

Sharalyn Fraser *Agency*

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CODE COMPLIANCE CERTIFICATE

Section 95 Building Act 2004

Consent No: 090214



The Building		
Street address of building:	125 Nikau Palm Road, Paraparaumu Rural Dwelling	Building name:
Current, Lawfully established, use:		Location of building within site/block number:
Level/unit number:		Intended life of the building if 50 years or less:
Legal description of land where building is located:	LOT 4 DP 82049	Year first constructed:
The Owner		
Name of owner:	Roulston Thomas Sinclair & Roulston Olga Mikhailovna	Street address /registered office:
Contact person:		Phone numbers:
Mailing address:	125 Nikau Palm Road Nikau Valley Paraparaumu 5032	Landline:
Email address:	tom@dvcs.co.nz	Mobile: 0212441643
Website:		Daytime:
		After hours:
		Facsimile number:
First point of contact for communications with the Kapiti Coast District Council:		
Full Name: Architecture DM Mailing Address: 17 Gear Street, PETONE Phones:: 04 5688468 Fax: 04 5688468		
Building Work		
Building Consent No:	090214	Issued by: Kapiti Coast District Council
Project Description:	Excavation of site & construction of New Dwelling	

Code Compliance

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

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

Russell Brook – Team Leader – Site Inspections

On behalf of **Kapiti Coast District Council**

Date: 2 March 2016

Validity authenticated

24 FEB 2018

Signature: 

Producer Statement

Piped Services & Sanitary Plumbing Stacks

Construction Review

Issued by Richard Reeder Registration Number 10798

To Kapiti Coast District Council

In respect to the following

Piped Services installed in accordance with G12/AS1 as shown on the approved plans or as per the attached amended plan and Sanitary Plumbing Stacks installed in accordance with G13/AS1 or AS/NZS 3500.2.2

Installed at 125 Nikau Palm Rd

Building Consent No. 090216

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. Both hot and cold systems have been pressure tested for a period of 15 minutes at a pressure of 1500 kPa.

Name Richard Reeder Signed R Reeder Date 24-2-2012

KCDC Office use only

Producer Statement author authenticated and current registration verified

Verification & Registration checked: <https://www2.pgdb.co.nz/PGDB/PublicRegister>

Date.....

Name.....

Signature.....

24 FEB 2016

Signature: LW

Producer Statement

Private Sewer Drains

Construction Review

Issued by Lindsey Ford Registration Number 11330

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 125 Nikau Palm

Building Consent No. 090214

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 Lindsey Ford Signature L Ford Date 23/2/12

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>

Date.....

Name.....

Signature.....

24 FEB 2016

Signature: (L)

Producer Statement

Stormwater Drains

Construction Review

Issued by Lindsey Ford Registration Number 11330

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 125 Nikau Palm

Building Consent No. 090214

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 Lindsey Ford Signed LF Ford Date 23/2/12

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

KCDC Office use only

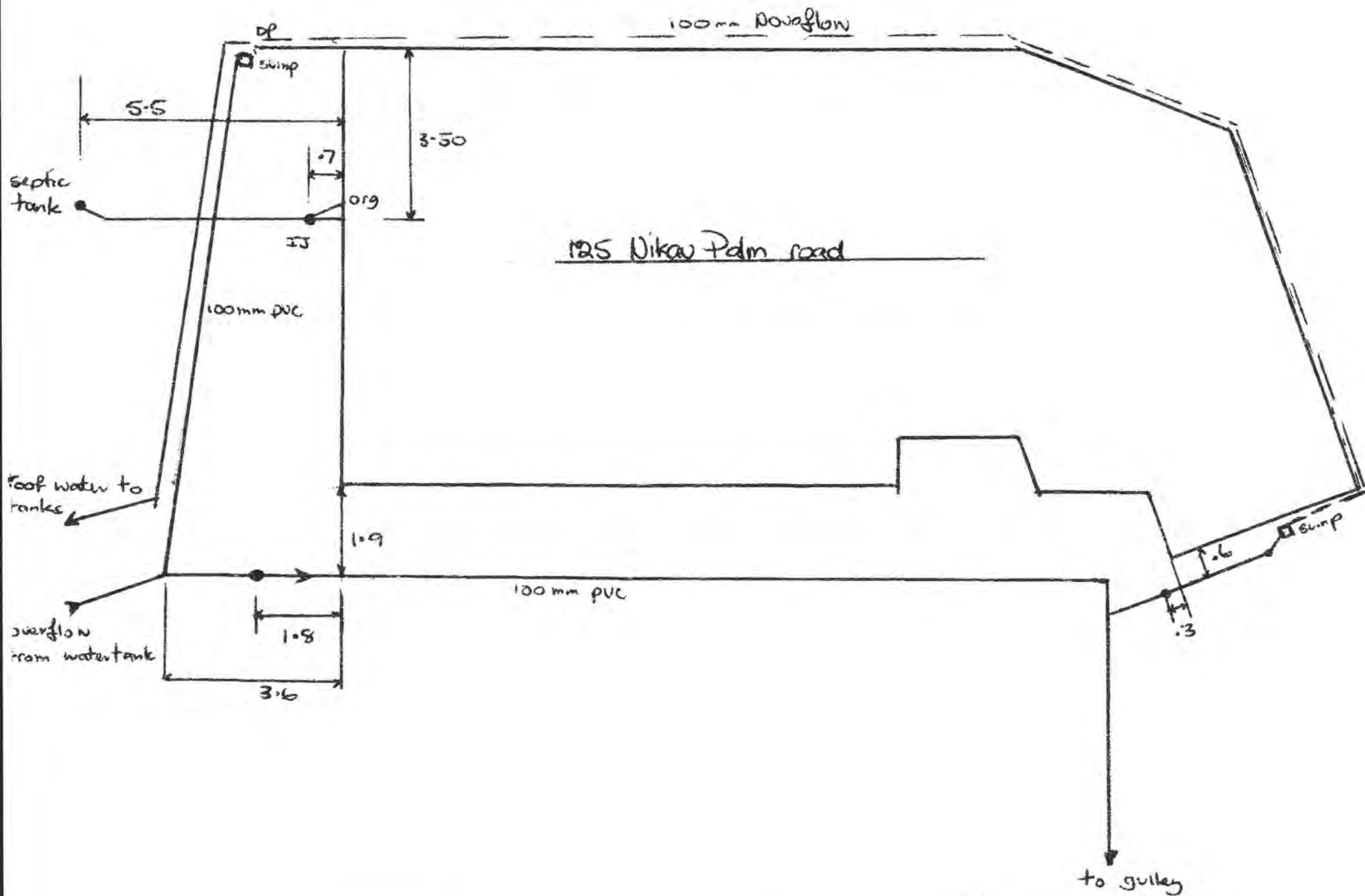
Producer Statement author authenticated and current registration verified

Verification & Registration checked: <https://www2.pgdb.co.nz/PGDB/PublicRegister>

Date.....

Name.....

Signature.....



SCOPE OF INSPECTION SHEET

Date 29-10-2010 SR or BCA 090214 Inspection No. 19
 Time 2:00 Documents on site ☒ YES ☐ NO
 Owner Name _____ Project Description New dwg
 Site Address 125 Nikau Palm Rd

☒ Building ☐ Plumbing Circle appropriate Type & Inspection Other Membrane
 Site Found Piles PreSlab Subfloor Drainage PreWrap PreClad Weathertight PreLine ☒ PostLine Block Brick Ret.Wall Final

Engineer Supervision Yes No n/a - Name _____

Notes _____ Diagram (if necessary) _____

* Inspection covers PUMP
 membrane to x2 bathrooms
 * 3 coats applied
 * bond breaker and mesh placed.

Photo's Taken - Nos. _____ saved / scanned? Y / N

Site instruction issued warranty at CCC

Result: ☒ Pass ☐ Part pass ☐ Fail

Confirmation of inspection by person on site

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)

Agreed, Tom Paul Sign _____ Date 29, 10, 2010
(Print Name)

Officer Name Andrew Sign _____ Date 29, 10, 2010

Additional Insp. Sheet No. _____

Information entered into data base ☐ Initial _____ Date 1/1/10

WEATHERTIGHTNESS / PRELINE / POSTLINE

Date 29-10-2010 SR or BCA 090214 Inspection No. 19

Time 2:00 Documents on site YES / NO

Owner Name Project Description New clug

Site Address 125 Nikau Palm Rd

All inspections are carried out with strict reference to the building consent granted.

P = Pass F = Fail NA = Non-Applicable

Inspection decisions are based on the extent of work inspected at the time of inspection.

Please refer to the related scope sheet for definition of the inspections extent.

Applies to all inspections

Sighted previous inspection notes	<u>Y</u>	N	NA	Conforms with approved drawings	<u>Y</u>	N	NA	Confirm Additional information/amended plan	Y	<u>N</u>	NA
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WEATHERTIGHTNESS

Cladding selection complies with BC?	P	F	NA	Roof material complies with BC?	P	F	NA	Sheets fixed to manufacturers	P	F	NA
Roof fixing complies	P	F	NA	Fixings appropriate for durability?	P	F	NA	Sheet layout	P	F	NA
Ridge/hip flashings in place	P	F	NA	Roof/wall junctions flashed	P	F	NA	Control joints where appropriate	P	F	NA
Penetrations correctly flashed	P	F	NA	Fixings appropriate for bracing elements	P	F	NA	Flashings in place	P	F	NA
Clearance provided for fascia & spouting	P	F	NA	Ground clearances achieved	P	F	NA	Clearance off deck surface	P	F	NA
Flashings/wraps in place, parapets/barriers	P	F	NA	Glazing – human impact	P	F	NA	Truss/Rafter fixings	P	F	NA

PRELINE

Max moisture Content%	P	F	NA	Insulation R Value	P	F	NA	Bracing connections	P	F	NA
Ventilation to rooms	P	F	NA	Top plate connection	P	F	NA	Air seals	P	F	NA
Timber treatment	P	F	NA	Ceiling batten spacing	P	F	NA	Bottom plate fixings	P	F	NA
Lintel/beam size & fixing	P	F	NA	Stud spacing	P	F	NA		P	F	NA
Plumber Name				TPR line	P	F	NA	Waste pipe size & test	P	F	NA
Soil pipe size and test	P	F	NA	Inbuilt S/W pipes tested	P	F	NA	Floor wastes	P	F	NA
Pipes fixed/supported	P	F	NA	Vents terminated	P	F	NA	Shut off valves	P	F	NA
System: AS3500, G13, Other	P	F	NA	Pressure Test	P	F	NA	Fire wraps and collars	P	F	NA

POSTLINE

Sheet bracing	P	F	NA	Wet area substrate system	P	F	NA	Sheet fixings	P	F	NA
Penetrations sleeved	P	F	NA		P	F	NA	Fire/Acoustic separation	P	F	NA

Officer Name: Andrew Officer Sign: [Signature] Date: 29.10.2010

SCOPE OF INSPECTION SHEET

Date 8/6/10 SR or BCA 090214 Inspection No. 18

Time Documents on site YES / NO
Owner Name Roulston Project Description New Dwelling
Site Address 125 Nikau Palm Rd Taranaki

☒ Building ☐ Plumbing

Circle 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 * Inspection to ground floor Diagram (if necessary)
Post line.

* All ~~brace~~ brace sheets
fixed as required

* Substrate linings to
shower fixed as required

* OK to plaster

Photo's Taken - Nos. saved / scanned? Y / N

Site instruction issued

Result: ☒ Pass ☐ Part pass ☐ Fail

Confirmation of inspection by person on site

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)

Agreed, Tom Roulston Sign [Signature] Date 1/1/10

Officer Name Russell Brook Sign [Signature] Date 8/6/10

Additional Insp. Sheet No.

Information entered into data base ☐ Initial Date 1/1/10

WEATHERTIGHTNESS / PRELINE / POSTLINE

Date 8/6/10 SR or BCA 090214 Inspection No. 18

Time Documents on site YES / NO

Owner Name Roultston Project Description New Dwelling

Site Address 125 Nikau Palm Rd Tem

All inspections are carried out with strict reference to the building consent granted.

P = Pass F = Fail NA = Non-Applicable

Inspection decisions are based on the extent of work inspected at the time of inspection.

Please refer to the related scope sheet for definition of the inspections extent.

Applies to all inspections

Sighted previous inspection notes	Y	N	NA	Conforms with approved drawings	Y	N	NA	Confirm Additional information/amended plan	Y	N	NA
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WEATHERTIGHTNESS

Cladding selection complies with BC?	P	F	NA	Roof material complies with BC?	P	F	NA	Sheets fixed to manufacturers	P	F	NA
Roof fixing complies	P	F	NA	Fixings appropriate for durability?	P	F	NA	Sheet layout	P	F	NA
Ridge/hip flashings in place	P	F	NA	Roof/wall junctions flashed	P	F	NA	Control joints where appropriate	P	F	NA
Penetrations correctly flashed	P	F	NA	Fixings appropriate for bracing elements	P	F	NA	Flashings in place	P	F	NA
Clearance provided for fascia & spouting	P	F	NA	Ground clearances achieved	P	F	NA	Clearance off deck surface	P	F	NA
Flashings/wraps in place, parapets/barriers	P	F	NA	Glazing – human impact	P	F	NA	Truss/Rafter fixings	P	F	NA

PRELINE

Max moisture Content	P	F	NA	Insulation R Value	P	F	NA	Bracing connections	P	F	NA
Ventilation to rooms	P	F	NA	Top plate connection	P	F	NA	Air seals	P	F	NA
Timber treatment	P	F	NA	Ceiling batten spacing	P	F	NA	Bottom plate fixings	P	F	NA
Lintel/beam size & fixing	P	F	NA	Stud spacing	P	F	NA		P	F	NA
Plumber Name				TPR line	P	F	NA	Waste pipe size & test	P	F	NA
Soil pipe size and test	P	F	NA	Inbuilt S/W pipes tested	P	F	NA	Floor wastes	P	F	NA
Pipes fixed/supported	P	F	NA	Vents terminated	P	F	NA	Shut off valves	P	F	NA
System: AS3500 G13, Other	P	F	NA	Pressure Test	P	F	NA	Fire wraps and collars	P	F	NA

POSTLINE

Sheet bracing	P	F	NA	Wet area substrate system	P	F	NA	Sheet fixings	P	F	NA
Penetrations sleeved	P	F	NA		P	F	NA	Fire/Acoustic separation	P	F	NA

Officer Name: Russell Brook Officer Sign: [Signature] Date: 8, 6, 10

SCOPE OF INSPECTION SHEET

Date 28/5/10 SR or BCA 090214 Inspection No. 17

Time Documents on site ☒ YES ☐ NO

Owner Name Roulston Project Description

Site Address 125 Nikau Palm Rd Paraparaumu.

☒ Building ☐ Plumbing

Circle 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 * Ceiling diaphragm completed as required
* On site amendment received for brace unit change
minor alteration still falls within bracing schedule requirements
* Aqualine gip board fixed as require for shower walls
* No detail on consented documentation re- wet area shower membrane & application

Diagram (if necessary) * This inspection for first floor only

Photo's Taken - Nos. saved / scanned? Y / N

Site instruction issued Confirmation of wet area membrane to showers yet to come. Before application of membrane confirmation to be supplied

* Revised plan showing new window and ~~base~~ elevation

Result: ☒ Pass ☐ Part pass ☐ Fail

Confirmation of inspection by person on site

Person on site: Builder ☐ Owner ☒ Other ☐ No One on site ☐

Your next inspection will be Post line for ground floor
(Guidance notes for inspection on the rear of this sheet)

Agreed, Tom Roulston Sign [Signature] Date 1/1/10

Officer Name Russell Borch Sign [Signature] Date 28/5/10

Additional Insp. Sheet No.

Information entered into data base ☐ Initial Date 1/1/10

WEATHERTIGHTNESS / PRELINE / POSTLINE

Date 28/5/10 SR or BCA 090214 Inspection No. 17

Time Documents on site YES / NO

Owner Name Roulston Project Description

Site Address 125 Nikau Palm Rd Paraparaumu

All inspections are carried out with strict reference to the building consent granted.

P = Pass F = Fail NA = Non-Applicable

Inspection decisions are based on the extent of work inspected at the time of inspection.

Please refer to the related scope sheet for definition of the inspections extent.

Applies to all inspections

Sighted previous inspection notes	Y	N	NA	Conforms with approved drawings	Y	N	NA	Confirm Additional information/amended plan	Y	N	NA
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WEATHERTIGHTNESS

Cladding selection complies with BC?	P	F	NA	Roof material complies with BC?	P	F	NA	Sheets fixed to manufacturers	P	F	NA
Roof fixing complies	P	F	NA	Fixings appropriate for durability?	P	F	NA	Sheet layout	P	F	NA
Ridge/hip flashings in place	P	F	NA	Roof/wall junctions flashed	P	F	NA	Control joints where appropriate	P	F	NA
Penetrations correctly flashed	P	F	NA	Fixings appropriate for bracing elements	P	F	NA	Flashings in place	P	F	NA
Clearance provided for fascia & spouting	P	F	NA	Ground clearances achieved	P	F	NA	Clearance off deck surface	P	F	NA
Flashings/wraps in place, parapets/barriers	P	F	NA	Glazing – human impact	P	F	NA	Truss/Rafter fixings	P	F	NA

PRELINE

Max moisture Content	P	F	NA	Insulation R Value	P	F	NA	Bracing connections	P	F	NA
Ventilation to rooms	P	F	NA	Top plate connection	P	F	NA	Air seals	P	F	NA
Timber treatment	P	F	NA	Ceiling batten spacing	P	F	NA	Bottom plate fixings	P	F	NA
Lintel/beam size & fixing	P	F	NA	Stud spacing	P	F	NA		P	F	NA
Plumber Name				TPR line	P	F	NA	Waste pipe size & test	P	F	NA
Soil pipe size and test	P	F	NA	Inbuilt S/W pipes tested	P	F	NA	Floor wastes	P	F	NA
Pipes fixed/supported	P	F	NA	Vents terminated	P	F	NA	Shut off valves	P	F	NA
System: AS3500, G13, Other	P	F	NA	Pressure Test	P	F	NA	Fire wraps and collars	P	F	NA

POSTLINE

Sheet bracing	P	F	NA	Wet area substrate system	P	F	NA	Sheet fixings	P	F	NA
Penetrations sleeved	P	F	NA		P	F	NA	Fire/Acoustic separation	P	F	NA

Officer Name: Officer Sign: Date:/...../.....

SCOPE OF INSPECTION SHEET

Date 28/5/10 SR or BCA 090214 Inspection No. 146

Time 1315 Documents on site YES / NO

Owner Name Houstan Project Description New Building

Site Address 125 NIKAU PALM RD

☒ Building ☐ Plumbing

Circle 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 Diagram (if necessary)

This inspection covers
upper level only based
on proposed Building Amendment

o Building SH66T Install Collect

o SH66T Fixing Collect

Photo's Taken - Nos. saved / scanned? Y / N

Site instruction issued

o Complete Amendments for items noted
in Feb 13 21/4/10 (Window egress / Block
alterations)

o Noted that no internal wall
flashing installed in ensuite shower for
proposed tile install: Owner

Advised to supply application installed
in formation supporting this
AS NOT REQUIRED

Confirmation of inspection by person on site

Person on site: Builder ☐ Owner ☒ Other ☐ No One on site ☐

Your next inspection will be Recheck for a door items
(Guidance notes for inspection on the rear of this sheet)

Agreed, Jefferson Sign Supie Date 28, 5, 10

Officer Name Truckee Sign [Signature] Date 28, 5, 10

Additional Insp. Sheet No.

Information entered into data base ☐ Initial [Initials] Date 1/1/10

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 drains are installed and under test, before backfilling occurs. As laid drainage plan is required at time of inspection.

Pre-wrap: When all roof sheeting has been installed.

Pre-clad: When building cavity closers and all flashings have been installed.

Weathertightness: When all weathertightening coating system have been applied.

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

Pre-line (building): When all structural components (including bracing) have been installed and wall insulation applied.

Wet area membranes: When all wet area membranes have been installed, ready for post application of wet area membrane.

Post-line: When all internal wall bracing elements are installed and checked.

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.

OWNER
ADVISED TO
Supply Application/
FURTHER INFORMATION
SUPPORTING THIS AS
NOT REQUIRED

rior sheet bracing, but before building wrap has

has been installed, cavity battens (cavity systems), been installed.

n place, air seals fitted to openings, but before any

ng pipe work is under test pressure.

structural components (including bracing) have been

wet area membrane, when all outlets and flashings

g, Scotia or plastering stopping. Installation details

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.
3. You have the right under the Privacy Act 1993 to obtain access to, and to request correction of any personal information held by Council concerning you.

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

WEATHERTIGHTNESS / PRELINE / POSTLINE

Date 28/5/10 SR or BCA 090214 Inspection No. 146

Time 1315 Documents on site YES / NO

Owner Name Boulston Project Description W.G. Building

Site Address 125 NIKAU TARM RD

All inspections are carried out with strict reference to the building consent granted.

P = Pass F = Fail NA = Non-Applicable

Inspection decisions are based on the extent of work inspected at the time of inspection.

Please refer to the related scope sheet for definition of the inspections extent.

Applies to all inspections

Sighted previous inspection notes	☒ Y	☒ N	NA	Conforms with approved drawings	☒ Y	☒ N	NA	Confirm Additional information/amended plan	☐ Y	☐ N	☒ NA
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WEATHERTIGHTNESS

Cladding selection complies with BC?	P	F	NA	Roof material complies with BC?	P	F	NA	Sheets fixed to manufacturers	P	F	NA
Roof fixing complies	P	F	NA	Fixings appropriate for durability?	P	F	NA	Sheet layout	P	F	NA
Ridge/hip flashings in place	P	F	NA	Roof/wall junctions flashed	P	F	NA	Control joints where appropriate	P	F	NA
Penetrations correctly flashed	P	F	NA	Fixings appropriate for bracing elements	P	F	NA	Flashings in place	P	F	NA
Clearance provided for fascia & spouting	P	F	NA	Ground clearances achieved	P	F	NA	Clearance off deck surface	P	F	NA
Flashings/wraps in place, parapets/barriers	P	F	NA	Glazing - human impact	P	F	NA	Truss/Rafter fixings	P	F	NA

PRELINE

Max moisture Content	P	F	NA	Insulation R Value	P	F	NA	Bracing connections	P	F	NA
Ventilation to rooms	P	F	NA	Top plate connection	P	F	NA	Air seals	P	F	NA
Timber treatment	P	F	NA	Ceiling batten spacing	P	F	NA	Bottom plate fixings	P	F	NA
Lintel/beam size & fixing	P	F	NA	Stud spacing	P	F	NA		P	F	NA
Plumber Name				TPR line	P	F	NA	Waste pipe size & test	P	F	NA
Soil pipe size and test	P	F	NA	Inbuilt S/W pipes tested	P	F	NA	Floor wastes	P	F	NA
Pipes fixed/supported	P	F	NA	Vents terminated	P	F	NA	Shut off valves	P	F	NA
System: AS3500, G13, Other	P	F	NA	Pressure Test	P	F	NA	Fire wraps and collars	P	F	NA

POSTLINE

Sheet bracing	☒ P	F	NA	Wet area substrate system	☒ P	☒ F	NA	Sheet fixings	☒ P	F	NA
Penetrations sleeved	P	F	☒ NA		P	F	NA	Fire/Acoustic separation	P	F	☒ NA

Officer Name: _____ Officer Sign: _____ Date: 28/5/10

SCOPE OF INSPECTION SHEET

Date 25/5/10 SR or BCA 090214 Inspection No. 15
 Time 3.40 Documents on site YES / NO
 Owner Name Roulston Project Description new dug
 Site Address 25 Nihau Pkwy

Building Plumbing

Circle 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 FEED FROM TANK - AN FEEDS
20mm FOR ALL FIXTURES USED
OUT SEWER CLIPPED + SECURE UNDER
TEST + HOUSING
STACK SYSTEM FOR WASTE + SEWER
Also UNDER TEST

Diagram (if necessary)

HEATING - SOLAR + WGT BACK
INTO CYLINDERS 2

Photo's Taken - Nos. saved / scanned? Y / N

Site instruction issued TO COMPLETE WORK

Result: Pass Part pass Fail

Confirmation of inspection by person on site

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)

Agreed ✓ Sign [Signature] Date 25/5/10
(Print Name)

Officer Name GANTHAK Sign [Signature] Date 25/5/10

Additional Insp. Sheet No.

Information entered into data base ☐ Initial Date 1/1/10

WEATHERTIGHTNESS / PRELINE / POSTLINE

Date 25/5/10 SR or BCA 090214 Inspection No. 15

Time 3:40 Documents on site YES / NO

Owner Name Paulson Project Description new dug

Site Address 25 Rikau Pkwy

All inspections are carried out with strict reference to the building consent granted.

P = Pass F = Fail NA = Non-Applicable

Inspection decisions are based on the extent of work inspected at the time of inspection.

Please refer to the related scope sheet for definition of the inspections extent.

Applies to all inspections

Sighted previous inspection notes	Y	N	NA	Conforms with approved drawings	Y	N	NA	Confirm Additional information/amended plan	Y	N	NA
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WEATHERTIGHTNESS

Cladding selection complies with BC?	P	F	NA	Roof material complies with BC?	P	F	NA	Sheets fixed to manufacturers	P	F	NA
Roof fixing complies	P	F	NA	Fixings appropriate for durability?	P	F	NA	Sheet layout	P	F	NA
Ridge/hip flashings in place	P	F	NA	Roof/wall junctions flashed	P	F	NA	Control joints where appropriate	P	F	NA
Penetrations correctly flashed	P	F	NA	Fixings appropriate for bracing elements	P	F	NA	Flashings in place	P	F	NA
Clearance provided for fascia & spouting	P	F	NA	Ground clearances achieved	P	F	NA	Clearance off deck surface	P	F	NA
Flashings/wraps in place, parapets/barriers	P	F	NA	Glazing - human impact	P	F	NA	Truss/Rafter fixings	P	F	NA

PRELINE

Max moisture Content	P	F	NA	Insulation R Value	P	F	NA	Bracing connections	P	F	NA
Ventilation to rooms	P	F	NA	Top plate connection	P	F	NA	Air seals	P	F	NA
Timber treatment	P	F	NA	Ceiling batten spacing	P	F	NA	Bottom plate fixings	P	F	NA
Lintel/beam size & fixing	P	F	NA	Stud spacing	P	F	NA		P	F	NA
Plumber Name				TPR line	P	F	NA	Waste pipe size & test	P	F	NA
Soil pipe size and test	P	F	NA	Inbuilt S/W pipes tested	P	F	NA	Floor wastes	P	F	NA
Pipes fixed/supported	P	F	NA	Vents terminated	P	F	NA	Shut off valves	P	F	NA
System: AS3500, G13, Other	P	F	NA	Pressure Test	P	F	NA	Fire wraps and collars	P	F	NA

POSTLINE

Sheet bracing	P	F	NA	Wet area substrate system	P	F	NA	Sheet fixings	P	F	NA
Penetrations sleeved	P	F	NA		P	F	NA	Fire/Acoustic separation	P	F	NA

Officer Name: Officer Sign: [Signature] Date: 25/5/10

SCOPE OF INSPECTION SHEET

Date 4/5/10 SR or BCA 090214 Inspection No. 14
 Time 11:30 Documents on site YES / NO
 Owner Name KOULS B2 Project Description NEW DWELLING
 Site Address 125 MKRU PARM RD

☒ Building ☐ Plumbing ☐ Other
 Circle appropriate Type & Inspection

Site Found Piles PreSlab Subfloor Drainage PreWrap PreClad Weathertight ☒ PreLine ☐ PostLine Block Brick Ret.Wall Final

Engineer Supervision ☒ Yes ☐ No n/a - Name

Notes Diagram (if necessary)

17 Lms from inspection 13
now completed

Photo's Taken - Nos. saved / scanned? Y / N

Site instruction issued

OK TO CONTINUE

Result: ☒ Pass ☐ Part pass ☐ Fail

Confirmation of inspection by person on site

Person on site: Builder ☒ Owner ☐ Other ☐ No One on site ☐

Your next inspection will be PRELIM PLUMBING - POSTLIM
 (Guidance notes for inspection on the rear of this sheet)

Agreed, Jamie (Print Name) Sign [Signature] Date 1/1/10

Officer Name [Signature] Sign [Signature] Date 4/5/10

Additional Insp. Sheet No.

WEATHERTIGHTNESS / PRELINE / POSTLINE

Date 4/5/10 SR or BCA 090214 Inspection No. 14

Time 11:30 Documents on site YES / NO

Owner Name KOULS B2 Project Description NEW DWELLING

Site Address 125 NIKAU PARK RD

All inspections are carried out with strict reference to the building consent granted.

P = Pass F = Fail NA = Non-Applicable

Inspection decisions are based on the extent of work inspected at the time of inspection.

Please refer to the related scope sheet for definition of the inspections extent.

Applies to all inspections

Sighted previous inspection notes	Y	N	NA	Conforms with approved drawings	Y	N	NA	Confirm Additional information/amended plan	Y	N	NA
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WEATHERTIGHTNESS

Cladding selection complies with BC?	P	F	NA	Roof material complies with BC?	P	F	NA	Sheets fixed to manufacturers	P	F	NA
Roof fixing complies	P	F	NA	Fixings appropriate for durability?	P	F	NA	Sheet layout	P	F	NA
Ridge/hip flashings in place	P	F	NA	Roof/wall junctions flashed	P	F	NA	Control joints where appropriate	P	F	NA
Penetrations correctly flashed	P	F	NA	Fixings appropriate for bracing elements	P	F	NA	Flashings in place	P	F	NA
Clearance provided for fascia & spouting	P	F	NA	Ground clearances achieved	P	F	NA	Clearance off deck surface	P	F	NA
Flashings/wraps in place, parapets/barriers	P	F	NA	Glazing – human impact	P	F	NA	Truss/Rafter fixings	P	F	NA

PRELINE

Max moisture Content	P	F	NA	Insulation R Value	P	F	NA	Bracing connections	P	F	NA
Ventilation to rooms	P	F	NA	Top plate connection	P	F	NA	Air seals	P	F	NA
Timber treatment	P	F	NA	Ceiling batten spacing	P	F	NA	Bottom plate fixings	P	F	NA
Lintel/beam size & fixing	P	F	NA	Stud spacing	P	F	NA		P	F	NA
Plumber Name				TPR line	P	F	NA	Waste pipe size & test	P	F	NA
Soil pipe size and test	P	F	NA	Inbuilt S/W pipes tested	P	F	NA	Floor wastes	P	F	NA
Pipes fixed/supported	P	F	NA	Vents terminated	P	F	NA	Shut off valves	P	F	NA
System: AS3500, G13, Other	P	F	NA	Pressure Test	P	F	NA	Fire wraps and collars	P	F	NA

POSTLINE

Sheet bracing	P	F	NA	Wet area substrate system	P	F	NA	Sheet fixings	P	F	NA
Penetrations sleeved	P	F	NA		P	F	NA	Fire/Acoustic separation	P	F	NA

Officer Name: Officer Sign: Date:/...../.....

SCOPE OF INSPECTION SHEET

Date 21/4/10 SR or BCA 090214 Inspection No. 13
 Time 1420 Documents on site YES / NO
 Owner Name ROULSTON Project Description NEW DWELLING
 Site Address 125 NIKAU PALM RD

☒ Building ☐ Plumbing

Circle 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 ISP/Johnathan

Notes PRELIME 1 FAILED Diagram (if necessary)

BATHS 90% COMPLETED
AIR SEALS COMPLETED
MOISTURE CONTENT CORRECT
OK TO LINE CEILINGS
BEAMS/POSTS INSPECTED BY
ENGINEER - SUPPLY ENG 54 AT FINAL
2/ WEATHERTIGHTNESS

All Completed As Per Consent
PASS II

Complete Amendment
For CHANGE FROM BIB TO
PLY BLOCK LEVEL 1
Complete
Amendment for
WINDOW CHANGE EAST
WING. LEVEL 2
WEST WING. PLUS
BRACE CHANGE.

Photo's Taken - Nos. saved / scanned? Y / N

Site instruction issued

BRACING ELEMENTS MISSING, BOTTOM
POST FIXINGS REQUIRING AND/OR AMENDMENT
REQUIRED MARKED O = REINSPECTION
REQUIRED
BUILDER ADVISED SAFETY RAILS
REQUIRED FOR LEVEL 2
OPENING TO LEVEL 1

Result: **Pass**

Part pass

Fail

Confirmation of inspection by person on site

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)

Agreed,..... Sign..... Date 21/4/10

Officer Name..... Sign..... Date 21/4/10

Additional Insp. Sheet No.

Information entered into data base ☐ Initial Date 1.1.

WEATHERTIGHTNESS / PRELINE / POSTLINE

Date 21/4/10 SR or BCA 090514 Inspection No. 13

Time 1420 Documents on site YES / NO

Owner Name ROULSTON Project Description NEW DWELLING

Site Address 125 NIKAU PALM RD

All inspections are carried out with strict reference to the building consent granted.

P = Pass F = Fail NA = Non-Applicable

Inspection decisions are based on the extent of work inspected at the time of inspection.

Please refer to the related scope sheet for definition of the inspections extent.

Applies to all inspections

Sighted previous inspection notes	Y	N	NA	Conforms with approved drawings	Y	N	NA	Confirm Additional information/amended plan	Y	N	NA
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WEATHERTIGHTNESS

Cladding selection complies with BC?	P	F	NA	Roof material complies with BC?	P	F	NA	Sheets fixed to manufacturers	P	F	NA
Roof fixing complies	P	F	NA	Fixings appropriate for durability?	P	F	NA	Sheet layout	P	F	NA
Ridge/hip flashings in place	P	F	NA	Roof/wall junctions flashed	P	F	NA	Control joints where appropriate	P	F	NA
Penetrations correctly flashed	P	F	NA	Fixings appropriate for bracing elements	P	F	NA	Flashings in place	P	F	NA
Clearance provided for fascia & spouting	P	F	NA	Ground clearances achieved	P	F	NA	Clearance off deck surface	P	F	NA
Flashings/wraps in place, parapets/barriers	P	F	NA	Glazing – human impact	P	F	NA	Truss/Rafter fixings	P	F	NA

PRELINE

Max moisture Content <u>17</u> %	P	F	NA	Insulation R Value <u>0.25</u>	P	F	NA	Bracing connections	P	F	NA
Ventilation to rooms	P	F	NA	Top plate connection	P	F	NA	Air seals	P	F	NA
Timber treatment	P	F	NA	Ceiling batten spacing	P	F	NA	Bottom plate fixings	P	F	NA
Lintel/beam size & fixing	P	F	NA	Stud spacing	P	F	NA		P	F	NA
Plumber Name				TPR line	P	F	NA	Waste pipe size & test	P	F	NA
Soil pipe size and test	P	F	NA	Inbuilt S/W pipes tested	P	F	NA	Floor wastes	P	F	NA
Pipes fixed/supported	P	F	NA	Vents terminated	P	F	NA	Shut off valves	P	F	NA
System: AS3500, G13, Other	P	F	NA	Pressure Test	P	F	NA	Fire wraps and collars	P	F	NA

POSTLINE

Sheet bracing	P	F	NA	Wet area substrate system	P	F	NA	Sheet fixings	P	F	NA
Penetrations sleeved	P	F	NA		P	F	NA	Fire/Acoustic separation	P	F	NA

Officer Name: [Signature] Officer Sign: [Signature] Date: 21/4/10

SCOPE OF INSPECTION SHEET

Date 29/1/10 SR or BCA 090214 Inspection No. 12
Time 1350 Documents on site YES / NO
Owner Name Roulston Project Description New Decking
Site Address 125 Nikau Palm Rd

☒ Building ☐ Plumbing

Circle 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..... Diagram (if necessary)

STAGE 1 - WRAP / FLEXIBLE TAPE.
INSTALL PRIOR TO
BARRICADE CAVITY CLADDING.
16LY SHEET

• WRAP COMPLETED EXCEPT
FOR AREA HOLEN IN DIFLEX / COVER UP

• FLEXIBLE SEAL TAPE.
- ALUBRAND / TUBO KRAFT

Photo's Taken - Nos. saved / scanned? Y / N

Site instruction issued

• Complete North External Cavity Cladding
Materials on Site

Result: ☒ Pass ☐ Part pass ☐ Fail

Confirmation of inspection by person on site

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)

Agreed, Tom Roulston Sign [Signature] Date 29/1/10

Officer Name Tom Roulston Sign [Signature] Date 29/1/10

Additional Insp. Sheet No.

Information entered into data base ☐ Initial Date 1/1

PRE WRAP / PRE CLAD

Date 29/1/10 SR or BCA 090214 Inspection No. 12
Time 1350 Documents on site YES / NO
Owner Name Koulston Project Description New Deck
Site Address 125 NIKAU PALM RD

All inspections are carried out with strict reference to the building consent granted.

P = Pass F = Fail NA = Non-Applicable

Inspection decisions are based on the extent of work inspected at the time of inspection.

Please refer to the related scope sheet for definition of the inspections extent.

Applies to all inspections

Sighted previous inspection notes	Y	N	NA	Conforms with approved drawings	Y	N	NA	Confirm Additional information/amended plan	Y	N	NA
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PRE WRAP

Cladding type identified	P	F	NA	Exterior sheet bracing & angle brace fixing	P	F	NA	Bracing requirements	P	F	NA
Framing moisture meets cladding requirements%	P	F	NA	Bottom plate connections	P	F	NA	Purlin fixing	P	F	NA
Stud spacing appropriate for cladding	P	F	NA	Building wrap type	P	F	NA	Decking substrate	P	F	NA

PRE CLAD

Building wrap type <u>Flex 130 8. Cover up</u>	P	F	NA	Building wrap	P	F	NA	Head flashings	P	F	NA
Flexible sealing tape type <u>Harborm</u>	P	F	NA	Flexible sealing tape	P	F	NA	Sill flashings	P	F	NA
Deck membrane type <u>T/Bone claf</u>	P	F	NA	Deck membrane fixed in accordance with Spec	P	F	NA	Back flashings	P	F	NA
Saddle flashings	P	F	NA	Internal/external corner flashings	P	F	NA	Jamb flashings	P	F	NA
Capillary clearances	P	F	NA	Flashing of penetrations	P	F	NA	Ground/deck cladding clearance	P	F	NA

CAVITY SYSTEM

Additional strapping to wrap	P	F	NA	Batten timber treatment	P	F	NA	Cavity closers	P	F	NA
Battens in place	P	F	NA	Battens structural fixing	P	F	NA	Cavity spacers	P	F	NA
Cavity spacers size & slope	P	F	NA	Reinforcing fixed in place (stucco)	P	F	NA	Proprietary self spacing mesh	P	F	NA
Mesh spacers (stucco)	P	F	NA	Proprietary control joints (stucco)	P	F	NA	Rigid backing type (stucco)	P	F	NA
Fixings (galvanized or stainless) (stucco)	P	F	NA	Waterproofing to slab-edge	P	F	NA		P	F	NA

Name: _____ Officer Sign: _____ Date: 29/1/10

SCOPE OF INSPECTION SHEET

Date 27/1/10 SR or BCA 090214 Inspection No. 11
 Time 9:00 Documents on site YES / NO
 Owner Name ROAL STON Project Description NEW DWELLING
 Site Address 125 MIKAH BLVD

☒ Building ☐ Plumbing
 Circle 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 Diagram (if necessary)

REVIEW ON 15/02/10 TO

ALL NOW COMPLIANT

Photo's Taken - Nos. saved / scanned? Y / N

Site instruction issued

Result: ☒ Pass ☐ Part pass ☐ Fail

Confirmation of inspection by person on site

Person on site: Builder ☒ Owner ☐ Other ☐ No One on site ☐

Your next inspection will be PRECLAD
 (Guidance notes for inspection on the rear of this sheet)

Agreed, [Signature] Sign [Signature] Date 1/1/10

Officer Name [Signature] Sign [Signature] Date 27/1/10

Additional Insp. Sheet No.

PRE WRAP / PRE CLAD

Date 27/1/10 SR or BCA 090214 Inspection No. 11
 Time 9:30 Documents on site YES / NO
 Owner Name KAL STON Project Description NEW BUILDING
 Site Address 125 MIKAH ALM R

All inspections are carried out with strict reference to the building consent granted.

P = Pass F = Fail NA = Non-Applicable

Inspection decisions are based on the extent of work inspected at the time of inspection.

Please refer to the related scope sheet for definition of the inspections extent.

Applies to all inspections

Sighted previous inspection notes	Y	N	NA	Conforms with approved drawings	Y	N	NA	Confirm Additional information/amended plan	Y	N	NA
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PRE WRAP

Cladding type identified	P	F	NA	Exterior sheet bracing & angle brace fixing	P	F	NA	Bracing requirements	P	F	NA
Framing moisture meets cladding requirements%	P	F	NA	Bottom plate connections	P	F	NA	Purlin fixing	P	F	NA
Stud spacing appropriate for cladding	P	F	NA	Building wrap type	P	F	NA	Decking substrate	P	F	NA

PRE CLAD

Building wrap type				Building wrap	P	F	NA	Head flashings	P	F	NA
Flexible sealing tape type				Flexible sealing tape	P	F	NA	Sill flashings	P	F	NA
Deck membrane type				Deck membrane fixed in accordance with Spec	P	F	NA	Back flashings	P	F	NA
Saddle flashings	P	F	NA	Internal/external corner flashings	P	F	NA	Jamb flashings	P	F	NA
Capillary clearances	P	F	NA	Flashing of penetrations	P	F	NA	Ground/deck cladding clearance	P	F	NA

CAVITY SYSTEM

Additional strapping to wrap	P	F	NA	Batten timber treatment	P	F	NA	Cavity closers	P	F	NA
Battens in place	P	F	NA	Battens structural fixing	P	F	NA	Cavity spacers	P	F	NA
Cavity spacers size & slope	P	F	NA	Reinforcing fixed in place (stucco)	P	F	NA	Proprietary self spacing mesh	P	F	NA
Mesh spacers (stucco)	P	F	NA	Proprietary control joints (stucco)	P	F	NA	Rigid backing type (stucco)	P	F	NA
Fixings (galvanized or stainless) (stucco)	P	F	NA	Waterproofing to slab-edge	P	F	NA		P	F	NA

Name: Officer Sign: Date:/...../.....

SCOPE OF INSPECTION SHEET

Date 11/1/2010 SR or BCA 090214 Inspection No. 10
 Time 1340 Documents on site YES / NO
 Owner Name Woulston Project Description New Dwelling
 Site Address 125 NIKAU PALM RD

☒ Building ☐ Plumbing

Circle appropriate Type & Inspection Other

Site Found Piles PreSlab Subfloor Drainage ☒ PreWrap ☒ PreClad Weathertight PreLine PostLine Block Brick Ret.Wall

Engineer Supervision Yes No n/a - Name

Notes Inspection Covers Diagram (if necessary)

1/ PRE WRAP - LEVEL 1 EAST NING (WEST SIDE)
SOUTH FACING WALL
TRUSS TO TOP PLATE FIXINGS COMPLETED
INCLUDES FIXING THROUGH TO TOP PLATE 1/2
PART PASS

2/ PRE CLAD - NORTH FACING EAST END
TOP LEVEL REMAIN BIFOLD OPENING
FLEXIBLE SEAL TAPE COMPLETED
PASS

Photo's Taken - Nos. 1/ saved / scanned? Y PRE WRAP Pen Above Location

Site instruction issued
Additional Stud to Bottom Plate Fixings
To Be Completed - TAILE PHOTOS
Complete Bottom Plate Fixings & BSIA
BRACE FOR CUBIC AT PRELINE
REVIEW & AMENDMENTS FOR BRACING
Elements In Progress
FOR ALL AREAS

Result: ☒ Pass ☐ Part pass ☐ Fail

Confirmation of inspection by person on site

Person on site: Builder ☐ Owner ☒ Other ☐ No One on site ☐

Your next inspection will be PRE WRAP LEVEL 1 PRE CLAD REMAINING
 (Guidance notes for inspection on the rear of this sheet) LEVEL 1 AREAS

Agreed, Tom Woulston Sign [Signature] Date 11/1/2010

Officer Name John Kettles Sign [Signature] Date 11/1/2010

Additional Insp. Sheet No.

Information entered into data base ☐ Initial [Initials] Date 1/1/

PRE WRAP / PRE CLAD

Date 11/1/2010 SR or BCA 090214 Inspection No. 10

Time 1340 Documents on site YES / NO

Owner Name W. L. STON Project Description W. L. STON

Site Address 125 NIKAU / ALMA RD

All inspections are carried out with strict reference to the building consent granted.

P = Pass F = Fail NA = Non-Applicable

Inspection decisions are based on the extent of work inspected at the time of inspection.

Please refer to the related scope sheet for definition of the inspections extent.

Applies to all inspections

Sighted previous inspection notes	Y	N	NA	Conforms with approved drawings	Y	N	NA	Confirm Additional information/amended plan	Y	N	NA
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PRE WRAP

Cladding type identified	P	F	NA	Exterior sheet bracing & angle brace fixing	P	F	NA	Bracing requirements	P	F	NA
Framing moisture meets cladding requirements%	P	F	NA	Bottom plate connections	P	F	NA	Purlin fixing	P	F	NA
Stud spacing appropriate for cladding	P	F	NA	Building wrap type	P	F	NA	Decking substrate	P	F	NA

PRE CLAD

Building wrap type	P	F	NA	Building wrap	P	F	NA	Head flashings	P	F	NA
Flexible sealing tape type <u>Thermax</u>	P	F	NA	Flexible sealing tape	P	F	NA	Sill flashings	P	F	NA
Deck membrane type	P	F	NA	Deck membrane fixed in accordance with Spec	P	F	NA	Back flashings	P	F	NA
Saddle flashings	P	F	NA	Internal/external corner flashings	P	F	NA	Jamb flashings	P	F	NA
Capillary clearances	P	F	NA	Flashing of penetrations	P	F	NA	Ground/deck cladding clearance	P	F	NA

CAVITY SYSTEM

Additional strapping to wrap	P	F	NA	Batten timber treatment	P	F	NA	Cavity closers	P	F	NA
Battens in place	P	F	NA	Battens structural fixing	P	F	NA	Cavity spacers	P	F	NA
Cavity spacers size & slope	P	F	NA	Reinforcing fixed in place (stucco)	P	F	NA	Proprietary self spacing mesh	P	F	NA
Mesh spacers (stucco)	P	F	NA	Proprietary control joints (stucco)	P	F	NA	Rigid backing type (stucco)	P	F	NA
Fixings (galvanized or stainless) (stucco)	P	F	NA	Waterproofing to slab-edge	P	F	NA		P	F	NA

Name: _____ Officer Sign: _____ Date: 11/1/2010

SCOPE OF INSPECTION SHEET

Date 11/1/2010 SR or BCA 090214 Inspection No. 9
 Time 1340 Documents on site YES / NO
 Owner Name ROULSTON Project Description NEW DWELLING
 Site Address 125 NIKAU PALM RD

☒ Building ☐ Plumbing

Circle 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 ALL IN ONE POUR Diagram (if necessary)

LEVEL 1, BED 3

- Reinforcing in PERG
- FIRM BEARING
- STARTERS TIED TO MESH
- VAPOUR BARRIER IN PERG
- POLY SHEETS INSTALLED

Photo's Taken - Nos. saved / scanned? Y / N

Site instruction issued

- Ensure Ground Clearance Is Maintained For Cladding Fixings

Result: ☒ Pass ☐ Part pass ☐ Fail

Confirmation of inspection by person on site

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)

Agreed, Tom Boulton Sign [Signature] Date 11/1/2010

Officer Name [Signature] Sign [Signature] Date 11/1/2010

Additional Insp. Sheet No.

Information entered into data base ☐ Initial Date 1/1/10

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

Date 11/1/2010 SR or BCA 090214 Inspection No. 9
 Time 1340 Documents on site YES / NO
 Owner Name Kou LSTON Project Description New Dwelling
 Site Address 125 WIKAU PALM RD

All inspections are carried out with strict reference to the building consent granted.

P = Pass F = Fail NA = Non-Applicable

Inspection decisions are based on the extent of work inspected at the time of inspection.

Please refer to the related scope sheet for definition of the inspections extent.

SITE

Conforms with approved drawings	Y	N	NA	Checked driveway	Y	N	NA	Engineer supervision required	Y	N	NA
Scope of Resource consent granted?	Y	N	NA	Checked position off relevant boundaries and datum height	Y	N	NA		Y	N	NA
Expert Opinion (Producer statement) required	Y	N	NA	Name of Surveyor				Name of Engineer			
				Company				Company			

FOUNDATIONS

PILES

SUBFLOOR

Footings Depth	P	F	NA	Pile size	P	F	NA	Pile/Bearer/Joist Fixings	P	F	NA
Good bearing (NZS 3604)	P	F	NA	Pile layout is to plan	P	F	NA	Notching, Holes, etc	P	F	NA
Reinforcing	P	F	NA	Special piles - point load	P	F	NA	Solid Blocking	P	F	NA
Siting	P	F	NA	Timber Treatment	P	F	NA	Joists	P	F	NA
Sub-floor vents	P	F	NA	Hole depth	P	F	NA	Beams/Bearers	P	F	NA

PRE SLAB

Rebate for brick veneer	P	F	NA	Sand blinding	P	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)	P	F	NA	DPC penetrations taped	P	F	NA
Driveway s/w control	P	F	NA	Bottom plate fixings	P	F	NA	Minimum Floor Level	P	F	NA
Secondary flow path	P	F	NA	TPR line	P	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	P	F	NA	Visual leak check	P	F	NA

DRAINAGE

Pipe diameter	P	F	NA	Connections/Angles	P	F	NA	Holding water	P	F	NA
Bedding material	P	F	NA	Branch length	P	F	NA	Terminal vent	P	F	NA
Gully trap(s)	P	F	NA	Direction/Fall	P	F	NA	LBP/Registration No:			

Officer Name: [Signature] Sign: [Signature] Date: 11/1/2010

SCOPE OF INSPECTION SHEET

Date 3/12/09 SR or BCA 090214 Inspection No. 8

Time Documents on site YES / NO

Owner Name Roulston Project Description New Dwelling

Site Address 125 Nikau Palm Rd Paraparaumu

☒ Building ☐ Plumbing

Circle 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 This inspection is to the ground floor only.

Diagram (if necessary)

- * Cavity battens fixed as required
- * Aluminium flashing tape fixed as required
- * 9mm Eteapan used as backing sheet for craft stone schist
- Consented documentation states the use of 6mm fibre cement



Photo's Taken - Nos. saved / scanned? Y / N

Site instruction issued

- * Need to verify building wrap which has no trade markings - yet to resolve
- * Need to verify 9mm Eteapan ok to use in place of 6mm fibre cement

Additional information from mfr provided. 9mm eteapan sheet is specified in doc. Consented drawings are incorrect as material is not available. Agree 9mm OK.

Result: **Pass**

Part pass

Fail

Confirmation of inspection by person on site

Person on site: Builder ☒ Owner ☐ Other ☐ No One on site ☐

Your next inspection will be Inspection to 1st floor post wrap

(Guidance notes for inspection on the rear of this sheet)

Agreed, Jamie Sign Jeff Brown Date 1/1/

Officer Name Russell Brook Sign Brook Date 3/12/09

Additional Insp. Sheet No.

PRE WRAP / PRE CLAD

Date 3/12/09 SR or BCA 090214 Inspection No. 3

Time Documents on site YES / NO

Owner Name Roulston Project Description New Dwelling

Site Address 125 Nikau Palm Rd Paraparaumu

All inspections are carried out with strict reference to the building consent granted.

P = Pass F = Fail NA = Non-Applicable

Inspection decisions are based on the extent of work inspected at the time of inspection.

Please refer to the related scope sheet for definition of the inspections extent.

Applies to all inspections

Sighted previous inspection notes	Y	N	NA	Conforms with approved drawings	Y	N	NA	Confirm Additional information/amended plan	Y	N	NA
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PRE WRAP

Cladding type identified	P	F	NA	Exterior sheet bracing & angle brace fixing	P	F	NA	Bracing requirements	P	F	NA
Framing moisture meets cladding requirements%	P	F	NA	Bottom plate connections	P	F	NA	Purlin fixing	P	F	NA
Stud spacing appropriate for cladding	P	F	NA	Building wrap type	P	F	NA	Decking substrate	P	F	NA

PRE CLAD

Building wrap type				Building wrap	P	F	NA	Head flashings	P	F	NA
Flexible sealing tape type				Flexible sealing tape	P	F	NA	Sill flashings	P	F	NA
Deck membrane type				Deck membrane fixed in accordance with Spec	P	F	NA	Back flashings	P	F	NA
Saddle flashings	P	F	NA	Internal/external corner flashings	P	F	NA	Jamb flashings	P	F	NA
Capillary clearances	P	F	NA	Flashing of penetrations	P	F	NA	Ground/deck cladding clearance	P	F	NA

CAVITY SYSTEM

Additional strapping to wrap	P	F	NA	Batten timber treatment	P	F	NA	Cavity closers	P	F	NA
Battens in place	P	F	NA	Battens structural fixing	P	F	NA	Cavity spacers	P	F	NA
Cavity spacers size & slope	P	F	NA	Reinforcing fixed in place (stucco)	P	F	NA	Proprietary self spacing mesh	P	F	NA
Mesh spacers (stucco)	P	F	NA	Proprietary control joints (stucco)	P	F	NA	Rigid backing type (stucco)	P	F	NA
Fixings (galvanized or stainless) (stucco)	P	F	NA	Waterproofing to slab-edge	P	F	NA		P	F	NA

Name: Officer Sign: Date:/...../.....

SCOPE OF INSPECTION SHEET

Date 9/11/09 SR or BCA 090214 Inspection No. 7

Time 1.00 Documents on site YES / NO

Owner Name ROULSTON Project Description NEW WHEELIE

Site Address 125 NIKAU PALM ROAD

☒ Building ☐ Plumbing

Circle 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 STAGE 1 Diagram (if necessary)

BOTTOM PLATE HARD WOODS COMPLETED
LINER STRIPS

SP PLY BASEMENT TO INSIDE

Photo's Taken - Nos. saved / scanned? Y / N

Site instruction issued

CHECK WITH ENGINEER C/3 BASE

OK TO WRAP

Result: ☒ Pass ☐ Part pass ☐ Fail

Confirmation of inspection by person on site

Person on site: Builder ☐ Owner ☐ Other ☐ No One on site ☐

Your next inspection will be PRE CLAD
(Guidance notes for inspection on the rear of this sheet)

Agreed, [Signature] Sign [Signature] Date 1/1/

Officer sign [Signature] Name [Signature] Date 9/11/09

Additional Insp. Sheet No.

Information entered into data base ☐ Initial Date 1/1/

PRE WRAP / PRE CLAD

Date 9/11/09 SR or BCA 090214 Inspection No. 7

Time 1.00 Documents on site YES / NO

Owner Name KOULSTON Project Description NEW WHARF

Site Address 125 NIKAU PALM ROAD

All inspections are carried out with strict reference to the building consent granted.

P = Pass F = Fail NA = Non-Applicable

Inspection decisions are based on the extent of work inspected at the time of inspection.

Please refer to the related scope sheet for definition of the inspections extent.

Applies to all inspections

Sighted previous inspection notes	Y	N	NA	Conforms with approved drawings	Y	N	NA	Confirm Additional information/amended plan	Y	N	NA
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PRE WRAP

Cladding type identified	P	F	NA	Exterior sheet bracing & angle brace fixing	P	F	NA	Bracing requirements	P	F	NA
Framing moisture meets cladding requirements	P	F	NA	Bottom plate connections	P	F	NA	Purlin fixing	P	F	NA
Stud spacing appropriate for cladding	P	F	NA	Building wrap type	P	F	NA	Decking substrate	P	F	NA

PRE CLAD

Building wrap	P	F	NA	Building wrap	P	F	NA	Head flashings	P	F	NA
Flexible sealing tape type				Flexible sealing tape	P	F	NA	Sill flashings	P	F	NA
Deck membrane type				Deck membrane fixed in accordance with Spec	P	F	NA	Back flashings	P	F	NA
Saddle flashings	P	F	NA	Internal/external corner flashings	P	F	NA	Jamb flashings	P	F	NA
Capillary clearances	P	F	NA	Flashing of penetrations	P	F	NA	Ground/deck cladding clearance	P	F	NA

CAVITY SYSTEM

Additional strapping to wrap	P	F	NA	Batten timber treatment	P	F	NA	Cavity closers	P	F	NA
Battens in place	P	F	NA	Battens structural fixing	P	F	NA	Cavity spacers	P	F	NA
Cavity spacers size & slope	P	F	NA	Reinforcing fixed in place (stucco)	P	F	NA	Proprietary self spacing mesh	P	F	NA
Mesh spacers (stucco)	P	F	NA	Proprietary control joints (stucco)	P	F	NA	Rigid backing type (stucco)	P	F	NA
Fixings (galvanized or stainless) (stucco)	P	F	NA		P	F	NA		P	F	NA

Officer Sign: [Signature] Name: [Signature] Date: 9/11/09

SCOPE OF INSPECTION SHEET

Date 18/9/09 SR or BCA Inspection No. 6

Time 1030 Documents on site YES / NO YES

Owner Name RALSTON Project Description New Dwelling

Site Address 125 NIKAU PALMS RD

☒ Building ☐ Plumbing

Circle 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 ISP John O'HAGAN

Diagram (if necessary)

Notes STAGE 3

• WATERPROOF Membrane
Applied - SIKAPRO SB PRODUCT
Used AS PER CONSENT

• Membrane Protection
In Progress

Photo's Taken - Nos. saved / scanned? Y / N Y

Site instruction issued Supply Prod STATEMENT AT FINAL

Result: ☒ Pass ☐ Part pass ☐ Fail

Confirmation of inspection by person on site

Person on site: Builder ☐ Owner ☒ Other ☐ No One on site ☐

Your next inspection will be STAGE 1 PRE WRAP
(Guidance notes for inspection on the rear of this sheet)

Agreed, Tom Roulston Sign [Signature] Date 18/9/09

Officer Name Jay Coulton Sign [Signature] Date 18/9/09

Additional Insp. Sheet No.

BLOCK / BRICK / RETAINING WALL / SOLID FUEL HEATER

Date 18/9/09 SR or BCA 6 Inspection No. 6

Time 1030 Documents on site YES / NO

Owner Name RALSTON Project Description New Dwelling

Site Address 125 NIKAU PALMS RD

All inspections are carried out with strict reference to the building consent granted.

P = Pass F = Fail NA = Non-Applicable

Inspection decisions are based on the extent of work inspected at the time of inspection.

Please refer to the related scope sheet for definition of the inspections extent.

BLOCK

Washouts	P	F	NA	Control joints	P	F	NA	Engineer Design	P	F	NA
Reinforcing	P	F	NA	Mortar Bedding	P	F	NA	Engineer Report available	P	F	NA
Starters	P	F	NA	Eng. Company:				Eng. Name:			

BRICK VENEER

Min/max cavity achieved	P	F	NA	Mortar Bedding	P	F	NA	Rebate clear of debris	P	F	NA
Brick tie fixings	P	F	NA	Flashings to openings	P	F	NA	Veneer overhang	P	F	NA
Washouts	P	F	NA	Brick tie durability	P	F	NA	Brick tie spacing	P	F	NA
Weep holes	P	F	NA	Building wrap	P	F	NA	Head Lintels	P	F	NA
Mortar strength	P	F	NA	Under window vents	P	F	NA	Control Joints	P	F	NA

RETAINING WALL

Reinforcing	P	F	NA	Backfill drainage material	P	F	NA	Timber treatment	P	F	NA
Waterproof membrane	P	F	NA	Discharge point	P	F	NA	Surcharge to design assumptions	P	F	NA
Membrane protection	P	F	NA	subsoil drain	P	F	NA	Inclination angle	P	F	NA
Cleaning/Flush point	P	F	NA	Engineer design	P	F	NA	Engineer Report Available	P	F	NA
	P	F	NA	Eng. Company:				Eng. Name:			

SOLID FUEL HEATER

Inbuilt	Y / N			Free standing	Y / N			Wetback	Y / N		
Chimney interior	P	F	NA	Tempering valve (wetback)	P	F	NA	Ceiling plate	P	F	NA
Chimney exterior	P	F	NA	Flue swept	P	F	NA	Seismic fixing	P	F	NA
Flue height	P	F	NA	Flue support ceiling	P	F	NA	Flue flashing	P	F	NA
Smoke detectors fitted	P	F	NA	Roof	P	F	NA	Installer Check sheet	P	F	NA

Make:..... Installer:.....

Officer Sign: [Signature] Name: [Signature] Date: 18/9/09

SCOPE OF INSPECTION SHEET

Date 11/9/09 SR or BCA 090214 Inspection No. 5

Time 0945 Documents on site YES / NO

Owner Name RMS Ton Project Description New Dwelling

Site Address 125 N. Kaiti Plains Rd

☒ Building ☐ Plumbing

Circle 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 ISP / Sabri O'Flanagan

Notes Inspection Covers Top Diagram (if necessary)

5 Layers

Startons For Next

Level Slab

Reinforcing in Place

OK to Proceed

Photo's Taken - Nos. saved / scanned? Y / N

Site instruction issued

ENGINEER HAS Inspected / Approved

Supply Enc 1st

Result: ☒ Pass ☐ Part pass ☐ Fail

Confirmation of inspection by person on site

Person on site: Builder ☒ Owner ☐ Other ☐ No One on site ☐

Your next inspection will be Upper Level. Pre Slab

(Guidance notes for inspection on the rear of this sheet)

Agreed, Samir Sign [Signature] Date 11/9/09

Officer Name [Signature] Sign [Signature] Date 11/9/09

Additional Insp. Sheet No.

BLOCK / BRICK / RETAINING WALL / SOLID FUEL HEATER

Date: 11/9/09 SR or BCA: 090214 Inspection No.: 5
 Time: 0945 Documents on site YES / NO
 Owner Name: RALSTON Project Description: New Dwelling
 Site Address: 125 N. KAU / HILLS RD

All inspections are carried out with strict reference to the building consent granted.

P = Pass F = Fail NA = Non-Applicable

Inspection decisions are based on the extent of work inspected at the time of inspection.

Please refer to the related scope sheet for definition of the inspections extent.

BLOCK

Washouts	P	F	NA	Control joints	P	F	NA	Engineer Design	P	F	NA
Reinforcing	P	F	NA	Mortar Bedding	P	F	NA	Engineer Report available	P	F	NA
Starters	P	F	NA	Eng. Company:	<u>ESP</u>			Eng. Name:	<u>John E. Haden</u>		

BRICK VENEER

Min/max cavity achieved	P	F	NA	Mortar Bedding	P	F	NA	Rebate clear of debris	P	F	NA
Brick tie fixings	P	F	NA	Flashings to openings	P	F	NA	Veneer overhang	P	F	NA
Washouts	P	F	NA	Brick tie durability	P	F	NA	Brick tie spacing	P	F	NA
Weep holes	P	F	NA	Building wrap	P	F	NA	Head Lintels	P	F	NA
Mortar strength	P	F	NA	Under window vents	P	F	NA	Control Joints	P	F	NA

RETAINING WALL

Reinforcing	P	F	NA	Backfill drainage material	P	F	NA	Timber treatment	P	F	NA
Waterproof membrane	P	F	NA	Discharge point	P	F	NA	Surcharge to design assumptions	P	F	NA
Membrane protection	P	F	NA	subsoil drain	P	F	NA	Inclination angle	P	F	NA
Cleaning/Flush point	P	F	NA	Engineer design	P	F	NA	Engineer Report Available	P	F	NA
	P	F	NA	Eng. Company:				Eng. Name:			

SOLID FUEL HEATER

Inbuilt	Y / N			Free standing	Y / N			Wetback	Y / N		
Chimney interior	P	F	NA	Tempering valve (wetback)	P	F	NA	Ceiling plate	P	F	NA
Chimney exterior	P	F	NA	Flue swept	P	F	NA	Seismic fixing	P	F	NA
Flue height	P	F	NA	Flue support ceiling	P	F	NA	Flue flashing	P	F	NA
Smoke detectors fitted	P	F	NA	Roof	P	F	NA	Installer Check sheet	P	F	NA

Make:..... Installer:.....

Officer Sign:..... Name:..... Date: 11/9/09

SCOPE OF INSPECTION SHEET

Date 9-9-09 SR or BCA 090214 Inspection No. 4

Time 10:30 Documents on site YES / NO

Owner Name Robston Project Description New dwelling

Site Address 125 Nikau Palms Rd

Building Plumbing

Circle 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 BP John O'Hagan

Notes Fall Steel placed and tied Diagram (if necessary)

as engineer design
* HD 16 vertical at 200 mm centres,
400 mm ~~at~~ horizontal centres
* control joints placed x4 with
denzo tape
* inspection also covers 240 blocks
to front of garage, steel placed
as main block wall.
* washbaths placed.
* inspection covers first stage, 2-m in
height.

Photo's Taken - Nos. saved / scanned? Y / N

Site instruction issued

* engineer is on site and ok'd
* PS4 required from engineer

Result: Pass Part pass Fail

Confirmation of inspection by person on site

Person on site: Builder ☒ Owner ☐ Other ☐ No One on site ☐

Your next inspection will be Block stage II
(Guidance notes for inspection on the rear of this sheet)

Agreed, Samie Sign SX Provan Date 9.17.09
(Print Name)

Officer Name Andrew Sign Andrew Date 9.19.09

Additional Insp. Sheet No.

BLOCK / BRICK / RETAINING WALL / SOLID FUEL HEATER

Date 9-9-09 SR or BCA 090214 Inspection No. 4
 Time 10:30 Documents on site YES / NO
 Owner Name Robston Project Description New dwelling
 Site Address 125 Nikau Palms Rd

All inspections are carried out with strict reference to the building consent granted.

P = Pass F = Fail NA = Non-Applicable

Inspection decisions are based on the extent of work inspected at the time of inspection.

Please refer to the related scope sheet for definition of the inspections extent.

BLOCK

Washouts	☒ P	☐ F	☐ NA	Control joints	☒ P	☐ F	☐ NA	Engineer Design	☒ P	☐ F	☐ NA
Reinforcing	☒ P	☐ F	☐ NA	Mortar Bedding	☒ P	☐ F	☐ NA	Engineer Report available	☒ P	☐ F	☐ NA
Starters	☒ P	☐ F	☐ NA	Eng. Company:				Eng. Name:	<u>ISP</u>		

BRICK VENEER

Min/max cavity achieved	☐ P	☐ F	☒ NA	Mortar Bedding	☐ P	☐ F	☒ NA	Rebate clear of debris	☐ P	☐ F	☒ NA
Brick tie fixings	☐ P	☐ F	☒ NA	Flashings to openings	☐ P	☐ F	☒ NA	Veneer overhang	☐ P	☐ F	☒ NA
Washouts	☐ P	☐ F	☒ NA	Brick tie durability	☐ P	☐ F	☒ NA	Brick tie spacing	☐ P	☐ F	☒ NA
Weep holes	☐ P	☐ F	☒ NA	Building wrap	☐ P	☐ F	☒ NA	Head Lintels	☐ P	☐ F	☒ NA
Mortar strength	☐ P	☐ F	☒ NA	Under window vents	☐ P	☐ F	☒ NA	Control Joints	☐ P	☐ F	☒ NA

RETAINING WALL

Reinforcing	☐ P	☐ F	☒ NA	Backfill drainage material	☐ P	☐ F	☒ NA	Timber treatment	☐ P	☐ F	☒ NA
Waterproof membrane	☐ P	☐ F	☒ NA	Discharge point	☐ P	☐ F	☒ NA	Surcharge to design assumptions	☐ P	☐ F	☒ NA
Membrane protection	☐ P	☐ F	☒ NA	subsoil drain	☐ P	☐ F	☒ NA	Inclination angle	☐ P	☐ F	☒ NA
Cleaning/Flush point	☐ P	☐ F	☒ NA	Engineer design	☐ P	☐ F	☒ NA	Engineer Report Available	☐ P	☐ F	☒ NA
	☐ P	☐ F	☒ NA	Eng. Company:				Eng. Name:			

SOLID FUEL HEATER

Inbuilt	Y / N			Free standing	Y / N			Wetback	Y / N		
Chimney interior	☐ P	☐ F	☒ NA	Tempering valve (wetback)	☐ P	☐ F	☒ NA	Ceiling plate	☐ P	☐ F	☒ NA
Chimney exterior	☐ P	☐ F	☒ NA	Flue swept	☐ P	☐ F	☒ NA	Seismic fixing	☐ P	☐ F	☒ NA
Flue height	☐ P	☐ F	☒ NA	Flue support ceiling	☐ P	☐ F	☒ NA	Flue flashing	☐ P	☐ F	☒ NA
Smoke detectors fitted	☐ P	☐ F	☒ NA	Roof	☐ P	☐ F	☒ NA	Installer Check sheet	☐ P	☐ F	☒ NA

Make:..... Installer:.....

Officer Sign: [Signature] Name: Andrew Date: 9.9.09

SCOPE OF INSPECTION SHEET

Date 31/7/09 SR or BCA 09024 Inspection No. 3

Time 8:30 Documents on site ☒ YES ☐ NO

Owner Name HOLSTON Project Description new pump

Site Address 125 NIKAU AVE

Building ☒ Plumbing ☐ Circle 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 100mm PVC SOIL + WASTE PIPES IN
PLACE TO SEPTIC TANK
GIVE A TRAP IN
INSPECTION POINTS IN PLACE
GOOSEFALL + BENDS IN 3/4 CHIP
AIR TESTED + HOUSING

OK TO CONTINUE

Diagram (if necessary)

Photo's Taken - Nos. saved / scanned? Y / N

Site instruction issued AS BUILT DRAWING TO FOLLOW

Result: ☒ Pass ☐ Part pass ☐ Fail

Confirmation of inspection by person on site

Person on site: Builder ☐ Owner ☐ Other ☒ MANAGER No One on site ☐

Your next inspection will be
(Guidance notes for inspection on the rear of this sheet)

Agreed, Lindsay Ford Sign [Signature] Date 31/7/09
(Print Name)

Officer Name CARLTON Sign [Signature] Date 31/7/09

Additional Insp. Sheet No.

Information entered into data base ☐ Initial Date 31/7/09

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

Date 31/7/09 SR or BCA 090214 Inspection No. 3

Time 8:30 Documents on site YES / NO

Owner Name Holston Project Description new house

Site Address 125 Nikaia Drive

All inspections are carried out with strict reference to the building consent granted.

P = Pass F = Fail NA = Non-Applicable

Inspection decisions are based on the extent of work inspected at the time of inspection.

Please refer to the related scope sheet for definition of the inspections extent.

SITE

Conforms with approved drawings	Y	N	NA	Checked driveway	Y	N	NA	Engineer supervision required	Y	N	NA
Scope of Resource consent granted?	Y	N	NA	Checked position off relevant boundaries and datum height	Y	N	NA		Y	N	NA
Expert Opinion (Producer statement) required	Y	N	NA	Name of Surveyor	Name of Engineer						
				Company	Company						

FOUNDATIONS

PILES

SUBFLOOR

Footing Depth	P	F	NA	Pile size	P	F	NA	Pile/Bearer/Joist Fixings	P	F	NA
Good bearing (NZS 3604)	P	F	NA	Pile layout is to plan	P	F	NA	Notching, Holes, etc	P	F	NA
Reinforcing	P	F	NA	Special piles - point load	P	F	NA	Solid Blocking	P	F	NA
Siting	P	F	NA	Timber Treatment	P	F	NA	Joists	P	F	NA
Sub-floor vents	P	F	NA	Hole depth	P	F	NA	Beams/Bearers	P	F	NA

PRE SLAB

Rebate for brick veneer	P	F	NA	Sand blinding	P	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)	P	F	NA	DPC penetrations taped	P	F	NA
Driveway s/w control	P	F	NA	Bottom plate fixings	P	F	NA	Minimum Floor Level	P	F	NA
Secondary flow path	P	F	NA	TPR line	P	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	P	F	NA	Visual leak check	P	F	NA

DRAINAGE

Pipe diameter	(P)	F	NA	Connections/Angles	(P)	F	NA	Holding water	(P)	F	NA
Bedding material	(P)	F	NA	Branch length	(P)	F	NA	Terminal vent	(P)	F	NA
Gully trap(s)	(P)	F	NA	Direction/Fall	(P)	F	NA	LBP/Registration No:	<u>11330</u>		

Officer Name: _____ Sign: [Signature] Date: 31/7/09

SCOPE OF INSPECTION SHEET

Date 15/7/2009 SR or BCA 090214 Inspection No. 2
Time 3.45 pm Documents on site ☒ YES / NO
Owner Name T. Robson Project Description New Dwelling
Site Address 125 Nikau Palm Road

☒ Building ☐ Plumbing

Circle 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 ISP

Notes VAPOUR BARRIER AND POLYSTYRENE Diagram (if necessary)
UNDER FLOOR INSULATION IN PLACE

ALL STEEL IN PLACE AS PER ENGINEERS
DETAILS

ALL ITEMS REQUIRED TO BE RECEIVED
ON ENGINEERS SITE REPORT HAVE BEEN COMPLETED
MESH IN PLACE, LAPS CORRECT TO MESH SIZE
ALL STEEL TIED

LOCATION OF FOUNDATION WELL WITHIN
RESTRICTION FOR PUAL SECTION

ALL STEEL SUPPORTED BY CHAIRS
CONCRETE COVER CORRECT, CHARACTER OF BOXING CORRECT

Photo's Taken - Nos. saved / scanned? Y / N

Site instruction issued OK TO TOUR

ENGINEER PS4 AND SITE REPORTS REQUIRED FOR
CODE OF COMPLIANCE

Result: ☒ Pass ☐ Part pass ☐ Fail

Confirmation of inspection by person on site

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)

Agreed, John Brown Sign John Brown Date 15/7/9
(Print Name)

Officer Name IONY King Sign IONY King Date 15/7/9

Additional Insp. Sheet No.

Information entered into data base ☐ Initial Date 1/1/

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

Date 15/7/2009 SR or BCA 090214 Inspection No. 2

Time 3.45 pm Documents on site YES / NO

Owner Name T. Rolston Project Description New Dwelling

Site Address 175 Nikau Palm Road

All inspections are carried out with strict reference to the building consent granted.

P = Pass F = Fail NA = Non-Applicable

Inspection decisions are based on the extent of work inspected at the time of inspection.

Please refer to the related scope sheet for definition of the inspections extent.

SITE

Conforms with approved drawings	☒ Y	☐ N	☐ NA	Checked driveway	☒ Y	☐ N	☐ NA	Engineer supervision required	☒ Y	☐ N	☐ NA
Scope of Resource consent granted?	☒ Y	☐ N	☐ NA	Checked position off relevant boundaries and datum height	☒ Y	☐ N	☐ NA		☐ Y	☐ N	☐ NA
Expert Opinion (Producer statement) required	☒ Y	☐ N	☐ NA	Name of Surveyor				Name of Engineer <u>O'Hagan</u>			
				Company				Company <u>ISP</u>			

FOUNDATIONS

PILES

SUBFLOOR

Footing Depth	☒ P	☐ F	☐ NA	Pile size	☒ P	☐ F	☐ NA	Pile/Bearer/Joist Fixings	☐ P	☐ F	☐ NA
Good bearing (NZS 3604)	☒ P	☐ F	☐ NA	Pile layout is to plan	☒ P	☐ F	☐ NA	Notching, Holes, etc	☐ P	☐ F	☐ NA
Reinforcing	☒ P	☐ F	☐ NA	Special piles - point load	☒ P	☐ F	☐ NA	Solid Blocking	☐ P	☐ F	☐ NA
Siting	☒ P	☐ F	☐ NA	Timber Treatment	☒ P	☐ F	☐ NA	Joists	☐ P	☐ F	☐ NA
Sub-floor vents	☐ P	☐ F	☒ NA	Hole depth	☐ P	☐ F	☒ NA	Beams/Bearers	☐ P	☐ F	☐ NA

PRE SLAB

Rebate for brick veneer	☐ P	☐ F	☒ NA	Sand blinding	☒ P	☐ 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)	☒ P	☐ F	☐ NA	DPC penetrations taped	☒ P	☐ F	☐ NA
Driveway s/w control	☐ P	☐ F	☒ NA	Bottom plate fixings	☐ P	☐ F	☒ NA	Minimum Floor Level	☒ P	☐ F	☐ NA
Secondary flow path	☐ P	☐ F	☒ NA	TPR line	☐ P	☐ 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	☐ P	☐ F	☒ NA	Visual leak check	☐ P	☐ F	☒ NA

DRAINAGE

Pipe diameter	☐ P	☐ F	☐ NA	Connections/Angles	☐ P	☐ F	☐ NA	Holding water	☐ P	☐ F	☐ NA
Bedding material	☐ P	☐ F	☐ NA	Branch length	☐ P	☐ F	☐ NA	Terminal vent	☐ P	☐ F	☐ NA
Gully trap(s)	☐ P	☐ F	☐ NA	Direction/Fall	☐ P	☐ F	☐ NA	LBP/Registration No:			

Officer Name: Tony King Sign: [Signature] Date: 15/7/09

SCOPE OF INSPECTION SHEET

Date 10/7/09 SR or BCA 090714 Inspection No. 13

Time 4:00 Documents on site YES/NO YES

Owner Name Tom Rolston Project Description newclwy

Site Address 125 Nikau Palm Rd

☒ Building ☒ Plumbing Circle 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 room P.U.C under the

Diagram (if necessary)

Slab

wrapped in Blue Bag:

Runto AS3500 all filled with water

- Blue water main under slab

2mm T.P.R. Drain in place

Photo's Taken - Nos. 1 saved / scanned? Y / N

Site instruction issued

Provide Photos of under slab drainage

Show under slab on as-built plan

Richard Reader

Reg 10798

Result: ☒ Pass ☐ Part pass ☐ Fail

Confirmation of inspection by person on site

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)

Agreed, J. Brown Sign Date 1/1/09
(Print Name)

Officer Name Simon Sign [Signature] Date 10/7/09

Additional Insp. Sheet No.



Site Inspection Report - New BC Applications

BC Application number C.90214 Lot 4 DP 82049

Site Address: 125 NIKAU PARK RD

Building Project: new driveway

Check NCS status is currently "To Site Inspection"

Item to be checked	Decision	Record any relevant information	Action required
Contours match application?	Yes/No		
Datum point identified?	Yes/No		
Boundaries identified?	Yes/No	Survey pegs with rural fences.	
Check ground conditions OK?	Yes/No	Level site, compacted ground hard as Engineer involves.	
Check f/path, kerb & channel, grass berm, note existence/damage.	Yes/No	Good condition.	
Vehicle entrance crossing installed (describe condition)	Yes/No	Rural. Good condition.	
Photos taken? (Save & link to NCS)	Yes/No	- in trans file	
Dogs on property?	Yes/No		
Is there a requirement for further foundation investigation e.g. Engineers design	Yes/No		Referred to Approvals T/L Yes / No
Record all decisions in accordance with KCDC Policy 007. Circle Yes or No in each case.			

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

Inspecting Officer: Name CALVIN Signature [Signature]

Date Inspected: 2/4/09

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

FOR COUNCIL USE:

DEPARTMENT	TICK FOR REFERRAL	COMMENTS	APPROVING OFFICER/ DATE
Resource Consents (refer PIM Sheet)	✓		
Plumbing and Drainage	✓		11/5/2009
Building	✓	Stuart Nepra 11-05-09	
Fire Design			
Compliance Schedule			
Environmental Health			
Site- Footpath & Entrance Conditions		Ground	
NOTES: SEE SITE NOTES			



Building Consent N
Building Project

090214

Location (Site Add)

New Dwelling
125 Nikau Palm Road
PARAPARAUMU

Building Category

0 1 2 3

Application workflow checklist

	Name & Signature	Date
Note # A signature confirms that the application contains sufficient information to enable compliance with the building code to be assessed		
# 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	Angie	1/04/09
Pages numbered by CSO CS-WI-008		
BC Application and documentation scanned, checked & status update by CSO CS-WI-009	Sarah & Angie	1/04/09
BC Application signed over to BC CS-WI-009	Angie	1/04/09
Application reviewed by Technical Officers who sign off at back of this form AP-WI-026 & AP-WI-009	Simon Copp Stuart Nepra	4/5/09 11/05/09
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	done K	12/5/09
Inspection envelope prepared by CSO with endorsed plans and other appropriate paperwork and filed to cabinet. CS-WI-012		

CONSENT DATA INPUT REQUIREMENTS

REQUIRED INSPECTIONS	32		Lapse and cancellation after 12mths of consent	23		Installation of solid fuel appliance (wood burner) comply and secured
✓ Foundation/Piles		✓			✓	
✓ Block	2		✓ Engineer design specific components	23A		✓ Second hand wood burner certified
✓ Pre-Slab (Plumbing)	3		✓ Foundations to solid bearing of 200mm	25		✓ Contractor to leave site clean and clear
✓ Pre-Slab (Building)	4		NZS3604 as acceptable solution in terms of NZ Building Code	30		To comply with Food Hygiene Regulations 1974
Sub-Floor						
✓ Drainage	6		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-layer required	34		If cladding to have pre-finished colour coating, to be appropriate for coastal conditions
✓ Weathertightness						
✓ Pre-lining (Building)	11		✓ Concealed soil and TV pipes and gas flues only allowed in ducts or minimum framed	38		✓ Window sashes on upper levels less than 760mm above floor to have stays fixed
✓ Pre-lining (Plumbing)						
Wet areas - membrane	12		✓ Hot & Cold water pipes tested to 1500kPa	39		Construction of playground to comply with NZS5828
✓ Post Lining						
Brick Veneer	13		Roof stormwater to be connected to existing	40		Fencing, gates, doors directly leading to swimming pool to comply with Pool Act 1987
Retaining Wall						
✓ Final (Dwelling)	14		Copper water pipes not permitted	43		✓ Textured systems should be applied by licensed, trained applicators - supply warranty
Final (Commercial & Multi-resd)						
	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			

STANDARD CONSENT CONDITIONS	
37	
72	
80	

NON-STANDARD ADDENDA

FOR OFFICE USE ONLY

FEES		APPLICATION FEE \$.....
Building Fee	\$ 3350.00	\$4277.00
Sewer Connection	\$.....	RECEIPT NO DATE.....
Water Connection	\$.....	
Vehicle Crossing	\$.....	INVOICE NO DATE.....
Damage Deposit	\$.....	78491 1/04/09.
Code Compliance Administration	\$.....	RECEIPT NO 294927 DATE.....
Building Research Levy	\$.....	294927 1/04/09.
Development Levy	\$.....	FEES PAID BY:
DBH Levy	\$.....	Roulston Family Trust
Compliance Schedule	\$.....	
Digital Storage Fee	\$ 36.00	BUILDING CONSENT , DATE ISSUED
Certificate of Title Charge	\$.....	NUMBER
Photocopying	\$.....	090214 1/04/09.
SUBTOTAL	\$.....	AUTHORISATION FOR REFUND OF DEPOSIT
Less Fee Paid	\$.....	Deposit held = \$.....
TOTAL	\$4277.00	Cost to Repair Damage Caused During Construction = \$.....
GST INCLUDED	\$.....	Total Balance to be Refunded
		Authority Number:
		Authorised: DATE:

GST 51-860-608

Received with thanks by 10/01
KAPITI COAST DISTRICT COUNCIL

1-04-09 13:20 Receipt no.294927

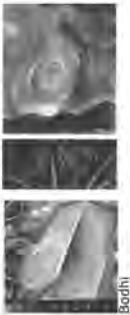
COPY *COPY* *COPY*

DR BC090214 4,277.00-
ARCHITECTURE DM
Architecture DM::17 Gear Street:PETONE:
GL 99742999 Roulston T 455.00-
CQ W
Roulston Family Trust 4,732.00

Kapiti Coast District Council
Private Bag 601
Paraparaumu 5254

Tel. (04) 296 4700
Fax (04) 296 4830
or 0800 486 486

E: kapiti.council@kapiticoast.govt.nz
W: www.kapiticoast.govt.nz



Building consent 090214

Section 51, Building Act 2004

The building

Street address of building: 125 Nikau Palm Road, Paraparaumu

Legal description of land where building is located: LOT 4 DP 82049

Valuation number: 1515007804

Building name:

Location of building within site/block number:

Level/unit number:

The owner

Name of owner: Tom Roulston

Contact person:

Mailing address: 28 Stellin Street, Avalon, LOWER HUTT

Street address/registered office:

Phone number: Landline:

Mobile: 0212441643

Daytime:

After hours:

Facsimile number:

Email address: tom@dvcs.co.nz

Website:

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

Full Name: Architecture DM

Mailing Address: 17 Gear Street, PETONE

Phones:: 04 5688468

Fax: 04 5688468

Building work

The following building work is authorised by this building consent:

Excavation of site & construction of New Dwelling

Rural 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.

Compliance schedule

A compliance schedule is not required for the building.

Attachments

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

David Kershaw

Signature

Customer Services

Position

On behalf of: KAPITI COAST DISTRICT COUNCIL

Date: 12/05/09

12 May 2009

Tom Roulston
28 Stellin Street
Avalon
LOWER HUTT

Dear Sir/Madam

Approval of Building Consent: 090214

Description: Excavation of site & construction of New Dwelling
Location: 125 Nikau Palm Road, Paraparaumu
Legal Description: LOT 4 DP 82049

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 Kapiti Coast District Council on (04) 9045 617.

Addenda to Application

Application

Architecture DM 17 Gear Street PETONE	No.	090214
---	-----	--------

Project

Description	New (& prebuilt) House, Unit, Bach, Crib, Town House etc. Being Stage 1 of an intended 1 Stages Excavation of site & construction of New Dwelling
Intended Life	Indefinite, but not less than 50 years
Intended Use	Rural Dwelling
Estimated Value	\$300,000
Location	125 Nikau Palm Road, Paraparaumu
Legal Description	LOT 4 DP 82049
Valuation No.	1515007804

Designer: Architecture DM 17 Gear Street, Petone : 04 568 8468

Contractor: ISP Consulting Engineers Level 1, 14 Lainos Rd, Lower Hutt

General Requirements

- a) The District Inspector is to be given 24 hours' notice before carrying out the following inspections:
1. Foundations
 2. Block
 3. Pre-slab
 4. Pre-slab
 5. Drainage
 6. Pre Wrap
 7. Pre Clad
 8. Weathertightness
 9. Preline
 10. Preline
 11. Postline
 12. 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 7.30am and 5.30pm.

1. 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.
2. 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.
5. Names and registration numbers of plumber and drainlayer are required before work commences.
6. Concealed soil and TV pipes and gas flues are only permitted built into ducts or minimum 150mm framed walls or with the Phillips top plate connecting bracket.
7. Both hot and cold water pipes are to be tested to 1500 KPA pressure.
8. Minimum heights of finished concrete slab-on-ground floors above adjoining finished ground level to comply with the current NZS3604.
9. Seismic restraint to be provided to appliance and flue as per the manufacturer's recommendations, NZBC, C.1 and Acceptable Solutions 9.1.2 and 9.2.2
10. Contractor to leave site clear of all demolition materials and in a tidy state.
11. Restrictor stays, limiting sash opening to max 100mm must be fitted wherever sill height is less than 760mm and the difference in levels are 1 metre or greater. Refer F4.NZBC
12. Textured Systems should be applied by licensed, trained applicators only. Supply copy of warranty to Certifier.
13. 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.

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: _____

Inspection Advice

Note: Engineer - Civil/Structural/Fire/Geotechnical: When projects contains elements specific design by an engineer, then the owner/builder is required to ensure that all engineering containing specifically designed work to be inspected and to provide KCDC with written evidence of the inspections including a construction statement (PS4) or Certificate of Expert Opinion for those inspections are carried out. Presence of an engineer does not negate the need for Council Officers to conduct the inspections listed also.

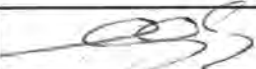
1. **Foundation/Piles:** When all formwork has been completed, footings have been excavated and reinforcement is in place. Piles - When all holes are excavated prior to installation. The owner/builder is responsible for clearly defining the site boundary lines and pegs. This may require a survey. **Note:** Established fences are not necessarily on the site boundary.
2. **Block:** When all masonry block work including block foundations for slab floors is completed, reinforcing in place and washout openings in place, prior to concrete fill.
3. **Pre-Slab Plumbing (concrete slab):** When all plumbing and drainage pipes have been installed prior to backfilling.
4. **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.
5. **Sub-Floor (timber suspended):** 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.
6. **Drainage:** When all drainage works is completed and is under test, before backfilling occurs. As laid drainage plan is required at time of inspection.
7. **Pre-Wrap:** When all roof and wall framing is complete, including any exterior sheet bracing, but before building wrap has been installed.
8. **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. Pre-stucco - when all reinforcing and flashings are being installed.
9. **Weathertightness:** When exterior cladding has been installed, flashings in place, air-seals fitted to openings, but before any coating system has been applied.
10. **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.
11. **Pre-Line (plumbing):** When all internal plumbing is complete and plumbing pipe work is under test pressure.
12. **Wet area membranes, decks, roof, 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. Applicator's warranty is required. (2 inspections required)
13. **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.
14. **Brick Veneer:** When veneer is at half-height and all flashings are in place.
15. **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. (2 inspections required)
16. **Final:** Final inspections are carried out at completion of project and may include entire project, plumbing, drainage, stormwater. The Code Compliance Certificate is issued if the building work complies with the approved building consent.
17. **Final (Commercial & Multi-unit Residential):** As in 16, but all fire protection, fire systems, alarms and emergency lighting, and accessibility features if applicable, must be completed, operational and certified as necessary.

Building Consent Number: BC090214
Applicant Name: Architecture DM
Project: Excavation of site & construction of New Dwelling
Legal: LOT 4 DP 82049
Location: 125 Nikau Palm Road, Paraparaumu

Please note the list below, which identifies the inspections required for this project.

To ensure that a Code Compliance Certificate can be obtained at completion of your building project, these inspections must be carried out.

It is your responsibility to advise Council, giving a minimum of 24 hours notice, when your project has reached the stage identified on the adjacent page to enable the inspection to be scheduled. This can be arranged by contacting Council on 04-2964-700 between the hours of 7.30am and 5.30pm Monday-Friday inclusive.

Inspection	Required	Inspecting Officer	Date Inspected
Foundation/Piles	Yes		15/7/19
Block <i>A. New 9/9/09</i>	Yes		
Pre-Slab Plumbing	Yes		
Pre-Slab Building	Yes		15/7/19
Sub Floor	No		
Drainage	Yes		31/7/09
PreWrap	Yes		
PreClad	Yes		
Weathertightness	Yes		
Pre-Lining Building	Yes		
Pre-Lining Plumbing	Yes		
Wet Area Membrane Pre-Application	No		
Wet Area Membrane Post-Application	No		
Post-Lining	Yes		
Brick Veneer	No		
Retaining Wall	No		
Final	Yes		
Final (commercial & multi-unit res.)	No		

ROULSTON RESIDENCE

125 NIKAU PALM ROAD
PARAPARAUMU

REVISIONS:

Rev: Description: Date:

GENERAL NOTES:

Check and confirm all dimensions prior to commencing any work on-site.

Use stated dimensions in preference to scaled.

If in doubt ASK.

Drawings at a larger scale take precedence over those drawn at a smaller scale.

Site measure all openings/spaces for items manufactured off-site.

Notes on one plan and not necessarily on other drawings are applicable to all drawings.

Any conflicts on the documents are to be notified to the designer prior to commencing work.

IF IT ISN'T DIMENSIONED - DO NOT SCALE

SITE PLAN

02

DATE: 26 MAR 2009

SCALE: 1:1000 @A

JOB NUMBER: NA

DRAWN BY: S JOHNSON

DESIGN BY: Designer

ARCHITECTURE DM

17 GEAR ST
PETONE

P (04) 568 8468

F (04) 568 8468

M 027 452 4670

E dean@architecturedm.co.nz

© ARCHITECTURE DM LTD

A D N Z

ARCHITECTURAL DESIGNERS NZ

PLUMBING + DRAINAGE NOTES:

-ALL PLUMBING AND DRAINAGE TO COMPLY WITH AS/NZS 3500 PART 2.2

-ALL STORMWATER AND SEWER PIPES TO BE 110dia PVC @ GRADIENT 1:100MIN.

-PLUMBING INFORMATION SHOWN FOR BUILDING CONSENT ONLY

-DRAINLAYER IS TO PROVIDE AS-BUILT DOCUMENTATION TO T.A. ON COMPLETION.

-INSPECTION POINTS TO BE PROVIDED AT THE FOLLOWING LOCATIONS:

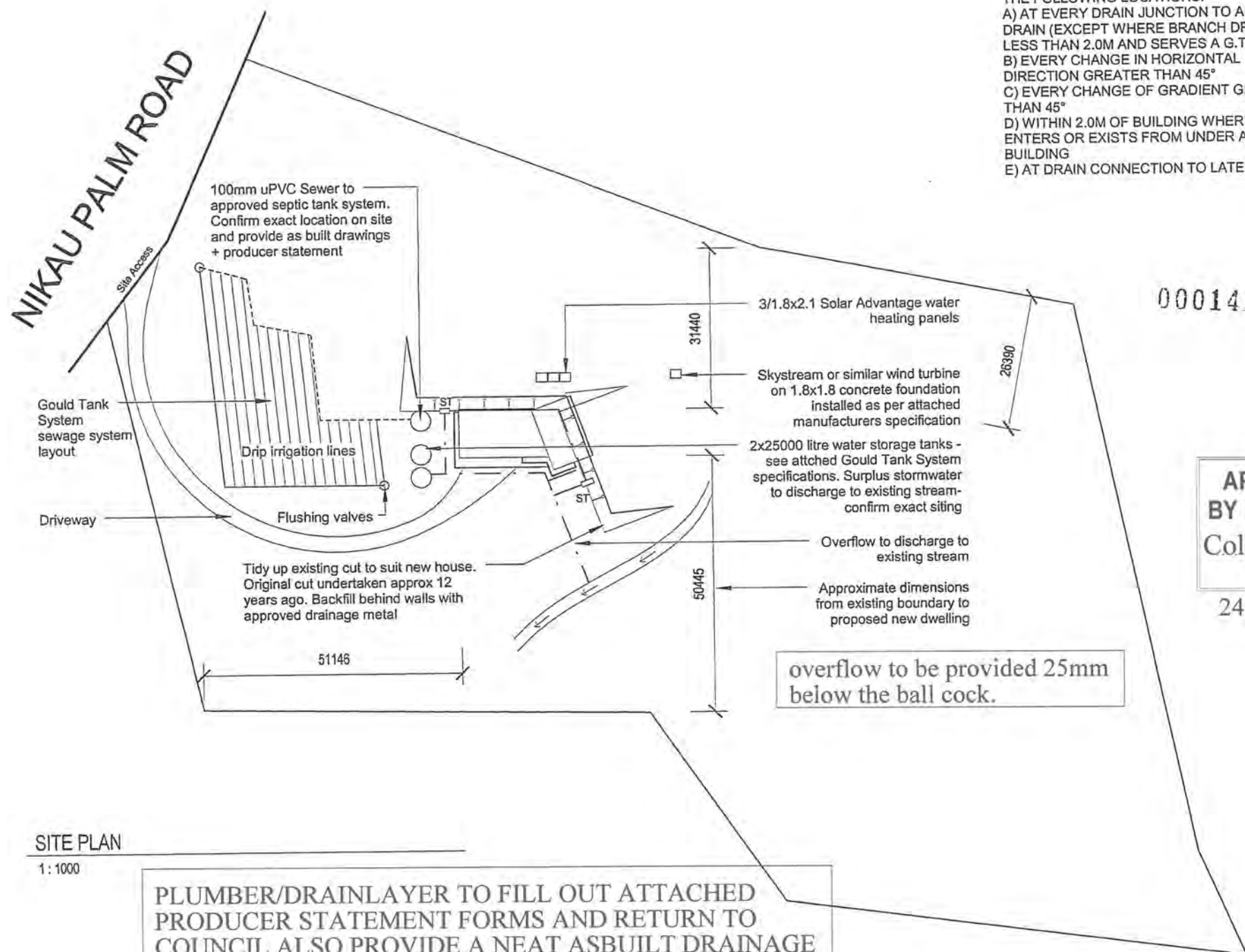
A) AT EVERY DRAIN JUNCTION TO ANOTHER DRAIN (EXCEPT WHERE BRANCH DRAIN IS LESS THAN 2.0M AND SERVES A G.T. ONLY)

B) EVERY CHANGE IN HORIZONTAL DIRECTION GREATER THAN 45°

C) EVERY CHANGE OF GRADIENT GREATER THAN 45°

D) WITHIN 2.0M OF BUILDING WHERE A DRAIN ENTERS OR EXISTS FROM UNDER A BUILDING

E) AT DRAIN CONNECTION TO LATERAL



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

ST = Silt traps for Coredrain runoff

SITE PLAN

1:1000

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

LEGAL DESCRIPTION	COUNCIL	AREAS	ZONES
ADDRESS: 125 NIKAU PALM RD CITY: PARAPARAUMU	Zone: RURAL Setbacks: Compliant Height Restriction: Compliant Recession Plane: Compliant Site Coverage: Compliant	Allowed Coverage: 35% Site Area: 22730m ² Footprint area: 193.7m ² Coverage: 0.85%	Wind Zone: HIGH Wind Region: R2 Corrosion Zone: 1 Earthquake Zone: A
LOT 4 DP 82049			

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

ROULSTON RESIDENCE

125 NIKAU PALM ROAD
PARAPARAUMU

REVISIONS:
Rev: Description: Date:

GENERAL NOTES:

Check and confirm all dimensions prior to commencing any work on-site.
Use stated dimensions in preference to scaled.
If in doubt ASK.
Drawings at a larger scale take precedence over those drawn at a smaller scale.
Site measure all openings/spaces for items manufactured off-site.
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IF IT ISN'T DIMENSIONED - DO NOT SCALE

FOUNDATION & DRAINAGE PLAN

03

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

ARCHITECTURE DM

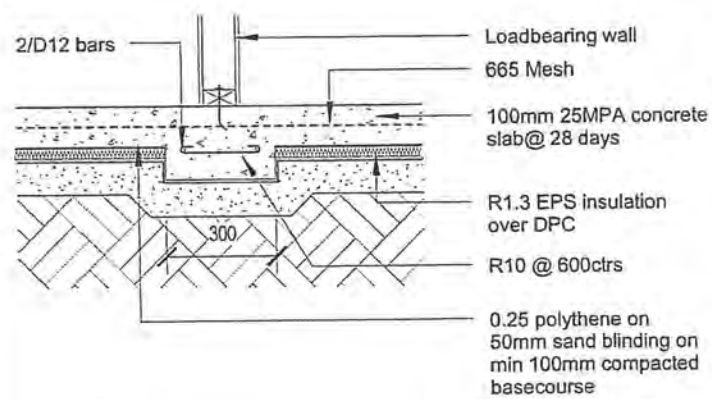
17 GEAR ST
PETONE

P (04) 568 8468
F (04) 568 8468
M 027 452 4670

E dean@architecturedm.co.nz

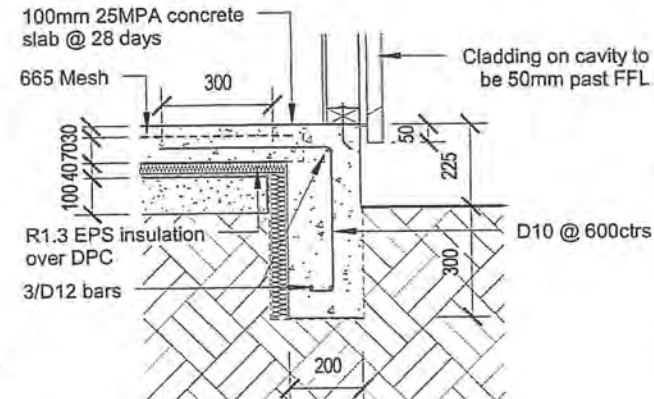
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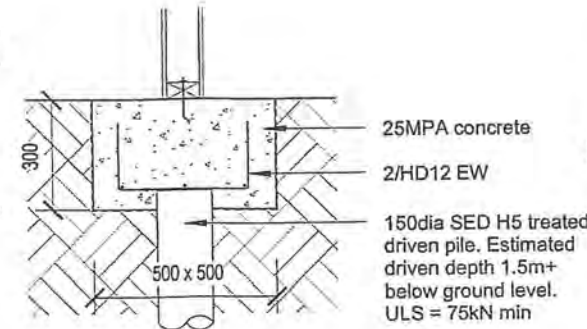
INTERNAL LOADBEARING FOOTING DETAIL

1:20



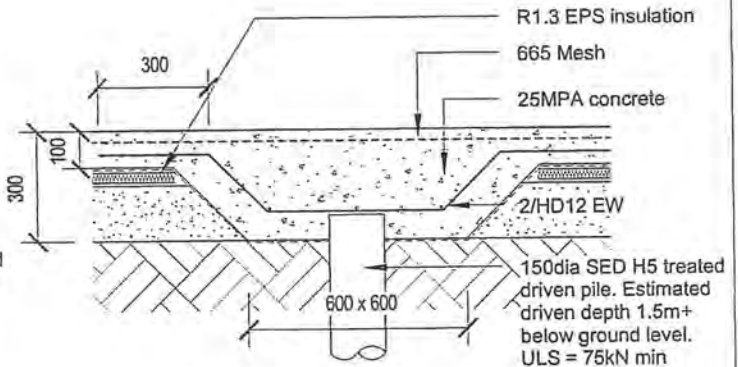
EXTERNAL WALL FOOTING DETAIL

1:20



TYPICAL ENGINEERED PILE CAP DETAIL

1:20

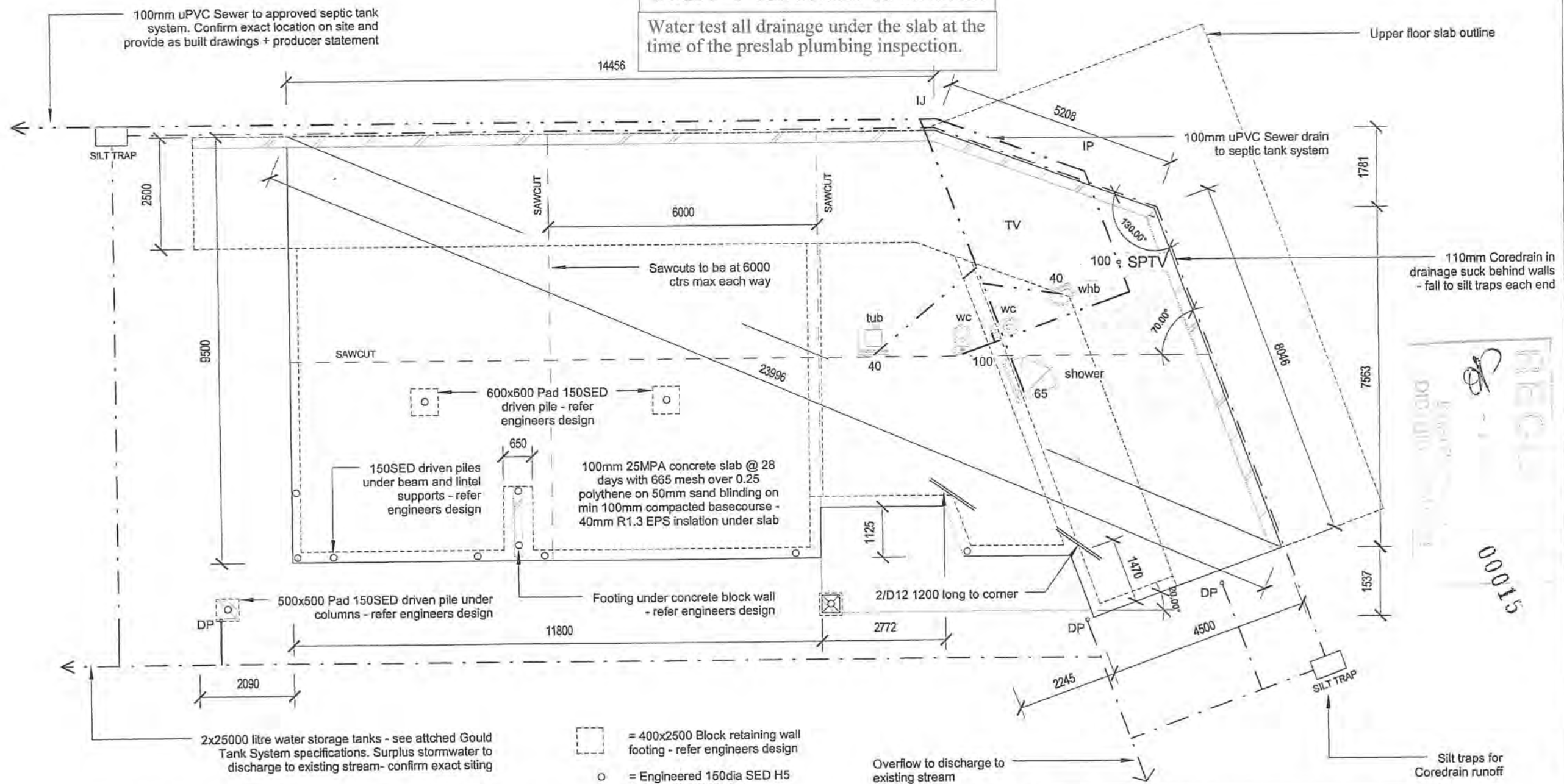


TYPICAL ENGINEERED INTERNAL PAD DETAIL

1:20

MINIMUM SIZE DRAIN 65MM
SWEEP "Y" JUNCTIONS TO BE USED.

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



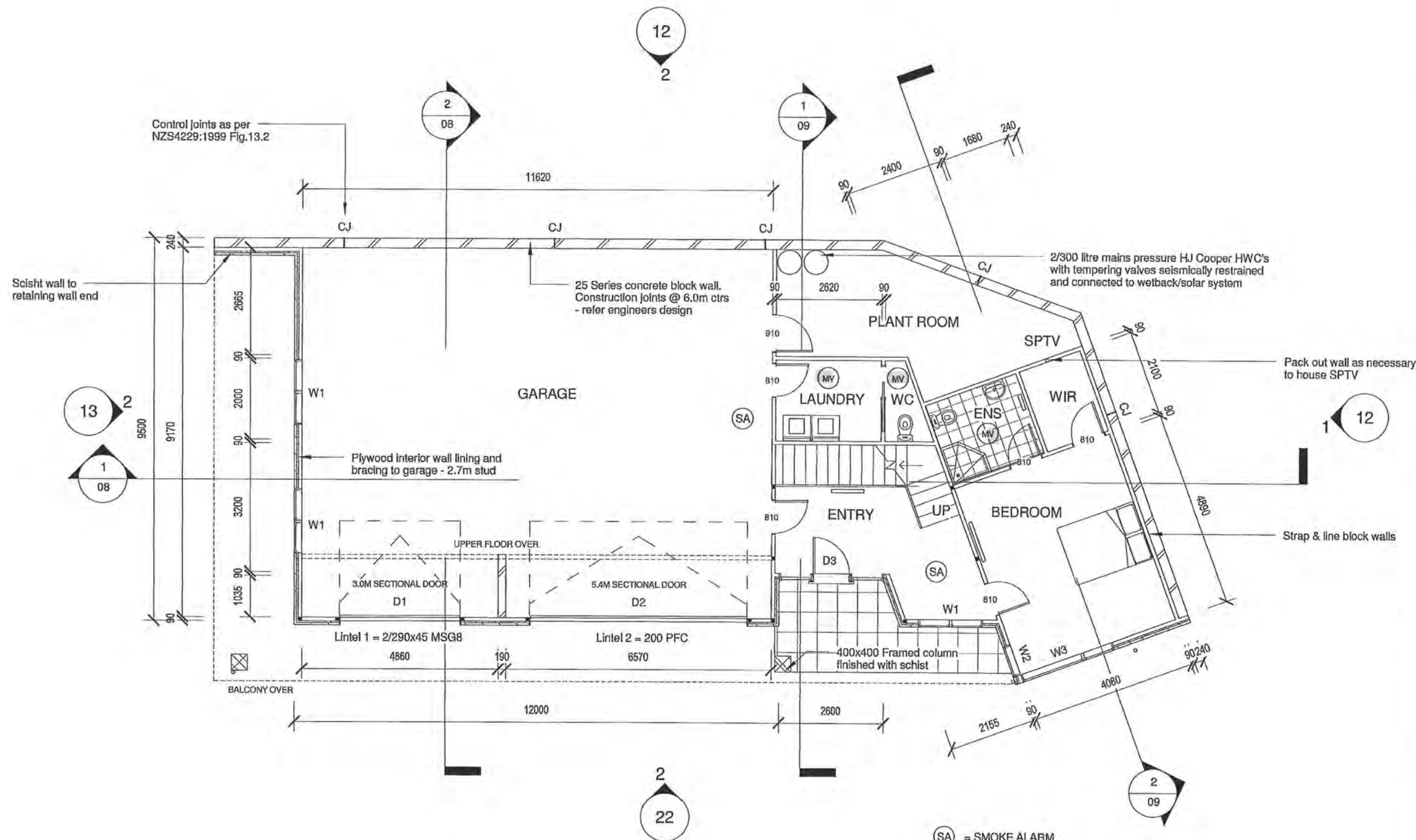
FOUNDATION & DRAINAGE PLAN

1:100

PIPES TO BE INSPECTED BEFORE
COVERING WITH SAND.

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

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



LEVEL 1
1:100

- (SA) = SMOKE ALARM
- (MV) = MECHANICAL VENTILATION
- = ALUMINIUM FARAL LINEAL 80 RADIATORS

- = 2/90x45 MSG8 UNDERSTUDS
- Bottom plate to be fixed to framing with 3/90x3.15 nails @ 600ctr
- Bottom plate to be fixed to foundation walls with M12 bolts (75mm embedment) @ 1400ctr - DPC between framing and concrete
- All fixings to be max 300mm from corners

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

ROULSTON RESIDENCE

125 NIKAU PALM ROAD
PARAPARAUMU

REVISIONS:

Rev: Description: Date:
- Bottom plate fixing requirements

GENERAL NOTES:

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

IF IT ISN'T DIMENSIONED - DO NOT SCALE!

LOWER FLOOR PLAN

04

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

ARCHITECTURE DM

17 GEAR ST
PETONE

P (04) 568 8468
F (04) 568 8468
M 027 452 4670

E dean@architecturedm.co.nz

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A D N Z
ARCHITECTURAL DESIGNERS NZ INC

ROULSTON RESIDENCE

125 NIKAU PALM ROAD
PARAPARAUMU

REVISIONS:

Rev:	Description:	Date:
-	Cantervered joist size & deck width altered	

GENERAL NOTES:

Check and confirm all dimensions prior to commencing any work on-site.
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IF IT ISN'T DIMENSIONED - DO NOT SCALE!

UPPER FLOORING PLAN

05

DATE: 6 MAY 2009
SCALE: As indicated @A3
JOB NUMBER: NA
DRAWN BY: S JOHNSON
DESIGN BY: Designer

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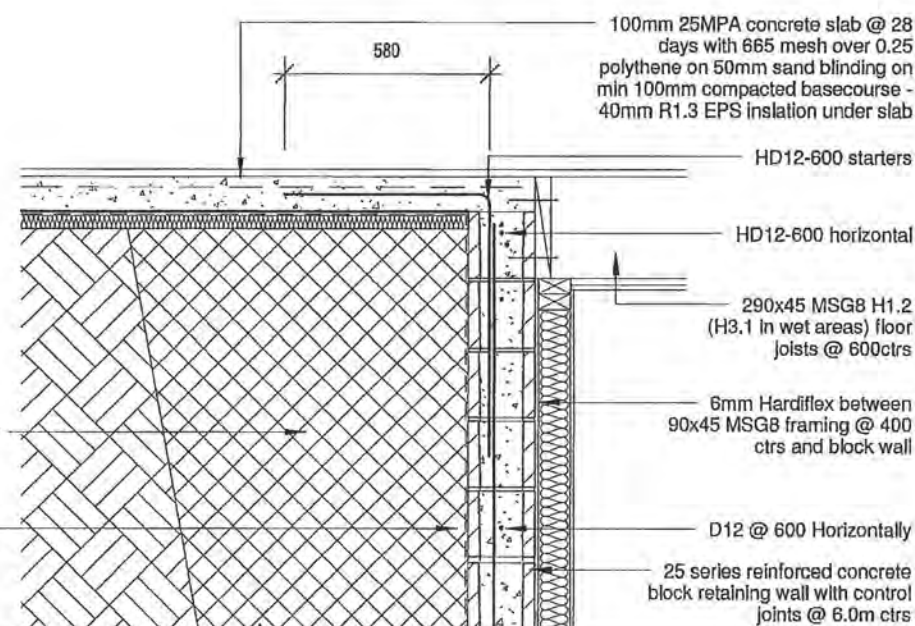
17 GEAR ST
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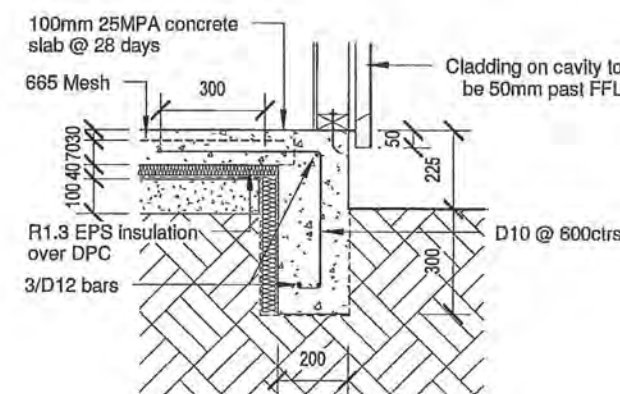
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LEVEL 2 SLAB TO FOUNDATION WALL DETAIL

1:20



CONCRETE SLAB FOOTING DETAIL

1:20

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

Sealed stormwater drainage for upper floor roof runoff to 2x25000 litre water storage tanks - see attached Gould Tank System specifications. Surplus stormwater to discharge to soakpit - confirm exact siting

PS40-60X05 Posi-STRUT MSG8 floor truss System @ 400ctr as per MiTek specification

2/300 litre HWC below connected to wetback/solar system

100mm 25MPA concrete slab @ 28 days with 665 mesh over 0.25 polythene on 50mm sand blinding on min 100mm compacted basecourse - slab tied into retaining wall below (40mm R1.3 EPS insulation under slab)

100mm uPVC Stormwater drain to water tank system

Slab tied into retaining wall below with HD12-600 starters @ 400 ctrs

Joists bolted to slab footing with M12 bolts @ 600ctr

Expol R1.4 insulation between 140x45 MSG8 H1.2 joists @ 600ctr

140x45 MSG8 H3.2 bearers on 125x125 H5 anchor piles in 350x350x900 conc pad

Engineered 25 series block wall beneath

290x45 MSG8 H1.2 (H3.1 in wet areas) floor joists @ 600ctr as per NZS3604:1999 Table 7.1 (max span = 4200)

Ensure that the upstairs soil and wastepipes can run to the exterior without damaging any structural members

240x45 MSG8 H3.2 cantilevered joists @ 400ctr (pack up as required)

140x45 MSG8 H3.2 joists @ 400ctr

Cantervered ratio min 1:1.25

LEVEL 2 FLOORING PLAN

1:100

ROULSTON RESIDENCE

125 NIKAU PALM ROAD
PARAPARAUMU

REVISIONS:

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

GENERAL NOTES:

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SECTIONS

08

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

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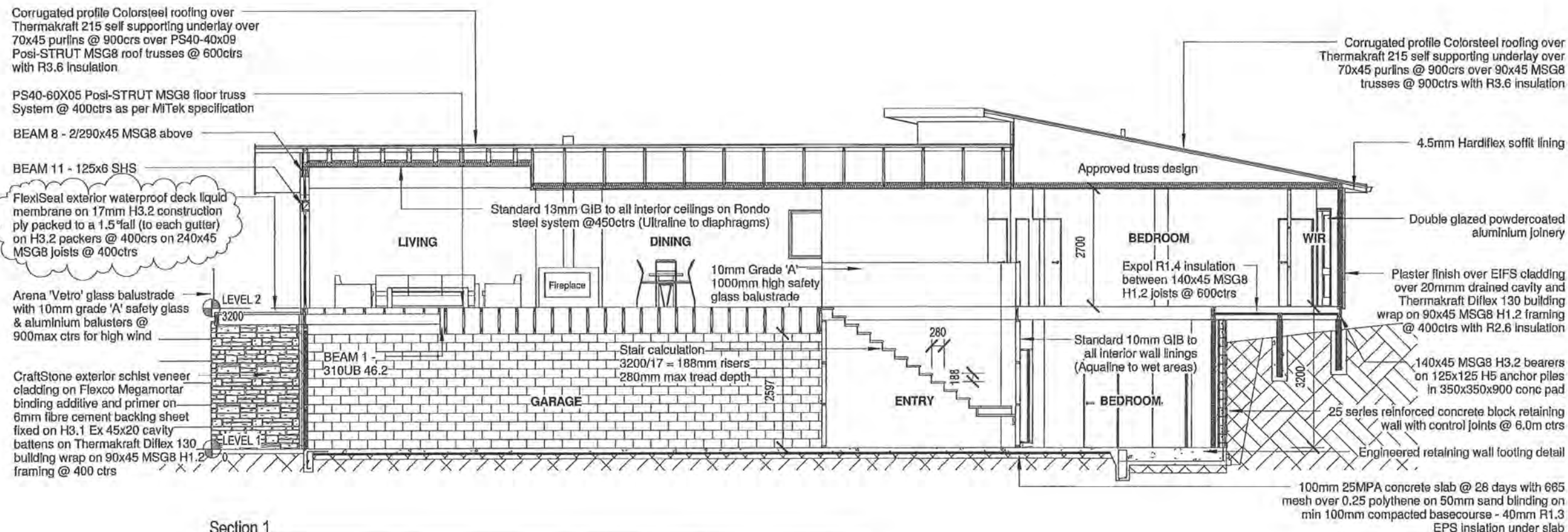
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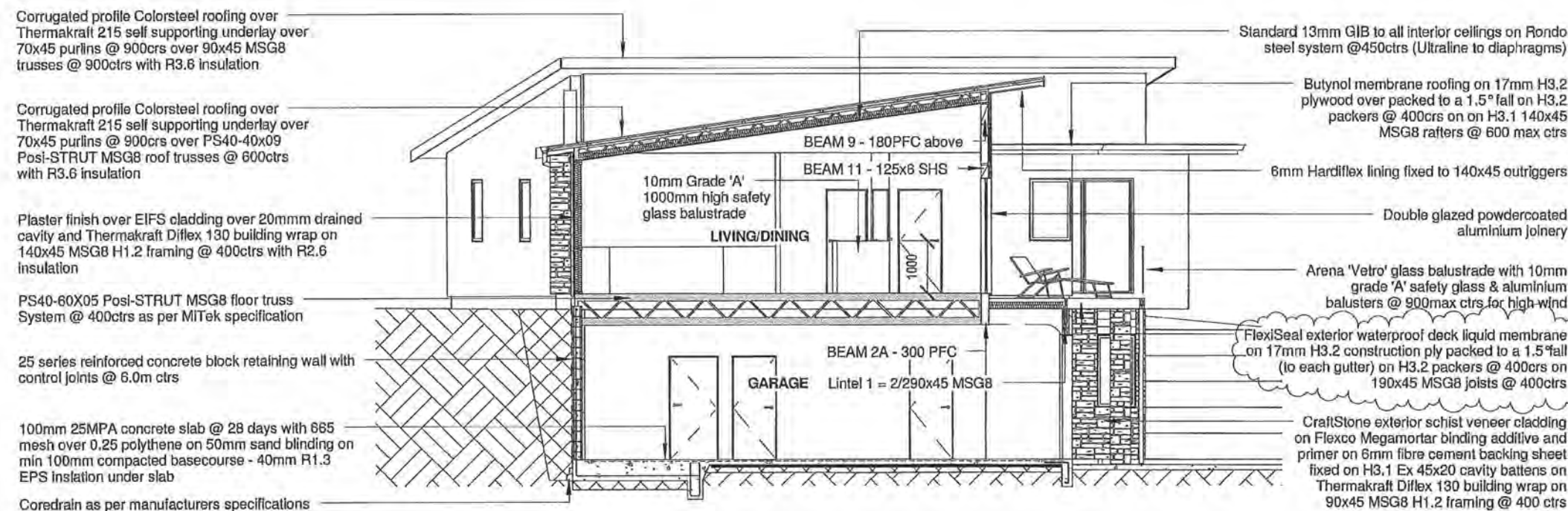
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Section 1
1:100



Section 2
1:100

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

ROULSTON RESIDENCE

125 NIKAU PALM ROAD
PARAPARAUMU

REVISIONS:

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

GENERAL NOTES:

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SECTIONS

09

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

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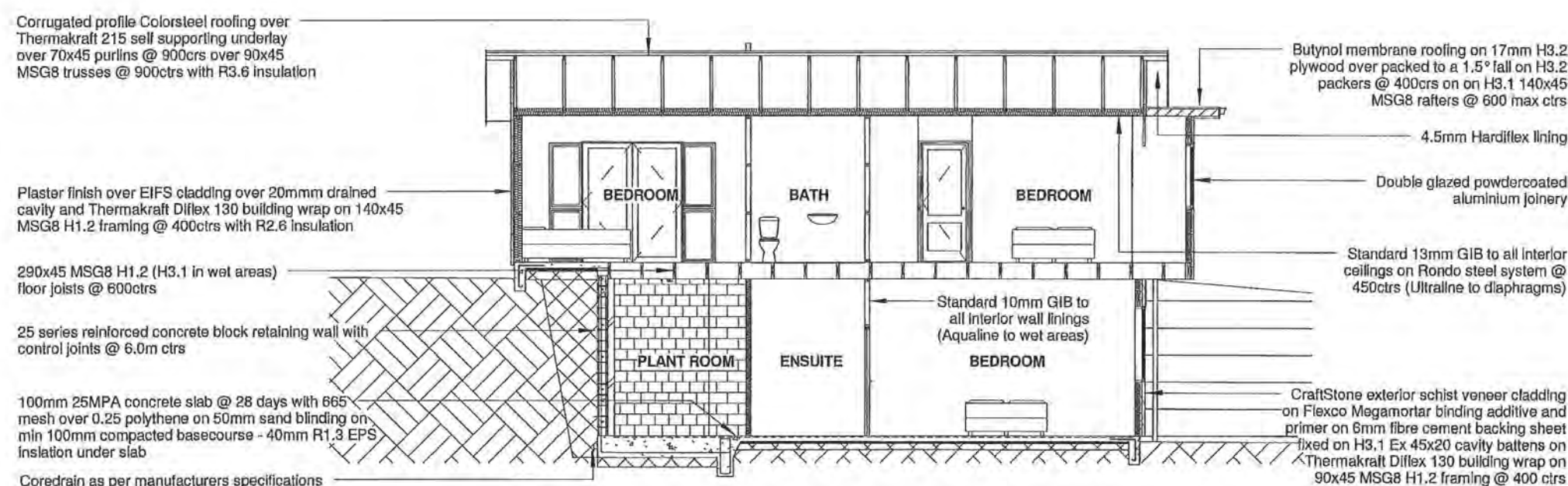
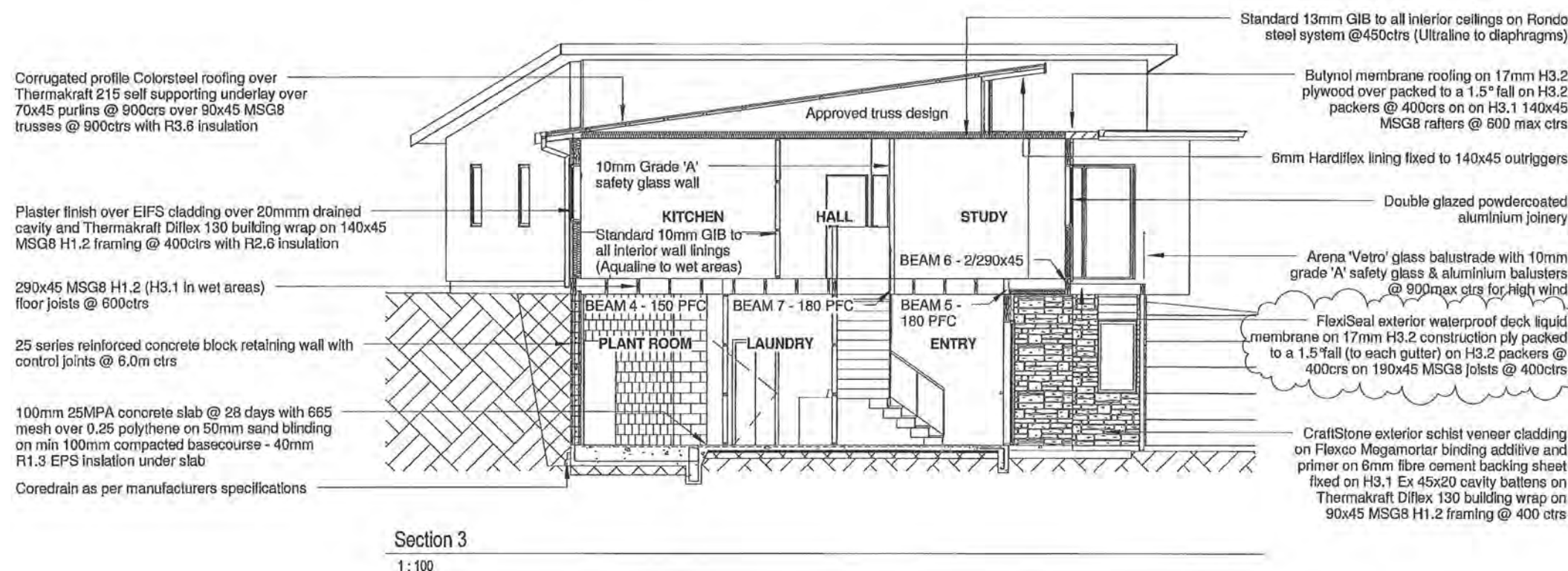
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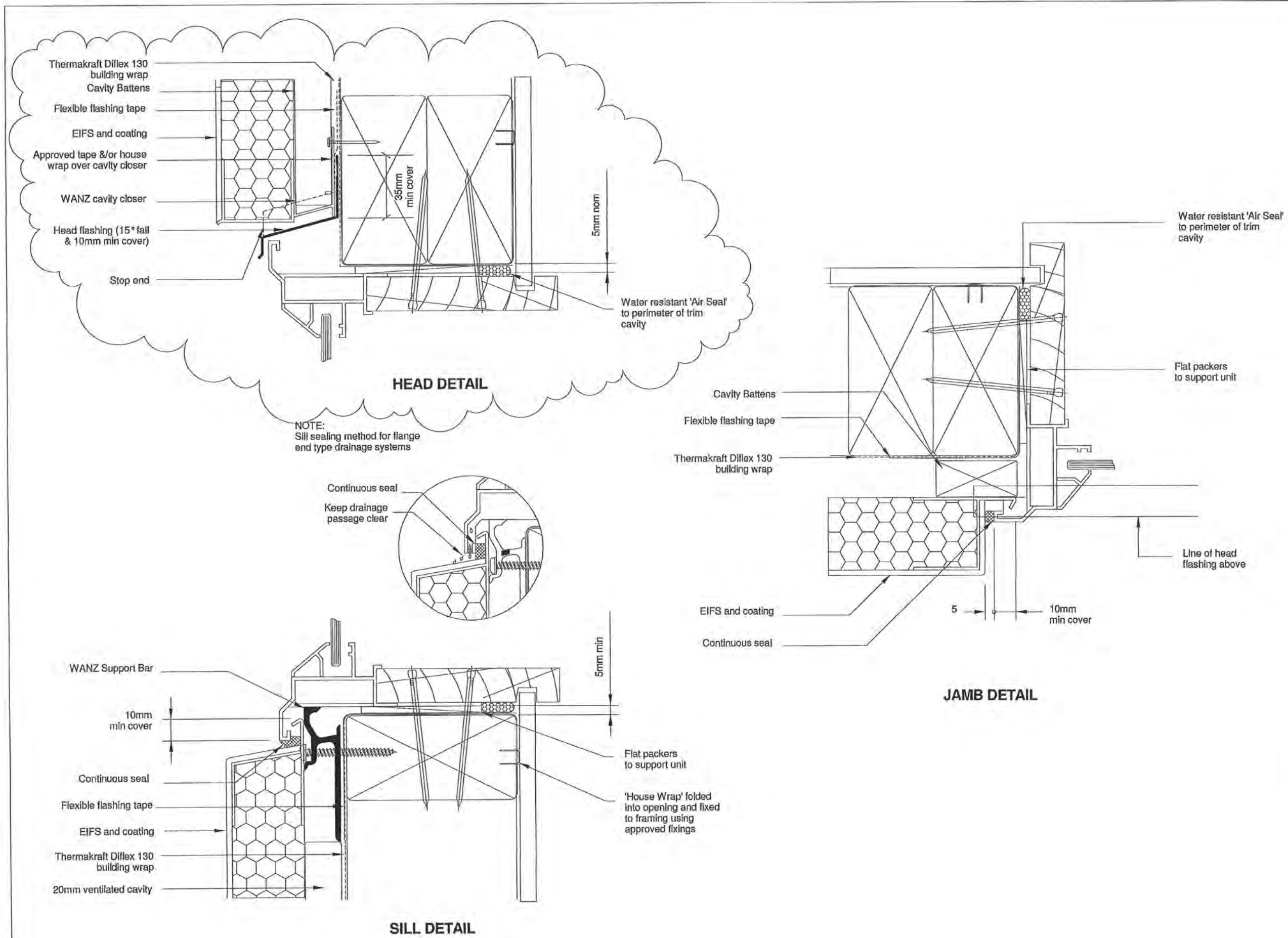
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NOTE: All beams are engineered design - please refer to engineers documentation for all calculations and connection/fixing details



PLASTER WINDOW DETAILS
1:2

ROULSTON RESIDENCE

125 NIKAU PALM ROAD
PARAPARAUMU

REVISIONS:

Rev:	Description:	Date:
-	Window head flashing changed to comply with E2/AS1	

GENERAL NOTES:

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CONSTRUCTION DETAILS

15

DATE:	5 MAY 2009
SCALE:	1:2 @A3
JOB NUMBER:	NA
DRAWN BY:	S JOHNSON
DESIGN BY:	Designer

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ROULSTON RESIDENCE

125 NIKAU PALM ROAD
PARAPARAUMU

REVISIONS:

Rev:	Description:	Date:
-	Cladding junction detail added	

GENERAL NOTES:

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CONSTRUCTION DETAILS

16

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

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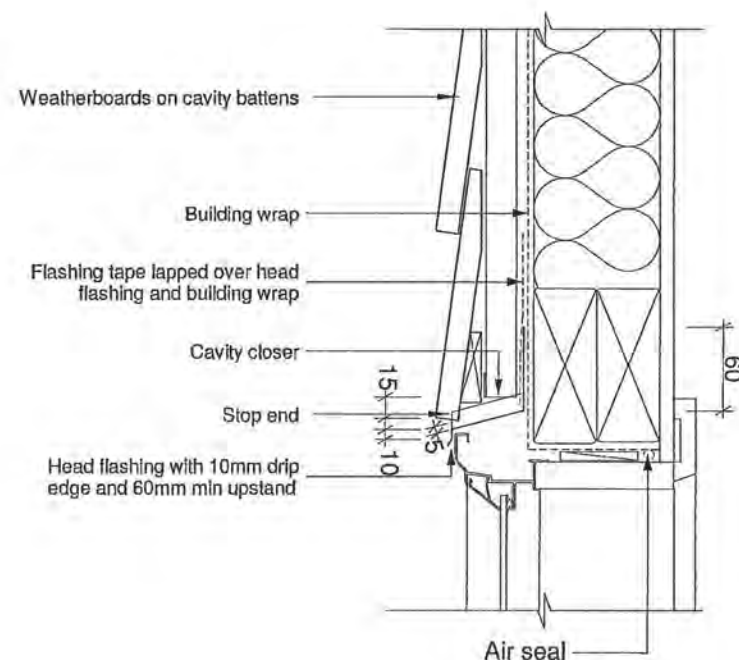
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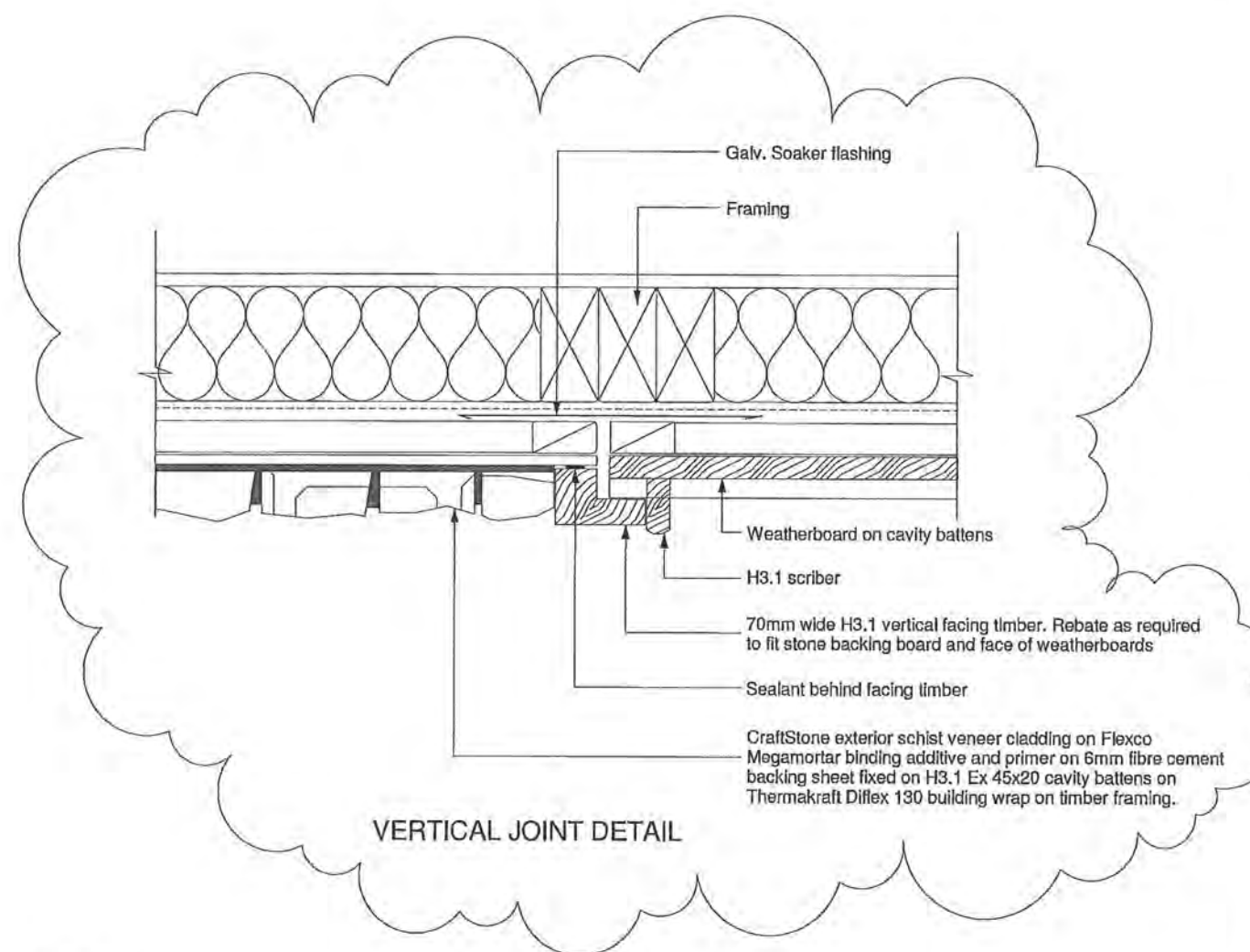
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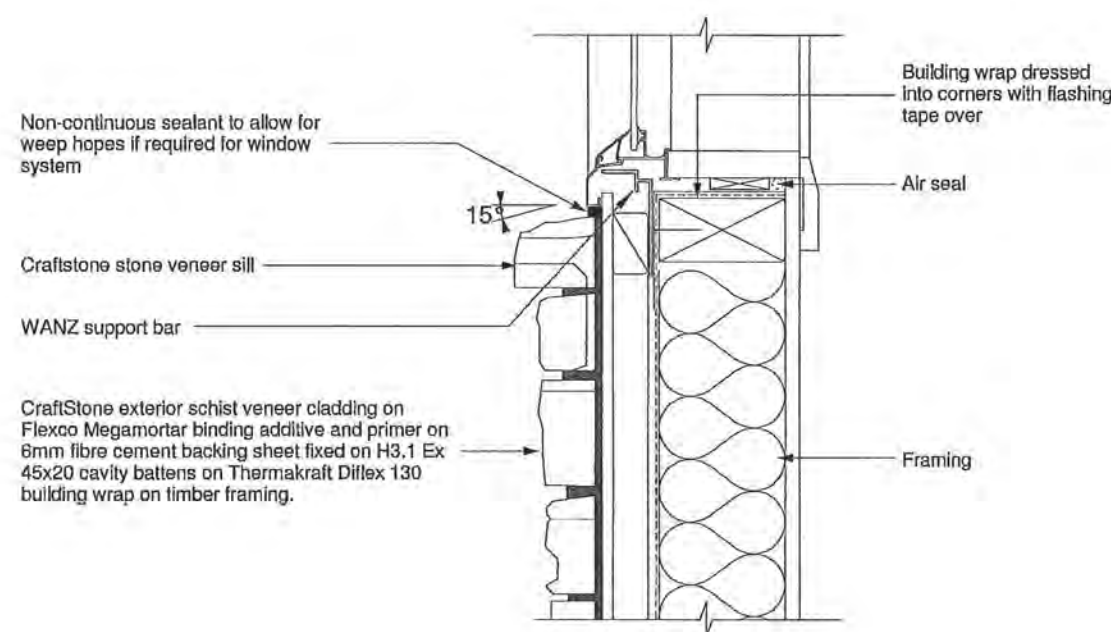
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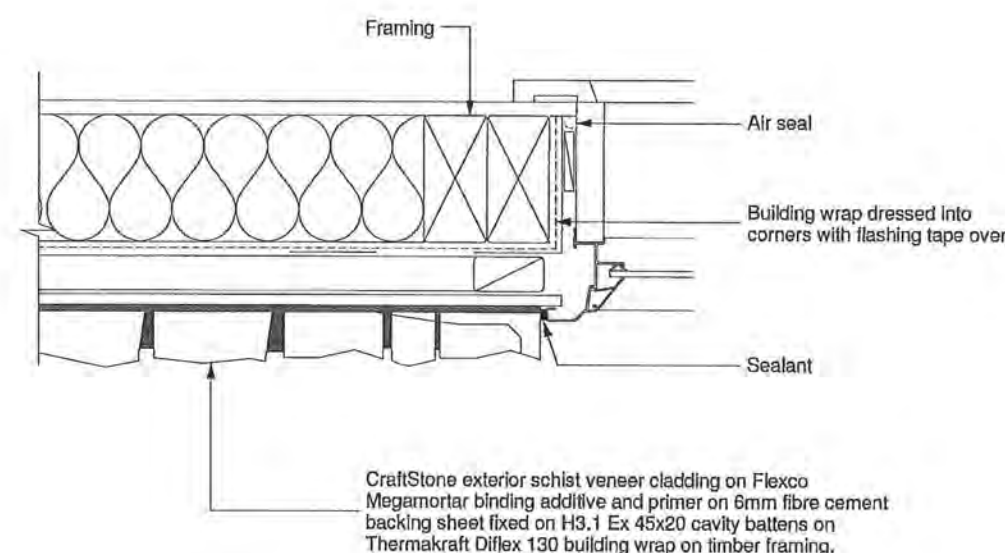
WEATHERBOARD HEAD DETAIL



VERTICAL JOINT DETAIL



SCHIST VENEER SILL DETAIL

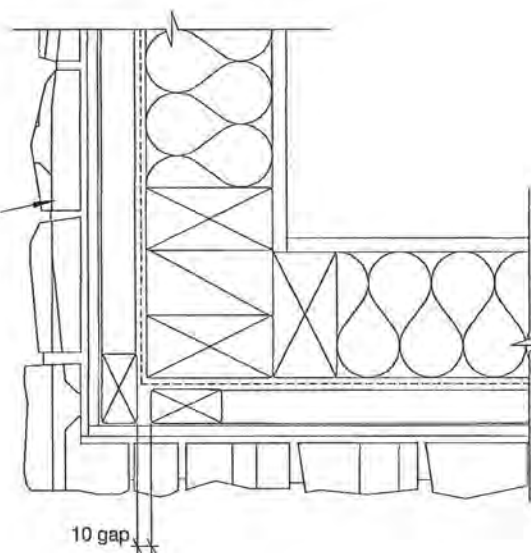


SCHIST VENEER JAMB DETAIL

SCHIST WINDOW DETAILS

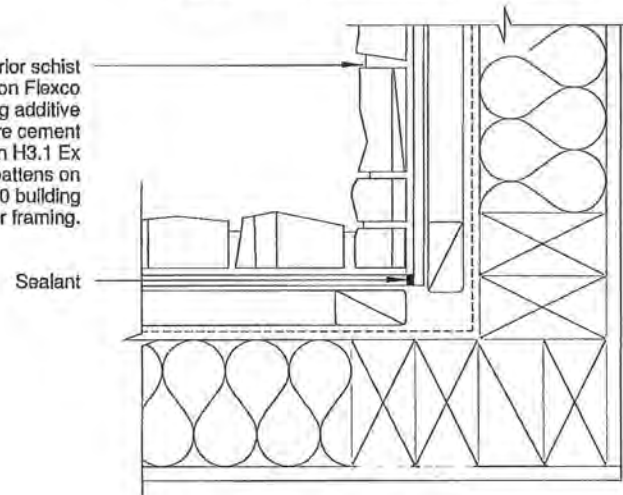
1:5

CraftStone exterior schist veneer cladding on Flexco Megamortar binding additive and primer on 6mm fibre cement backing sheet fixed on H3.1 Ex 45x20 cavity battens on Thermakraft Diflex 130 building wrap on timber framing.



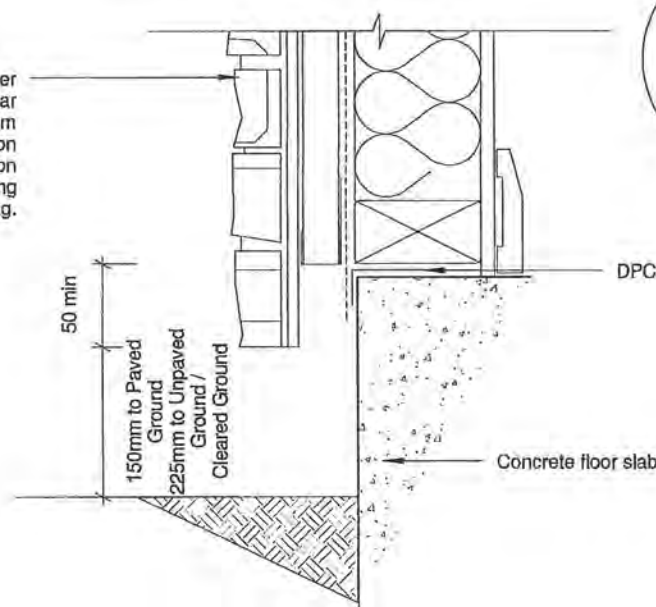
SCHIST EXTERNAL CORNER DETAIL

CraftStone exterior schist veneer cladding on Flexco Megamortar binding additive and primer on 6mm fibre cement backing sheet fixed on H3.1 Ex 45x20 cavity battens on Thermakraft Diflex 130 building wrap on timber framing.



SCHIST INTERNAL CORNER DETAIL

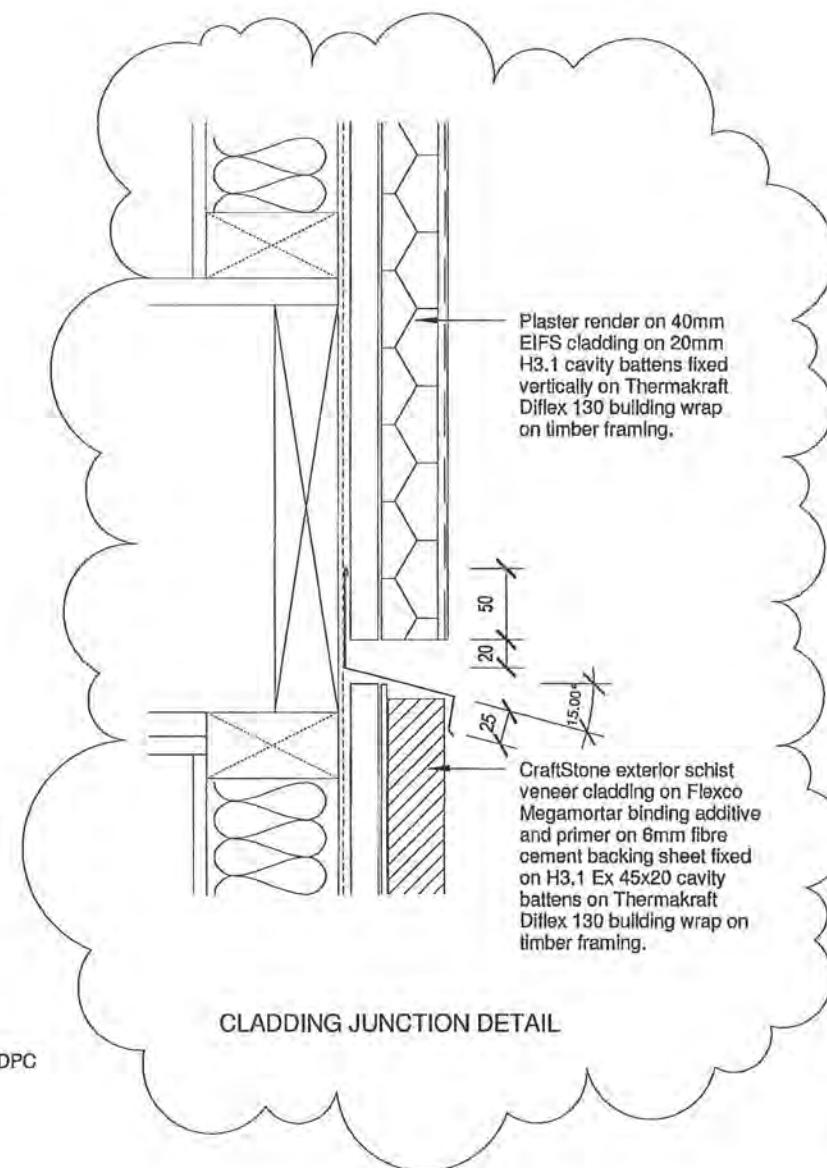
CraftStone exterior schist veneer cladding on Flexco Megamortar binding additive and primer on 6mm fibre cement backing sheet fixed on H3.1 Ex 45x20 cavity battens on Thermakraft Diflex 130 building wrap on timber framing.



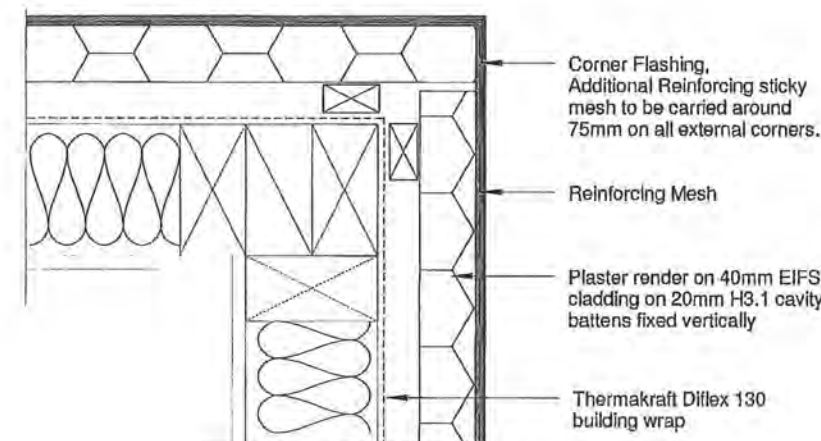
SCHIST CLADDING FOUNDATION DETAIL

CLADDING DETAILS

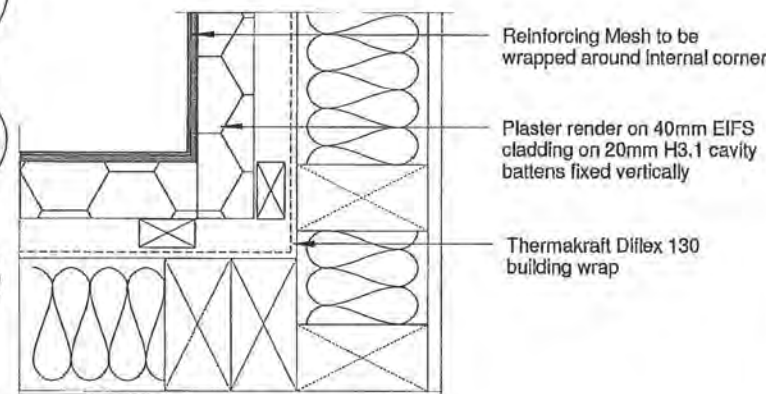
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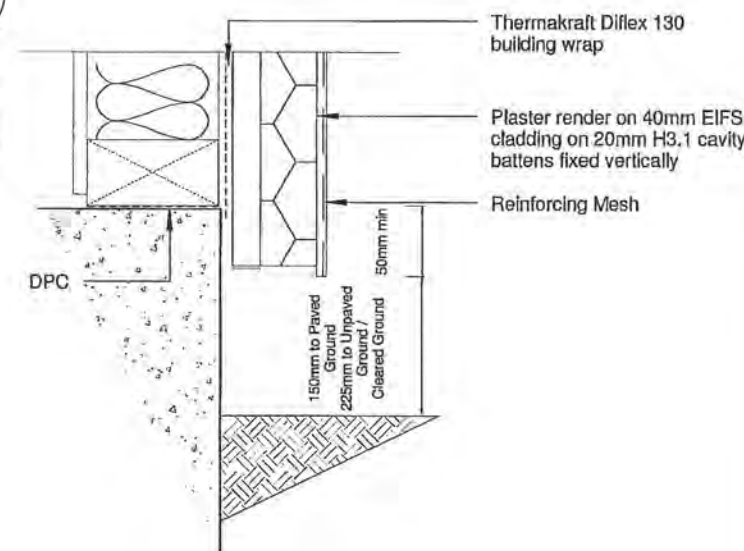
CLADDING JUNCTION DETAIL



EIFS EXTERNAL CORNER DETAIL



EIFS INTERNAL CORNER DETAIL



EIFS CLADDING FOUNDATION DETAIL

ROULSTON RESIDENCE

125 NIKAU PALM ROAD
PARAPARAUMU

REVISIONS:

Rev:	Description:	Date:
-	Cladding junction detail added	

GENERAL NOTES:

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CONSTRUCTION DETAILS

17

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

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Plaster render on 40mm EIFS cladding on 20mm H3.1 cavity battens fixed vertically on Thermakraft Diflex 130 building wrap on timber framing

Coloursteel roofing

Purlin

Underlay

SECTION A-A

Stop end apron to form diverter - same for both ends

HIDDEN GUTTER DETAIL (as shown in E2/AS1 fig.50)

1:10

Barge flashing lapping 2 ridges of roofing and 70mm down H3.1 cedar fascia

Corrugated profile Colorsteel roofing over Thermakraft 215 self supporting underlay

6mm Hardiflex soffit with PVC jointers on 140x45 H3.1 Outriggers

Plaster render on 40mm EIFS cladding on 20mm H3.1 cavity battens fixed vertically on Thermakraft Diflex 130 building wrap on timber framing

Corrugated profile Colorsteel roofing over Thermakraft 215 self supporting underlay

Barge flashing lapping 2 ridges of roofing and 70mm down H3.1 cedar fascia

6mm Hardiflex soffit with PVC jointers

Plaster render on 40mm EIFS cladding on 20mm H3.1 cavity battens fixed vertically on Thermakraft Diflex 130 building wrap on timber framing

BARGE DETAILS

1:10

Corrugated profile Colorsteel roofing over Thermakraft 215 self supporting underlay

Flashing over last purlin into gutter

4.5mm Hardiflex soffit with PVC jointers

Plaster render on 40mm EIFS cladding on 20mm H3.1 cavity battens fixed vertically on Thermakraft Diflex 130 building wrap on timber framing

Eave flashing, 70mm lap to fascia 200mm lap to roofing

Corrugated profile Colorsteel roofing over Thermakraft 215 self supporting underlay

6mm Hardiflex soffit, flush stopped

140x45 outriggers fixed 2000mm to roof framing

Plaster render on 40mm EIFS cladding on 20mm H3.1 cavity battens fixed vertically on Thermakraft Diflex 130 building wrap on timber framing

Eave flashing, 70mm lap to H3.1 cedar fascia 200mm lap to roofing

Corrugated Orb profile Colorsteel roofing over Thermakraft 215 self supporting underlay

6mm Hardiflex soffit, flush stopped

Plaster render on 40mm EIFS cladding on 20mm H3.1 cavity battens fixed vertically on Thermakraft Diflex 130 building wrap on timber framing

EAVE DETAILS

1:10

ROULSTON RESIDENCE

125 NIKAU PALM ROAD
PARAPARAUMU

REVISIONS:

Rev:	Description:	Date:
-	Hidden gutter detail added	

GENERAL NOTES:

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CONSTRUCTION DETAILS

18

DATE: 6 MAY 2009
SCALE: 1:10 @A3
JOB NUMBER: NA
DRAWN BY: S JOHNSON
DESIGN BY: Designer

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ROULSTON RESIDENCE

125 NIKAU PALM ROAD
PARAPARAUMU

REVISIONS:

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

GENERAL NOTES:

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CONSTRUCTION DETAILS

19

DATE: 5 MAY 2009
SCALE: 1:10 @A3
JOB NUMBER: NA
DRAWN BY: S JOHNSON
DESIGN BY: Designer

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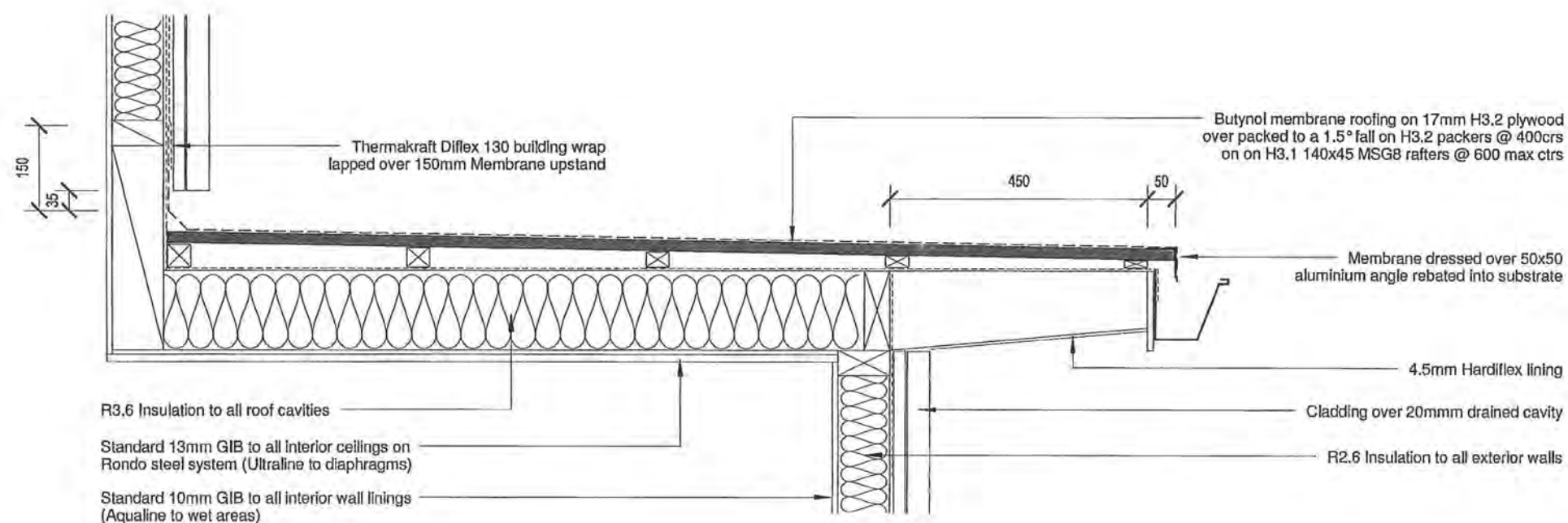
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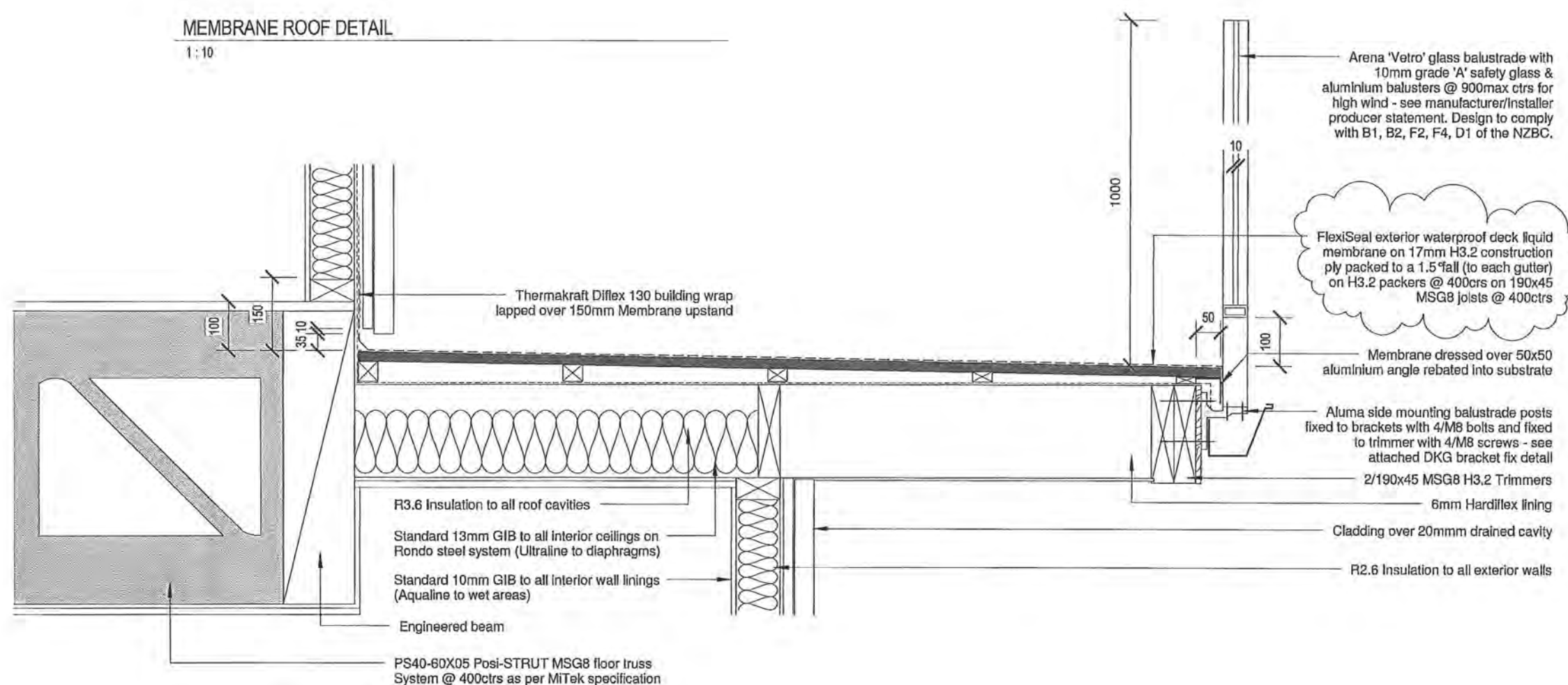
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MEMBRANE ROOF DETAIL

1:10

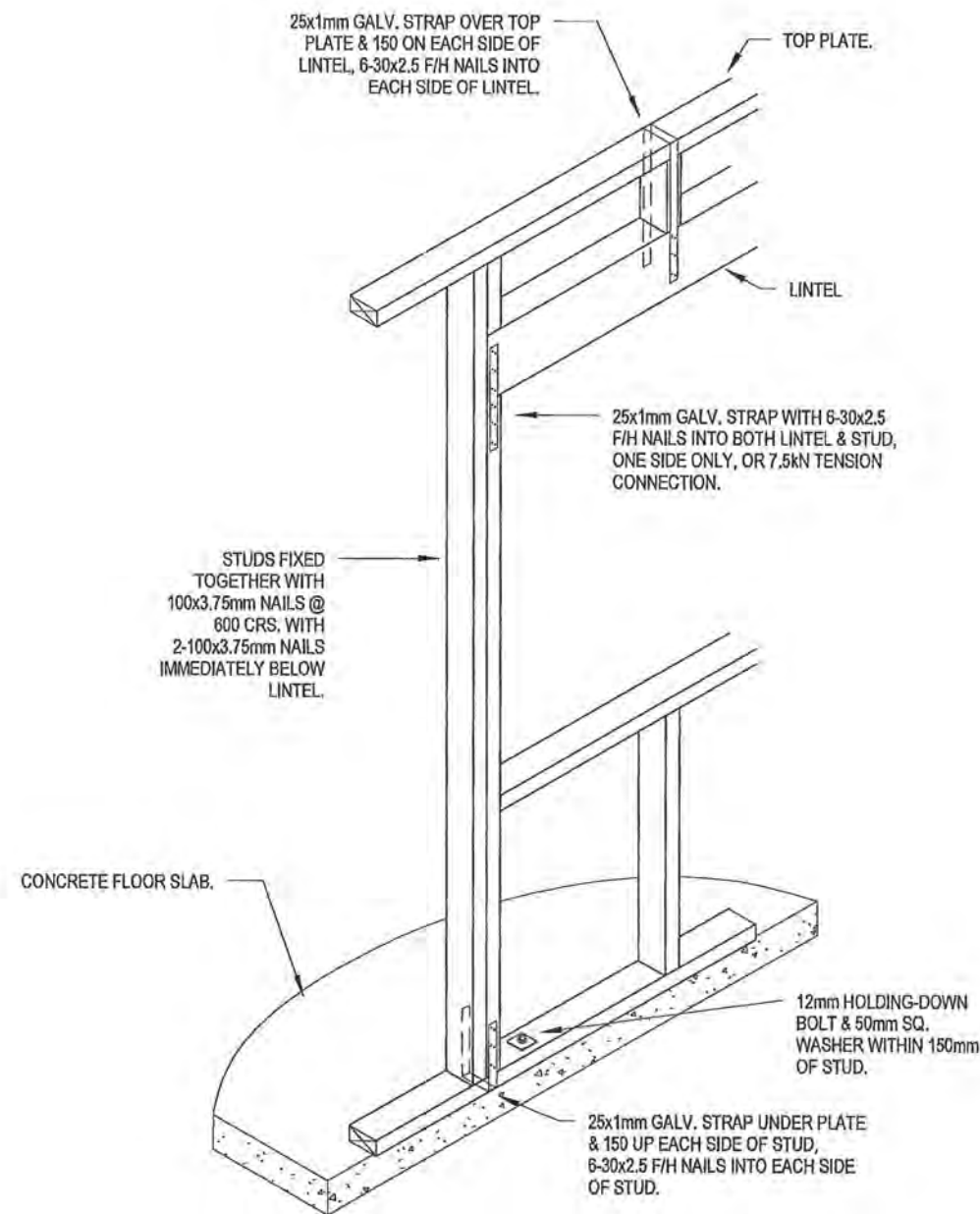


MEMBRANE DECK DETAIL

1:10

TYPICAL FIXINGS:

EXT. BOTTOM PLATE TO SLAB: M12 RAGBOLTS @ 1200CRS. PLACE D.P.C UNDER PLATES.
TOP PLATE TO STUD: 2- 100 x 3.75 SKEWED NAILS AND 3 WIRE DOGS, OR 6.7kN ALTERNATE FIXING.
TRUSS TO TOP PLATE: 16kN "LUMBERLOK TRUSS TO TOP PLATE FIXING."
75 x 50 PURLINS TO TRUSSES: 2- 100 x 3.75mm NAILS AND EITHER OF 1 WIRE DOG OR 1- 100mm x 14g TYPE 17 SCREW TO AS 3566. TO MAIN ROOF AREAS
AND
2-100 x 3.75mm SKEWED NAILS EITHER OF 2 WIRE DOG OR 2- 100mm x 14g TYPE 17 SCREW TO AS 3566, TO PERIPHERY OF ROOF, AS SHOWN IN FIG. 10.16, NZS. 3604, 1999.



LINTEL FIXING DETAIL

NTS

METRO flue to be min 1000mm from roofing and to be installed as per manufacturers instructions

Flashing to cover min two crests to each side of flue

Corrugated profile Colorsteel roofing over Thermakraft 215 self supporting underlay

9mm H3.2 Ply to cut area of roofing

Continuous seal to top of flashing

Form cricket design to upper upstand in accordance with NZ Metal & Cladding Code of Practice

ROOF PENETRATION DETAIL

1:10

ROULSTON RESIDENCE

125 NIKAU PALM ROAD
PARAPARAUMU

REVISIONS:

Rev: Description: Date:

- Flue penetration detail changed for low pitch

GENERAL NOTES:

Check and confirm all dimensions prior to commencing any work on-site.

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CONSTRUCTION DETAILS

20

DATE: 5 MAY 2009

SCALE: As indicated @A3

JOB NUMBER: NA

DRAWN BY: S JOHNSON

DESIGN BY: Designer

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125 NIKAU PALM ROAD
PARAPARAUMU

Rev: Description: Date:

Check and confirm all dimensions prior to commencing any work on-site.
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07

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

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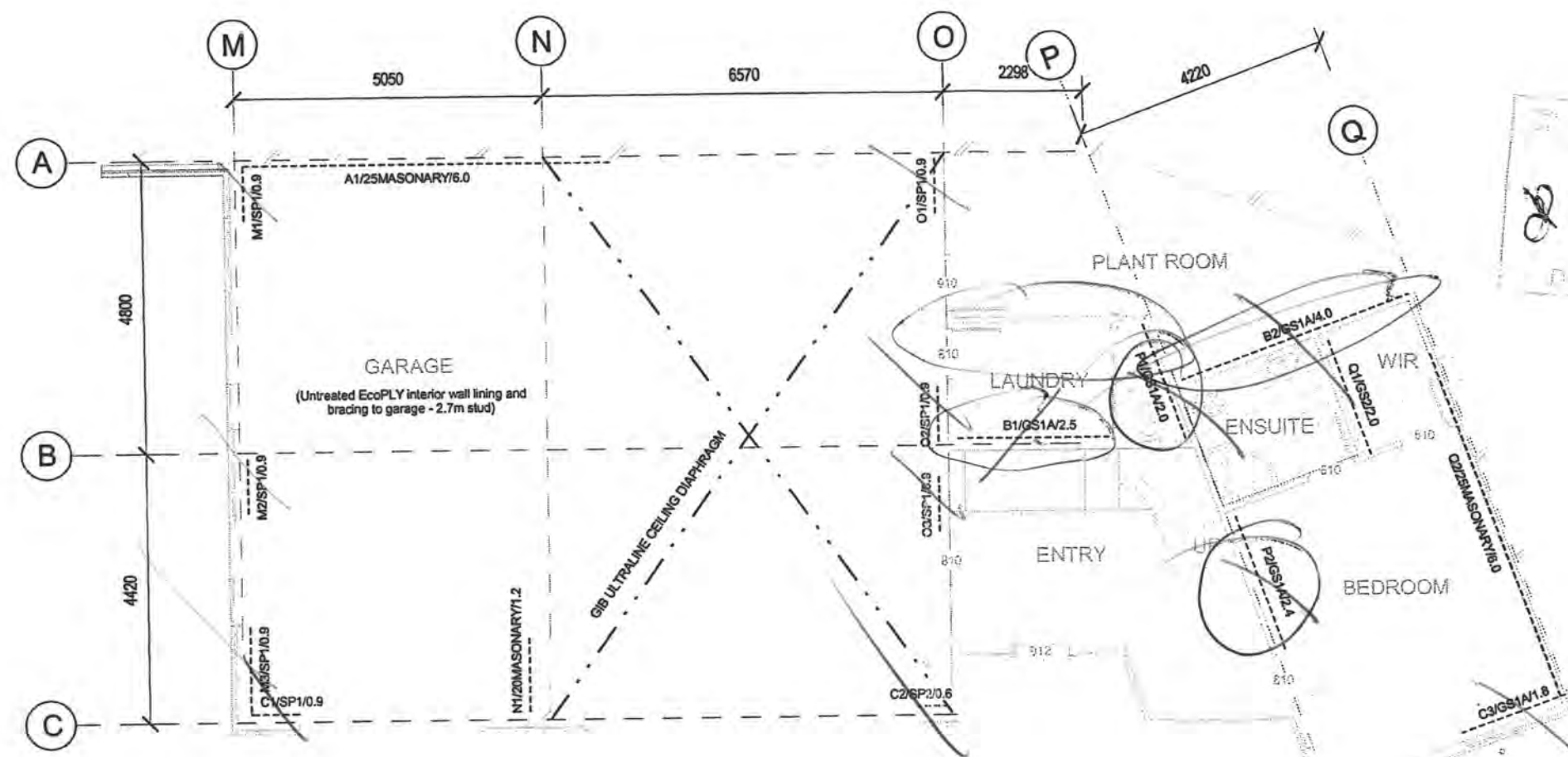
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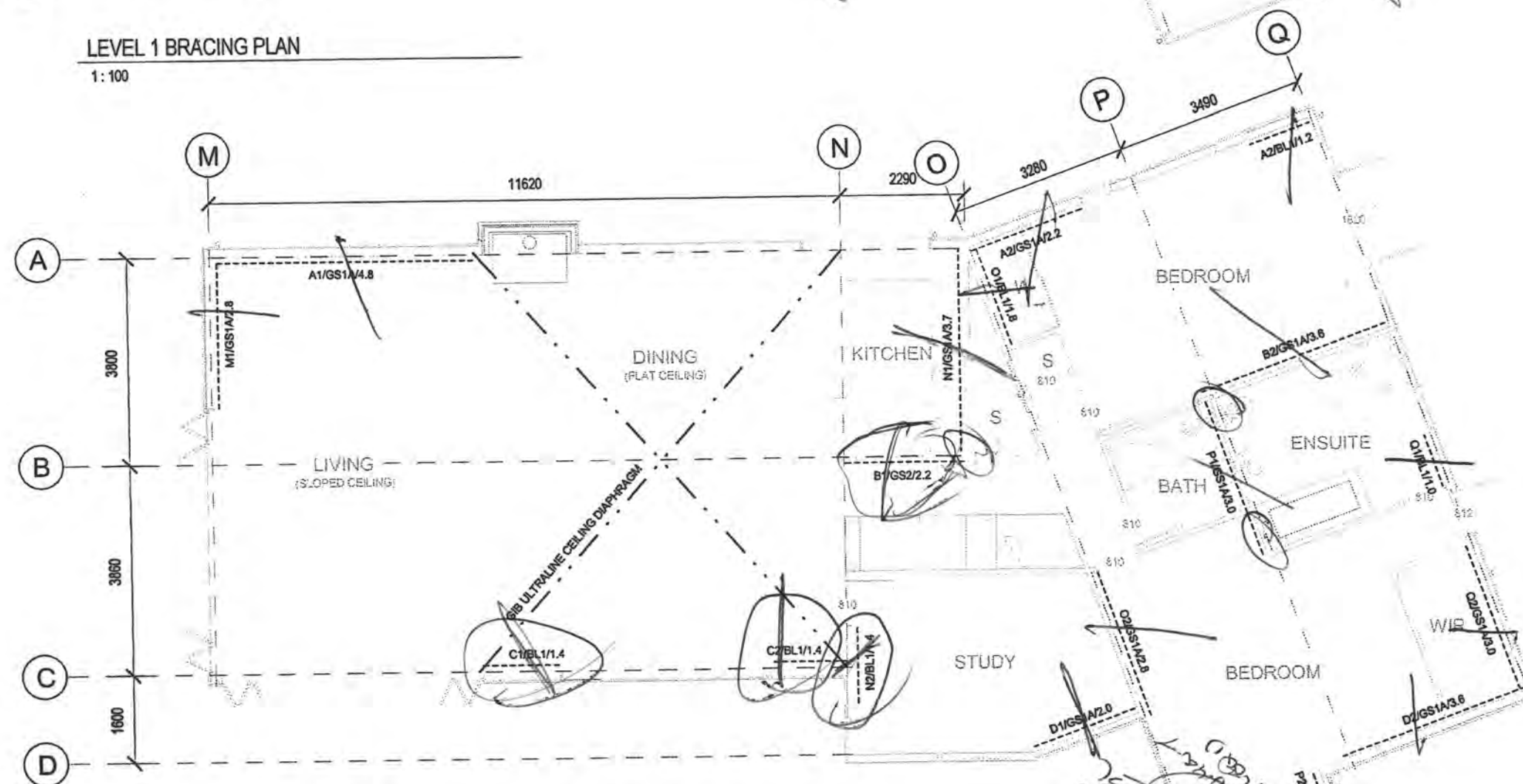
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1:100



1 : 100

ROULSTON RESIDENCE

125 NIKAU PALM ROAD
PARAPARAUMU

REVISIONS:

Rev: Description: Date:
- Bottom plate fixing requirements

GENERAL NOTES:

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LOWER FLOOR PLAN

04

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

ARCHITECTURE DM

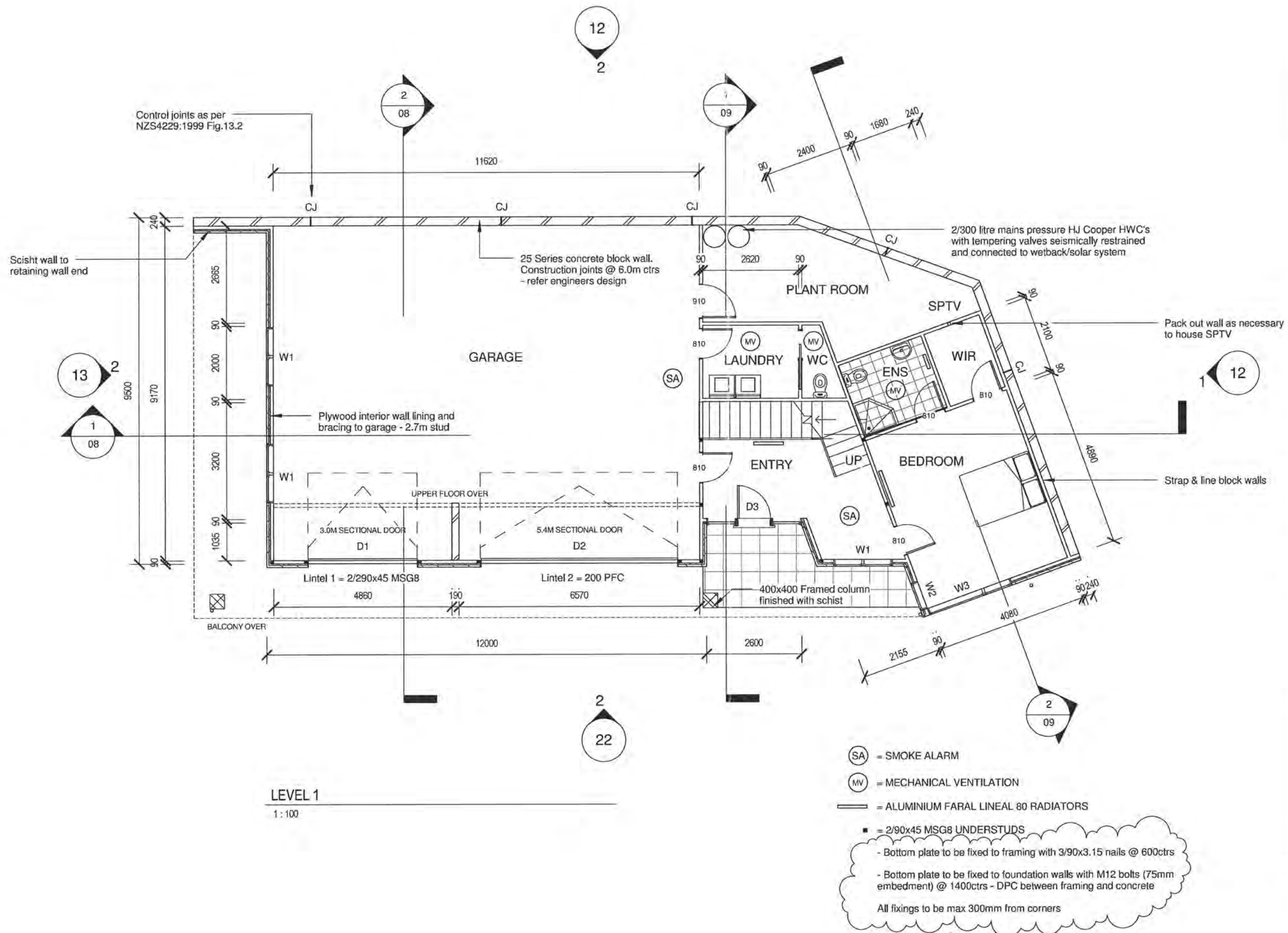
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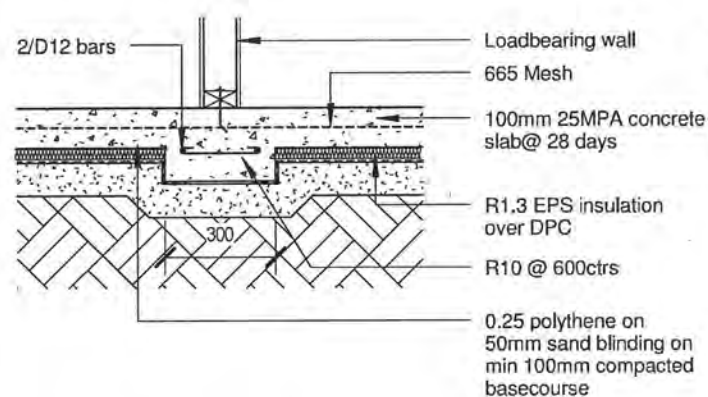
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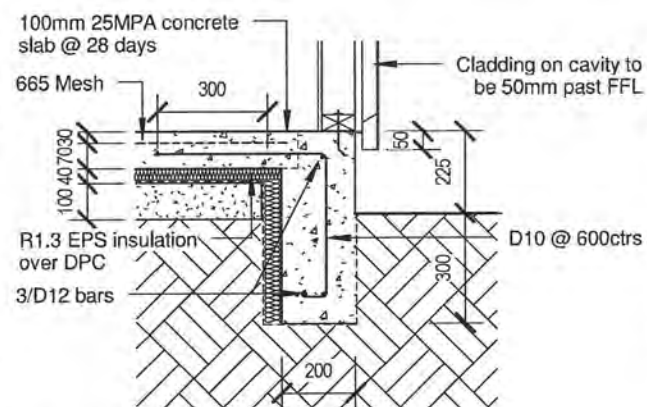
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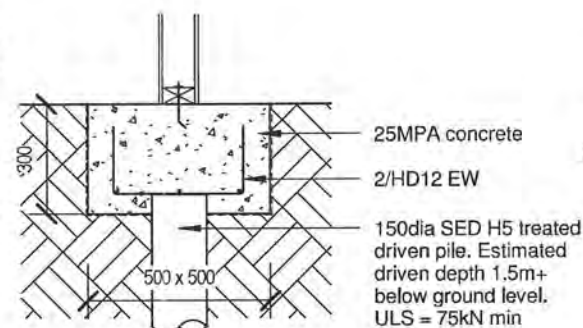
INTERNAL LOADBEARING FOOTING DETAIL

1:20



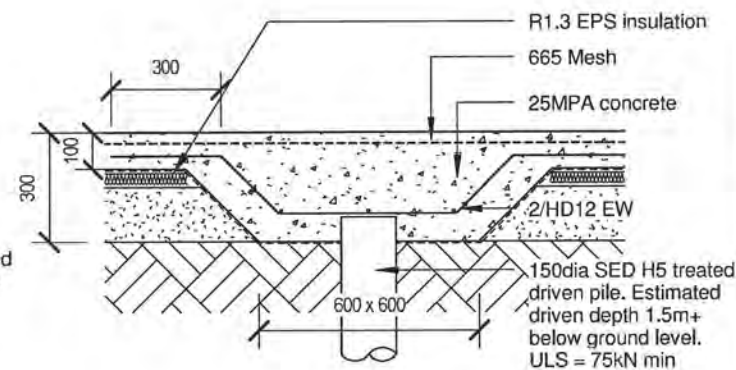
EXTERNAL WALL FOOTING DETAIL

1:20



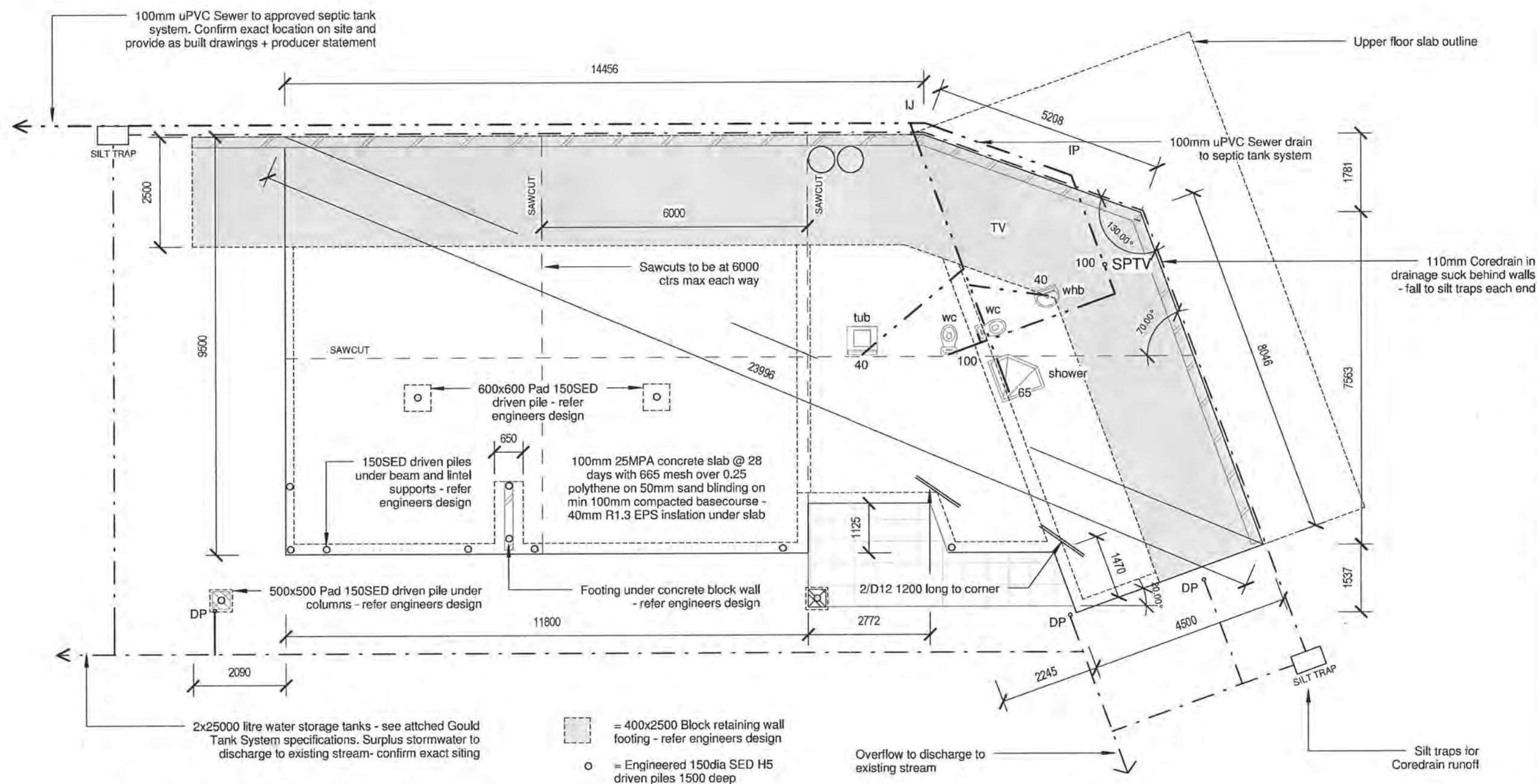
TYPICAL ENGINEERED PILE CAP DETAIL

1:20



TYPICAL ENGINEERED INTERNAL PAD DETAIL

1:20



FOUNDATION & DRAINAGE PLAN

1:100

ROULSTON RESIDENCE

125 NIKAU PALM ROAD
PARAPARAUMU

REVISIONS:

Rev: Description: Date:

GENERAL NOTES:

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FOUNDATION & DRAINAGE PLAN

03

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

ARCHITECTURE DM

17 GEAR ST
PETONE

P (04) 568 8468
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M 027 452 4670

E.dean@architecturedm.co.nz

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A D N Z
ARCHITECTURAL DESIGNERS NZ INC

ROULSTON RESIDENCE

125 NIKAU PALM ROAD
PARAPARAUMU

REVISIONS:

Rev: Description: Date:

GENERAL NOTES:

Check and confirm all dimensions prior to commencing any work on-site.

Use stated dimensions in preference to scaled.

If in doubt ASK.

Drawings at a larger scale take precedence over those drawn at a smaller scale.

Site measure all openings/spaces for items manufactured off-site.

Notes on one plan and not necessarily on other drawings are applicable to all drawings.

Any conflicts on the documents are to be notified to the designer prior to commencing work.

IF IT ISN'T DIMENSIONED - DO NOT SCALE!

SITE PLAN

02

DATE: 7 MAY 2009
SCALE: 1 : 1000 @A3
JOB NUMBER: NA
DRAWN BY: S JOHNSON
DESIGN BY: Designer

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PLUMBING + DRAINAGE NOTES:

-ALL PLUMBING AND DRAINAGE TO COMPLY WITH AS/NZS 3500 PART 2.2

-ALL STORMWATER AND SEWER PIPES TO BE 110dia PVC @ GRADIENT 1:100MIN.

-PLUMBING INFORMATION SHOWN FOR BUILDING CONSENT ONLY

-DRAINLAYER IS TO PROVIDE AS-BUILT DOCUMENTATION TO T.A. ON COMPLETION.

-INSPECTION POINTS TO BE PROVIDED AT THE FOLLOWING LOCATIONS:

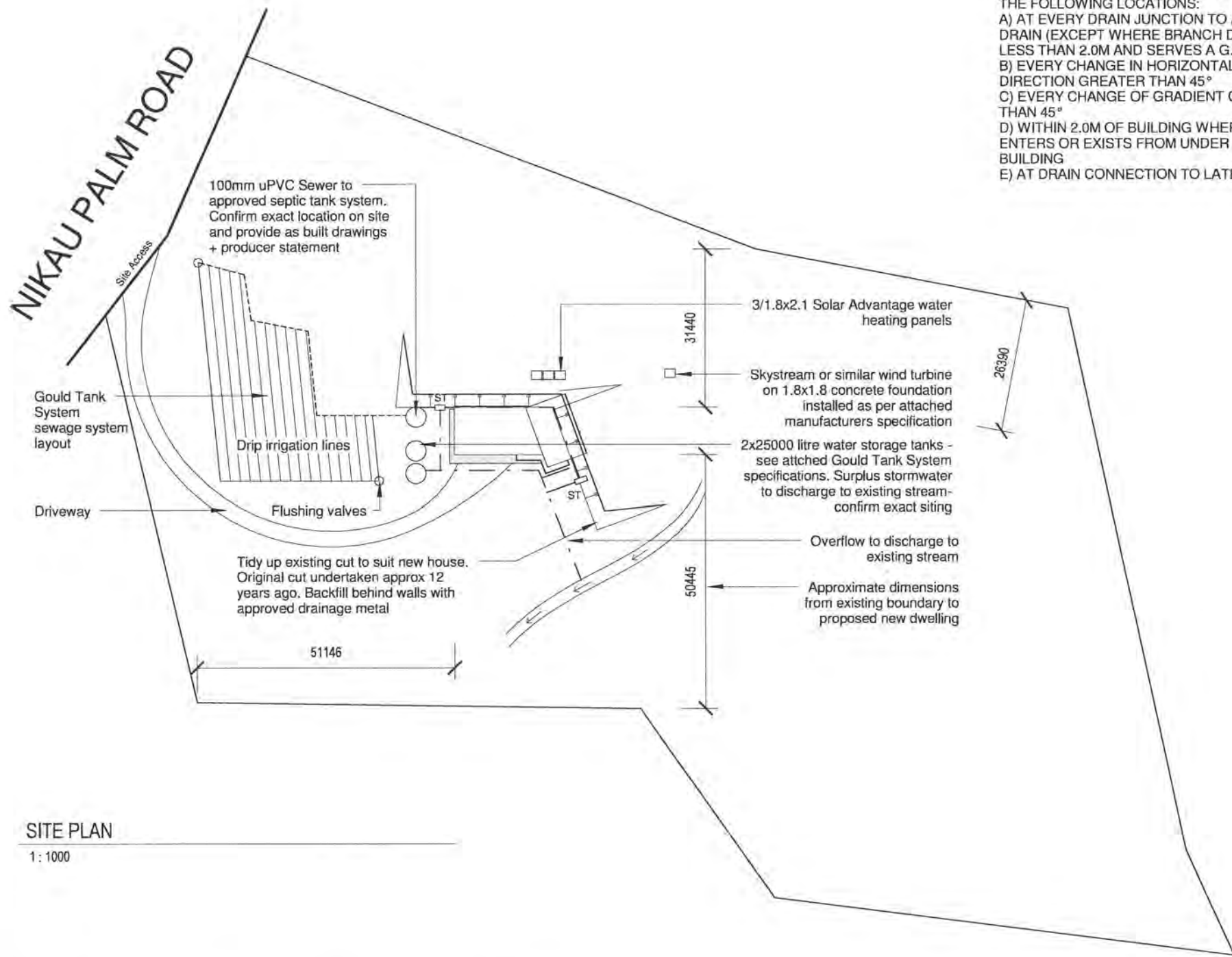
A) AT EVERY DRAIN JUNCTION TO ANOTHER DRAIN (EXCEPT WHERE BRANCH DRAIN IS LESS THAN 2.0M AND SERVES A G.T. ONLY)

B) EVERY CHANGE IN HORIZONTAL DIRECTION GREATER THAN 45°

C) EVERY CHANGE OF GRADIENT GREATER THAN 45°

D) WITHIN 2.0M OF BUILDING WHERE A DRAIN ENTERS OR EXISTS FROM UNDER A BUILDING

E) AT DRAIN CONNECTION TO LATERAL



SITE PLAN

1:1000

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

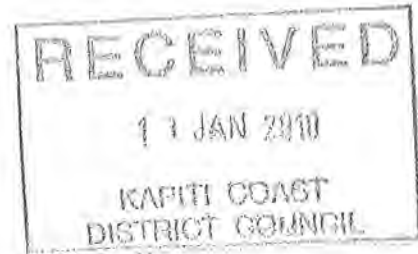
ST = Silt traps for Coredrain runoff

LEGAL DESCRIPTION	COUNCIL	AREAS	ZONES
ADDRESS: 125 NIKAU PALM RD CITY: PARAPARAUMU	Zone: RURAL Setbacks: Compliant Height Restriction: Compliant Recession Plane: Compliant Site Coverage: Compliant	Allowed Coverage: 35% Site Area: 22730m ² Footprint area: 193.7m ² Coverage: 0.85%	Wind Zone: HIGH Wind Region: R2 Corrosion Zone: 1 Earthquake Zone: A
LOT 4 DP 82049			

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

Warranty

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



1. Sika (Sika) Limited ("Sika") hereby warrants that the Sika Raintite ("The Product") supplied for use on the above project will conform with the technical data detailed on the attached Sika datasheet (together "the Datasheets") for a period of 15 years from the date of application.
2. This Warranty is provided on the basis that the Product is stored, transported, used, Installed, applied and maintained in strict accordance with the instructions contained in the Datasheets, and any other written instructions that may be provided by Sika, and that the Project is used within its stated shelf life. Failure to comply with such instructions or failure to use the Product prior to the expiry date of the Product will invalidate this Warranty.
3. In the event that it is proved to the complete satisfaction of Sika that the product does not conform with the technical data detailed on the Datasheets, Sika will, on request made in writing to the Head Office of Sika, at the sole and absolute discretion of Sika either:
 - (a) Supply free of charge such quantities of the Product that is proved not to so conform to replace that originally supplied; or
 - (b) Pay an account equal to the replacement value of the Product that is proved not to so conform multiplied by the unexpired warranty period divided by the warranty period, such adjustment to be calculated on the date of payment. Any amount calculated by Sika will be deemed correct in the absence of Manifest error.



Sika RainTite (au)

Liquid acrylic waterproofing membrane

Positioning Description

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

Use

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

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

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

Advantages

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

Product Data

Colour: Grey

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

Packaging: 15 litre pails

Technical Data

Specific gravity: 1.2 kg / litre

Solids Content: 51%

Drying times: Tack free: 1.5 hours
Recoat: 3 – 4 hours

(20°C, 50% RH) Fully cured: 7 days

VOC 14.4gms / 1 litre (1.2% by weight)

Application temperatures: Ambient: 5°C to 40°C

Substrate: 5°C to 40°C

Consumption: 0.3 to 0.5 litres/m² (per coat)

No. of coats: 3 coats minimum

Elongation at break: 312% (AS4858) Class III (High Extensibility)

Moisture vapour transfer: ~4.2 g/m² /24 hrs

Chemical resistance: Resistant to a wide range of chemicals and solvents



Endorsements made on any single page apply equally to the entire project.

Application Conditions

Instructions for use

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

Health & Safety Instructions

Protective Measures

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



Important Notes

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

Legal Notes

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



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Sikaflex® Construction

Flexible sealant for porous substrates

Positioning

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

Uses

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

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

Advantages

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

Tests

Approvals / Standards

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

Product Data

Type:

Moisture curing polyurethane prepolymer.

Packaging:

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

Storage & Shelf Life:

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

Technical Data

Density:

1.4 kg/litre depending on colour.

Service temperature:

Dry = -40°C to 70°C

Wet = up to 40°C (temporary up to 50°C).

Application temperature:

+5°C to +40°C (substrate and ambient).

Shore A hardness:

~ 25 after 28 days (at +23°C, 50% RH) (DIN 53 505).

Elastic recovery:

> 70% (DIN EN ISO 7389B)

E-Modulus:

~ 0.4 MPa at 100% elongation (+23°C, 50% RH) (DIN 52 455)

Elongation at break:

> 700% (DIN 53 504)

Tensile strength at break:

> 1.0 MPa (DIN 53 455)

Movement capacity:

± 25% of joint width (expansion - contraction)

Skinning time:

~ 60 minutes (at +23°C, 50% RH) (Subject to ambient conditions)

Cure rate:

1 mm per day (at +23°C, 50% RH) (subject to ambient conditions)

Joint Design

Precast Concrete Facade Joints:

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

Joints for General Use:

Joints up to 10 mm wide:

Width : Depth ratio = 1 : 1.

Joints between 10mm and 20mm wide:

Joint dimension = width x 10mm deep.

Joints over 20mm wide:

Width : Depth ratio = 2 : 1.

Minimum joint depth

= 8 mm.

Minimum joint width

= 8 mm.

Sika®



Application Conditions

Surface Preparation

- All surfaces must be clean, dry and free from any loosely adhering particles or surface contaminants such as dirt, dust, oil, grease, etc.

Backing Rod/ Bond Breaker

- In open based joints the correct depth should be established by inserting a Sika PEF Backing Rod of a suitable dimension. (Refer to **PEF Rod** data sheet).
- If the joint has a solid, formed base it is essential to apply a bondbreaker tape to this surface in order to prevent back adhesion. This will then allow the sealant unrestrained movement throughout the depth of the joint.

Priming

- Sikaflex Construction generally has excellent adhesion to most clean, sound, porous substrates. However, in areas of critical, high performance application such as multi storey building work, high stress joints and extreme weather exposure we always suggest the use of substrate primers and cleaners for optimum adhesion.
- For *porous substrates*, e.g. concrete, masonry, brickwork, hardiflex, timber etc, use **Sika Primer No. 3N**.
- When using primers it is essential that they have fully cured before applying Sikaflex Construction.
- For further information refer to **Sika Primer** data sheet or contact the Sika Technical Dept.

Application

- Protect each outside face of the prepared joint with a layer of masking tape.
- Apply the Sikaflex Construction using a Sika hand or pneumatically operated caulking gun at an angle to eliminate the inclusion of air pockets. The sealant should be firmly extruded into the joint, making sure that it is in full contact with the sides of the joint. Tool off the sealant to achieve a smooth finish. Tooling will also compress the sealant, promoting adhesion to the joint walls.
- Remove masking tape before sealant starts curing.

Cleaning of Tools

- Clean tools and equipment immediately after use with Sika Colma Cleaner. Cured Sikaflex can only be removed mechanically.

Notes on Application / Limitations

- Sikaflex Construction will not adhere to polyethylene, polypropylene, polybutylene, polycarbonate, silicone or teflon. If in doubt about substrate suitability consult the Sika Technical Dept or conduct preliminary adhesion tests.
- Protect against water for 8 hours after application.
- Over-painting of sealants with a rigid coating may inhibit their movement capabilities and is generally not recommended.
- Do not apply Sikaflex Construction to pre-painted surfaces without conducting adhesion tests first to determine compatibility.
- Silicone based sealants and coatings can negatively affect the curing and adhesion of other sealants such as Sikaflex Construction.
- Do not apply Sikaflex Construction to bitumen based coatings or surfaces. Do not overcoat Sikaflex Construction with bitumen based products.
- Do not use Sikaflex Construction for securing glass in structural glazing systems.
- All joints subjected to hydrostatic pressure must have a solidly formed base to provide bearing for the sealant.
- Sikaflex Construction, as with all elastomeric sealants, will ultimately break down when continuously exposed to chlorinated water in swimming pools. For pool joints use Sikadur Combiflex system (refer to separate data sheet for further information).
- For potable water tank jointing refer to **Sikaflex 11FC** Technical Data Sheet.
- Sikaflex Construction satisfies the durability requirements of the New Zealand Building Code, provided that it has been used strictly in accordance with all the information contained in this data sheet. All applications must be carried out in accordance with good joint design principles and installation procedures, and the designer, contractor, builder or applicator must satisfy themselves that these requirements will be met.
- Refer to the "Sikaflex Elastomeric Sealants" data sheet, for information on joint design and calculation of joint movement.

Notes

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

Local Restrictions

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.



Health & Safety Information

Protective Measures

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

Transportation Class

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

Legal Notes

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





Fosroc Limited
Head Office and Factory

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

MATERIAL SAFETY DATA SHEET (MSDS)

IDENTIFICATION

PRODUCT: DECKWEB

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

DESCRIPTION/PROPERTIES:

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

INGREDIENTS:

	Content	CAS. No
SPUNBONDED POLYESTER	HIGH	

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

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

Applicator Workmanship Warranty

WARRANTY No. _____ DATE OF INSTALLATION Feb 2011
BUILDING OWNER & ADDRESS Tom Roulston
125 Nikau palm RD paraparaumu
APPLICATOR (Name, Address, Phone No.) Coastal Roofing Solutions Ltd
AREA LAID m² 20 sqm PRODUCT, TYPE AND USE 1.5m Grey
Roof

Subject to the conditions appearing below, the Applicator warrants its workmanship as follows:

- a) All membrane products (the "Materials") are laid and installed in compliance with the manufacturer's instructions; and
- b) For a period [] years, the Workmanship on the Materials by the Applicator shall maintain a waterproof barrier to the area treated.

This Warranty shall be subject to the conditions which follow:

1. This Warranty shall extend only to the workmanship undertaken by the applicator and shall in no way bind the manufacturer of the Materials laid and installed by the Applicator.
2. The Applicator's obligations under this Warranty shall be limited to the Applicator making good at their expense any defect in the workmanship which permits the entry/escape of water. The Applicator shall have no further liability or responsibility for any direct, indirect or consequential injury, loss or damage whatsoever and howsoever arising.
3. This Warranty shall not apply to any alleged defective workmanship that is:
 - a) Due directly or indirectly to any cause such as (without limiting the generality of this exclusion) governmental or environmental interference or any other cause beyond the reasonable control of the Applicator; or
 - b) Caused by the act, omission, default or representation of any party other than the Applicator, its servants or agents and in particular the work of any other tradesman and damage from persons not authorised by the Applicator to have access to or be employed in the repair, maintenance or alteration of the application during the warranty period; or
 - c) Caused by the Materials or any of them being disturbed by any party other than the Applicator after fixing.
4. This Warranty shall be invalid unless the Applicator receives the Customer's written claim within the warranty period and within fourteen (14) days after the date of discovery of any alleged defect.
5. Where it is necessary for the Applicator to repair any defective workmanship, the Customer shall remove and/or replace plant, equipment or any other objects that hinder the access by the Applicator to the Materials. The cost of any site visit requested under a warranty claim which does not reveal any problem relating to the warranted scope of work shall be paid for by the party requesting the inspection at the then current trade consultancy rates.
6. The Customer shall have made payment in full to the Applicator for the nominated works within the terms of the Applicator's contract with the Customer prior to the Customer making claim under this Warranty.
7. In the event that any Materials subject to this Warranty are ordinarily acquired for personal, domestic or household use or consumption, then this Warranty shall be read subject to the guarantees contained in the Consumer Guarantees Act 1993.
8. The Customer acknowledges that the Applicator is not employed by nor is an agent of the manufacturer of the Materials and that the manufacturer will not be liable to any person for the Workmanship, acts or defaults of the Applicator.

Applicator Name (Print) Ben Kendall Telephone No.: 0212489095
Address: Pox Box 437
Signature of Applicator B Date: 27/1/12

WARRANTY

Warranty Number: CW 2275
Date Issued: 3rd August 2011
Issued to: Texturite Coatings 2003 Ltd
Project Name: Tom Roulston
Project Address: 125 Nikau Palm Road, Nikau Valley,
Paraparaumu
Product or System used: PolyClad Barricade – 15yrs, Limeseal,
Fleximatt
Original Coating Colour(s):
Completion Date: 1st July 2011
Approved Applicator: Texturite Coatings 2003 Ltd
Total Area: 130m²

- 1 Sika (NZ) Limited ("Sika") hereby warrants that the PolyClad[®] Barricade System with Architextures Coatings System, Limeseal, Fleximatt ("the Product") supplied for use on the above project will conform with the technical data detailed on the attached Sika PolyClad[®] Barricade System and Sika Architextures[®] Primers/Sealers, Basecoats, datasheets (together "the Datasheets") for the following periods:
PolyClad[®] Barricade System: 15 years from the date of application
Architextures Coatings System: 10 years from the date of application
-Limeseal
-Fleximatt
- 2 This Warranty is provided on the basis that the Product is stored, transported, used, installed, applied and maintained in strict accordance with the instructions contained in the Datasheets, and any other written instructions that may be provided by Sika, and that the Product is used within its stated shelf life. Failure to comply with such instructions or failure to use the Product prior to the expiry date of the Product will invalidate this Warranty.
- 3 In the event that it is proved to the complete satisfaction of Sika that the Product does not conform with the technical data detailed on the Datasheets, Sika will, on request made in writing to the Head Office of Sika, at the sole and absolute discretion of Sika either:
 - (a) supply free of charge such quantities of the Product that is proved not to so conform to replace that originally supplied; or



- (b) pay an amount equal to the replacement value of the Product that is proved not to so conform multiplied by the unexpired warranty period divided by the warranty period, such adjustment to be calculated on the date of payment. Any amount calculated by Sika will be deemed correct in the absence of manifest error.
- 4 Sika shall not be liable for any other claims for loss, damage, costs or expenses of any kind arising out of or attributable to any breach by Sika of the Warranty or negligence or otherwise howsoever and whether direct or consequential in connection with the use of the Product.
- 5 Sika shall only be liable under this Warranty if notice has been given in writing within seven (7) days (time being of the essence) of any failure or defect of the Product becoming apparent or known. The Claimant shall ensure that Sika is afforded the opportunity to inspect the area affected as soon as practicable after such notification.
- 6 Save for this Warranty, Sika makes no representation and gives no assurance, condition or warranty of any kind (including any assurance, condition or warranty implied by law to the extent that the assurance, condition or warranty can be lawfully excluded) in relation to the Product and accepts no liability for any assurance, condition, warranty, representation, statement or term not expressly set out in this Warranty. Where the Product is being acquired for business purposes, the provisions of the Consumer Guarantees Act 1993 are specifically excluded.
- 7 This Warranty will apply only once Sika has received payment for the Product in full and on time in accordance with Sika's terms and conditions of sale.
- 8 This Warranty is only applicable to product quality and specifically excludes any defects or failures to the extent that they are attributable to workmanship, including product application, preparation or installation of surfaces or substrates by the Claimant or any other party.
- 9 This Warranty does not cover the effects of movement (either opening or closing) in any horizontal or vertical joint or joints, beyond the defined capability of the Sika jointing product(s) or system(s), nor any visual effects of such movement, such as bulging or cracking.
- 10 This Warranty does not cover any cracking that may occur at junctions between dissimilar substrate materials and/or different cladding systems.
- 11 This Warranty does not cover any damage caused by or attributable to the use of a coating that has a light reflectance value (LRV) of less than forty (40).
- 12 This Warranty excludes damage caused by fair wear and tear, including fading.



- 13 This Warranty will be invalidated in the event that any remedial work is undertaken in relation to the Product without the prior written approval of Sika.
- 14 This Warranty shall extend to any replacement quantities of the Product provided but only for the balance of the original Warranty period.
- 15 If any alleged failure or deterioration in the Product is proven to not be the responsibility of Sika, then all costs associated with the investigation of such failure or deterioration shall be borne by the Claimant.

Yours faithfully
Sika (NZ) Limited



P D Withell
General Manager



M Edwards
Business Unit Manager - Contractors

Data Sheets for the products covered by this warranty:

Sika Architextures® Primers/Sealers

Dated 10/06 reprinted 09/09

Sika Architextures® Basecoats

Dated 10/06 reprinted 09/09

Sika PolyClad® Barricade System

Dated 08/07

Sika Architextures® Maintenance of Coatings

Dated 10/06 reprinted 04/08



Document: Warranty-PolyClad
Ver: 06/11
Page 3 of 3

Sika Architectures® Primers/Sealers

Positioning Description

A range of surface primers and sealers for use with the Architectures® cladding, jointing, coating, texturing and finishing systems.

Sika Sealer No. 1	Pigmented, water based acrylic sealer.
Architectures Primer W	Clear, water based acrylic polymer primer/sealer.
Architectures Primer S	Clear, solvent based primer sealer.
Sika Limeseal	Clear, water based, acrylic co-polymer primer/sealer.

Use

- Principally exterior use.
- Used as a primer/sealer to prepare the surface of absorbent substrates, prior to the application of, and to aid the adhesion of, Sika Architectures® cladding, coating and jointing systems.
- Typical substrates for the Architectures® range of finishes includes PolyClad plaster claddings, concrete, stucco plaster, concrete masonry, fibre cement, brick, aerated concrete and polystyrene blocks

Advantages

- **Water based options** – Sika Sealer No. 1, Architectures Primer W, Sika Limeseal - low hazard.
- **Solvent based options** – Architectures Primer S - superior penetration, adhesion and binding of powdery surfaces.
- **Coloured options** – Sika Sealer No1 - helps to disguise minor blemishes and stains.
- **Sika Limeseal allows application to uncured plaster and masonry** – Seals plaster surfaces to prevent lime escape. Helps suppress efflorescence. Allows coating work to proceed when plaster curing is slow.

Product Data

	Sealer No. 1	Architectures Primer W	Architectures Primer S	Limeseal
Form	Water based	Water based	Solvent based	Water based
Appearance	White liquid; Dries white, low sheen	Milky liquid; Dries clear and glossy	Clear liquid ; Dries clear & glossy	Milky liquid ; Dries clear & glossy
Specific Gravity	1.26	1.01	1.85	1.01
Volume solids	40%	24%	20%	18.5%
Flash point	n/a	n/a	38°C	n/a
Touch dry¹	1 hour	15 minutes	30 minutes	1 hour
Re-coat time¹	2 hours	30 minutes	2 hours	4 hours
Application and drying conditions	Max. 85%RH 10°C – 30°C	Max. 85%RH 10°C – 30°C	Max. 85%RH 10°C – 30°C	Max. 85%RH 10°C – 30°C
In-service temperature	-20°C – +60°C	-20°C – +60°C	-20°C – +60°C	-20°C – +60°C
Approximate coverage rate	6 m ² /litre/coat	8-10 m ² /litre/coat	8-10 m ² /litre/coat	7-8 m ² /litre/coat
Application to damp surfaces	Not recommended	Not recommended	No	Yes
Approximate dry film thickness	65 microns	25 microns	20 microns	25 microns
Clean up	Water	Water	Mineral turpentine or Sika Colma Cleaner	Water
Packaging	20 litre plastic pails	20 litre plastic pails	20 litre metal pails	20 litre plastic pails
Shelf life²	24 months	24 months	24 months	24 months

Notes:

1. Drying times are based on drying conditions of 20°C and 60% RH.
2. From date of production when stored in unopened, original containers at temperatures between +5°C and +35°C. Do not allow to freeze.

Construction

Sika®

Application Conditions

Surface Preparation

- Ensure surfaces are clean, sound, dry, and free from grease, oil, efflorescence, laitance, loose matter, mould, mildew, curing compounds, release agents, or any other contaminants that may impair adhesion.
- All substrates are to be flat and within specified surface tolerances or the equivalent of NZS 3114; 1987 - Class F5 (concrete surface finish).
- All faults must be corrected prior to commencement of the coating work.
- Substrates must be properly designed and be structurally sound and stable.
- Timber structures must be dry (18% WME) at the time of coating or cladding.
- Concrete and plaster surfaces must have 28 days cure unless sealing with **Limeseal**. If sealing with Limeseal, in all instances, the longer the plaster can be left before treatment with Limeseal, the more certain will be the efflorescence inhibition. Plaster must be through-dry and not simply surface dry. Confirm that the plaster is not wet inside by digging into the plaster with a blade. In good drying conditions leave PolyClad Plaster at least overnight to dry. During inclement weather and when temperatures are below 15°C, it is desirable to wait up to 3 days before applying Limeseal.

Thinning

- **Sika Sealer No. 1** - On dense or very porous surfaces prime with Sika Sealer No. 1 thinned by maximum 50% with potable water. On other surfaces, and onto primer coat (once dried), apply one un-thinned coat.
- **Architextures Primer W** - May be thinned by up to 10% with potable water when applied in hot dry application conditions.
- **Architextures Primer S** - May be thinned by up to 10% with mineral turpentine if required in hot dry application conditions.
- **Sika Limeseal** - Not recommended.

Application

- Stir Sika Architextures® primer/sealer to ensure contents are homogeneously blended.
- Apply using brush or medium nap roller, working the sealer well into the surface.
- Spray application of primers/sealers onto porous surfaces is not recommended unless over-rolled after application to maximise penetration and sealing properties.
- Do not apply in high wind, very hot conditions, direct sunlight or when rain is imminent.

Curing Conditions

- Water based coatings dry by evaporation of water from the film. It is necessary to protect the newly applied material during this time from rain, freezing conditions, high relative humidity, and physical damage. Failure to do so may result in the coating being washed off, failing to form a film, or bubbling when dried. Wind or ventilation will aid the drying process.
- Hot weather can also cause problems. In this case the coating dries too quickly causing lapped edges to dry and leave roller or brush marking. To help maintain a wet edge carefully program the work to break work areas into smaller sections or work in the shade, preferably ahead of the sun.

Overcoating

Sika Primers/Sealers may be overcoated with any of the Sika Architextures® Basecoat or Texture options.

Important Notes

- Do not apply solvent based products over polystyrene based claddings.
- Do not use below ground or subject to permanent wetting or water ponding situations.
- Sika primers/sealers are recommended for use only as described on this Technical Data Sheet.
- Surface irregularities are exaggerated by different lighting conditions, particularly light shining obliquely the surface of a wall. Contrary to common perception, texture coatings will not conceal inadequate surface profile or preparation and have limited ability to conceal defects.

Notes

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

Local Restrictions

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.



Health & Safety Instructions

Protective Measures

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

Important Notes

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

Legal Notes

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



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Sika Architextures® Basecoats

Weatherproofing base and finish coats

Positioning Description

Range of breathable weatherproofing base and finish coatings for use with the Architextures® cladding, jointing, coating, texturing and finishing systems.

- Basecoat No. 1** - Pigmented, high build, water based acrylic coating. Low, semi gloss finish.
- Flexiform** - Pigmented, high build, water based acrylic coating. Low, semi gloss finish.
- Fleximatt** - Pigmented, high build, water based acrylic coating. Matt finish.
- Colorkote** - Pigmented, medium build, water based acrylic coating. Low gloss (silk) finish.

Use

- Principally exterior use.
- To be applied over Sika Architextures® Primer/Sealers – refer to separate Sika Technical Data Sheet.
- Used to provide a weatherproof basecoat or finish for the Sika Architextures® range of cladding, coating and jointing systems.
- Typical substrates include Polyclad plaster claddings, concrete, stucco plaster, concrete masonry, fibre cement, brick, aerated concrete.

Advantages

- **Water/weather resistant** – Protects the substrate from moisture ingress through the coating.
- **Flexible** – Helps cope with minor structural movement.
- **Water based** – Easy to use and clean up.
- **Breathable** – Allows moisture vapour (not liquid water) to permeate through the coating.
- **Coloured options** – Available in a wide range of colours.

Properties

	Basecoat No. 1	Flexiform	Fleximatt	Colorkote
Form	Water based coloured paste	Water based coloured paste	Water based coloured paste	Water based coloured liquid
Appearance	Wide range of colours. Low semi gloss finish	Wide range of colours. Low semi gloss finish	Wide range of colours. Matt finish	Wide range of colours. Low (silk) finish
Specific Gravity	1.38	1.38	1.38	1.30
Volume solids	45%	45%	45%	39%
Flash point	n/a	n/a	n/a	n/a
Touch dry	1 hour	1 hour	1 hour	30 minutes
Re-coat time¹	8 hours	8 hours	8 hours	2 hours
Application and drying conditions	Max. 85%RH 12°C – 30°C	Max. 85%RH 12°C – 30°C	Max. 85%RH 12°C – 30°C	Max. 85%RH 10°C – 30°C
In-service temperature	-20°C – +60°C	-20°C – +60°C	-20°C – +60°C	-20°C – +60°C

Construction

Sika®

	Basecoat No. 1	Flexiform	Fleximatt	Colorkote
Approximate coverage rate: Fibre Cement Masonry Brick Stucco plaster	2 m ² /litre	2 m ² /litre	2 m ² /litre	N/R
PolyClad Barricade Concrete	4 m ² /litre	4 m ² /litre	4 m ² /litre	3.8m ² /litre
Minimum dry film thickness: Fibre Cement Masonry Brick Stucco plaster	200 microns	200 microns	200 microns	N/R
PolyClad Barricade Concrete	100 microns	100 microns	100 microns	100 microns
Clean up	Water	Water	Water	Water
Recommended no. of coats	2	2	2	2
Packaging	20 litre plastic pails	20 litre plastic pails	20 litre plastic pails	20 litre plastic pails
Shelf life²	24 months	24 months	24 months	24 months

- Notes:**
1. Drying times are based on drying conditions of 20°C and 60% RH.
 2. From date of production when stored in unopened, original containers at temperatures between +5°C and +35°C. Do not allow to freeze.

Quoted coverage rates are approximate only. Material losses during mixing and application must be taken into account when calculating material requirements. Allowances for variations in the substrate profile and condition must be made.

Application Conditions

Surface Preparation

- Ensure surfaces are clean, sound, dry, and free from grease, oil, efflorescence, laitance, loose matter, mould, mildew, curing compounds, release agents, or any other contaminants that may impair adhesion.
- All substrates are to be flat and within specified surface tolerances or the equivalent of NZS 3114: 1987 - Class F5 (concrete surface finish).
- Surfaces must be properly designed and be structurally sound and stable. Timber structures must be dry (18% WME) at the time of coating or cladding.
- All faults must be corrected prior to commencement of the coating work.

Primer/Sealer

- Prime surfaces using selected sealer from the Sika Architectures® Primers/Sealers Technical Data Sheets:
 - Sika Sealer No 1
 - Sika Primer W
 - Sika Primer S
 - Sika Limeseal
- Sika PolyClad Barricade and other plaster surfaces must have 28 days curing unless sealing with Limeseal – refer to Sika Architectures® Primers/Sealers Technical Data Sheets.

Thinning

Not recommended.

Mixing

- Sika Architectures® Basecoats are premixed.
- Stir or mix to ensure contents are homogeneously blended. Mix slowly to avoid entering air into the product.

Application

- Apply evenly using brush, medium to long nap lambs wool roller, conventional or airless spray. "Lay off" the coating to minimize roller marking or texture. Apply 2 or more coats as required to achieve minimum recommended dry film thickness. It is important to "cut in" as the basecoat is being rolled to maintain a wet edge and avoid variations in gloss and finish.
- Do not apply in high winds, very hot conditions, direct sunlight or when rain is imminent.



Curing

- Water based coatings dry by evaporation of water from the film. It is necessary to protect the newly applied material during this time from rain, freezing conditions, high relative humidity, and physical damage. Failure to do so may result in the coating being washed off, failing to form a film, or bubbling when dried. Wind or ventilation will aid the drying process.
- Hot weather can also cause problems. In this case the coating dries too quickly causing lapped edges to dry and leave roller or brush marking. To help maintain a wet edge carefully program the work to break work areas into smaller sections or work in the shade, preferably ahead of the sun.

Maintenance

All Sika Architextures® finishes must be maintained. Refer to Sika Technical Data Sheet "Maintenance of Sika Architextures® Coatings".

Colour

- It is recommended that the colour of the Sika Architextures® Basecoat match the colour of the selected Sika Texture Option and Glaze finish that will be applied over the basecoat.
- One of the most important aspects of any cladding system is colour. Most Sika Architextures® Basecoats can be supplied tinted to almost any colour; however some dark colours are not available. Customers are requested to select a colour from the British Standard 5252 range or any other readily available paint colour chart. A wet sample (test pot) can be supplied if required. Product will be tinted once the colour has been approved by the building owner.
- Contractors are reminded that it is good trade practice to "box pails" if individually tinted.
- NZBC Acceptable Solution E2/AS1 requires that EIFS and fibre cement substrates be coated with colours with a minimum light reflectance value (LRV) of 40%.

Control Joints

- Substrate movement joints (control joints) must be placed where recommended by the substrate manufacturer or relevant standard.
- As a general rule the coating should not be applied over sealants as the coating might limit the movement of the sealant, leading to premature failure of the sealant. In some cases compatibility problems can be experienced resulting in unsightly staining or long term tackiness of the coating with subsequent dirt pickup.

Parapet walls and horizontal surfaces.

- Adequate flashings are required on all parapet cappings and horizontal surfaces.
- Use suitable metal cappings or refer to Sika Dekclad (waterproofing membrane) Technical Data Sheet.

Texture options

- There are two methods of achieving a texture finish with the Sika Architextures® system – with the use of Sika Architextures® Pre-Textures or with the use of Sika Architextures® Textures. Note that:
 - The Sika Architextures® Basecoat is applied over the Sika Architextures® Pre-Textures.
 - The Sika Architextures® Basecoat is applied before Sika Architextures® Texture.
- Refer to the separate Sika Technical Data Sheets.

Glaze Options

An optional glaze coating may be applied over Sika Architextures® Basecoats to improve durability and dirt shedding properties. Refer to Sika Technical data Sheet "Sika Architextures® Glaze Finishes".

Important Notes

- Do not apply solvent based products over polystyrene based claddings.
- Do not use below ground or subject to permanent wetting or water ponding situations.
- Sika Basecoats are recommended for use only as described on this technical data sheet.
- Surface irregularities are exaggerated by different lighting conditions, particularly light shining obliquely onto the surface of a wall. Contrary to common perception, texture coatings will not conceal inadequate surface profile or preparation and have limited ability to conceal defects.



Notes	All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.
Local Restrictions	Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.
Health & Safety Instructions	
Protective Measures	• To avoid rare allergic reactions, we recommend the use of protective gloves. Change soiled work clothes and wash hands before breaks and after finishing work. • Local regulations as well as health and safety advice on packaging labels must be observed. • For further information refer to the Sika Material Safety Data Sheet which is available on request. • If in doubt always follow the directions given on the pack or label.
Important Notes	• Residues of material must be removed according to local regulations. Fully cured material can be disposed of as household waste under agreement with the responsible local authorities. • Detailed health and safety information as well as detailed precautionary measures e.g. physical, toxicological and ecological data can be obtained from the safety data sheet.
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Sika Architextures® Maintenance of Coatings

No coating will last forever on the exterior of a building but regular maintenance will help maintain the coating system's good looks and extend its life. Regular cleaning is recommended at maximum 12 monthly intervals.

This Technical Information Sheet is intended to help the applicator, specifier, and/or building owner understand why coatings are not "maintenance free" and what needs to be done to extend the life of the Architextures® coating system.

The Problem

At some time during the coating's life, depending on how shaded the coating is, how dirty the area is, the degree of texture, the geographical location, and the closeness to the sea, industry or agriculture/horticultural activity, the coating will begin to lose its sheen and begin to deteriorate.

Damp Areas

If the area is shady it will also be damp, the ideal conditions for mould growth. Mould spores are always present in the air and if conditions are favourable they settle down and grow on surfaces that are dirty or porous. Mould will grow on any surface under the right conditions. Coarse textures trap nutrients and mould spores making an ideal breeding ground. If left to grow the roots will ultimately take hold in the coating causing it to deteriorate prematurely.

Dirt/Dust

In new subdivisions or areas with intensive horticulture/agriculture there is often a considerable amount of dust in the air from ploughing and earthmoving operations, etc. This also tends to settle on textured surfaces. Some industrial areas may also produce dusts and other airborne substances which can settle on the coating.

Environment

Extremes of temperature, ultraviolet radiation and humidity also contribute to accelerated surface degradation, including colour change and fading etc. Temperature and humidity fluctuations also cause structural stresses as building and cladding materials expand and contract. This can cause high levels of stress to the coating and jointing systems in the cladding.

Don't forget the effects of spider webs, insect nests and gardens/trees close to the coated walls.

A combination of the above results in a damp, discoloured coating that never dries out and is therefore more susceptible to breaking down. However, a building that is cleaned regularly and is well maintained will retain its fresh look longer and will be easier to maintain overall.

The Solution

The best way to clean the Architextures® coating systems is to lightly scrub with a soft bristled brush and water containing household detergent.

Non-caustic, non-acidic proprietary moss/mould treatment solutions or dilute bleach (0.5% active chlorine in Sodium Hypochlorite solution) are also suitable, if used in accordance with the manufacturers recommendations.

High pressure water blasting is not recommended due to possible damage to the coating or cladding.

The coating should be rinsed off after washing, or after moss/mould treatment solutions (following the recommended dwell time). Use fresh water to remove all loose materials, salt, dirt, mould and other surface contaminants.

Alternatively, employ a professional house washing company which uses suitable chemical solutions in combination with low pressure washing.

Construction



Inspection

After the surface has been cleaned and left to dry it is a good time to inspect the Architextures® coating for damage or deterioration including cracking, flaking paint, peeling, etc.

Repair the coating as required preventing moisture ingress behind the coating or into the cladding or structure.

Ensure gardens have not been built up close to or over the cladding system. Maintain recommended distances from the bottom of the cladding to gardens, paving, etc. Architectural coatings and sheet cladding materials (fibre cement and others) are not designed to be buried. Constant moisture exposure can cause them to break down very quickly.

Other cladding materials may not deteriorate but may allow water to gain access to the inside which in turn will rot the framing, carpet and wall linings.

The NZ Building Code requires 175mm clearance between soil and the base of the cladding. Concrete or other paving must be kept 100mm clear of the base of the cladding.

Repairs

If texture or coating has been lost it must be replaced using close matching Architextures® materials.

Care is required at the edge of the repairs to ensure it blends in with the rest of the coating. If this is not possible, the entire wall or elevation will require recoating to a natural break in the structure to hide or mask the repair.

Any cracks must be properly filled or repaired prior to coating.

Once cleaning and remedial work is completed it is recommended that recoating/glazing of the original coating be carried out as recommended below.

Repainting

Recoating/glazing of the Sika Architextures® Coating system is recommended at maximum 10 yearly intervals.

Clean and prepare the coating as recommended above.

If the texture is undamaged and/or recommended repairs have been carried out, recoat using 2 full coats of a suitable pigmented (coloured) Sika Architextures® Basecoat (Flexiform, Basecoat No1, Fleximatt) or Glaze (Colorkote).

Health & Safety Instructions

Protective Measures

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

Important Notes

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

Legal Notes

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SIKA POLYCLAD® BARRICADE SYSTEM

Introduction

PolyClad® Barricade is an EIFS system incorporating a 20mm cavity between the framing and cladding.

Only Sika (NZ) Ltd approved PolyClad® Applicators will carry out the installation.

Before any installation proceeds, ensure that all relevant Sika Technical Data Sheets have been read properly and are completely understood.

Any deviation from these instructions without written authorisation by Sika (NZ) Ltd is likely to cause difficulties with issue of a Code Compliance Certificate, and will nullify Sika (NZ) Ltd warranties.

To ensure speedy but correct installation, plan ahead properly and follow the instructions exactly.

Health and Safety Requirements

Scaffolding must comply with Labour Department and Health and Safety in Employment Act requirements.

Sika PolyClad® Plaster may be harmful if swallowed or inhaled and may cause skin or eye irritation. It contains cement powder which when wet is alkaline and can cause burns to the skin. Wear an approved dust mask, PVC gloves and eye protection when mixing or using. For full details refer to Material Safety Data Sheets for all Sika materials. Contact Sika (NZ) Ltd for copies.

Care needs to be taken and the correct protective equipment worn when handling and cutting the polystyrene boards; these also present a dust hazard.

Ensure there are no site hazards. Confirm with builder.

Inspection of Site

Ensure timber/steel framing is correctly spaced, with studs at 600 mm maximum centres and nogs at 800 mm maximum centres.

Use additional framing as required at soffits, around openings, and at internal or external corners for the support and fastening of the board edges. Check with builder and if necessary get the extra framing installed.

Check with builder that the building wrap is fixed over the framing in accordance with manufacturer's instructions.
Ensure recessed joinery (windows, doors, ranchsliders, etc) is fitted first, with head flashings in place.

Window installation	Windows installed in PolyClad® Barricade should use the WANZ WIS system. Details are available from the WANZ website www.wanz.org.nz, or from Sika NZ Ltd, Architextures® website www.architextures.co.nz. As windows are normally in place before PolyClad® Barricade installation begins, many parts of the WANZ WIS system will have been put in place before the PolyClad® Applicator arrives on site and, as they will be covered up, will not be able to be checked by the cladding Applicator. The particular features which the PolyClad® Barricade Applicator will need to be aware of are: - Traditional practice requires cuts to be made in the building wrap near the window head, to accommodate head flashings and the like. This practice must NOT be used. Flashings or supplementary sections of building wrap should be placed on the face of the main building wrap, and a tape applied over their top edge, to ensure water is always shed to the outside and cannot go between layers. Suitable tapes are Sika® MultiSeal® Tape, Tyvek® Contractor Tape, Tyvek® FlexWrap™, Protecto Wrap Jiffy Seal 500, and Protecto Wrap BT20 XL. (Refer to Design Drawing 63A.) - An air seal must be installed between the internal window reveal and the rough opening immediately behind the internal lining. This is normally the responsibility of the window installer or builder, but the PolyClad® Barricade Applicator should remind the relevant party that it is required. The air seal shall be created by applying Sika Foamtak® SB. Care must be taken to ensure that the air seal does not completely fill the reveal gap. This can be achieved by using PEF Rod to limit the airseal depth to no more than 15 mm. (Refer to Design Drawings 61A, 62A, 63A, 63B, 63C, 63D, 63E and 63F).
Cavity Construction	The cavity is formed by installing battens to create a 20 mm space between the building wrap and the polystyrene cladding boards. It is important that the cavity is not used as a convenient place to install bracing sheets, services (pipes, cables), or other building componentry. The cavity must remain unobstructed except by battens and blocks shown or described in Sika (NZ) Ltd literature and drawings.
Batten material	The batten material shall be 50 mm x 20 mm H grade, self adhesive EPS as supplied by Sika (NZ) Ltd.
Batten layout	Vertical battens are placed over the framing studs and must be continuous from eave to footing, except at windows and doors. The reason for continuity of vertical battens is to break the cavity around the building into compartments. By creating such compartments, the air flow within the cavity is mainly vertical and as such will provide ventilation for drying. Too much horizontal air movement is undesirable, because it allows air pressures to actually drive water penetration, rather than stop it. Horizontal obstructions in the cavity will reduce ventilation and obstruct drainage of any accidental leakage waters. Accordingly, horizontal battens must NOT be installed. Horizontal blocks, no longer than 100 mm long and set to minimum 5° fall, may be placed on nogs (dwangs) as required for fixings.
Fixing of battens	These are temporarily held on the face of the building. Battens supplied by Sika (NZ) Ltd have an adhesive already applied that is exposed by peeling off the plastic backing. The nails or screws used to hold the cladding boards in place also act as the permanent fixing for the battens.
Flashings	Ensure all head, jamb, sill, trim and corner flashings have been correctly fixed in place. Sika Nailbond® PB shall be used to fully adhere the flashings to the polystyrene sheet. Use galvanised flat head nails to hold flashings in position while the Nailbond® PB cures. Note: In some cases a custom flashing will need to be made. Good trade practices must be followed to ensure the flashing details are effective. uPVC, lead, aluminium or exterior grade galvanised flashings are recommended. Any metal flashings should be painted with an anti-corrosive primer prior to coating with plaster. Consult Sika's Technical Advisory Service for advice.



Openings

The jamb flashing must extend up past the head flashing by 20 mm. The back flange of the jamb flashing must intersect with the head flashing in a very specific manner. Refer to Detail 65A. Profile cut the bottom end of the jamb flashing to neatly butt against the sill flashing profile. The sill flashing must extend beyond the jamb flashing by at least 20 mm with its back flange running behind the jamb flashing.

The jamb and sill flashings must be fitted to provide a gap of 5 mm between the window frame and the flashings.

All jamb/sill and head/jamb intersections must have a bead of Sika Silaflex MS placed both sides of the flashing which terminates at the intersection.

Notes for Joinery Manufacturer

Allow approximately 23mm offset for aluminum joinery from face of frame to back of window flange if using 20mm deep cavities (cavity depth + 3mm).

Aluminum head flashing length is approximately overall window width + 10mm. (5mm each side of window). Head is to fit inside jamb flashing.

Foot Flashing

Fix the Sika foot flashing in place along the bottom of the wall to hang a minimum 50 mm below the finished floor level. Use the top of the bottom plate or a chalk line to obtain a level for the top edge of the foot flashing. Fix the foot flashing in place with galvanised clouts fixed through blocks of batten material. Immediately prior to installing the board apply a bead of Sika Nailbond® PB to the inside back of the flashing. Immediately set the polystyrene board in place and nail.

It is important that the bottom of the cladding system is kept 100 mm above ground. Alternatively, special wall base details can be used - refer to Design Detail 51B. This detail is designed to ensure moisture is not carried up the cladding by capillary action to within 50 mm of the finished floor level or to building components which are vulnerable to rapid deterioration if regularly wetted (eg the bottom plate). If this detail is used, it must be understood by all parties that the materials below the capillary break will have limited durability. These materials are considered to be sacrificial and poor aesthetic performance should be expected.

Fixing of Insulation Boards

Check with the designer which thickness of EPS board is to be installed - 40mm or 60mm. Check that the correct material has been delivered to site. EPS must comply with the flame propagation criteria specified in AS1366.

Timber backing blocks for items such as downpipe brackets, garden taps, outside light fittings, pergolas and decks, should be fixed to the framing face at the required locations. Refer to Design Details 67 and 68.

Bevel boards at sills and at heads when required.

Boards may be fixed horizontally or vertically. Sheet end (short side) joints in the body of the wall must be staggered by no less than 600 mm. All joints to timber framed walls must be made over framing.

Framing Layout (Timber or Steel)

Maximum stud spacing 600 mm.
Maximum nog (dwang) spacing 800 mm.

Fastener Layout

Low, Medium, or High Wind Zone: 300 mm spacing along all studs, nogs, top and bottom plates.
Very High Wind Zone: 300 mm spacing along top and bottom plates, and as per the table below.

Stud spacing	Fixing spacing	
	Studs	Nogs
400	300	200
600	200	200

Always install fixings along centre of boards first, then around the perimeter.

One fixing shall be used near the corner of each sheet.

Fixings shall be at least 10 mm away from the edge of both timber framing and polystyrene boards EXCEPT where boards are being joined over framing - in such cases the fixings shall be placed along the line of the sheet join with half of the washer resting on each sheet.



Fasteners

For timber framing

Flat head, hot dipped galvanised steel nails fitted with PolyClad® washers.

Nail sizes: 40 mm Insulation Boards - 90 x 3.55 mm minimum
60 mm Insulation Boards - 110 x 4.00 mm minimum

Nails must penetrate a minimum of 30mm into timber framing.

PolyClad® washers must be used with all nail sizes.

Sika (NZ) Ltd supplies galvanised flat head nails in 90 and 110 mm lengths already assembled with PolyClad® washers, for use with timber framing.

For steel framing

Self-tapping AS3566 Corrosion Class 3 screws in mild or moderate industrial or marine environments, and Corrosion Class 4 screws in severe marine environments.

Screw size shall be 6 gauge and of sufficient length to permit 10 mm penetration into the framing.

Fit screws with PolyClad® washers

Coastal exposure

Some designers may require stainless steel fixings to be used in coastal or other at risk exposure locations. Although such precautions are not necessarily a Sika (NZ) Ltd requirement for PolyClad® systems, confirm the designer's additional requirements before commencing work.

Control Joints

The designer must provide details of the size and placing of control joints and whether or not they are to be covered.

Where these are not specified, divide into sections no more than 20 m long. Control joints must always be continued through the plaster system. Control joints may be overcoated with a Sika Architectures topcoat. However, bulging or cracking may occur at the joint due to normal building movement.

Mesh and plaster must stop at control joints. Install control joints as shown in Details 59 and 60

Before Plastering

Do not expose insulation boards to sunlight for longer than necessary. Plastering must be carried out within 90 days of installation of the board.

Remove any powdery build-ups on the surfaces of the boards before plastering.

Prepare pieces of mesh ("butterflies") to be fixed diagonally across the corners of all openings. Refer to Figure 1.

Prime timber backing blocks with PolyClad® Plaster and Sika Emulsion 93 slurry. Allow to dry.

Masking

Mask off all doors, windows, ranchsliders, etc on the sides that are to be coated. Use vinyl tape, allowing a 4-6 mm lapping of the aluminium surfaces. All roofs and decks, especially butyl or EPDM rubber covered, should be covered with polythene sheets. (Vinyl tape may be left in place for up to two weeks.)

Sealing

Apply 5 mm bead of Sika Silaflex MS between the window, door, ranchslider etc frame and jamb or head flashing as required. DO NOT seal lower edge of sill flashing under windows.

Preparation

Using a straight edge across the walls, check the flatness of the walls, particularly at the transition across joints. Any irregularities shall be sanded until flush.

All surfaces to be plastered shall be brushed down to provide a clean and dust free substrate before plastering begins.

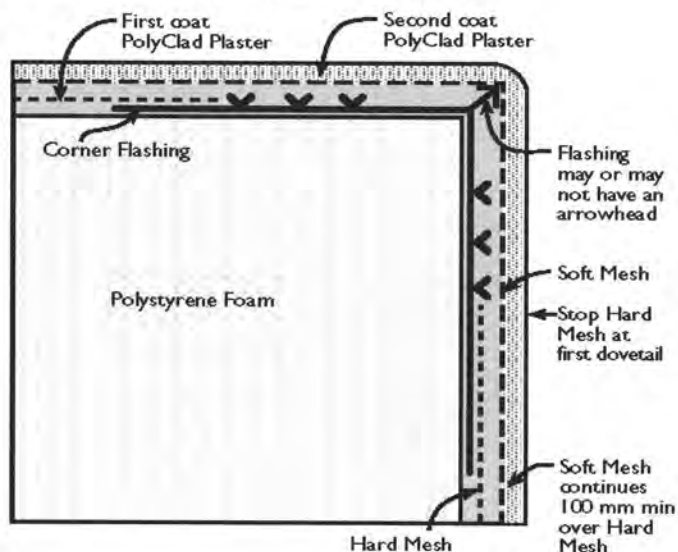
Flushing joints and fastenings

Stop sheet joints and fastenings with the grade of PolyClad® Plaster to be used for the first/mesh coat application.



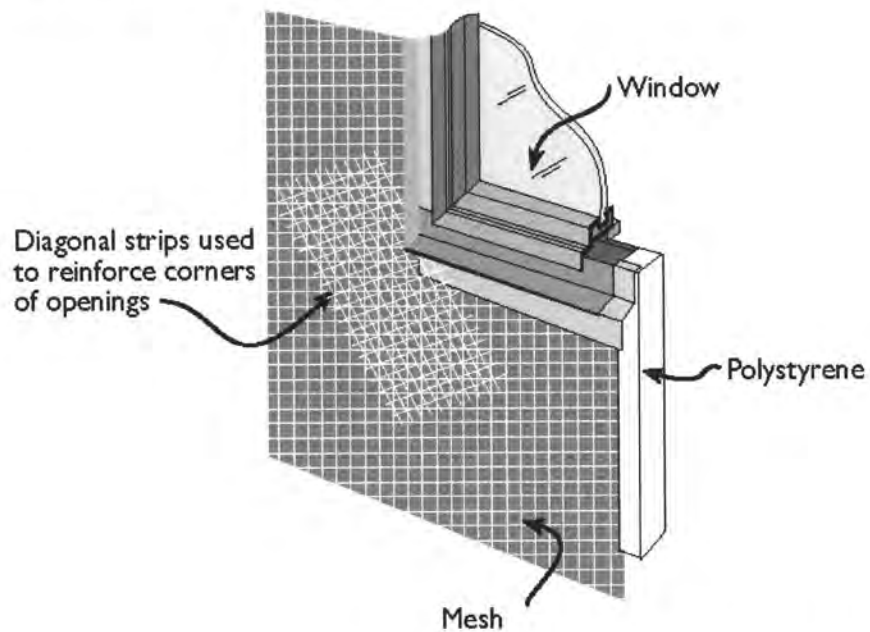
Fixing of Mesh	Measure, prepare, and cut mesh prior to commencing plastering. Where relevant, ensure all boards and trims etc around openings are in place before fixing mesh. Mesh is pressed into the first layer of plaster
Plastering	Additional information is provided in the PolyClad® Plaster Technical Data Sheet – refer to www.architextures.co.nz for a copy.
Mixing	Mix PolyClad® Plaster according to instructions on the Technical Data Sheet. Mix to a completely smooth lump-free consistency. The mix will yield approximately 16-18 litres per 25 kg bag, depending on grade.
First coat	Using a trowel and hawk, or spray pump, apply the first coat of PolyClad® Plaster at a 3 mm even thickness over 2 to 3 square metres depending on temperature/drying, etc. Starting at the top of the wall, press in PolyClad® Hard Mesh by trowelling lightly so it sits just below the surface of the plaster. Additional pieces of mesh (termed "butterflies"), nominally 200 x 100 mm, are embedded diagonally across corners of all openings to restrict cracking at these points, except where control joints are installed in line with the opening. Ensure plaster does not cover control joints. Use Soft Mesh over and around all corner, jamb and sill flashings, lapping over adjacent Hard Mesh by 100 mm minimum each side.
Second coat	Apply second coat when the first coat is firm (minimum 4 hours, depending on drying conditions). Apply at a 2 mm even thickness and trowel to the desired finish using a large sponge, plastic or wooden float and water. Any trowel marks left will show up after final finishing. Remove all excess plaster from masking tape before it dries, otherwise the tape will be difficult to remove. Note: Plastering must not be carried out when the ambient temperature is below 10°C or above 30°C or when the temperature is expected to exceed these limits in the next 4 hours.
Curing	It is important that the plaster is correctly cured. Full details are given in the PolyClad® Plaster Technical Data Sheet.
Finishing	PolyClad® Plaster shall not be used as a final exposed finish and therefore shall be finished with a Sika Architextures® Basecoat and Texture/Finish option – refer to separate Sika Technical Data Sheets.

FIGURE 1 Butterfly Corner Details



Sika®

FIGURE 2 Corner Detail



The application details for these systems are covered on their respective Technical Data Sheets.

Consult Sika (NZ) Ltd Technical Advisory Service for further advice.

Building Regulations

The PolyClad® Barricade system, when installed and maintained in accordance with the instructions of Sika (NZ) Limited, will meet the relevant provisions of the following New Zealand Building Code clauses:

- B1 Structure
- B2 Durability
- C3 Spread of Fire
- E2 External Moisture
- E3 Internal Moisture
- F2 Hazardous Building Materials
- H1 Energy Efficiency

PolyClad® Barricade has been designed to provide increased weatherproofing security for buildings in locations or incorporating design features that are considered to be "risky". Factors which need to be considered in determining the level of weathertightness risk are:

- Site exposure (wind zone)
- Number of storeys
- Roof type (shape complexity)
- Eave width
- Envelope (wall) complexity
- Decks or balconies

Acceptable Solution E2/AS1 (3rd edition, incorporating Amendment 2 – effective 1 July 2005) of the New Zealand Building Code provides a means of calculating a risk score for any particular building and uses that score to define whether or not a cavity cladding system like PolyClad® Barricade is required.

**Fire Safety
Outbreak of Fire**

NZBC Clause C1 requires that fixed fireplaces, cooking appliances and the like, including their flues, are installed in a manner that does not create risk of causing fire in adjoining materials. The onus for satisfying this clause is on the appliance installer, but Designers and PolyClad® Applicators should be aware of the need for separation between PolyClad® system components and hot surfaces such as flues. Part 9 of C/AS1 gives specific requirements and should be referred to for guidance.

Spread of Internal Fire and Smoke

1. Insulation boards used must comply with the flame propagation criteria specified in AS1366.

Sika (NZ) Ltd understands that all EPS manufactured in New Zealand complies with this requirement as of December 2001. Sika (NZ) Ltd holds test certificates verifying compliance with this requirement for some boards. Designers and Applicators should satisfy themselves that their proposed boards do comply.
2. Buildings clad with PolyClad® systems must have internal linings which constitute a flame barrier (fb) complying with Appendix C10.1 of the NZBC fire safety clauses. Standard 10mm Gib® plasterboard meets this requirement providing ALL joints (both vertical and horizontal) are supported by a wall framing element (stud or nog). Standard 12.5 mm Gib® plasterboard and 10 mm Gib® Fyrelite meet this requirement without the need for every joint to be supported. Table 6.3 of Acceptable Solution C/AS1 contains some exceptions to this requirement for commercial buildings.

Spread of External Fire

Buildings of 3 or more floors require horizontal barriers to be installed at intervals not exceeding 2 floors. A typical detached house is exempt from this requirement. Designers should consult paragraphs 7.9.18 and 7.9.19 of C/AS1 for specific detailed requirements.

Sika PolyClad® systems with a Colorkote, Esterno, or Flexiform Architectures coating system will meet the performance requirements of NZBC Clause C3.3.5 for buildings more than 1 metre from the boundary as follows:

- any single storey building
- any building up to 7 m high
- any building up to 10 m high in purpose group SH (SH = single family dwelling)
- any building up to 25 m high other than purpose group SC and SD
- any building at any height other than purpose groups SC, SD, SA and SR.

Design Details

As with all proprietary systems, the design details provided for the PolyClad® Barricade system will provide solutions for the majority of commonly encountered situations. It is the responsibility of the designer for each project to ensure the details provided are suitable and cover all aspects of their project. Additional details will be required from time to time and Sika (NZ) Ltd can provide assistance and advice to the designer to develop such details on request.

Designers are ultimately responsible for specifying weatherproofing, using the typical details shown as a guide

Designers, builders, joinery installers or other contractors are responsible for ensuring weathersealing details around openings are satisfactory before installation of Sika PolyClad® proceeds, unless it is agreed with the Applicator that he carries out weathersealing in accordance with the details and instructions given. PolyClad® Barricade system installation must not proceed until it has been agreed who is responsible for weathersealing and this operation has been completed. This includes not only installation of flashings and other trims, but also correct specification and use of sealant, including sealant type, profile, and application

Insulation

The provision of a ventilated cavity reduces the amount of insulation which is provided by the EPS boards to approximately half of what it would be without a cavity. Accordingly, the Building Code insulation requirements should be achieved by use of Batts® or similar.

When Batts® or similar additional wall insulation is installed, the building wrap must be prevented from bulging into the cavity by installing additional vertical battens or polypropylene straps between the studs. Polypropylene straps can be run horizontally between nogs, but no additional horizontal battens are permissible. This requirement can be waived if studs are spaced at 400 mm centres.



Building Wrap	Building Wrap must be breather type. It is preferable (but not mandatory) that the selected wrap is also absorbent.
Other Materials	Any additional components which are installed in the cavity (eg timber blocks for downpipe fixing) must be made from materials which are suitable for exterior exposure. In the case of timber, this means H3.1 or higher treatment.
Limitations	PolyClad® Barricade must not be used as a roof cladding or in any way that will allow water to pond. All surfaces must be sloped at least 15°. The owner must ensure that landscaping activities do not breach ground clearance requirements of the NZ Building Code.
Maintenance	Maintenance by the owner should follow instructions given in the separate Sika technical information sheet "Maintenance of Coatings".
Note	All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.
Local Restrictions	Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

Health & Safety Instructions

Protective Measures	- To avoid rare allergic reactions, we recommend the use of protective gloves. Change soiled work clothes and wash hands before breaks and after finishing work. - Local regulations as well as health and safety advice on packaging labels must be observed. - For further information refer to the Sika Material Safety Data Sheet which is available on request. - If in doubt always follow the directions given on the pack or label.
Important Notes	- Residues of material must be removed according to local regulations. Fully cured material can be disposed of as household waste under agreement with the responsible local authorities. - Detailed health and safety information as well as detailed precautionary measures e.g. physical, toxicological and ecological data can be obtained from the Safety Data Sheet.

Legal Notes

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



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WARRANTY

Warranty Number:	SW856.
Date Issued:	23rd February 2012.
Issued to:	Construction Systems Ltd.
Project Name:	Roulston House.
Project Address:	125 Nikau Palm Road, Paraparaumu, Kapiti.
Product or System used:	SikaProof SB.
Completion Date:	1st March 2010.
Approved Applicator: (where applicable)	Construction Systems Ltd.
Total Area / Lineal Metres Covered:	100m².

- 1 Sika (NZ) Limited ("Sika") hereby warrants that the Sika Products ("the Product") supplied for use on the above project will conform with the technical data detailed on the attached Sika Product Data Sheets (Data Sheets), and any other written instructions, as referenced in Appendix 1 at the end of this warranty, for a period of twenty (20) year(s) from the date of application.
- 2 This Warranty is provided on the basis that the Product is stored, transported, used, installed, applied and maintained in strict accordance with the instructions contained in the Data sheets, and any other written instructions that may be provided by Sika, and that the Product is used within its stated shelf life. Failure to comply with such instructions will invalidate this Warranty.
- 3 In the event that it is proved to the complete satisfaction of Sika that the Product does not conform with the technical data detailed on the Data Sheets, Sika will, on request made in writing to the Head Office of Sika, at the sole and absolute discretion of Sika either:
 - (a) supply free of charge such quantities of the Product, that is proved not to so conform, to replace that originally supplied; or
 - (b) pay an amount equal to the replacement value of the Product, that is proved not to so conform, multiplied by the unexpired warranty period divided by the warranty period. Such adjustment to be calculated on the date of payment. Any amount calculated by Sika will be deemed correct in the absence of manifest error.
- 4 Sika shall not be liable for any other claims for loss, damage, costs or expenses of any kind arising out of or attributable to any breach by Sika of the Warranty or negligence or otherwise howsoever and whether direct or consequential in connection with the use of the Product.
- 5 Sika shall only be liable under this Warranty if notice has been given in writing within seven (7) days (time being of the essence) of any failure or defect of the Product becoming apparent or known. The Claimant shall ensure that Sika is afforded the opportunity to inspect the area affected as soon as practicable after such notification.

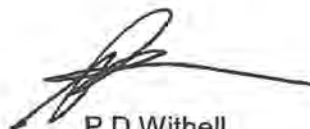


- 6 Save for this Warranty, Sika makes no representation and gives no assurance, condition or warranty of any kind (including any assurance, condition or warranty implied by law to the extent that the assurance, condition or warranty can be lawfully excluded) in relation to the Product and accepts no liability for any assurance, condition, warranty, representation, statement or term not expressly set out in this Warranty. Where the Product is being acquired for business purposes, the provisions of the Consumer Guarantees Act 1993 are specifically excluded.
- 7 This Warranty will apply only once Sika has received payment for the Product in full and on time in accordance with Sika's terms and conditions of sale.
- 8 This Warranty is only applicable to product quality and specifically excludes any defects or failures to the extent that they are attributable to building design or workmanship, including product application, preparation or installation of surfaces or substrates by the Claimant or any other party.
- 9 This Warranty does not cover the effects of movement (opening, closing, or differential) in any horizontal or vertical joint or joints, beyond the capability of the Product, as defined in the Data Sheets, and any other written instructions supplied by Sika, or any visual effects of such movement.
- 10 This Warranty excludes any damage caused by fair wear and tear, including fading.
- 11 This Warranty will be invalidated in the event that any remedial work is undertaken in relation to the Product without the prior written approval of Sika.
- 12 This Warranty shall extend to any replacement quantities of the Product provided but only for the balance of the original Warranty period.
- 13 If any alleged failure or deterioration in the Product is proven to not be the responsibility of Sika, then all costs associated with the investigation of such failure or deterioration shall be borne by the Claimant.

Yours faithfully
Sika (NZ) Limited



M Edwards
Business Unit Manager - Contractors



P D Withell
General Manager

APPENDIX 1.

Product Data Sheets and other written instructions for the products covered by this warranty:

1. SikaProof SB, Dated 08/10 (reprinted 01/12).





BRANZ Appraised

Appraisal No.585 [2007]

BRANZ Appraisals

**Technical Assessments of products
for building and construction**

BRANZ APPRAISAL No. 585 (2007)

SIKAPROOF SB DPM MEMBRANE

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1.1 SikaProof SB is a polymer modified bitumen emulsion damp-proof membrane (DPM) for basement retaining walls and floors. It is applied under floor slabs and foundations and to the exterior face of basement retaining walls to prevent water or water vapour penetrating to the interior face in spaces where moisture may cause damage.

1.2 The product is supplied as a two part, spray applied liquid membrane.



2.1 SikaProof SB has been appraised for use as a damp-proof membrane under basement floors and on basement walls within the following scope:

- within the scope limitations of NZBC Acceptable Solution E2/AS1, Paragraph 10.3 Section 12.

2.2 On buildings subject to specific design; and,
with these buildings requiring specific design, this design will be the responsibility of the building designer; and,

- on buildings with clean, sound continuous substrates of insitu or precast concrete complying with NZS 3101 and 4203 (AS/NZS 1170) or concrete masonry complying with NZS 4210, 4229 and 4230.

2.3 With dry, clean and sound substrates of reinforced concrete or concrete masonry; and,

- where the membranes are adequately protected against damage during backfilling and in service; and,
- where subsoil drainage and free draining granular backfill has been placed behind basement walls.

2.4 The product must be installed by Sika (NZ) Ltd Approved and Trained Applicators.

New Zealand Building Code (NZBC)

3.1 In the opinion of BRANZ, SikaProof SB if designed, used, installed and maintained in accordance with the statements and conditions of this Appraisal, will meet the following provisions of the NZBC:

Clause B2 DURABILITY: Performance B2.3.1 (a) not less than 50 years. SikaProof SB meets this requirement. See Paragraph 11.1.

Clause E2 EXTERNAL MOISTURE: Performance E2.3.3. SikaProof SB meets this requirement. See Paragraphs 13.1 – 13.3.

3090214



2 AUG 2009

TANK SYSTEMS

A division of Wright Tanks Ltd.

Water Tanks • Sewage Systems • Water Pumps • Filtered Septic Tanks • Septic Filters
17th August 2009

Kapiti Coast District Council
Private Bag 601
PARAPARAUMU
Attention: Barry McLennon

Dear Barry

Re: **PRODUCER STATEMENT**
Roulston Property
125 Nikau Palm Road
Nikau Valley
PARAPARAUMU

I write to confirm that a Gould GT10,000 Series Wastewater Treatment Plant was installed at the above property, by Gould Tank Systems, on the 15th of May 2009.

As suitably qualified professionals to complete this work (and covered by a current policy of professional indemnity insurance to a minimum value of \$250,000) I hereby declare that all of the work for the above sewage system has been completed to Gould Tank Systems specifications.

An 'as-built' site plan, prepared by Gould Tank Systems, is enclosed and outlines the installation. This plan slightly differs from the original submitted to Council as there was an extra line laid and each of the lines are now at 1.5 metre spacings. However, this lowers the loading rate from 4 litres to 2.5 litres per square metre per day.

Gould sewage systems are a member of the New Zealand Concrete Tank Manufacturers Association and comply with AS/NZS 1546.1 and AS/ NZS 1547.2000 standards and a three-year service contract is effective from the commission date and a copy of the signed contract is also enclosed.

If you require any further information please do not hesitate to contact me.

Regards,

A handwritten signature in black ink, appearing to read "Andrew Wright".

Andrew Wright
Director

Registration Number: 23958

FREEPHONE 0800 253 273

TEL 06 353 6157 • FAX 06 353 3020 • MOBILE 021 505 198

email: gouldtanks@xtra.co.nz • website: gouldtanks.com

PO BOX 4777 • PALMERSTON NORTH 4442

Clause F2 HAZARDOUS BUILDING MATERIALS: Performance F2.3.1: SikaProof SB meets this requirement and will not present a health hazard to people.

This Certificate Appraises SikaProof SB as an **Acceptable Solution** in terms of New Zealand Building Code compliance. The membrane complies with NZBC Acceptable Solution E2/AS1, Paragraph 10.3.3, 10.3.4, 12.2.1 (a), (b) and (c), and Paragraph 12.2.2 (e). This product is also Appraised as an **Alternative Solution** as outlined in Paragraph 2.2.

4.1 Materials supplied by Sika (NZ) Ltd are as follows:

SikaProof SB Part A

- Is a polymer modified bitumen emulsion specifically formulated as a spray applied damp proof membrane for use as a below ground DPM. It is supplied in 200 litre drums.

SikaProof SB Part B

- Is a catalyst for mixing with Part A. It is supplied in 20 litre pails.

Deckweb Mesh

- Is used for reinforcing internal and external corners. It is supplied in rolls 200 mm wide.

Sika Plastijoint

- Is a hand applied bitumen putty sealant used for all angle fillets. It is supplied in 20 mm diameter, 30.48 m length coils.

SikaProof SB Protection Fabric

- Is a non-woven, needle punched, continuous filament, polyester geotextile fabric used to overlay the SikaProof SB for reinforcing and protection. It is supplied in rolls of various widths and lengths.

SikaSwell-P Profiles

- Are sealing profiles which swell in contact with water and are used for sealing around pipe penetrations. They are supplied in various profiles.

Sika® Grout 212

- Is a high strength, shrinkage compensated, cementitious grout for filling holes and hollows prior to the application of SikaProof SB. It is supplied in 25 kg multiwall bags.

Sika® BlackSeal®-1

- Is a bitumen based joint sealant used for fixing the protection sheet in place. It is supplied in 300 ml cartridges.

Handling and Storage

5.1 Handling and storage of all materials whether on or off site is under the control of the installer. Dry storage must be provided for all products and kept from freezing.

6.1 Refer to the Appraisals listing on the BRANZ website for details of the current Technical Literature for the SikaProof SB. The Technical Literature must be read in conjunction with this Appraisal. All aspects of design, use, installation and maintenance contained in the Technical Literature and within the scope of this Appraisal must be followed.

Substrate Design

7.1 Substrate design must be in accordance with the NZBC to a relevant standard, such as NZS 3101 for concrete and NZS 4230 or NZS 4229 for concrete masonry.

7.2 The substrate must have a surface finish that is smooth, clean and free from defects or irregularities which may damage the membrane.

Control Joints

8.1 Where control or construction joints are formed in the substrate, Sika (NZ) Ltd must be consulted for use of the membranes over these joints.

Concrete Slab-on-ground

9.1 Membrane must be laid on a minimum of 75 mm of site concrete. The structural concrete slab placed over the membrane must be a minimum of 100 mm.

Backfilling and Drainage

10.1 The membrane must be protected against damage by the placement of a protection material between the membrane and the granular fill.

10.2 Backfilling, drainage and the backfill capping must be in accordance with NZBC Acceptable Solution E2/AS1, Section 12 when used within the scope of E2/AS1. For specific design the minimum requirement for backfilling is that a granular, free-draining material is used with the top of the backfill capped with an impervious clay fill that may be covered with topsoil if required. The impervious capping and topsoil must slope at a minimum of 1:30 fall away from the wall.

10.3 A minimum 100 mm diameter subsoil perforated drainage pipe must be installed at the bottom of the wall. The pipe must be covered with a geotextile filter fabric, be laid at a minimum 1:200 fall and discharge to a drainage outlet. Provision for cleaning the pipe must also be provided.

Durability

Serviceable Life

11.1 SikaProof SB is a suitable DPM material (polymer modified bitumen emulsion) as set out in NZBC Acceptable Solution E2/AS1, Paragraph 12.2.2 (e), therefore it is expected to have a serviceable life of at least 50 years provided it is installed and maintained in accordance with this Appraisal and is continually protected from sunlight and UV radiation.

Maintenance

12.1 Annual inspections must be made of the membrane top edge seal and protection, the backfill capping, and the drainage pipe to ensure all are functioning as originally designed.

12.2 If required, the drainage pipe must be cleared to remove any sediment or silt build-up. The slope of the backfill capping must be maintained at all times.

External Moisture

13.1 SikaProof SB, when installed in accordance with this Appraisal and the Technical Literature, will prevent water vapour from penetrating to the interior face of basement retaining walls in spaces where moisture may cause damage. The membrane has a vapour flow resistance of not less than 90 MN s/g as

required by NZBC Acceptable Solution E2/AS1, Paragraph 12.2.1 (a).

13.2 All penetrations and construction joints should be made waterproof following the instructions in the Technical Literature before the application of the membrane as required by NZBC Acceptable Solution E2/AS1, Paragraph 12.2.1 (b). The membrane must be terminated at ground level as set out in the Technical Literature, and protected.

13.3 Building designers must ensure junctions with other membranes, such as at the floor/wall junction, form a waterproof joint. Junctions have not been assessed and are outside the scope of this Appraisal.

Installation Skill Level Requirement

14.1 Installation of the membranes must be completed by Sika (NZ) Ltd Trained and Approved Applicators.

System Installation

Substrate Preparation

15.1 Prior to application of the membrane all prepared surfaces must be clean and free from any loose material. Contaminants such as dust, dirt, oil, grease, mould release agents and curing compounds must be removed before application. On very porous substrates a very thin coat of uncatalysed SikaProof SB (Part A) can be applied immediately prior to the system application.

Membrane Installation

15.2 SikaProof SB must be applied using specialist spray equipment and applied as wet on wet coats to a minimum wet film build of 3.5 mm which will give the required dry film thickness of 2.0 mm. Immediately after application of the SikaProof SB a layer of SikaProof Protection Fabric must be applied directly onto the membrane. Ensure that there are no gaps in the SikaProof Protection Fabric. The fabric will adhere to the membrane without mechanical fixing. Backfilling must commence within 48 hours of application of the membrane and fabric being installed to ensure the system is not left exposed to sunlight or UV radiation.

Health and Safety

16.1 Safe use and handling procedures for the membrane system are provided in the Technical Literature.

The following is a summary of the technical investigations carried out:

Tests

17.1 The testing of SikaProof SB has been undertaken by BRANZ for strength, elongation, adhesion to concrete, puncture resistance, low temperature flexibility and elongation retention after heat aging.

17.2 Test reports from various other testing organisations have been reviewed by BRANZ and found to be satisfactory.

Other Investigations

18.1 A durability opinion has been given by BRANZ technical experts.

18.2 Practicability of installation has been assessed by BRANZ and found to be satisfactory.

18.3 The Technical Literature has been examined by BRANZ and found to be satisfactory.

Quality

19.1 The manufacture of the membrane has been examined by BRANZ and details regarding the quality and composition of the materials obtained by BRANZ show the processes to be satisfactory.

19.2 The quality management system of the membrane manufacturer, Fulton Hogan has been assessed by Telarc Limited to AS/NZS ISO 9001: 2000 Registration Number 451.

19.3 The quality of materials supplied to the market is the responsibility of Sika (NZ) Ltd.

19.4 Quality of installation on site is the responsibility of the applicator.

19.5 Designers are responsible for the building design, and building contractors are responsible for the quality of construction of substrate systems in accordance with the instructions of Sika (NZ) Ltd.

19.6 Building owners are responsible for the maintenance of the membrane systems in accordance with the instructions of Sika (NZ) Ltd.

Sources of Information

- AS/NZS 1170: 2002 Structural and design actions - General principles.
- NZS 3101: 1995 The design of concrete structures.
- NZS 4203: 1992 General structural design and design loadings for buildings.
- NZS 4210: 1989 Masonry construction: Materials and Workmanship.
- NZS 4229: 1999 Concrete masonry buildings not requiring specific engineering design.
- NZS 4230: 2004 Design of reinforced concrete masonry structures.
- Compliance Document for New Zealand Building Code External Moisture Clause E2, Department of Building and Housing, Third Edition July 2005.
- New Zealand Building Code Handbook Department of Building and Housing, Third Edition May 2007.
- The Building Regulations 1992, up to, and including June 2007 Amendment.



BRANZ

In the opinion of BRANZ, SikaProof SB DPM Membrane is fit for purpose and will comply with the Building Code to the extent specified in this Appraisal provided it is used, designed, installed and maintained as set out in this Appraisal.

The Appraisal is issued only to Sika (NZ) Ltd, and is valid until further notice, subject to the Conditions of Appraisal.

Conditions of Appraisal

1. This Appraisal:
 - a) relates only to the product as described herein;
 - b) must be read, considered and used in full together with the technical literature;
 - c) does not address any Legislation, Regulations, Codes or Standards, not specifically named herein;
 - d) is copyright of BRANZ.
2. Sika (NZ) Ltd:
 - a) continues to have the product reviewed by BRANZ;
 - b) shall notify BRANZ of any changes in product specification or quality assurance measures prior to the product being marketed;
 - c) abides by the BRANZ Appraisals Services Terms and Conditions.
3. Warrants that the product and the manufacturing process for the product are maintained at or above the standards, levels and quality assessed and found satisfactory by BRANZ pursuant to BRANZ's Appraisal of the product.
4. BRANZ makes no representation or warranty as to:
 - a) the nature of individual examples of, batches of, or individual installations of the product, including methods and workmanship;
 - b) the presence or absence of any patent or similar rights subsisting in the product or any other product;
 - c) any guarantee or warranty offered by Sika (NZ) Ltd.
5. Any reference in this Appraisal to any other publication shall be read as a reference to the version of the publication specified in this Appraisal.
6. BRANZ provides no certification, guarantee, indemnity or warranty, to Sika (NZ) Ltd or any third party.

For BRANZ

C Preston
Chief Executive

Date of issue: 20 December 2007



APPROVED
FOR USE WITH POTABLE
WATER PER AS/NZS 4020

SikaProof SB

Spray applied polymer modified
waterproofing membrane



BRANZ Appraised
Appraisal No.585 [2007]

Description

SikaProof SB is a two-component, bitumen-based, spray applied, waterproofing membrane overlain with SikaProof SB Protection Fabric.

The SikaProof SB system provides totally seamless waterproofing.

The two components are:

- The base material - a polymer-modified bitumen-based emulsion.
- A catalyst - that reacts with the base material, causing the emulsion to break and the SikaProof SB membrane to cure instantly.

The two components are pumped separately and mix in mid-air after leaving the spray nozzles, then overlain with SikaProof SB Protection Fabric.

SikaProof SB is applied by Sika Approved Applicators using special pump equipment to achieve a minimum dry film thickness of 2.0mm.

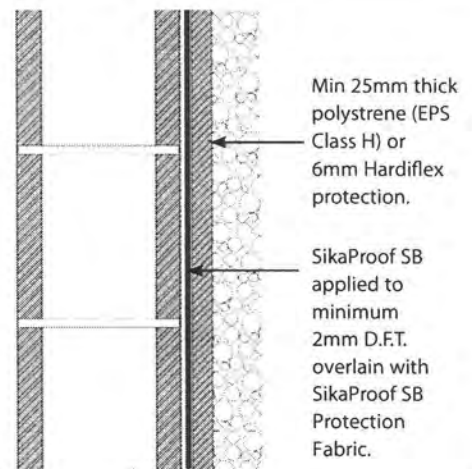
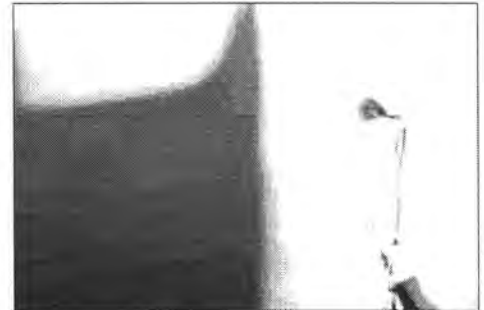
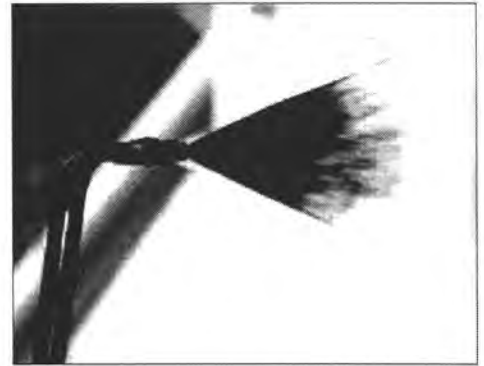
Uses

SikaProof SB is a high performance waterproofing membrane designed to be applied to a wide range of concrete and masonry structures:

- Basements
- Retaining walls
- Roofs
- Balconies
- Foundations
- Tunnels
- Water retaining structures
- Treatment plants

Advantages

- Totally seamless waterproofing
- Fast application rate
- Easily applied to intricate details
- Instantly waterproof
- High bond strength and flexibility
- Approved for use with potable water
- Non toxic and odourless
- Applied by Approved Applicators
- BRANZ appraised. Appraisal No. 585 [2007]



Application is fast, with minimum surface preparation.

The Sika logo, featuring the word "Sika" in a stylized, bold font with a registered trademark symbol (®) to its upper right.

Specification of SikaProof SB

Waterproofing is an essential, critical component of every construction project. It has to be done right - first time.

SikaProof SB is a tried and tested, BRANZ appraised product which is only applied by Sika Approved Applicators. It can be specified with confidence.

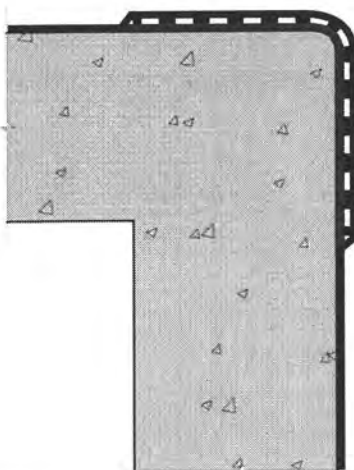
Details

An extensive range of engineering drawings covering all critical details are available in four different drawing formats.

To download a range of specialised SikaProof SB specifications, engineering details and other information, visit the Sika website www.sika.co.nz.

Specialised specifications are available for the application of SikaProof SB onto a wide range of structures and substrates:

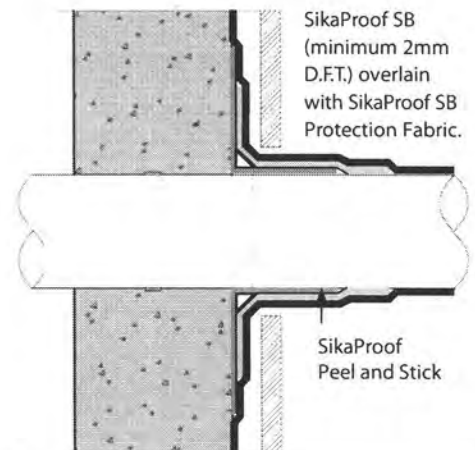
- Poured in situ concrete walls
- Masonry walls
- Precast concrete walls
- Water retaining concrete structures
- Podium decks



SikaProof SB allows totally seamless waterproofing.



Internal corners and other critical details are reinforced for added security.



Pipe penetrations are easily sealed.

SikaProof SB comparison with other waterproofing systems

	Seamless	Flexible	Application to intricate profiles	Cold applied	Instantly waterproof	Does not require confining pressure	One grade used for all applications
SikaProof SB	✓	✓	Easy	✓	✓	✓	✓
Peel & Stick	✗	✗	Difficult	✓	✓	✓	✗
Torch On	✗	✗	Difficult	✗	✓	✓	✗
Bentonite	✗	✗	Difficult	✓	✗	✗	✗

Facts at a glance

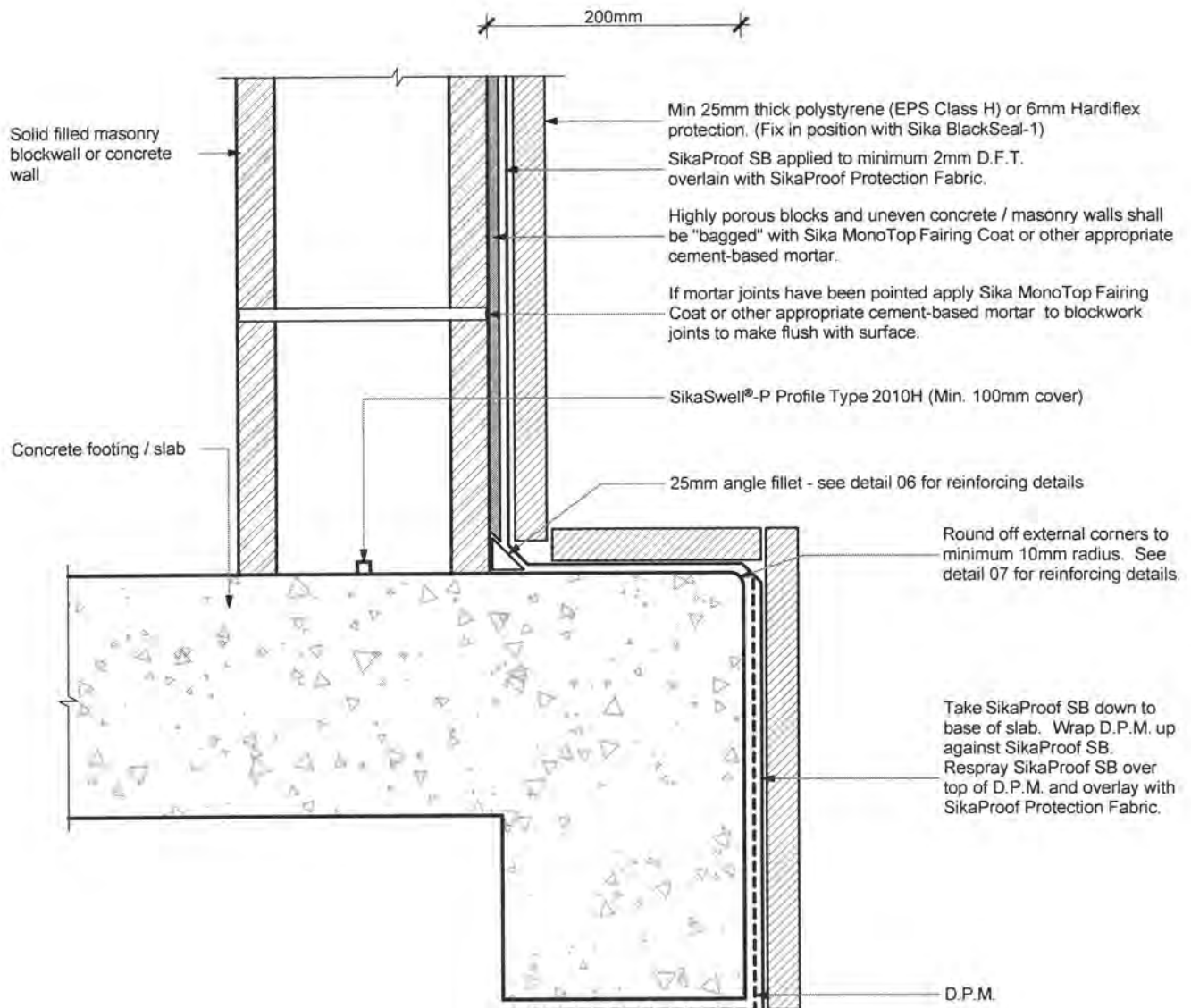
Moisture vapour permeability resistance	140 MNs/g (Measured to ASTM E 96-92)
Specific Gravity	1.02 kg/litre
Solids Content	Approximately 60%
Freezing point	0°C
Application temperature range	5°C to 50°C (ambient and substrate)
Coverage Rate	Minimum dry film thickness of 2.0mm in a single coat application
Setting Time	SikaProof SB sets instantly
Hydrostatic Pressure	Tested to 50m (ASTM D5385-93)



SIKA NEW ZEALAND
85-91 Patiki Rd, Avondale, Auckland
0800 SIKA NZ (0800 745 269)
www.sika.co.nz

05 Wall to footing detail

Scale 1:5



Note:
Refer to Detail 04 for backfilling and drainage pipe requirements.

Sika (NZ) Ltd
0800 Sika NZ (0800 745 269)
info@sika.co.nz
www.sika.co.nz

Issued: August 2011
SikaProof SB CAD details
copyright Sika 2011

3C090214

Gould

2 - AUG 2009

TANK SYSTEMS

A division of Wright Tanks Ltd.

Water Tanks • Sewage Systems • Water Pumps • Filtered Septic Tanks • Septic Filters

17th August 2009

Kapiti Coast District Council
Private Bag 601
PARAPARAUMU
Attention: Barry McLennon

Dear Barry

Re: **PRODUCER STATEMENT**
Roulston Property
125 Nikau Palm Road
Nikau Valley
PARAPARAUMU

I write to confirm that a Gould GT10,000 Series Wastewater Treatment Plant was installed at the above property, by Gould Tank Systems, on the 15th of May 2009.

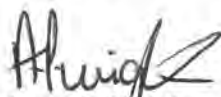
As suitably qualified professionals to complete this work (and covered by a current policy of professional indemnity insurance to a minimum value of \$250,000) I hereby declare that all of the work for the above sewage system has been completed to Gould Tank Systems specifications.

An 'as-built' site plan, prepared by Gould Tank Systems, is enclosed and outlines the installation. This plan slightly differs from the original submitted to Council as there was an extra line laid and each of the lines are now at 1.5 metre spacings. However, this lowers the loading rate from 4 litres to 2.5 litres per square metre per day.

Gould sewage systems are a member of the New Zealand Concrete Tank Manufacturers Association and comply with AS/NZS 1546.1 and AS/ NZS 1547.2000 standards and a three-year service contract is effective from the commission date and a copy of the signed contract is also enclosed.

If you require any further information please do not hesitate to contact me.

Regards,



Andrew Wright
Director

Registration Number: 23958

FREEPHONE 0800 253 273

TEL 06 353 6157 • FAX 06 353 3020 • MOBILE 021 505 198

email: gouldtanks@xtra.co.nz • website: gouldtanks.com

PO BOX 4777 • PALMERSTON NORTH 4442

Gould

TANK SYSTEMS

A Division of Wright Tanks Ltd

WASTEWATER TECHNOLOGY

FREEPHONE: 0800 253 273

This Gould Sewage Treatment Plant carries a three-year service contract.

Contract: Roulston Property
Location: 125 Nikau Palm Road
Nikau Valley
PARAPARAUMU

Date Drawn: 8th September 2008

The 3 bedroom dwelling will support 6 people producing 180 litres of wastewater per person per day = 1080 litres of wastewater per day disposed over 360 square metres = 3 litres per square metre per day

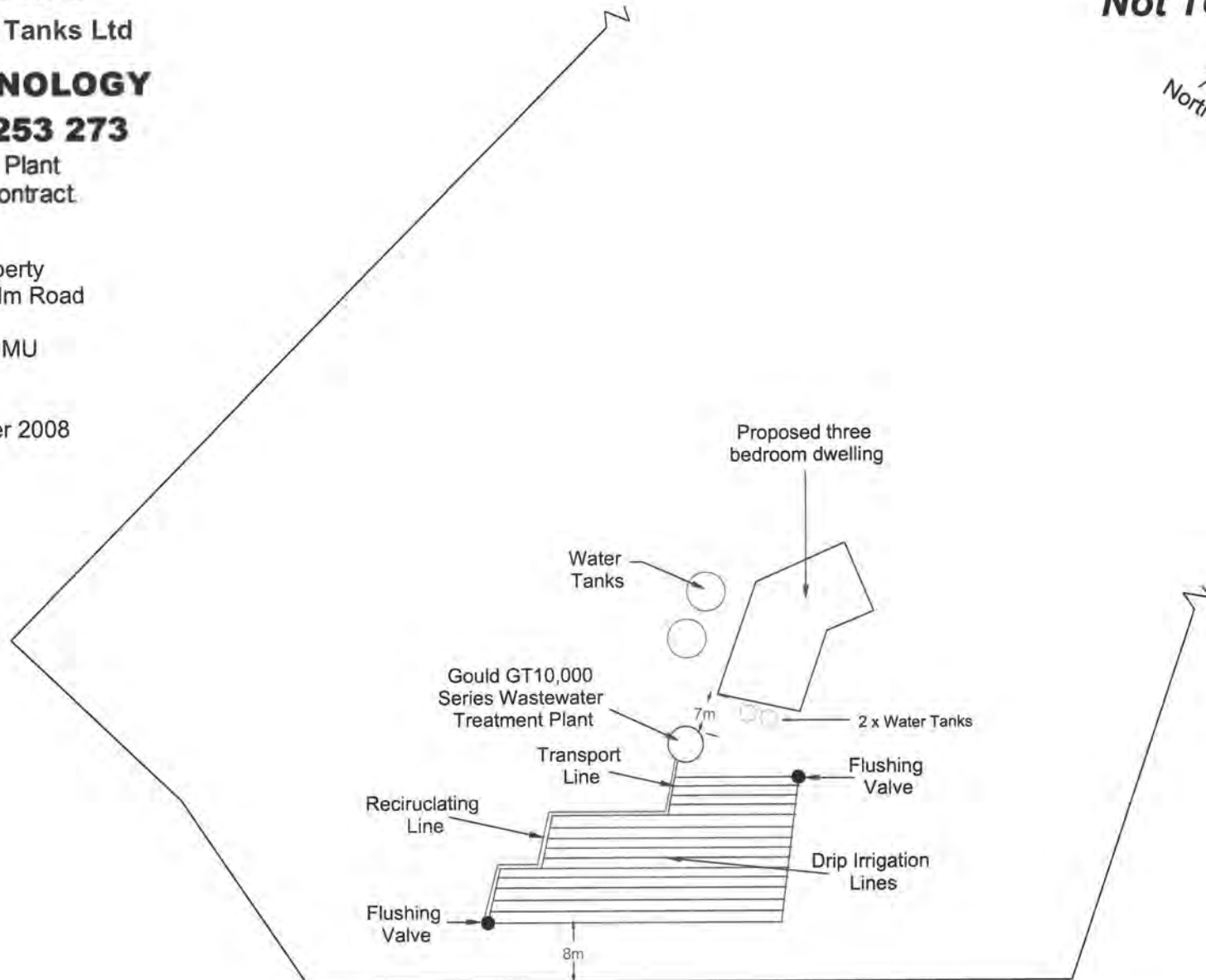
15 rows of drip irrigation lines, ranging in length from 10-30m buried to a depth of 200mm in a specially designed raised bed and planted up as a feature.

The drip irrigation lines will have emitters at 600mm centres and will release effluent at 2.2 litres per hour.

Effluent land application area will be located more than 20 metres from any open waterway or open water drain.

Site plan to be read in conjunction with enclosed site inspection report

Not To Scale



This design remains the property of Gould Tank Systems and may not be altered, reproduced or installed (wholly or in part) by any person not accredited as a Gould Tank Systems Approved Installer.

PRODUCER STATEMENT – PS4 – CONSTRUCTION REVIEW

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

ISSUED BY: ISP Consulting Engineers Ltd
TO: **Tom Roulston**
(Owner/Developer)
TO BE SUPPLIED TO: **Kapiti Coast District Council**
(Building Consent Authority)
IN RESPECT OF: **New Residence**
(Description of Building Work)
AT: **125 Nikau Palm Road, Nikau Valley- Paraparaumu**
(Address)

Validity authenticated

24 FEB 2016

Signature

[Signature]

ISP Consulting Engineers Ltd has been engaged by Tom Roulston

to provide ☐ CM1 ☒ CM2 ☐ CM3 ☐ CM4 ☐ CM5 observation services
(Engineering Categories)

in respect of clause(s) B1, VM1 of the Building Code for the building work described in documents relating to Building Consent No # **090214**. We have sighted these Building Consents and the conditions of attached to them.

Authorised instructions / Site Inspection Reports No 1-4 (copies attached) have been issued during the course of the works.

On the basis of ☒ this ☐ these review(s) and information supplied by the contractor during the course of the works,

I believe on reasonable grounds that ☐ All ☒ **Part only as specified of building work outside the scope of NZS3604:1999-**

- Foundations
- Masonry Blockwalls
- Structural Steel Beams & Connections

Of the building works have been completed in accordance with the relevant requirements of the Building Consents and Building Consent Amendments identified above, with respect to Clause(s) B1, VM1 of the Building Regulations.

I, John O'Hagan am CPEng Registered No. 179947

I am a Member of IPENZ and hold the following qualifications: NZCE(Civil), BE (Hons), MIPENZ, CPEng

The Construction Review Firm issuing this statement holds a current policy of Professional Indemnity Insurance no less than \$200,000*.

The Construction Review Firm is a member of ACENZ

SIGNED BY John O'Hagan **ON BEHALF OF** ISP Consulting Engineers Ltd.

Date: 26th April 2010

Signature :

[Signature]

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

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

GUIDANCE ON USE OF PRODUCER STATEMENTS

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

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

PS1 Design

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

PS2 Design Review

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

PS3 Construction

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

PS 4 Construction Review

Intended for use by a suitably qualified independent design professional who undertakes construction monitoring of the building works where the BCA requests a producer statement prior to issuing a Code Compliance Certificate.
This must be accompanied by a statement of completion of building work (Schedule 6).

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

Competence of Design Professional

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

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

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

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

Professional Indemnity Insurance

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

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

Professional Services during Construction Phase

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

Requirement to provide Producer Statement PS4

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

Attached Particulars

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

Refer Also:

1 Conditions of Contract for Building & Civil Engineering Construction NZS 3910: 2003

2 NZIA Standard Conditions of Contract SCC 2007 (1st edition)

3 Guideline on the Briefing & Engagement for Consulting Engineering Services (ACENZ/IPENZ 2004)

www.acenz.org.nz

www.ipenz.org.nz

www.nzia.co.nz

SITE INSPECTION REPORT



**ISP CONSULTING
ENGINEERS LTD**

Civil & Structural
Seismic Risk Analysis
Building Compliance

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

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

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

Date: 14 July 2009	Report No: 1	Job No: 23040
Inspected By: John O'Hagan		
Contractors Representative: Jamie – For Tom Roulston 28 Stellin Street Avalon Lower Hutt 5011 Via e-mail tom@dvcs.co.nz		
Project: 125 Nikau Palm Road Paraparaumu	Area Inspected: Foundation Steel	
Weather: Rain Time: 7:45am		

We have inspected the reinforcing steel in the foundations and comment:

- Driven piles have been driven to the required sets to achieve the design loads
- Currently the driven piles have been cut 75mm from the top of the slab, this is not acceptable. We require the piles to be cut 75mm from the bottom of the slab as per the details on drawing S1. This has been instructed on site. Post ISP inspection KCDC called to discuss the same issue.
- The builder has drilled holes in the piles for the bottom longitudinal steel to pass through. We suggest that these bars be cut either side of the pile and new HD12 bars -1400mm long, are lapped minimum 600mm with existing bottom bars. This was discussed on site and agreed.
- The builder has placed full height HD16 bars at 200mm centres for the block wall. It is acceptable to cut every second vertical bar – 1.5m from the top of the slab level, and drop new full height HD16 bars when the wall is being constructed.
- We confirm at the time of our inspection the distance from the back of the wall to the steel is 70mm. We also draw your attention that the wall is to be constructed using 25 Series blocks.
- The starters for the internal block wall are still to be placed.
- Reinforcing chairs are still to be placed under the mesh.

KCDC are to carry out their inspection and approve prior to pouring the concrete.

When the above remedial work has been done please forward digital photos to john@isp.co.nz showing the work. This must be done prior to pouring the concrete.

Regards

John O'Hagan
DIRECTOR



ISO 9001

SITE INSPECTION REPORT



**ISP CONSULTING
ENGINEERS LTD**

Civil & Structural
Seismic Risk Analysis
Building Compliance

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

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

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

Date:	10 September 2009	Report No:	2	Job No:	23040
Inspected By:	John O'Hagan				
Contractors Representative:	Jamie – For Tom Roulston 28 Stellin Street Avalon Lower Hutt 5011 Via e-mail tom@dvcs.co.nz				
Project:	125 Nikau Palm Road Paraparaumu	Area Inspected:	Foundation Steel		
Weather:	Rain				
Time:	7:45am				

The retaining wall is to be poured in 2 lifts, this is structurally acceptable.

We have inspected the reinforcing steel in the blockwalls and confirm the steel is in place as per the structural details. It is structurally acceptable to pour the first lift.

The cover to steel is not as specified (as-built 90mm) steel offset. Instruction from the design engineer is that the retaining height is to be limited to 2.9m. This has previously been instructed.

KCDC are to carry out their inspection and approve prior to pouring the concrete.

Regards

John O'Hagan
DIRECTOR



ISO 9001

SITE INSPECTION REPORT



**ISP CONSULTING
ENGINEERS LTD**

Civil & Structural
Seismic Risk Analysis
Building Compliance

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

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

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

Date:	11 September 2009	Report No:	3	Job No:	23040
Inspected By:	John O'Hagan				
Contractors Representative:	Jamie – For Tom Roulston 28 Stellin Street Avalon Lower Hutt 5011 Via e-mail tom@dvcs.co.nz				
Project:	125 Nikau Palm Road Paraparaumu	Area Inspected:	Block Wall 2nd lift		
Weather:	Fine				
Time:	8:30am				

We have inspected the reinforcing steel in the blockwalls for the second lift and confirm the steel is in place as per the structural details. It is structurally acceptable to pour the concrete.

KCDC are to carry out their inspection and approve prior to pouring the concrete.

Regards

John O'Hagan
DIRECTOR



ISO 9001

SITE INSPECTION REPORT



**ISP CONSULTING
ENGINEERS LTD**

Civil & Structural
Seismic Risk Analysis
Building Compliance

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

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

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

Date:	26 April 2010	Report No:	4	Job No:	23040
Inspected By:	John O'Hagan				
Contractors Representative:	Jamie – For Tom Roulston 28 Stellin Street Avalon Lower Hutt 5011 Via e-mail tom@dvcs.co.nz				
Project:	125 Nikau Palm Road Paraparaumu	Area Inspected:	Steel Beams		
Weather:	Fine				
Time:	8:30am				

We have inspected the structural steel beams in place prior to lining. We confirm the steel beams are in place and generally connected as per the design and details. The additional beams and change of floor joists direction has been done as per the revised ISP design.

We have reviewed the top connection of the SHS wind posts either side of the lounge window and required additional fixings as per the attached detail. Could you please advise when these additional fixings have been done.

Our inspection is not a pre line inspection for bracing; this is to be done by KCDC.

Regards

John O'Hagan
DIRECTOR



ISO 9001

30th June 2011

~~Tom Rolston~~
Roulston
125 Nikau Palm Road
PARAPARAUMU

WORKMANSHIP WARRANTY – SIKAPROOF SB

Construction Systems Limited (Contractor) hereby warrants the workmanship for the application of Sikaproof SB to the tank @ 125 Nikau Palm Road, effective from March 2010 (completion date) for a period of 10 years, subject to the following:

- a) Any failures or defects are to be reported immediately in writing to Construction Systems Ltd.
- b) Warranty specifically excludes:
 - Fair wear and tear
 - Deliberate vandalism
 - Excessive structural movement
 - Mechanical damage
 - Damage due to reverse water pressure

PETER HOUSIAUX



COMPANY DIRECTOR



Craftstone 25 Year Manufacturers Warranty

Date: 18/03/2010
Customer Name: Tom and Olga Roulston
Site Address: 125 Nikau Palm Road, Kapiti
Applicator: Rock On
Local Authority: Kapiti
Warranty Number: 391112

Signed Craftstone:

Hamish Munro, General Manager, Craftstone NZ

Craftstone products carry a 25 year limited warranty from date of purchase when used on structures that conform to local building codes and installed according to the manufacturer's instructions.

Warranty is limited to replacement of defective materials only.

This warranty does not cover damages resulting from:

- Building settlement, wall movement force contract
- Contact with chemicals or paint.
- Discolouration due to airborne contamination and staining or oxidation.

This warranty only covers manufacturing defects in Craftstone manufactured stone products. Craftstone will not be responsible for any labour costs incurred in the removal and replacement of defective stone.

CRAFTSTONE NEW ZEALAND

[phone] 09 447-3918 [fax] 09 447-3919 [email] sales@craftstone.co.nz web] www.craftstone.co.nz
6C Piermark Drive. Albany. Auckland - PO Box 302-613. North Harbour. 0751. Auckland. New Zealand

ELECTRICAL WORKERS
REGISTRATION BOARD

Safety • Competency

Electrical Certificate of Compliance

for prescribed electrical work that is carried out on electrical installations and involves the placing or positioning or the replacing or repositioning of conductors (including fittings attached to those conductors).
To be completed whether or not an inspection is required.

No. 3149369

No. of attachments

CUSTOMER INFORMATION - PLEASE PRINT CLEARLY

Name of customer

MR Tom Rousson

Phone: 021-2441643

Address of installation

125 N. Kae Palm Road, Pongorua

Postal address of customer (if not as above)

WORK DETAILS☐ No. of lighting outlets☐ No. of ranges☐ No. of socket outlets☐ No. of water heaters

Was any installation work carried out by the homeowner?

☐ Yes ☒ No

Please tick (✓) as appropriate where work includes:

☒ Mains☒ Main earthing system☐ Switchboard☐ Electric lines

Description

The removal of 15amps
meter installation - to bonding - m/box
install both shells, com? C/L plate
m/switch and conductors
Validity authenticated

24 FEB 2016

Signature:

CW

It is recommended that test results be recorded here:

Visual Examination ☒Earth Continuity ☒Bonding ☒Polarity ☒

Insulation Resistance 7100mΩ Mohm

Other

Y > 100mΩ
D: > 100mΩ

If necessary attach any pages with sketches of work done

CERTIFICATION OF WORK

I certify that the above electrical work has been carried out in accordance with the requirements of the Electricity Act 1992 and Electricity Regulations 1997.

ELECTRICAL WORKER DETAILS

Name

Ken McDonald

Registration no.

EJ086

Company

Signature

[Signature]

Date

01/07/2010

Contact Ph No.

04-9050222

CERTIFICATION OF ELECTRIC LINES

(to be completed where a separate electrical worker has installed the electric line portion of the mains)

Name

Registration no.

Company

Signature

Date

Contact Ph No.

INSPECTION DETAILS

Electrical work requiring inspection by a registered electrical inspector

☒ New mains☒ Switchboard☒ Earthing system☒ Installation work in hazardous areas

I certify that the inspection has been carried out in accordance with the requirements of regulation 41 of the Electricity Regulations 1997.

Name

A.J. STEUNGHERF

Registration no.

I 2866

Signature

[Signature]

Date

2/7/10

Daytime Contact Ph No.

CUSTOMER COPY - THIS IS AN IMPORTANT DOCUMENT AND SHOULD BE RETAINED

Electrical Certificate of Compliance

No. 2830072

No. of attachments

for prescribed electrical work that is carried out on electrical installations and involves the placing or positioning or the replacing or repositioning of conductors (including fittings attached to those conductors).
To be completed whether or not an inspection is required.

CUSTOMER INFORMATION - PLEASE PRINT CLEARLY

Name of customer Tom Raulston Phone: 049380066

Address of installation 125 Nikan Palm Road Paraparaumu

Postal address of customer (if not as above) 28 Stellin street, Avalon, Lower Hutt

WORK DETAILS

☐ No. of lighting outlets☐ No. of ranges☐ No. of socket outlets☐ No. of water heaters

Was any installation work carried out by the homeowner?

☐ Yes ☒ No

Please tick (✓) as appropriate where work includes:

☒ Mains☒ Main earthing system☒ Switchboard☐ Electric lines

Description Installation of Meter Base.

ix 20amp mcb, 100A Main fuse
Installed as a Builders Temp.
Main Earth Stake driven and
connected Validity authenticated

24 FEB 2016

Signature: CW

If necessary attach any pages with sketches of work done

It is recommended that test results be recorded here:

Visual Examination ☒Earth Continuity ☒Bonding ☒Polarity ☒

Insulation Resistance 0.5 x 100 = 50 Mohm

Other

CERTIFICATION OF WORK

I certify that the above electrical work has been carried out in accordance with the requirements of the Electricity Act 1992 and Electricity Regulations 1997.

ELECTRICAL WORKER DETAILS

Name

Registration no.

Company

Signature

Date

Contact Ph No.

CERTIFICATION OF ELECTRIC LINES

(to be completed where a separate electrical worker has installed the electric line portion of the mains)

Name

Registration no.

Company

Signature

Date

Contact Ph No.

INSPECTION DETAILS

Electrical work requiring inspection by a registered electrical inspector

☒ New mains☒ Switchboard☒ Earthing system☒ Installation work in hazardous areas

I certify that the inspection has been carried out in accordance with the requirements of regulation 41 of the Electricity Regulations 1997.

Name

Signature

Registration no.

Date

Daytime Contact Ph No.

GAS SAFETY & COMPLIANCE CERTIFICATE

Reference No: 00096

Gas Safety Certificate and Certificate of Compliance made pursuant to Regulations 46 and 52B of the Gas (Safety and Measurement) Regulations 2010 (as amended), and Energy Work Certificate made pursuant to Regulation 19 of the Building Act 2004.

CLIENT NAME	Thom Roulston	INSTALLATION	Thom Roulston
ADDRESS	125 Nikau Valley Road	ADDRESS	125 Nikau Valley Road
ADDRESS	Paraparumu	ADDRESS	Paraparumu
ADDRESS		ADDRESS	

DESCRIPTION AND LOCATION OF THE GASFITTING:

Check & certify gas from 2x 45kg bottle change over kit to 1x Infinity 16 & 1x cooker in copper pipework

Validity authenticated
24 FEB 2016
Signature: 

APPLIANCES:

TYPE	MAKE & MODEL	FLUE TYPE	LOCATION	WORKING PRESSURE	INPUT RATING MJ/H
Cooker	Fisher & Paykel DR905D3BFX1	n/a	Kitchen	2.75	38.9
Water heater	Rinnai Infinity 16	Power flue	Outside ensuite	2.75	12.5

GAS TYPE	LPG	GAS SUPPLY PRESSURE	2.75
DATE(S) GASFITTING PERFORMED	Unknown	DATE OF GAS CONNECTION	05/01/16
WORKING PRESSURE 2.75	PIPEWORK TEST PRESSURE & TYPE Unknown	LOSS OR GAIN 0	COMMISSIONING TEST PRESSURE 2.75

STANDARD RISK CLASSIFICATION (tick one) ☐ Low ☒ General ☐ High Database

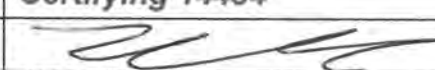
NAME, REGISTRATION NUMBER (IF ANY) OF PERSONS WHO CARRIED OUT GASFITTING UNDER SUPERVISION:
Enter names and registration numbers / none:
☒ James Taylor 14434
☐ Jonathan Osborne 19525

CERTIFICATE ATTACHMENTS (tick as applicable)
☐ Manufacturers Instructions: Enter details of any attachments
☐ Certified Designs: Enter details of any designs

"I believe on reasonable grounds that:
(a) the gasfitting work described above has been done lawfully and safely; and
(b) the work has been done in accordance with (tick one);
☒ sections 3 to 6 of AS/NZS 5601.1, or
☐ sections 3 to 9 of AS/NZS 5601.2; and
(c) the work ☐ has ☒ has not (tick one) been done in accordance with a certified design; and
(d) the work done ☒ has ☐ has not (tick one) relied on any manufacturers instructions; and
(e) this certificate relates to the ☒ whole ☐ part (tick one) installation described above; and
(f) the gas installation is connected to a gas supply and is safe to use; and ☒
(g) the information contained in this certificate is correct." ☒

CERTIFIER NAME: James Taylor

REGISTRATION TYPE & NUMBER: Certifying 14434

SIGNATURE: 

DATE: 05/01/2016



Producer Statement/ Warranty

This Producer Statement covers product supplied as per our quotation and is based on window schedules, floor plans and elevations as supplied.

Quote No. 5247 V9

Date 24/12/09

Revision Date _____

Supplied Only ☒

Supplied & Installed ☐

Unglazed ☐

Glazed ☐

Please read reverse for guidance on care and maintenance of your FIRST joinery.

Our windows comply with the building code

We hereby certify that all products supplied by our company meet or exceed the requirements of the New Zealand Building Code Means of Compliance, NZS 4211:1985 Performance of Windows and NZS 4223, Glazing in Buildings Parts 1,2 and 3.

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

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

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

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

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

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

Please Note: This warranty is subject to correct installation as outlined in the Building Code Acceptable Solution Clause E2/AS1 External Moisture or the Alternative Solution WANZ Window Installation System.

Purchaser

Tom Roulston

Address

28 Stellan St, Avalon Lower Hutt

Site address

125 Nikau Palm Rd, Porirua

Manufacturer

FIRST WINDOWS & DOORS WELLINGTON

Address

5 Mohua Cres, Porirua 5022

P.O. Box 56087, Tawa 5249

Date installation completed

Tel. (04) 237-5780 Fax (04) 237-4457

Signature

Warranty No.

5247 V9



Care and maintenance of FIRST Windows & Doors

FIRST Windows and Doors are designed and manufactured to the highest quality specifications. Regular cleaning will retain the appeal of your joinery for many years.

During construction ensure that fresh concrete, plaster or mortar is immediately removed from the surface of the aluminium or glass. Wipe with a damp cloth and wash down with clean water.

Pay particular attention to ensuring that builders debris and dirt is cleaned from the inside of sliding and hinged door sills, so that drainage holes remain unobstructed.

The building owner should clean the aluminium frames each time the windows are washed in order to remove atmospheric dirt and grime. A soft cloth with warm water and a mild household detergent are recommended.

Cleaning once every four months should be sufficient, but in coastal or industrial environments washing down may be required every one to three months.

Windows and doors for all seasons

Producer Statement - PS1 - Design

Job Ref: 3552TT

Truss Design Criteria For Building Consent Application

CLIENT Name: Tom Roulston

SITE Details:

Address : 125 Nikau Palm Road
Paraparaumu

City:

Post Code:

State:



Nominal Design Criteria:

Building importance: Residential

Roofing: Sheet steel + 13mm plasterboard lining

Ceiling: 13mm Gib-board

Top chord battens: 600 mm

BC restraints: 600 mm

Standard truss spacing: 900 mm

Standard roof pitch: 8.00 deg.

Ult. design wind speed: 44 m/s (wind classification = High)

Design roof snow load: 0 Pa
(incl. probability factor)

Ground snow load: 0 Pa

Location: Region N1 - lower Nth Island

Altitude above sea level: 100 m

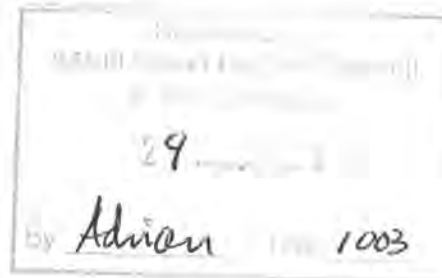
Building exposure factor: Sheltered

Max. eaves height: 3 m

Max. ridge height: 8 m

Int pressure coeff. up: 0.2

Structural Fascia: Not required except at hip corners



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.

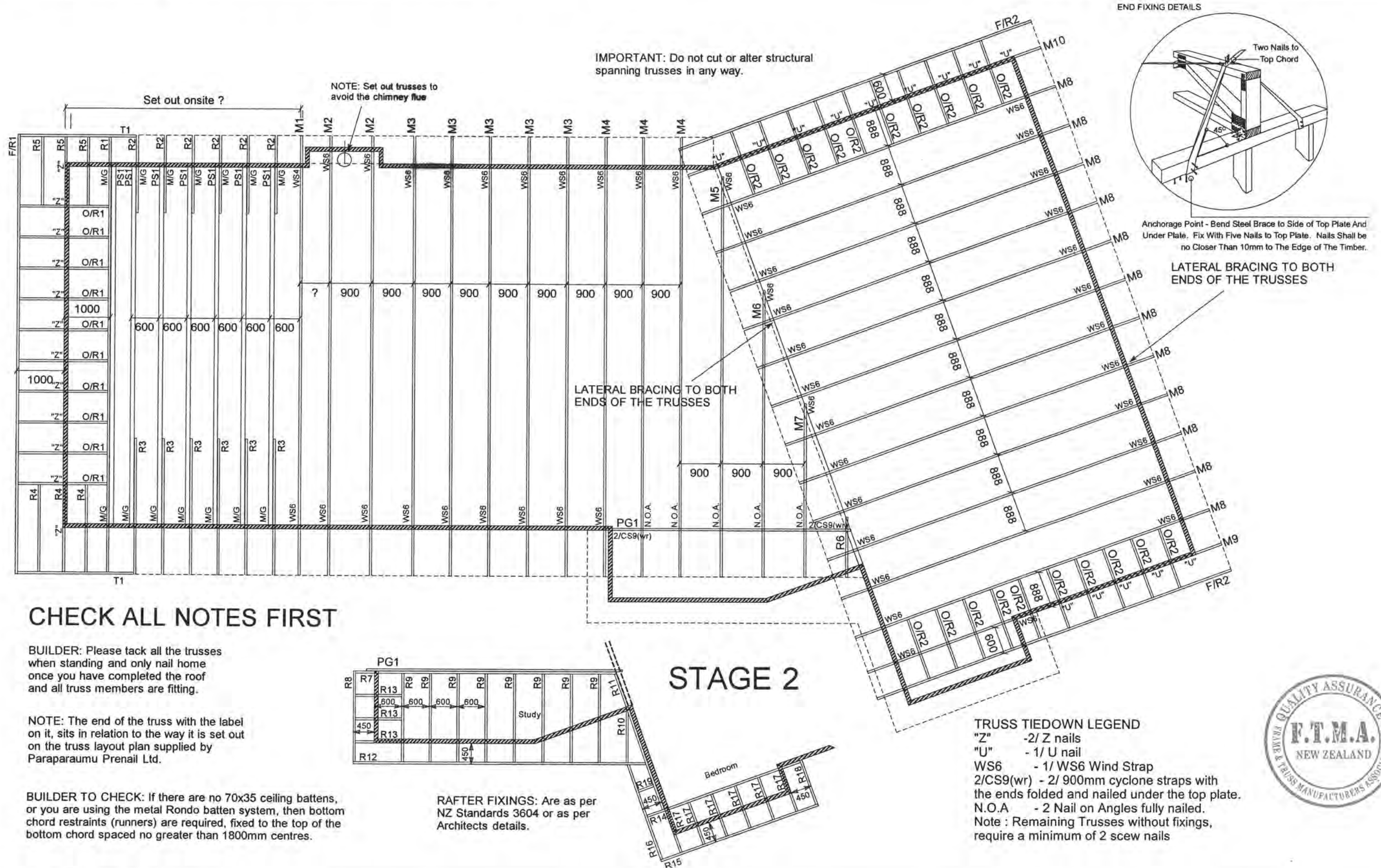
I/we confirm that the trusses for this project have been manufactured in accordance with the fabrication specifications provided by Pryda New Zealand

Name: Bruce Dyhrberg

Position: Head Detailer

Signed: B. Dyhrberg

Date: 8th December 2009



RESIDENTIAL WARRANTY & MAINTENANCE REQUIREMENTS

COLORSTEEL® Endura™



PROPERTY OWNER: Tom Roulston

SITE ADDRESS: 125 Nikau Palms Rd, Nikau Valley, Paraparaumu

DATE OF SUPPLY TO SITE: 30.12.09

SITE ENVIRONMENT

Moderate

INSTALLATION DATE:

PHONE NO:

You have chosen high quality **COLORSTEEL® Endura™** pre-painted steel products, which are designed to give you protection well into the future. The terms and conditions of this warranty are detailed below. To ensure you gain maximum value from your investment over time, the maintenance program under Maintenance specified below **MUST BE STRICTLY ADHERED TO:**

This warrants the following materials:

Lift No: P374995 / P381091, 40 Stone Corrugate

	Roofing	Cladding	Fascia/Gutter
Will not perforate through corrosion:	30 Years	Years	Years
Will not flake or excessively fade	18 Years	Years	Years

The product manufactured from **COLORSTEEL® Endura™** is subject to normal wear and tear, which may include uniform fading, chalking and dirt collection. Minor white corrosion, which may appear at unwashed tension bends or cut edges, is a natural weathering phenomenon of **COLORSTEEL® Endura™** and does not constitute a failure of the coating system.

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

- That the **COLORSTEEL® Endura™** pre-painted steel is processed, installed and maintained in accordance with the New Zealand Steel published literature, roofing manufacturers literature and accepted good trade practices.
- The product must be manufactured from prime **COLORSTEEL® Endura™** pre painted steel.
- Garage Doors are not included in the warranty.
- Damage or corrosion resulting from the following circumstances is not covered by the warranty:
 - a) Mechanical, chemical or other damage sustained during handling, storage, processing or installation.
 - b) Mechanical, chemical or other damage after installation.
 - c) Installations in very severe environments or special conditions as defined in the New Zealand Steel literature
 - d) Ponding in gutters due to build up of debris or due to inadequate fall.
 - e) Storm, tempest or other causes beyond the control of the roofing manufacturer.

If **COLORSTEEL® Endura™** pre-painted steel has failed to perform as warranted, the roofing manufacturer will at its sole option repair or replace (including labour) the affected material. A new warranty shall be issued to cover the balance of the original offer for both the paint coating and perforation protection. The roofing manufacturer shall not be liable for any consequential loss or damage except as may be required under any mandatory statutory provisions. This warranty does not in any way affect the rights of the consumer under the Consumer Guarantees Act.

MAINTENANCE

All roofing and cladding products are subject to the cumulative effects of weather, dust and other deposits. Normal rain-washing will remove accumulated atmospheric contaminants from roofs. Gutters must be regularly inspected to remove debris, which may cause ponding.

ENVIRONMENT

	Moderate ISO Category 3	Severe ISO Category 4	Very Severe ISO Category 5
Roof	Rain washing	Rain washing	Not recommended
Wall Cladding	Rain washing plus manual washing every year	Rain washing plus manual washing every 6 months	Not recommended
Unwashed and high risk areas	Manual washing every 6 months	Manual washing every 3 months	Not recommended

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

Note:

1. Recommendations provided in this table are contained in the standard provisions of the New Zealand Building Code, Section B2 Durability.
2. **High Risk** areas include around flues and extractor vents, under television aerials and trees and sites prone to mould, lichen, bird droppings or debris.

This roof was installed by: Supply only Signature of Installer:

And carries a workmanship warranty for: 5 Years

A copy of the current **COLORSTEEL® Endura™** colour chart has been provided

Signature of property owner or agent:

DATE:

PLEASE RETURN A SIGNED COPY OF THE WARRANTY TO THE ROOFING MANUFACTURER

This Warranty is issued by (the roofing manufacturer):

Signed:

Position: PRODUCTION

Date: 22.4.11

Kevin Carter



Metalcraft
ROOFING

PO Box 38509 – Petone
201 Gracefield Rd, Seaview

COLORSTEEL® is a registered trademark of New Zealand Steel Limited.
Endura™ is a trademark of New Zealand Steel.

MAINTENANCE RECOMMENDATIONS



MAINTENANCE

All roofing and cladding products are subject to the cumulative effects of weather, dust and other deposits. Normal rain washing will remove most accumulated atmospheric contaminants from roofs. For wall cladding, manual washing every 3 to 12 months, depending on the paint system, is recommended in moderate to very severe environments to prevent accumulation of dirt, debris or other material not removed by rain washing. For areas that do not receive any or adequate rain washing (called unwashed areas) such as soffits, wall cladding under eaves, underside of gutters, fascias, sheltered areas of garage doors and unwashed roof areas, more extensive manual washing is required. Similarly, other **High Risk** areas, around flues, under television aerials and solar panels or overhanging trees and sites prone to mould, lichen, bird droppings or debris, need to have regular manual washing. Regular washing of COLORSTEEL® prepainted steel products increases the durability by reducing attack from airborne salts and pollutants. GALVSTEEL™ products and ZINCALUME® steel products will also benefit from routine washing.

Roofing and cladding products should be manually washed with water and a sponge or a soft nylon-bristled brush. For large areas it may be more appropriate to use water blasting at pressures up to 20MPa.

If New Zealand Steel Limited products are maintained according to the following recommendations, the requirements of the New Zealand Building Code B2 for 15 year durability for roofs and exterior walls will be met or exceeded.

Note:

1. The New Zealand Building Code Durability requirement does not include aesthetic appearance.
2. The New Zealand Building Code requires a durability of 15 years minimum (with maintenance) for non structural roofing, including valleys, and wall cladding products. This means no moisture penetration due to product failure.
3. New Zealand Steel Limited products are designed to exceed the New Zealand Building Code B2: Durability requirements. Continued maintenance and overpainting will greatly extend the ultimate life of all products.
4. Where a 50 year durability is required **OR** where a product is to be used in aggressive internal environments, New Zealand Steel Limited should be consulted.
5. In Industrial Environments, the type of pollution generated may alter the above recommendations. If in doubt, consult New Zealand Steel Limited. The Maintenance Table, on the reverse, is for guidance only. Each proprietary building product should carry its own manufacturers' recommendations for usage.
6. New Zealand Steel Limited will not accept responsibility for proprietary roofing and cladding products which do not conform to our recommendations for manufacturing, environmental use or maintenance.

MINIMUM MAINTENANCE RECOMMENDATIONS FOR NEW ZEALAND STEEL PRODUCTS USED FOR ROOFING AND WALL CLADDING.

ENVIRONMENT				
		Moderate	Severe	Very Severe
COLORSTEEL[®] Maxx[™] COLOUR FOR THE EXTREME	Roof	Rain washing*	Rain washing*	Rain washing*
	Wall Cladding	Rain washing plus manual washing every year	Rain washing plus manual washing every 6 months	Rain washing plus manual washing every 3 months
	Unwashed and High Risk Areas	Manual washing every 6 months	Manual washing every 3 months	Manual washing every month
COLORSTEEL[®] Endura[™] COLOUR FOR THE FUTURE	Roof	Rain washing*	Rain washing*	Not recommended
	Wall Cladding	Rain washing plus manual washing every year	Rain washing plus manual washing every 6 months	Not recommended
	Unwashed and High Risk Areas	Manual washing every 6 months	Manual washing every 3 months	Not recommended
Zincalume[®]	Roof	Rain washing*	Not recommended	Not recommended
	Wall Cladding	Rain washing plus manual washing every 6 months	Not recommended	Not recommended
	Unwashed and High Risk Areas	Manual washing every 3 months	Not recommended	Not recommended
GALVSTEEL[™]	Roof	Rain washing*	Not recommended	Not recommended
	Wall Cladding	Rain washing plus manual washing every 6 months. Painting may be advisable depending on the specific location	Not recommended	Not recommended
	Unwashed and High Risk Areas	Manual washing every 3 months. Painting may be advisable depending on the specific location	Not recommended	Not recommended

Refer to the Environmental Categories Brochure

*Further maintenance will be required if lichen or fungus growth occurs. For identification and recommendations for removal of lichen refer to Information Bulletin 3 which can be downloaded at www.nzsteel.co.nz

Note: Recommendations provided in this table apply to the standard provisions of the New Zealand Building Code, Section B2 Durability.

FURTHER INFORMATION

For additional information, literature or technical assistance, please contact:

Marketing and Sales
New Zealand Steel Limited
Private Bag 92 121, Auckland 1142
Telephone: 0-9-375 8999
Facsimile: 0-9-375 8213
Free Phone: 0800 100 523
Email Address: info@colorsteel.co.nz
<http://www.colorsteel.co.nz>

Zincalume[®]

ZINCALUME[®] is a registered trademark of BlueScope Steel Limited.

GALVSTEEL[™]

GALVSTEEL[™] is a trademark of New Zealand Steel Limited.

COLORSTEEL[®] Maxx[™]
COLOUR FOR THE EXTREME

MAXX[™] is a trademark of New Zealand Steel Limited.

COLORSTEEL[®] Endura[™]
COLOUR FOR THE FUTURE

ENDURA[™] is a trademark of New Zealand Steel Limited.

COLORSTEEL[®]

COLORSTEEL[®] is a registered trademark of New Zealand Steel Limited.

COLORSTEEL[®]
THE ROOF OF NEW ZEALAND[®]

is a registered trademark of New Zealand Steel Limited.

NOTE: With New Zealand Steel Limited's commitment to continuous improvement, information provided in this publication may be subject to modification. At the time of publication we believe the information contained in this document is the best available. Nonetheless, we reserve the right to modify any product, technique, equipment or statement to reflect improvements in the manufacture and application of coil coated products.

The information is supplied without prejudice to New Zealand Steel Limited's standard terms and conditions of sale. In the event of any conflict between this information and the standard terms and conditions, the standard terms and conditions shall prevail.

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NEW ZEALAND STEEL
100% RECYCLABLE



NEW ZEALAND
STEEL

Kiwi to the core

COLORSTEEL[®]
THE ROOF OF NEW ZEALAND[®]



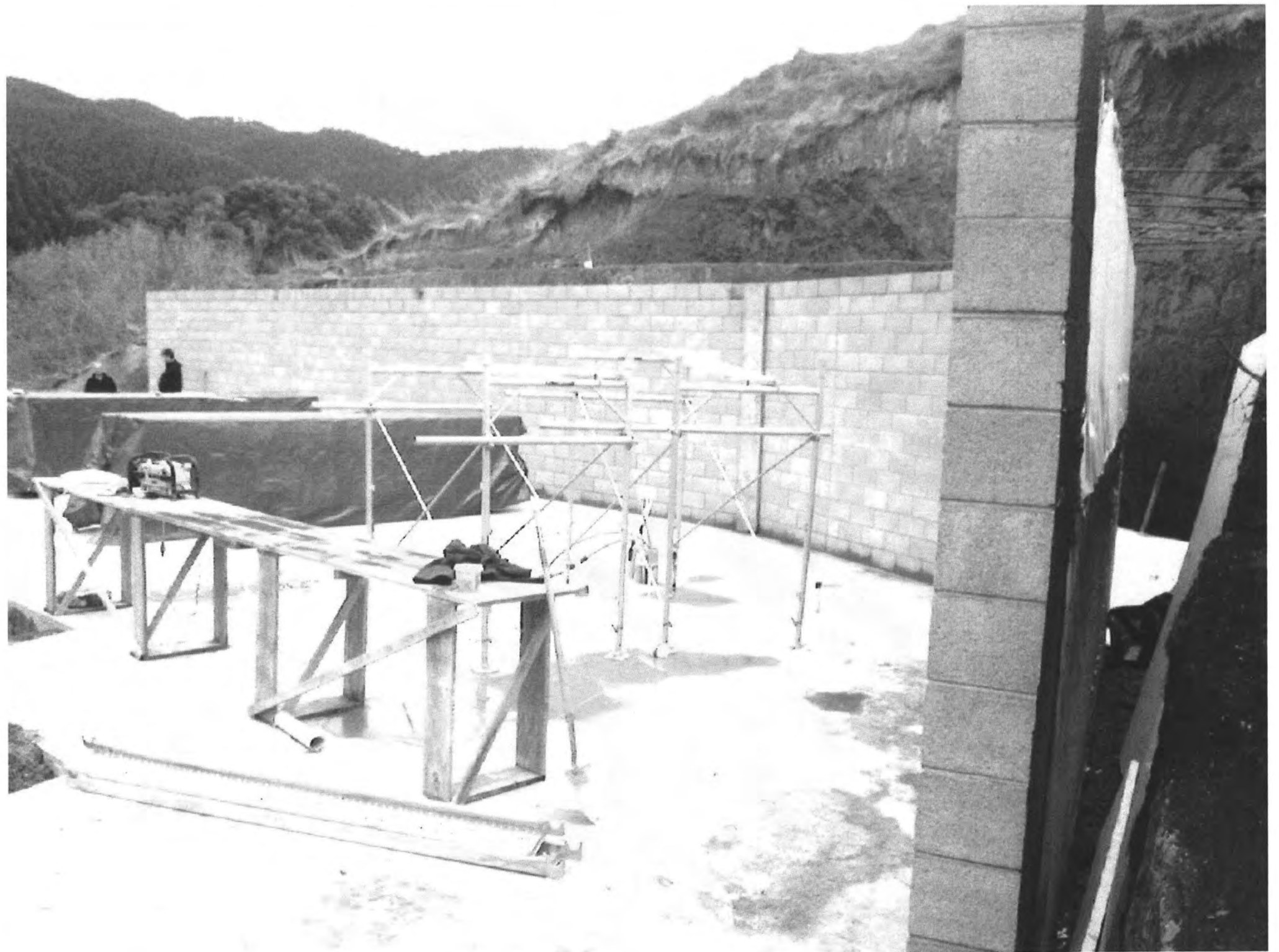
New Zealand Steel Limited, Private Bag 92 121, Auckland 1142, New Zealand. Ph 0-9-375 8999 Fax 0-9-375 8213

BH957647
W4342









ROULSTON RESIDENCE

125 NIKAU PALM ROAD
PARAPARAUMU

REVISIONS:

Rev: Description: Date:

GENERAL NOTES:

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

IF IT ISN'T DIMENSIONED - DO NOT SCALE

BRACING PLANS

07

DATE: 12 FEB 2010
SCALE: 1:100 @A3
JOB NUMBER: NA
DRAWN BY: S JOHNSON
DESIGN BY: Designer

ARCHITECTURE DM

17 GEAR ST
PETONE

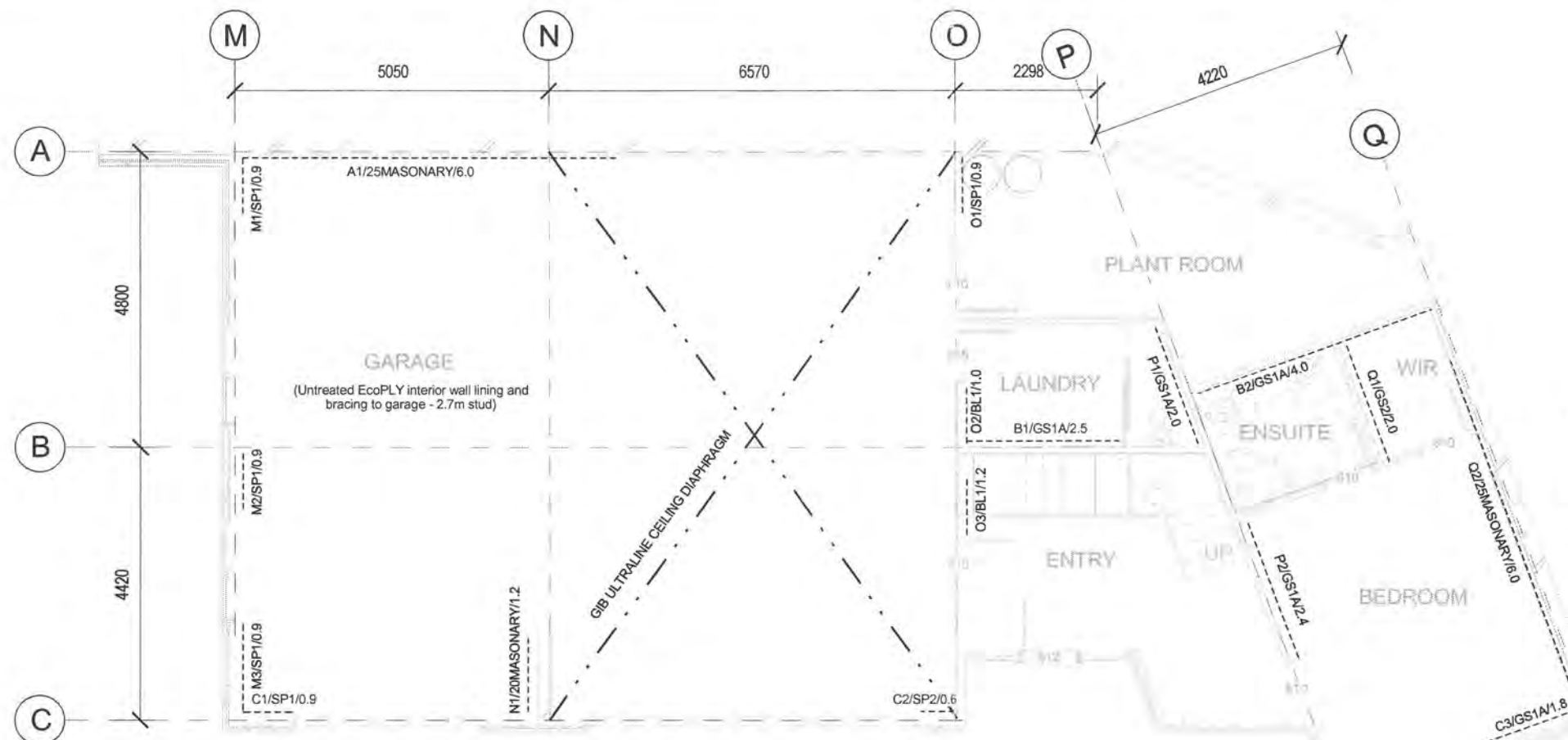
P (04) 568 8468
F (04) 568 8468
M 027 452 4670

E dean@architecturedm.co.nz

© ARCHITECTURE DM LTD

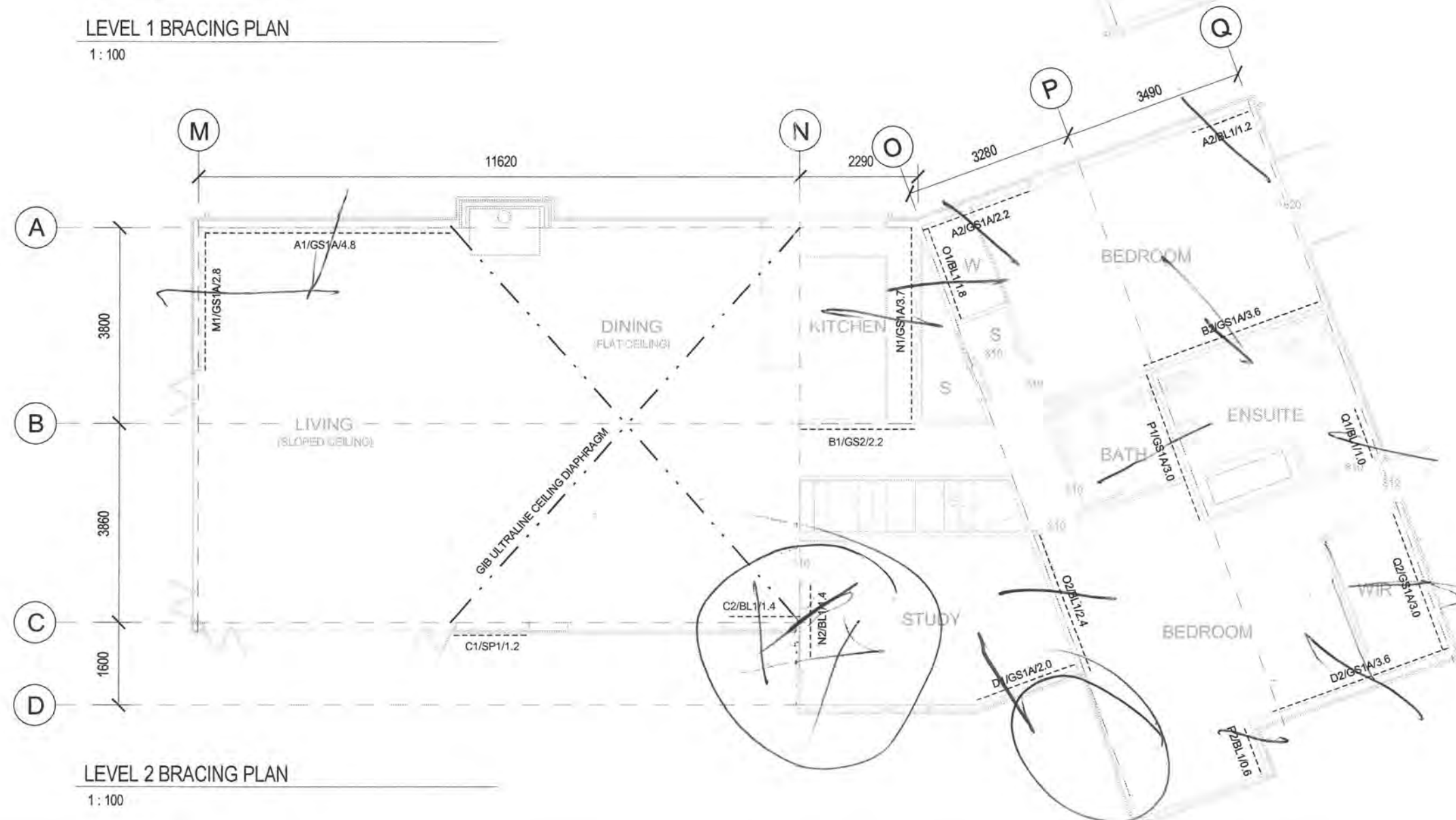
A D N Z

ARCHITECTURAL DESIGNERS NZ INC



LEVEL 1 BRACING PLAN

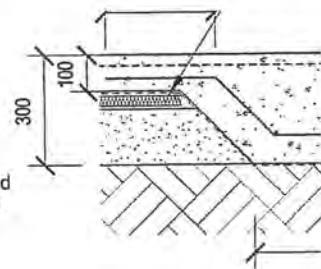
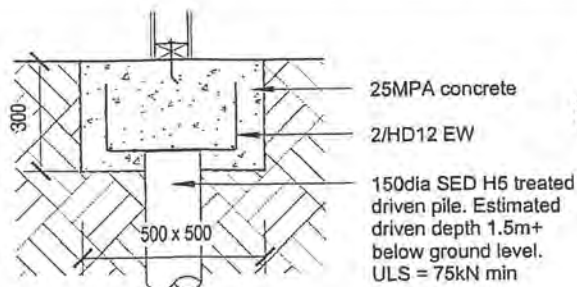
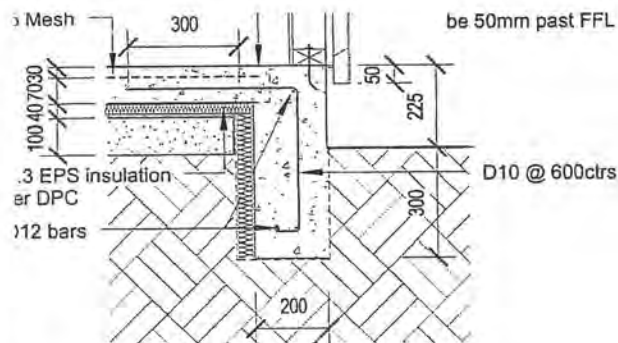
1:100



LEVEL 2 BRACING PLAN

1:100

THIS BRACE
PLAN USGS
FOR POSTING.
CH-64. 28/5/10
JK.



EXTERNAL WALL FOOTING DETAIL

TYPICAL ENGINEERED PILE CAP DETAIL

TYPICAL ENGINEERED PILE DETAIL

20

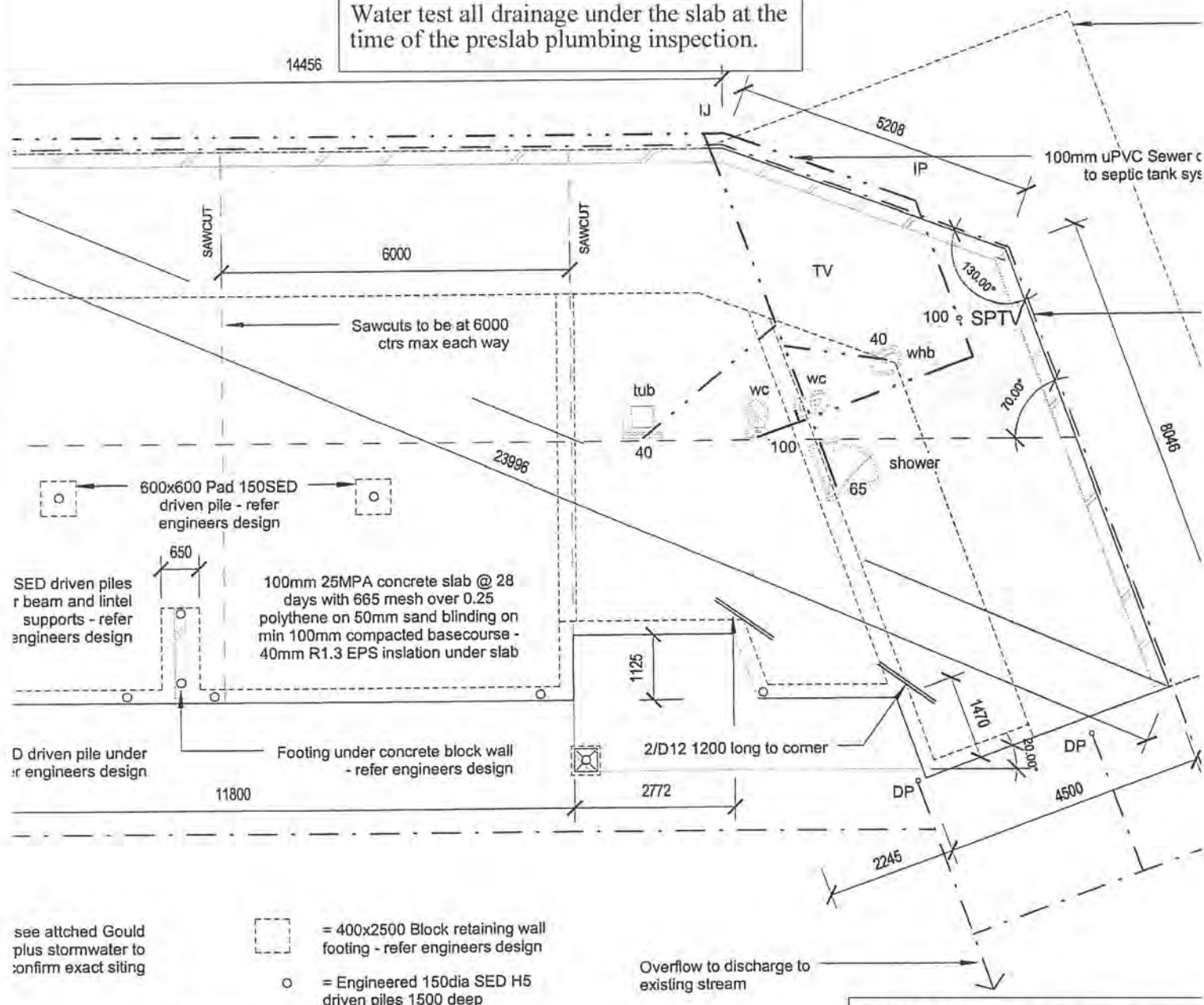
1:20

1:20

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

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

14456



see attached Gould
plus stormwater to
confirm exact siting

- = 400x2500 Block retaining wall
footing - refer engineers design
- = Engineered 150dia SED H5
driven piles 1500 deep

**PIPES TO BE INSPECTED BEFORE
COVERING WITH SAND.**

**TPR drain is to be run in cop
for its entire lenght to a point
at low level.**



BRANZ Appraised
Appraisal No.457 [2005]

BRANZ Appraisals

**Technical Assessments of products
for building and construction**

**BRANZ
APPRAISAL
CERTIFICATE
No. 457 (2005)**

Amended 28 March 2007

**VENTCLAD
VENTILATED CAVITY
SYSTEM**

PBS Investments Ltd
P O Box 302 202
North Harbour
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1.1 The VentClad Ventilated Cavity System is a cavity-based, flush-finished, monolithic plaster wall cladding. It is designed to be used as an external wall cladding system for residential and light commercial type buildings where domestic construction techniques are used.

1.2 The VentClad Ventilated Cavity System consists of Eterpan fibre cement sheet fixed over timber battens to form a cavity. The cladding is finished with a jointing and trowel applied plaster finish system.

1.3 The system incorporates a primary and secondary means of weather resistance (first and second line of defence) against water penetration by separating the cladding from the external wall framing with a nominal 20 mm cavity. The cavity allows for any occasional ingress of water that may get past the external skin to drain to the exterior of the building, and any remaining moisture to dry by evaporation.



2.1 The VentClad Ventilated Cavity System has been appraised as an external wall cladding for buildings within the following scope:

- the scope limitations of NZBC Acceptable Solution E2/AS1 Third Edition June 2004, Paragraph 1.1; and,
- with a risk score of 0-20, calculated in accordance with NZBC Acceptable Solution E2/AS1 Third Edition June 2004, Table 2; and,
- on buildings situated in NZS 3604 Building Wind Zones up to, and including, 'Very High'; and,
- detached and located 1 metre or more from the relevant boundary.

2.2 The VentClad Ventilated Cavity System is appraised for use with jointing and textured finish systems that comply with NZBC Acceptable Solution E2/AS1, Paragraph 9.7.10.2 and are covered by a valid BRANZ Appraisal Certificate for use as a jointing and textured finish system for the VentClad Ventilated Cavity Systems. One such system is included in this Certificate. Refer to Paragraph 4.3.

2.3 The VentClad Ventilated Cavity System must only be installed on vertical surfaces (except for tops of sills and balustrades, which must have a minimum 10° slope and be waterproofed in accordance with the Technical Literature).

2.4 The system is appraised for use with aluminium window and door joinery that is installed with horizontal heads and sills and vertical jambs, in the plane of the wall. (Note: The Appraisal of the VentClad Ventilated Cavity System is on the joinery meeting the requirements of NZS 4211 Wind Zone.)

2.5 The cladding system must be installed in accordance with the VentClad Ventilated Cavity System Technical Literature Paragraph 6.1.

2.6 Installation of components and accessories supplied by the jointing and trowel applied plaster finish system manufacturer must be carried out only by the jointing and trowel applied plaster finish system manufacturer's approved applicators.

(Note: The VentClad Ventilated Cavity System can be used to provide structural bracing and fire resistance rated construction, but these aspects have not been assessed by this Certificate and are therefore outside its scope.)

New Zealand Building Code (NZBC)

3.1 In the opinion of BRANZ, the VentClad Ventilated Cavity System, if designed, used, installed and maintained in accordance with the statements and conditions of this Certificate, will meet or contribute to meeting the following provisions of the NZBC:

Clause B1 STRUCTURE: Performance B1.3.1, B1.3.2, and B1.3.4. The VentClad Ventilated Cavity System meets the requirements for loads arising from self-weight, earthquake, wind and impact [i.e. B1.3.3 (a), (f), (h) and (j)]. See Paragraphs 11.1 – 11.3.

Clause B2 DURABILITY: Performance B2.3.1 (b), not less than 15 years. The VentClad Ventilated Cavity System meets this requirement. See Paragraph 12.1.

Clause E2 EXTERNAL MOISTURE: Performance E2.3.2. The VentClad Ventilated Cavity System meets this requirement. See Paragraphs 16.1 – 16.5.

Clause F2 HAZARDOUS BUILDING MATERIALS: Performance F2.3.1. The VentClad Ventilated Cavity System meets this requirement and will not present a health hazard to people.

3.2 This Certificate appraises an Alternative Solution in terms of New Zealand Building Code Compliance.

4.1 System components and accessories for the VentClad Ventilated Cavity System supplied by PBS Distributors Ltd are:

Eterpan Sheet

- Eterpan sheet is 7.5 mm thick, 1200 mm wide and either 2400 mm, 2700 mm or 3000 mm long, and is manufactured from a cellulose cement formulation. The boards are formed, cut to length and then cured by high-pressure autoclaving. They are produced in flat, smooth surfaced sheet material form. After autoclaving tapered edges are created along both long edges of the sheet. The sheets are manufactured to conform to the requirements of AS/NZS 2908.2.

Accessories

- VentClad vented battens – 50 mm wide x 20 mm thick or 70 mm wide x 20 mm thick timber, with 20 mm wide x 5 mm deep machined grooves at 100 mm centres on both faces, treated to Hazard Class H3.1.
- Horizontal flashing – uPVC, available in 3000 mm lengths.
- Vertical control joint – 6 mm flexible control joint, uPVC, available in 3000 mm lengths.
- Window and door joinery head flashings – uPVC, available in 5000 mm lengths.

- Vermin flashing/cavity vent strip – uPVC, available in 5000 mm lengths.
- Head flashing – extruded uPVC, available in 5000 mm lengths.
- Inter-floor movement joint flashing – 0.9 mm thick aluminium.

4.2 Accessories used with VentClad Ventilated Cavity System that are supplied by the cladding installer are:

- Building wrap – wrap complying with NZBC Acceptable Solution E2/AS1 Third Edition June 2004, Table 23, or breather-type membranes covered by a valid BRANZ Appraisal Certificate for use as wall wraps.
- Building wrap support – polypropylene strap, 75 mm galvanised mesh, galvanised wire, or additional vertical battens for securing the building wrap in place and preventing bulging of the bulk insulation into the drainage cavity. *(Note: mesh and wire galvanising must comply with AS/NZS 4534.)*
- Window and door trim cavity air seal – air seals complying with NZBC Acceptable Solution E2/AS1 Third Edition June 2004, Paragraph 9.1.6, or self expanding, moisture cure polyurethane foam air seals covered by a valid BRANZ Appraisal Certificate suitable for use around window, door and other wall penetration openings.
- Flexible sill, head and jamb flashing tape – flexible flashing tapes complying with NZBC Acceptable Solution E2/AS1 Third Edition June 2004, Paragraph 4.3.11, or flexible flashing tapes covered by a valid BRANZ Appraisal Certificate for use around window and door joinery openings.
- Flexible sealant – sealant complying with NZBC Acceptable Solution E2/AS1 Third Edition June 2004, or sealant covered by a valid BRANZ Appraisal Certificate for use as a weather sealing sealant for exterior use.
- Eterpan sheet fixings – there are three different types for use in different situations. These are:
 - 60 x 2.8 mm grade 316 stainless steel ring-shanked, flat head nails.
 - 60 mm 10 gauge countersunk stainless steel screws.
 - 25 mm 8 gauge countersunk head stainless steel screws.
- Cavity batten fixings – 40 mm panel pins.
- Batten strap – galvanised mild steel fixing strap 25 mm wide.
- Waterproof membrane tapes – tapes covered by a valid BRANZ Appraisal Certificate for use as waterproofing membranes over tops of plastered balustrades, fixing blocks and the like.

Trowel Applied Plaster Finish System

4.3 The Uniplast flush finished jointing and trowel applied plaster finish plaster system has been tested to BRANZ EM4 for use with the VentClad Ventilated Cavity System.

4.4 System components and accessories supplied by Uniplast Ltd for the Uniplast flush finished jointing and trowel applied plaster finish plaster system are:

Primer

- Uniplast UV Primer Sealer is a milky white, water based latex primer. It is used to seal the face of the Eterpan fibre cement sheets and sheet joints prior to plastering. Uniplast UV Primer Sealer is supplied in 20 litre pails.

Plasters

- Uniplast Jointing Compound is a pre-mixed acrylic modified cement plaster. It is trowel applied to the joints of Eterpan sheets and is used as the bedding compound for

the joint reinforcing mesh. Uniplast Jointing Compound is supplied in 25 kg bags.

- Uniplast Mesh Coat is a Portland cement-based plaster comprising sand, hydrated lime and mineral additives. It is trowel applied to the entire sheet surface to approximately 1.5 mm thick. Uniplast Mesh Coat is supplied in 25 kg bags.
- Uniplast Sponge Finishing Compound is a Portland cement-based plaster comprising sand, hydrated lime and mineral additives. It is trowel applied to the entire sheet surface to approximately 1.0 mm thick. Uniplast Sponge Finishing Compound is supplied in 20 kg bags.

Accessories

- Reinforcing mesh - alkali resistant fibreglass mesh with a nominal mesh size of 4 mm x 4 mm and an approximate weight of 160 g/m². The mesh is supplied in rolls 65 mm and 200 mm wide
- External corners - PVC slim line angles, available in 2400 mm lengths.

Paint System Specification

4.5 Dulux Acraprime water-based acrylic primer is used as a sealer coat on the VentClad Ventilated Cavity System. Dulux Acrashield is used as a finishing coat. The paint colour selected must have a light reflectance value (LRV) of 40% minimum regardless of gloss value.

Handling and Storage

5.1 Handling and storage of all materials supplied by PBS Distributors Ltd or the building contractor, whether on site or off site, is under the control of the building contractor. Eterpan sheets must be stacked flat, off the ground and supported on a level platform. They must be kept dry at all times either by storing under cover or by providing waterproof covers to the stack. Care must be taken to avoid damage to edges, ends and surfaces. The sheets must always be carried on edge. uPVC flashings and profiles must be protected from direct sunlight and physical damage, and should be stored flat and under cover.

5.2 Cavity battens and other accessories must be stored so they are kept clean, dry and undamaged. All accessories must be used within the maximum storage period recommended by the manufacturer.

5.3 Handling and storage of all materials supplied by the jointing and textured finish system manufacturer or the approved applicator, whether on site or off site, is under the control of the approved applicator. Dry storage must be provided on site for the fibreglass mesh and bags of plaster mix. Bags of plaster must be used within the designated shelf life from the date of manufacture.

6.1 Refer to the Appraisals listing on the BRANZ Website for details of the current Technical Literature for the VentClad Ventilated Cavity System. The Technical Literature must be read in conjunction with this Certificate. All aspects of design, use, installation and maintenance contained within the Technical Literature and within the scope of this Certificate must be followed.

Cavity Battens

7.1 The VentClad Ventilated Cavity System incorporates full-width horizontal battens. This system has been specifically tested to ensure compliance with the ventilation, drainage and drying requirements of NZBC Clause E2.

Framing

Timber Treatment

8.1 Timber wall framing behind the VentClad Ventilated Cavity System must be treated as required by NZS 3602.

Timber Framing

8.2 Studs must be provided at maximum 600 mm centres. Nogs must be fitted flush between the studs at 800 mm or 1200 mm centres.

8.3 Timber wall framing behind cavity battens where sheets are joined must be nominal 50 mm thickness (i.e. 45 mm minimum finished thickness).

8.4 Timber framing must comply with NZS 3604 or be to a specific design using NZS 3603 and NZS 4203. Where specific design is required, the framing must be of at least equivalent stiffness to the framing provisions of NZS 3604.

8.5 Timber wall framing and cavity battens must have a maximum moisture content of 24% at the time of the cladding application. *(Note: If Eterpan sheets are fixed to framing with a moisture content of greater than 24% problems can occur at a later date due to excessive timber shrinkage.)*

Eterpan Sheet Set Out

8.6 Eterpan sheets must be installed vertically. All vertical Eterpan sheet edges must be supported and fixed through the cavity battens to the wall framing. Horizontal sheet edges must be supported by horizontal VentClad battens as described in the Technical Literature. At the base of the wall, the sheets must hang 50 mm below the supporting framing.

8.7 Additional framing may be required at soffits, internal and external corners and window and door openings for the support and fixing of sheet edges.

General

9.1 Punchings in the cavity vermin flashing provide a ventilation opening area of at least 1000 mm² per lineal metre of wall in accordance with NZBC Acceptable Solution E2/AS1 Third Edition June 2004, Paragraph 9.1.8.3(b).

9.2 At ground level the bottom edge of Eterpan fibre cement sheets must be kept clear of paved surfaces, such as footpaths, by a minimum of 100 mm and unpaved surfaces by 175 mm in accordance with NZBC Acceptable Solution E2/AS1 Third Edition June 2004, Table 18. The ground clearances to finished floor levels as set out in NZS 3604 must be adhered to.

9.3 At balcony, deck or low pitched roof/wall junctions, the bottom edge of the VentClad Ventilated Cavity System must be kept clear of any adjacent surface, or above the top surface of any adjacent roof flashing by a minimum of 35 mm in accordance with NZBC Acceptable Solution E2/AS1 Third Edition June 2004, Paragraph 9.1.3.6.

9.4 Unlined gables and walls must incorporate a rigid sheathing or air barrier that meets the requirements of NZBC Acceptable Solution E2/AS1 Third Edition June 2004, Table

23. Where rigid sheathings are used, fixing length must be increased by a minimum of the thickness of the sheathing.

9.5 Where the VentClad Ventilated Cavity System abuts other cladding systems, the designer must detail the junction to meet their own requirements and the performance requirements of the NZBC. These details are outside the scope of this Certificate.

Control Joints

10.1 Control joints must be constructed in accordance with the Technical Literature, and be provided as follows:

- Vertical control joints – at maximum 5.4 m centres; aligned with any control joint in the structural framing; where the system abuts different cladding types, or where the system covers different structural materials.
- Horizontal control joints – at inter-storey floor levels and at maximum 5.4 m centres.

(Note: Horizontal and vertical control joints must be located over structural supports. The design of vertical control joints where the system abuts different cladding types is outside the scope of this Certificate and is the responsibility of the designer – see Paragraph 9.5.)

10.2 Inter-storey junctions must be constructed in accordance with the Technical Literature. Inter-storey drained joints must be provided for walls over 2 storeys in height in accordance with NZBC Acceptable Solution E2/AS1 Third Edition June 2004, Paragraph 9.1.9.4(b).

Structure

Mass

11.1 The mass of the VentClad Ventilated Cavity System is approximately 13 kg/m² at equilibrium moisture content, therefore it is considered a light wall cladding in terms of NZS 3604.

Impact Resistance

11.2 The VentClad Ventilated Cavity System has good resistance to hard body impacts likely to be encountered in normal residential use. The likelihood of impact damage to the system when used in light commercial situations should be considered at the design stage, and appropriate protection such as the installation of bollards and barriers should be considered for vulnerable areas.

Wind Zones

11.3 The VentClad Ventilated Cavity System is suitable for use in all Building Wind Zones of NZS 3604 up to, and including, Very High. *(For the scope limitations of buildings covered by this Certificate, refer to Paragraph 2.1.)*

Durability

Serviceable Life

12.1 VentClad Ventilated Cavity System installations are expected to have a serviceable life of at least 50 years provided that the jointing and trowel applied plaster finish system is maintained in accordance with this Certificate to ensure the Eterpan fibre cement sheets remain dry in service. For the VentClad Ventilated Cavity System to meet the durability requirements of the NZBC, it must be finished within three months of installation of the Eterpan Sheets.

Maintenance

13.1 Regular maintenance is essential for VentClad Ventilated Cavity System installations to continue to meet the NZBC durability performance provision and to maximise their serviceable life.

13.2 Annual inspections must be made to ensure that all aspects of the cladding system, including the jointing and trowel applied plaster finish system, flashings and any sealed joints remain in a weatherproof condition. Any cracks, damaged areas or areas showing signs of deterioration which would allow water ingress, must be repaired immediately. Sealant, paint coatings, trowel applied plaster finish system, flashings or the fibre cement sheets must be repaired in accordance with the relevant manufacturer's instructions.

13.3 Regular cleaning (at least annually) of the paint coating is recommended to remove grime, dirt and organic growth, to maximise the life and appearance of the coating.

13.4 Recoating of the paint system will be necessary throughout the life of the cladding system. The interval between recoats depends on the colour, orientation, coating formulation and the quality of the application, and will be at approximately 5-10 yearly intervals in accordance with the paint manufacturer's instructions.

13.5 Minimum ground clearances as set out in this Certificate and the Technical Literature must be maintained at all times during the life of the cladding. *(Note: Failure to adhere to the minimum ground clearances given in this certificate and the Technical Literature will adversely affect the long term durability of the VentClad Ventilated Cavity System.)*

Control of External Fire Spread

14.1 The VentClad Ventilated Cavity System, when finished with the Uniplast jointing and trowel applied plaster finish system is considered to meet the performance requirements of NZBC Clause C3.3.5 for use as an external wall cladding when restricted to:

- Single storey buildings 1 m or more from the relevant boundary for all purpose groups; or,
- Buildings with a building height less than 7 metres, 1 m or more from the relevant boundary, for all purpose groups other than SC and SD; or,
- Buildings containing purpose group SH, with a building height less than 10 m and located more than 1 m or more from the relevant boundary.
- Fully sprinklered buildings with a building height of less than 25 m, 1 m or more from the relevant boundary for all purpose groups other than SC, SD, SA and SR.

(Note: The building heights referenced in Paragraph 14.1 above are as defined in the Definitions Section of the Fire Safety Clauses of the NZBC. The scope of this Certificate limits building heights to 10 m from ground to eaves in accordance with the limitations of NZBC Acceptable Solution E2/AS1 Third Edition June 2004, Paragraph 1.1(a).)

Outbreak of Fire

15.1 The VentClad Ventilated Cavity System must be separated from chimneys and flues in accordance with the requirements of NZBC Acceptable Solution C/AS1 Part 9 for the protection of combustible materials.

External Moisture

16.1 The VentClad Ventilated Cavity System, when installed and maintained in accordance with this Certificate and the Technical Literature on buildings with a risk score of 0-20, calculated in accordance with NZBC Acceptable Solution E2/AS1 Third Edition June 2004, Table 2, prevents the penetration of moisture that could cause undue dampness or damage to building elements.

16.2 The cavity must be sealed off from the roof and sub-floor spaces to meet compliance with NZBC Clause E2.3.5.

16.3 The VentClad Ventilated Cavity System allows excess moisture present at the completion of construction to be dissipated without permanent damage to building elements to meet compliance with NZBC Clause E2.3.6.

16.4 The details given in the Technical Literature for weather sealing are based on the design principle of having a first and second line of defence against moisture entry for all joints, penetrations and junctions. The ingress of moisture must be excluded by detailing joinery and wall interfaces as shown in the Technical Literature. Weathertightness details that are developed by the designer are outside the scope of this Certificate and are the responsibility of the designer for compliance with the NZBC.

16.5 The use of the VentClad Ventilated Cavity System where there is a designed cavity drainage path for moisture that penetrates the cladding, does not reduce the requirement for joints, penetrations and junctions to remain weather resistant.

Internal Moisture

17.1 NZBC Acceptable Solution E3/AS1 Paragraph 1.1.1(a) requires a minimum wall R-value of 1.5 for framed cavity wall construction, and therefore, the wall frame cavity must be insulated.

Water Vapour

17.2 The VentClad Ventilated Cavity System is not a barrier to the passage of water vapour, and when installed in accordance with this Certificate will not create or increase the risk of moisture damage resulting from condensation.

Installation Skill Level Requirements

18.1 Installation of Eterpan sheets and accessories supplied by PBS Distributors Ltd and the building contractor must be completed by tradespersons with an understanding of cavity construction and fibre cement sheet installation, in accordance with instructions given within the VentClad Ventilated Cavity System Technical Literature and this Certificate.

18.2 Installation of components and accessories supplied by the trowel applied plaster finish system manufacturer must be completed by applicators approved by the trowel applied plaster finish system manufacturer.

System Installation

Building Wrap and Flexible Sill and Jamb Tape

19.1 The selected building wrap and flexible sill and jamb tape systems must be installed by the building

contractor in accordance with the wrap and tape manufacturers' instructions prior to the installation of the cavity battens. Particular attention must be paid to the installation of the building wrap and sill and jamb tapes around window and door openings to ensure a continuous seal is achieved and all exposed timber wall framing in the opening is protected.

Cavity Battens

19.2 VentClad ventilated cavity battens must be installed vertically over the building wrap to the wall studs at maximum 600 mm centres, and horizontally over dwangs at 800 mm or 1200 mm centres. The battens are fixed in place with 40 mm panel pins.

Aluminium Joinery Installation

19.3 Aluminium joinery and associated head flashings must be installed by the building contractor in accordance with the Technical Literature. A nominal 10 mm gap must be left between the joinery reveal and the wall framing so a PEF rod and air seal can be installed after the joinery has been secured in place.

Eterpan Fibre Cement Sheet Installation

19.4 Eterpan fibre cement sheets may be cut by scoring and snapping, hand guillotine, hand or power saw. Site edge recessing of cut sheets may be carried out using a tool specifically designed for that use, or by running an angle grinder down the edge of the sheet at an acute angle to the face. A minimum sheet edge thickness of 5 mm must be maintained. Holes and cut-outs may be formed by drilling a number of holes around the perimeter of the opening required and tapping out the centre with a hammer, or by using a hole saw. When power tools are used for cutting, grinding or forming holes, safety measures as set out in the Technical Literature must be undertaken because of the amount of dust generated.

19.5 Sheets must be dry prior to installation. It is not necessary for sheet edges to be pre-painted with a seal coat prior to fixing, as required by NZBC Acceptable Solution E2/AS1 Third Edition June 2004, Paragraph 9.7.3.

19.6 Prior to fixing sheets, a check must be made to ensure all sheet joints will be supported by framing. Sheets must be fixed through the cavity battens to the timber framing with 60 x 2.8 mm flat head, stainless steel ring shank nails.

19.7 Sheet edges at flush finished vertical and horizontal joints must be close butted together. Vertical control joints must be fixed so that an 8 mm gap is left between the sheets to allow for the fitting of a uPVC vertical control joint extrusion.

19.8 Sheets must not be fixed to inter-storey joists or blocking, and must have a 9 mm gap between sheet edges at this point to allow for shrinkage of the framing. This gap must be flashed with an inter-floor movement joint flashing to prevent moisture entry, and be covered with an architectural shape fixed to the upper sheet only.

19.9 Horizontal or vertical sheet joints, with the exception of vertical control joints, must not occur at window and door openings. Vertical sheet joints adjacent to openings must be a minimum of 200 mm from the jamb line of the opening.

Eterpan Sheet Fixings

19.10 Eterpan sheets must be fixed through the cavity battens to the wall framing at maximum 150 mm centres along sheet edges and in the body of the sheet

along studs. The fixings are at 200 mm centres along dwangs. The fixings must be positioned a minimum of 12 mm from all sheet edges, and a minimum of 100 mm vertically and 50 mm horizontally from sheet corners. The fastener heads must not break the sheet surface.

Jointing and Trowel Applied Plaster Finish System

19.11 Uniplast components and accessories must be installed by Uniplast Ltd's approved applicators. Application of the jointing and trowel applied plaster finish system must be carried out at an ambient temperature of between 10°C and 30°C.

Finishing

19.12 The paint coating manufacturer's instructions must be followed at all times for application of the paint finish. The plaster must be completely dry before commencing painting.

Inspection

19.13 The Technical Literature must be referred to during the inspection of VentClad Ventilated Cavity System installations by building consent authorities and territorial authorities.

Health and Safety

20.1 Safe use and handling procedures for the components that make up the VentClad Ventilated Cavity System are provided in the relevant manufacturer's Technical Literature.

20.2 Cutting of Eterpan sheets must be carried out in well ventilated areas, and a dust mask and eye protection must be worn. When power tools are used for cutting, grinding or forming holes, safety measures as set out in the Technical Literature must be undertaken because of the amount of dust generated.

The following is a summary of the technical investigations carried out:

Tests

21.1 The following testing has been completed by BRANZ:

- The Uniplast jointing and trowel applied plaster finish system has been tested to BRANZ EM4 over 7.5 mm Eterpan sheet.
- Testing was carried out to determine the face load pressure resistance of Eterpan sheet.
- Testing was carried out to determine the performance of Eterpan fibre cement sheet under hard body impact.

21.2 Testing has been carried out by Window Engineering Consultants to BRANZ Draft E2/VM1 testing protocol. The testing was observed by a BRANZ technical expert. The results have been reviewed by BRANZ and found to be satisfactory. In addition to the weathertightness test, the details contained within the Technical Literature have been reviewed, and an opinion has been given by BRANZ technical experts that the system will meet the performance levels of Acceptable Solution E2/AS1 Third Edition June 2004 for drained cavity claddings.

Other Investigations

22.1 Structural, durability and weathertightness opinions have been given by BRANZ technical experts.

22.2 Site inspections have been carried out by BRANZ to assess the practicability of installation, and to examine completed installations.

22.3 The manufacturer's Technical Literature has been examined by BRANZ and found to be satisfactory.

Quality

23.1 The manufacture of Eterpan fibre cement sheet by Eternit Guangzhou Co. Ltd has been assessed by BRANZ, including the methods for quality control. Details regarding the quality and composition of the materials used were obtained and found to be satisfactory.

23.2 The quality of materials, components and accessories supplied by PBS Distributors Ltd are the responsibility of PBS Distributors Ltd. The quality control system of PBS Distributors Ltd has been assessed by BRANZ and found to be satisfactory.

23.3 The manufacture of the Uniplast jointing and trowel applied plaster coating system by Uniplast Ltd has been assessed by BRANZ, including the methods for quality control. Details regarding the quality and composition of the materials used were obtained and found to be satisfactory.

23.4 Quality of installation on site of components and accessories supplied by PBS Distributors Ltd and the building contractor is the responsibility of the installer.

23.5 Quality of installation on site of the Uniplast jointing and trowel applied plaster finish system is the responsibility of the Uniplast Ltd approved applicator.

23.6 Designers are responsible for the building design, and building contractors are responsible for the quality of installation of framing systems and joinery, building wraps, flashing tapes, airseals, joinery head flashings, cavity battens and Eterpan fibre cement sheets in accordance with the instructions of PBS Distributors Ltd.

23.7 Building owners are responsible for the maintenance of the VentClad Ventilated Cavity System in accordance with the instructions of PBS Distributors Ltd.

Sources of Information

- AS/NZS 2908.2: 2000 Cellulose-cement products - flat sheet.
- AS/NZS 4534: 2006 Zinc and zinc/aluminium-alloy coatings on steel wire.
- NZS 3602: 2003 Timber and wood-based products for use in building.
- NZS 3603: 1993 Timber structures standard.
- NZS 3604: 1999 Timber framed buildings.
- NZS 4211: 1985 Specification for performance of windows.
- BRANZ Evaluation Method No. 4 (2004) Test procedure for coating and jointing systems for flush finished fibre cement sheet cladding, 7 March 2005.
- New Zealand Building Code Handbook and Approved Documents, Building Industry Authority, 1992.
- Approved Document for New Zealand Building Code External Moisture Clause E2, Building Industry Authority, Third Edition June 2004.
- The Building Regulations 1992, up to, and including October 2004 Amendment.



In the opinion of BRANZ, the VentClad Ventilated Cavity System is fit for purpose and will comply with the Building Code to the extent specified in this Certificate provided it is used, designed, installed and maintained as set out in this Certificate.

The Appraisal Certificate is issued only to the Certificate Holder, PBS Investments Ltd, and is valid until further notice, subject to the Conditions of Certification.

Conditions of Certification

1. This Certificate:
 - a) relates only to the product as described herein;
 - b) must be read, considered and used in full together with the technical literature;
 - c) does not address any Legislation, Regulations, Codes or Standards, not specifically named herein;
 - d) is copyright of BRANZ.
2. The Certificate Holder:
 - a) continues to have the product reviewed by BRANZ;
 - b) shall notify BRANZ of any changes in product specification or quality assurance measures prior to the product being marketed;
 - c) abides by the BRANZ Appraisals Services Terms and Conditions.
3. The product and the manufacture are maintained at or above the standards, levels and quality assessed and found satisfactory by BRANZ.
4. BRANZ makes no representation as to:
 - a) the nature of individual examples of, batches of, or individual installations of the product, including methods and workmanship;
 - b) the presence or absence of any patent or similar rights subsisting in the product or any other product;
 - c) any guarantee or warranty offered by the Certificate Holder.
5. Any reference in this Certificate to any other publication shall be read as a reference to the version of the publication specified in this Certificate.

For BRANZ

P Robertson
Chief Executive

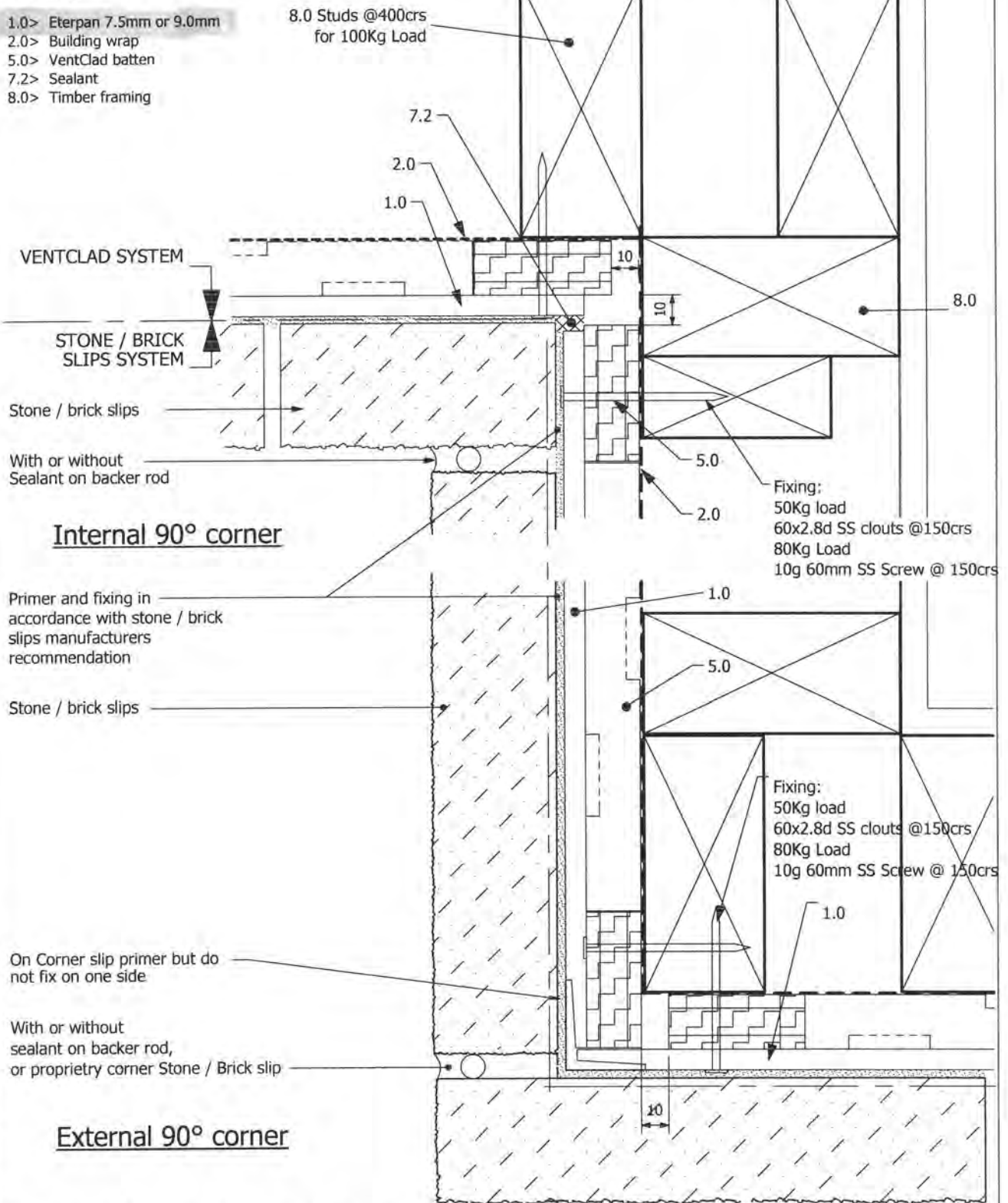
Amendment No. 1, dated 28 March 2007.

The Appraisal Certificate has been amended to update the Certificate format, update reference to AS/NZS 4534, remove reference to AS 3566 and to include reference to other BRANZ Appraised jointing and texture finish systems.

Date of issue: 1 April 2005

Key to tags

- 1.0> Eterpan 7.5mm or 9.0mm
- 2.0> Building wrap
- 5.0> VentClad batten
- 7.2> Sealant
- 8.0> Timber framing



Horizontal section through framing

VentClad

Ventilated Cladding System - Stone / Brick Slips - 50, 80 & 100Kg Loads

Scale:

1:2

Date:

1/06/05

pbs group
freephone 0800 2255 727

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tel: 09 477 0960, fax: 09 477 0961
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DWG. No.

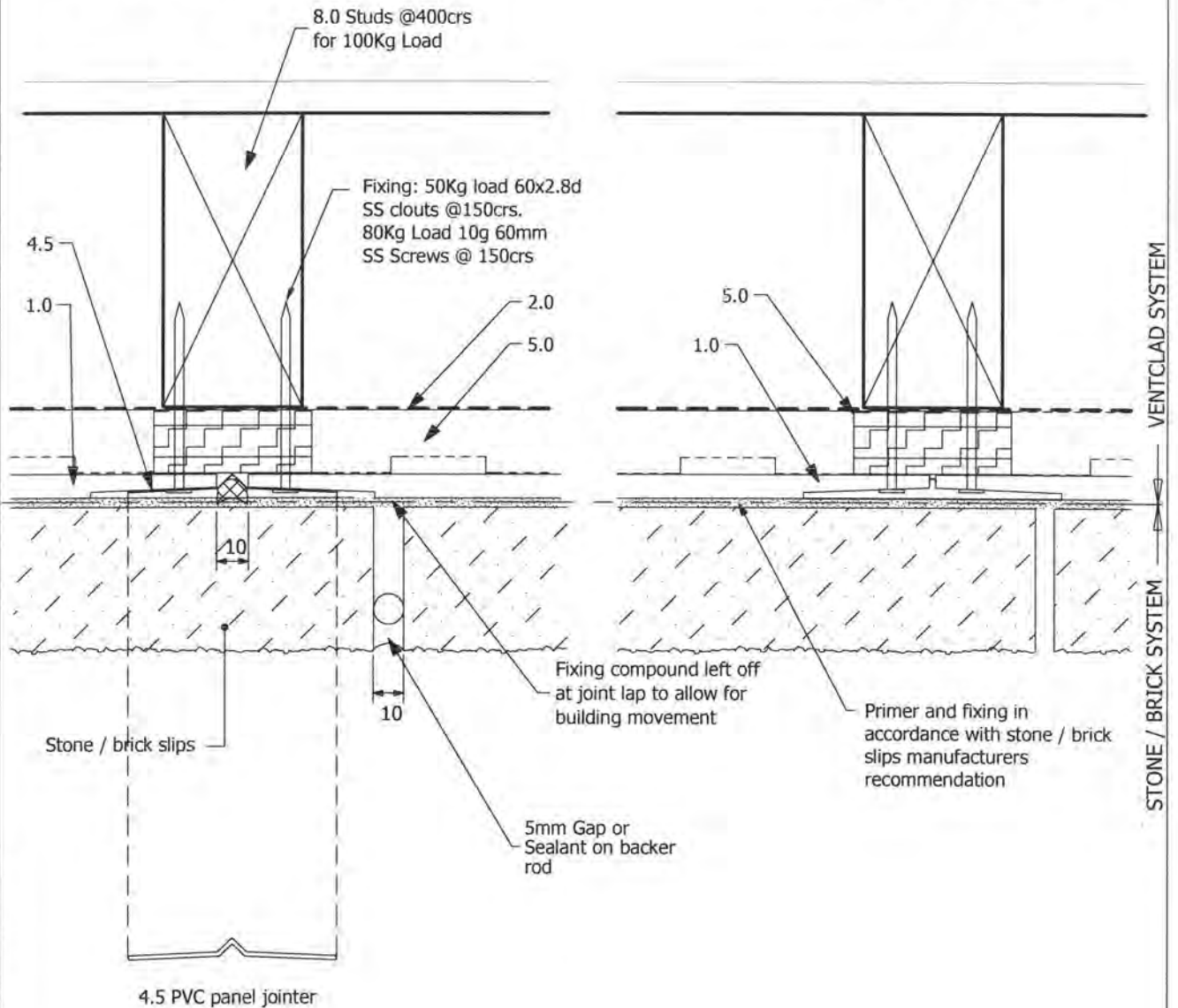
VC.6.5.12

Key to tags

- 1.0> Eterpan 7.5mm or 9.0mm
- 2.0> Building wrap
- 4.5> PVC panel jointer
- 5.0> VentClad batten
- 7.2> Sealant
- 8.0> Timber framing

Control joint at stud

Panel joint at stud



Horizontal section through exterior wall

VentClad

Ventilated Cladding System - Stone / Brick Slips - 50, 80 & 100Kg Loads

Scale:

1:2

Date:

1/06/05

pbs group
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DWG. No.

VC.6.5.11









Aztec Stone Ltd.
PO Box 31911
Milford
North Shore City
09 478 1378

The VentClad Cavity System with Eterpan Fibre Cement Board over, as detailed in PBS Data Sheets VC.6.2.08 through to VC.6.5.12, is a suitable substrate for the adhesive fixing of Stone Slips and complies with the criteria as set out in the **New Building Code (NZBC)** as follows:

- **B1 Structure:** Performance B1.3.1, B1.3.2, B1.3.4 and for relevant physical conditions of B1.3.3.
- **B2 Durability:** The system meets Performance B2.3.1 (b), not less than 15 years. The durability of Eterpan may be extended to 50 years when coated with a continuous waterproofing system and maintained that it remains impervious to liquid water.
- **E2 External Moisture:** Vertical walls incorporating this system as an exterior cladding can meet Performance E2.3.2 and E2.3.5.
- **F2 Hazardous Building Materials:** The system meets Performance F2.3.1 and the system will not present a health to people.

Eterpan over the VentClad Cavity System as a substrate for Aztec Stone

Maximum wet weight of stone 50kg/m²:

- Framing: Studs 600centres maximum. Nogs 800 centres maximum.
- Ventclad Cavity System over Tekton building wrap or Eterpan rigid air barrier.
- 7.5mm Eterpan fixed to all framing members with 60mm x 2.8mm SS clouts at 150mm maximum centres. Fixings to be minimum of 12mm from sheet edges and 100/50mm from each corner.

Maximum wet weight of stone 80kg/m²:

- Framing: Studs 600centres maximum. Nogs 800 centres maximum.
- Ventclad Cavity System over Tekton building wrap or Eterpan rigid air barrier.
- 9.0mm Eterpan fixed to all framing members with 63mm x 10g SS screws at 150mm maximum centres. Fixings to be minimum of 15mm from sheet edges and 100/50mm from each corner.

Assumptions:

- Framing sized and fixed in accordance with NZS 3604: 1999
- The recommendation for Eterpan does not cover ground or building subsidence; frame shrinkage; impact damage whether accidental or malicious; earthquake and flooding damage; or damage caused by wind speeds in excess of the basic directional wind speeds used in NZS 4203: 1992

Aztec Stone Ltd. to specify and warrant any pre sealing or water proofing of the Eterpan substrate and the adhesive system to be used.

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FAÇADE DESIGN SERVICES Ltd.

PO Box 522 Kumeu
Auckland, New Zealand
Tel: +64 9 4118 633
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E-mail: Ron@fds.co.nz

Producer Statement – Design

To: PBS Distributors Ltd

In relation to: Vent-Clad cladding system

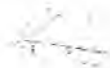
In respect to: Requirements of clause B1, B2, E2 of the first schedule of the building regulations 1992

Verification: This design has been verified in accordance with AS/NZ4284 "Testing of building facades"

Documents: Work must be carried out in accordance with PBS Distributors Ltd. drawings & specification. Refer to Vent-Clad drawing schedule dated 1/06/2005 for detailed list of approved drawings.

As a designer I have taken all reasonable steps to verify design assumptions. I am satisfied on reasonable grounds that in relation to the building work specified above the provisions of the building code would be met if the building work were properly completed in accordance with the drawings specifications and other documents according to which the building is proposed to be constructed.

Designer:



Date: 1/10/05

Qualification: ACE registered 1568

R.C. Hanley
Director
Facade Design Services Ltd.
ron@fds.co.nz

VentClad Quality Assurance Check Sheet

Project:		O.K. ✓	Req'd ✓	Re Check	O.K. ✓	Re Check	Date of O.K.
Operation: VentClad System; 7.5mm/9.0mm Eterpan Cladding - stone & brick slips							
Revision: D (May / 06)							
Work Sequence	Level/Zone						
VENTCLAD	Note: N/A = not applicable						
1.0 Framing Checks							
1.1	Water-proofing of deck/nib						
1.2	Check for double stud at window/door openings & internal corners						
1.3	Check alignment of framing i.e. Studs & nogs straight and true Upper framing aligning with lower framing						
1.4	Intermediate studs at centre < 600mm						
2.0 Air Seal							
2.1	Identify air seal						
2.1.1	Wind loading < 1550 kpa, can be building wrap						
2.1.2	Wind loading > 1550 kpa, must be 4.5 Eterpan or greater						
2.1.3	Fire rated to -/30/30 & < 1550kpa, can be building wrap						
2.1.4	Fire rated to -/60/60 must be 6.0mm AND require Etercore insulation within wall cavity						
2.2	Roof Flashing						
2.2.1	Fit lower roof flashings intersecting with upper framing with upstand behind building wrap & stop ended where necessary						
2.3	Building wrap						
2.3.1	Fixed with staples. Fix blue band (Polyprop Tape) vertically between studs > 300 cts or horizontally between nogs						
2.3.2	Repair all cuts & tears with duct tape						
2.3.3	Fold in around windows (4 sides)						
2.3.4	Tape the 4 corners and sill of each opening with Protecto tape. Apply spray adhesive to building wrap before fitting tape						
2.4	Rigid backer						
2.4.1	Fix with 40mm st.st clouts at 300 centres to all nogs & studs						
2.4.2	Edge distances; min 15.0mm						
2.4.3	Corner distances; min 100 & 50						
2.4.4	Perimeter seal with sealant.						
2.4.5	Tape the 4 corners and sill of each opening with Protecto tape. Prime contact area of rigid backer before fitting tape						
3.0 Batten & Flashing							
3.1	Fixings - Tack in place with 40mm fixings						
3.2	Set out horizontal battens						
3.2.1	Top (set 10.0mm below horizontal protrusion)						
3.2.2	Bottom (set flush with bottom plate)						
3.2.3	Fit horizontal batten to bottom of full Ht. windows/doors with top of batten flush with top of floor or retro fit aluminium angle						
3.3	Fit off flashings						
3.3.1	Vermin flashing to bottom batten (locates on moulded ridge)						
3.3.2	Fit off HF1/HF2 head flashing over windows (extend past by 50mm) Stop end Ali flashing if using in lieu of HF2						
3.3.3	Building wrap sits into HF1 flashing or upstand of Ali Flashing sealed to building wrap/air seal						
3.4	Fit off remainder of batten						
3.4.1	Horizontal above window fits into HF1 (45mm batten)						
3.4.2	Horizontal below window is set down 10mm (45mm batten)						
3.4.3	Vertical at window is set back 10mm (45mm batten)						
3.4.4	Verticals at all sheet joins (45mm batten)						
3.4.5	Verticals at all intermediate studs (max 600 cts) (45mm batten)						
3.4.6	Horizontals at all horizontal joints & nogs						
3.4.7	Horizontals at inter-storey refer to specific detail						
3.5	Penetrations						
3.5.1	Fit meter box using flashing kit refer to specific detail						
3.5.2	Install all pipe & duct penetrations and seal as per specific detail						

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P.O.Box 302202, North Harbour, North Shore City 1751

Project:		P.O.Box 302202, North Harbour, North Shore City 1751
Operation: VentClad System; 7.5mm/9.0mm Eterpan Cladding- stone & brick slip		
Revision: D (May / 06)		
Work Sequence	Level/Zone	
4.0 Cladding		
4.1	Fix off Eterpan sheets	
	Note which used 7.5mm ☐ or 9.0mm ☐	
	4.1.1 Sheets to oversail bottom plate by 50.0mm	
	4.1.2 Maintain ground clearances. Bottom of sheets to finish 35.0 mm clear of finished deck surface or 100.0 mm clear of paved surfaces or 175.0 mm clear of unpaved surfaces	
	4.1.3 7.5mm Fix with 60.0mm st.st clouts, 9.0mm fix with 60.0mm st.st screws	
	4.1.4 Centres max 150mm to perimeter, centre stud and noggs	
	4.1.5 Nail heads to finish firmly onto face of sheet (Not Flush)	
	4.1.6 Window flashings stop ended (Sealant if PVC)	
	4.1.7. Install Air Seal to window trim gap prior to fixing interior lining	
	4.1.8 Provide for vertical control joints @ 5.4m centres max	
5.0 Stone Slip		
5.1	Nominate type: Stone ☐	
	Brick slip ☐	
	Tile ☐	
5.2	Weight Kg/m ²	
SIGN OFF QUALITY ASSURANCE SHEET:-		Date:

REQUEST FOR PRODUCER STATEMENT

Site Address:-

Building

Consent No:-

Territorial

Authority:-

Fixer/ Builder

Trading Name:-

Contact Name:-

Postal Address:-

Contact Details:-

Phone:-

Fax:-

Mobile:-

E-mail:-

Date:

Please note all Producer Statement requests must be completed and signed

by fixer/ builder or a nominated company representative.

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Creative Building Solutions



Passive fire protection



ETERPAN 430

Data Sheet

General Description

Eterpan fibre cement board is a compressed, asbestos free, autoclaved homogeneous mixture of cement, natural mineral and organic fibres and selected mineral fillers.

Manufacturer

Eterpan is produced in Asia by the world's largest fibre cement manufacturer; the Belgium Eternit Group in accordance with accredited ISO9002 quality management systems. Eterpan sheets conform to the requirements of AS 2908.2-1992 Cellulose Cement Products, Part 2 Flat sheets.

Performance

Eterpan has been tested by **BRANZ** in their report **MTR 1083** to AS 2908.2 which defines standards of performance for flat sheets of cellulose-cement products. The results are summarised as follows:-

- (i) **Determination of Flexural Strength – Modulus of Rupture:-** Results gave Eterpan a category 2 for a type A board (external use) in AS 2908.2, section 6.
- (ii) **Determination of Water tightness:-** Requirements for a type A (external) sheet in AS 2908.2 met (i.e no water droplets on the reverse side of the sheet were evident).
- (iii) **Determination of Resistance to Hot Water Soaking:-** After hot water soaking the test samples did not show any visible cracks, structural alteration, or delamination as required in AS 2908.2 for type A (external sheets). The 95% confidence limit of the ratio of mean hot water MOR to mean control MOR was above 0.8 as also required.
- (iv) **Determination of Resistance to Heat/Rain:-** After heat/rain exposure, the test samples did not show any visible cracks, structural alteration, or delamination as required in AS 2908.2 for type A (external sheets).
- (v) **Determination of Resistance to Freeze/Thaw:-** After freeze/thaw exposure, the test samples did not show any visible cracks, structural alteration, or delamination as required in AS 2908.2 for type A (external sheets).

Code Compliance

Eterpan has a **BRANZ 50 year durability opinion**, ref **BDO 98/3** and meets the following performance criteria of the N.Z.B.C.

- (i) **Durability:-** When as a non structural part of the building envelope Eterpan meets the N.Z.B.C durability requirement of 15 years according to clause B2.3.1(b).
When as a structural part of the building envelope Eterpan meets the N.Z.B.C durability requirement of 50 years according to clause B2.3.1(a). Eterpan is producer guaranteed against physical or mechanical deterioration for 50 years.
- (ii) **Hazardous Building Materials:**
Eterpan is a non hazardous product according to N.Z.B.C Performance F2.

MATERIAL SAFETY DATA SHEET

1. DESCRIPTION

Product Identity Name

Eterpan 430

Usage

Building Material

Components

Calcium silicates hydrates >70%

Quartz >40%

Natural organic fibers >10%

Physical Characteristics

Appearance	:	Light Yellowish
Odour	:	No
Specific Gravity	:	1.25
PH (10% solu)	:	10
Boiling/Melting point (degrees Celsius)	:	Nil
Solubility in water	:	Nil
Viscosity	:	Nil
Vapour Pressure	:	Nil

Fire and Explosion Hazard Data

Flash Point	:	Nil
Non-combustibility rating	:	Limited combustibility
Extinguishing media	:	Nil
Special fire/explosion hazards	:	Nil
Special fire fighting procedures	:	Nil
Flammable limits	:	Nil

2. HEALTH AND HAZARD INFORMATION

Health Effects	:	Not considered a health hazard for normal use. No special precautions necessary
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Health Advice related to dust from cutting product

Swallowed	:	Wear approved SAA respirator The material may be irritating if swallowed. If swallowed give water or milk. Drink slowly. Seek medical advice
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Eye	:	Wear safety glasses. The material may cause abrasion to the eye. If this product comes in contact with the eyes hold the eye open and wash with fresh running water. If pain persists transport to doctor or hospital.
Skin	:	Wear overalls The material may be irritating to the skin If product irritates the skin, wash affected area with soap and water. Seek medical attention in the event of irritation.
Inhaled	:	Wear approved SAA respirator. The material may cause irritation to the upper respiratory tract and lungs.
Facilities	:	To special requirements.
Advice to doctor	:	Treat symptomatically.

3. **PRECAUTIONS FOR USE**

No special protection measures are normally required if product is used in the manner laid down by the manufacturer.

Dust Care	:	The use of appropriate dust extraction equipment linked to cutting machinery is recommended.
Exposure Standards	:	TLV TWA : 0.1 mg/m ³ quartz TLV TWA : 10 mg/m ³ , total dust containing no asbestos and not >1% free crystalline silica organic fibres
Engineering Controls	:	Not applicable
Personal Protection	:	Helmet, safety glasses, SAA respirator, overall protective gloves, safety footwear

Flammability	:	Not applicable
Fire Fighting Hazard	:	The material is not considered to be a significant risk

4. **SAFE HANDLING INFORMATION**

Storage and Transport

- No special requirements. Limit unnecessary personal contact.
- Use protective clothing as specified when cutting or drilling product.
- Avoid handling with incompatible materials. When handling DO NOT eat, drink or smoke.
- Always wash hands with soap and water after use and before eating and drinking.
- Use good occupation work practice. Work clothes should be laundered separately.

Spillage	:	Clean up all dust immediately
Disposal	:	Recycle where possible. Bury any waste in an authorised unit in accordance with local Authority and State Regulations

Fire/Explosion Hazard	:	Not applicable
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