHALL ENSURE THAT ALL WORKS COMPLY WITH THESE CODES HADDITION TO THE REQUIREMENTS OF THE TERMINGHAL AUTHORITY. ANY WORKS INDECTACLS OUTSIDE THESE REQUIREMENTS WITHOUT AGAINST ANY CLAIM OR CLAIMS IN RESPECT TO THE SAID WORKS.

BC 110397.



## 10500 litre Water tank



OUTSIDE DIAMETER	OUTSIDE HEIGHT
2.9m	2m

Cecaived by
Kapin Coast District Council
at Reparation
14 111 2011

By Sporteen Time 11:05



## Design Navigator H1 Compliance Report

## Project Summary

H1 Report created by:

Designscape

Project Name:

Ward House

Client:

Ward

Lot No:

Comment:

28085

Project Id: Report Date:

03/06/2011

## Compliance Result

This building complies with H1 via the following methods:

- the Schedule Method in NZS4218:2004 (Sept 2008 R-values)
   the Calculation Method in NZS4218:2004 (Sept 2008 R-values)

#### H1 Compliance Details

#### NZS4218:2004 Schedule Method Compliance

The use of the Schedule Method is permitted .

In order to comply the R-values for all the construction elements must be the same or larger than the permitted minimum R-values. This design complies with the NZS4218:2004 Schedule Method.

Non-Solid	d Construction		
	Permitted Minimum	Proposed Minimum	
Floor:	1.3	2.78	*
Non-solid Walls:	1.9	3.99	V
Glazing in Non-solid Walls:	0.26	0.43	V
Roof:	2.9	4.1	4
Skylights:	0.26		V

If multiple solid wall types levels are used the table shows the requirements for the corresponding walls and windows in them. For solid timber and for other solid constructions two options are shown for each. But the components of these options can not be mixed, i.e. it is not permitted to use the solid timber wall R-value from option 1 and the solid timber window R-value from option 2.

## H1 Compliance Details

#### NZS4218:2004 Calculation Method Compliance

The use of the Calculation Method is permitted .

In order to comply the Actual Heat Loss must be the same or smaller than the Reference Heat Loss AND all component R-values must be the same or larger than 60% of the R-values in the '60% Rule' table below. This design complies with the NZS4218:2004 Calculation Method.

Heat Loss:	Reference building	Proposed building
	427	213

#### Minimum R-values ("60% rule"):

	Permitted Minimum	Proposed Minimum	
Floor:	0.8	2.78	V
Non-solid Walls:	1.1	3.99	v.
Glazing in Non-solid Walls:	0.15	0.43	N
Roof:	1.7	4.1	$\mathcal{A}_{i}$
Skylights:	0.15		V

			Non- solid	Solid Timber	Other Solid
			100.0 %	0.0 %	0.0 %
Floor:	Area: 154.7 m <sup>2</sup>	R-values:	1.3	1.3	1.5
Walls excl. glazing:	Area: 117.1 m²	R-values:	1.9	1.2	1
Glazing (up to 30%):	Area: 50,2 m²	R-values:	0.26	0.26	0.26
Roof:	Area: 154.7 m²	R-values:	2.9	3.5	3.5
Skylights:	Area: 0 m²	R-values:	0.31	0.31	0.31
Heat Loss:			427	454	457

For mixed constructions the heat loss of the reference building is calculated as the sum of the heat losses for each type of wall construction multiplied by the fraction of the wall area of each type. This approach is based on clause 4.2.6 of NZS4218:2009 because NZS4218:2004 has no clear guidance on mixed constructions. Note that all other requirements (window area (30%) and skylight area (1.2m²) threshold for Schedule Method, maximum R-value tradeoff (40%), etc.) are still using NZS4218:2004 including the 2007 H1 amendments because this is the Acceptable Solution for Clause H1.

### Compliance with Clause E3

This building complies with the R-value targets in NZBC Clause E3 .

Component	Minimum R-value	Project R-value
Framed wall constructions with cavities	1.5	3.99
Single skin masonry wall without a cavity	0.6	
Solid timber wall no less than 60 mm thick	0.6	
Roof or ceilings	1.5	4.1

## Design Details

Building	Dimensions
----------	------------

Floor Area	154.7
Gross Wall Area	167.3
Net Wall Area	130.1
Wall (North) Area	29.3
Wall (East, South and West) Area	100.8
Gross Roof Area	154.7
Net Roof Area	154.7
Glazing Area	37.2
Window (North) Area	26.3
Window (East, South and West) Area	10.9
Skylight Area	0

## Glazing Area Percentages

Total Glazing Percentage	22.2%
East, South and West Window Percentage	9.8%
Total over 30%	no
East, South and West over 30%	no
Total over 50%	no

## Information required for BPI calculation

Living Floor Area	<ol><li>Note: This includes also internal floors.</li></ol>

Average Room Height

Thermal Mass Level Light weight Suspended timber floor with timber framed walls or a heavily carpeted slab floor with timber framed walls.

## Climate

Location	Paraparaumu
Climate Zone	2

#### Heat Loss Details

	ID	Orient.	Width	Height	Gross Area	Net Area	R-value*	Heat Loss	Shad. Coeff.**	Solid Wall***
Floors					AIGO	Aica		2033	OUGII.	V VCIII
Floor 1	dwelling				154.7	154.7	2.78	55.6		
Walls										
Wall 1	north 1	North	8	2.4	19.2	14	3.99	3,5		C
Window 1-1	W1			1.8		1.6	.43	3.8	_	
Window 1-2	W2			1.8		3.6	.43	8.4	_	
Wall 2	north 2	North	8	2.4	19.2	5.3	3.99	1.3		C
Window 2-1	W3		7.7	1.8		13.9	.43	32.2	_	
Wall 3	north 3	North	6	2.4	14.4	7.2	3.99	1.8		C
Window 3-1	W4		3.6	2		7.2	.43	16.7	_	
Wall 4	north 4	North	1.14	2.4	2.7	2.7	3.99	0.7		C
Wall 5	east 1	East	2.27	2.4	5.4	5.4	3.99	1.4		C
Wall 6	east 2	East	4.43	2.4	10.6	10.6	3.99	2.7		С
Wall 7	east 3	East	1	2.4	2.4	2.4	3.99	0.6		С
Wall 8	east 4	East	.5	2.4	1.2	1.2	3.99	0.3		C
Wall 9	east 5	East	6	2,4	14.4	13.4	3.99	3,4		C
Window 9-1	W5		.8	1.2		1	.43	2.2	-	
Wall 10	south 1	South	6.45	2.4	15.5	15.5	3.99	3.9		C
Wall 11	south 2	South	2.8	2.4	6.7	6.7	3.99	1.7		C
Wall 12	south 3	South	7.36	2.4	17.7	10.6	3.99	2,7		C
Window 12-1	W6	-	9	1.8		1.6	.43	3.8	_	
Window 12-2	W7	-	2.1			4.2	.43	9.8	_	
Window 12-3	W8	٠,,,	1.2	1		1.2	.43	2.8	-	
Wall 13	south 4	South	5	2.4	12	12	3.99	3		С
Wall 14	south 5	South	3	2.4	7.2	6.6	3.99	1.7		C
Window 14-1	W9		.6	1_		0.6	.43	1.4	-	
Wall 15	west 1	West	5.64	2.4	13.5	11.9	3.99	3		C
Window 15-1	W10		.9	1.8		1.6	.43	3.8	-	
Wall 16	west 2	West	2.1	2.4	5	4.3	3,99	1.1		С
Window 16-1	W11		4	1.8		0.7	.43	1.7		
Roofs										
Roof 1 Total	roof		154.7	1	154.7	154.7	4.1	37.7 212.7		
Heat Loss										

<sup>\*</sup> Any slab floor regardless of its dimensions can be assumed to have an R-value of at least R-1.3 (H1/VM1 and H1/AS1, Replacement Table 1, Note (4)).

\*\* The Shading Coefficient is only required for BPI calculations.

\*\*\* C: Cavity Construction (any construction that is not solid), T: Solid Timber, S: Other Solid Construction (Note that the use of solid timber and other solid construction types is discretional, i.e. solid timber walls and other solid walls can be treated as if they are non-solid

(NZS4218:2004 section 3.1.4.).)

## Floor Construction Details

Slab floor	inte	ernal surface 0.09		
Flooring	none (Example: po	olished surface of a concrete floor)		
		R-value: 0		
	Insulatio	on value of the slabfloor		
Slab floor area [m²]:	154.7			
Perimeter length [m]:	70.35			
External wall thickness [mm]:	.3 [i]			
Soil conductivity [W/m °C]:	1.2			
Underslab insulation:	Total slab	Expol Thermaslab (H) R-2.8 Concrete Slab:	2.8	Lil
Slab edge insulation:	External	Expol Thermaslab (S) R-1.3 Concrete Slab:	1.3	i
		R-value: 2.69		
	-			
	2.	78 m²K/W.		

## Wall Construction Details

	external si	urface 0.03	
Cladding	60mm EPS (R1.66) with	plaster finish	
		ue: 1.66	
	Insulation		
15-90mm venter	d cavity (all R-values on	ext. side of cavity will be halved), R: 0.08	
	Air Barrier Building R-valu	paper ue: 0.01	
Timber Frame & Cav	vity 144mm, studs @ 60	0mm, no dwangs	
Frame Area: 11.4% Cavity Area: 88.6%			
Contract Con	er Frame	Insulation 3.6	
	alue: 1.19	still Airgap	
R-ve		Still Allyap	
R-va		none	
R-ve	·		
	ng Gypsum plasterboard	none  R-value: 0	
		none  R-value: 0	
	R-valu	none  R-value: 0	

## **Roof Construction Details**

imber framed roof, fl	external surface	0.03		
Roofing	Metal tiles with building paper			
	R-value: 0.0	01		
	Roof space (still a	ir) 0.11		
	Insulation			
	Timber Frame &	Cavity		
125mm rafters or j	oists @ 400mm, battens (covered	d with insulation)		
Frame A	rea: 11.8%	Cavity Area: 88.2%		
	and dwangs ue: 1.03	Insulation 6		
Ceiling	Lining Gypsum plasterboard 10n			
	R-value: 0.0			
	internal surface	0.09		
	Recessed down	lights		
Ceiling area [m²]:	Number of downlights:	Clearance from lamp holder side [m]:		
	4.1 m²	K/W.		

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