

Statutory Forms

- Building Consent Form (Form 5)
- Original Application Form
- CT or Sales & Purchase Agreement
- ~~PIM, Resource Consent~~

PLEASE NOTE

- Although your Consent documentation states 24 hours notice is required, it is not always possible to carry out an inspection within the 24 hour period.
- It is important that you book your inspection at least 2-3 days in advance.
- Delays in your building project may occur if we are unable to carry out an inspection at short notice, particularly for concrete pours.
- If an inspection of the building works is not carried out in accordance with the Inspection Schedule it could affect the issue of the Code Compliance Certificate.

To book inspections ring WDC on
03 311 8240

All inspections are subject to a separate charge.

All reinspections will be charged and recorded separately even if other inspections are carried out on the same day.

Using engineers & other professionals

If an engineer has been engaged to carry out various site inspections you will need to provide copies of his/her site notices to us and a producer statement, call a PS4 from the engineer confirming the building elements designed and inspected by the engineer were completed in accordance with the approved design.

Confirmation of installation of products

We require producer statements, warranties & installation certificates from various installers as a way of confirming products have been installed in accordance with the manufacturers recommendations. These are commonly required for exterior claddings, wet area tanking, membrane roofing/decking and effluent fields. Energy certificates such as electrical and gas certificates need to be provided too. You will need to provide these to us prior to the issue of the Code Compliance Certificate.

Applying for a Code Compliance Certificate (CCC)

When you are satisfied your project is complete please book a final inspection and complete and sign *form 6*, application for Code Compliance Certificate which is enclosed with your building consent. You should have this form ready for when the building Inspector arrives on site to carry out the final inspection. Please note all outstanding monies must be paid prior to the issue of the CCC.

Grant or refuse a CCC

We are required to make a decision to grant or refuse a CCC if you do not formally apply for a CCC within two years of the granting of the building consent. The date your consent was granted is the date at the bottom of the building consent form. If you do not apply for a CCC or arrange an extension with us within the two year period we will carry out an inspection of the building work. An additional fee applies for this work.

Lapsing of your consent

Your building consent will lapse if building work has not commenced within 12 months after the date of issue of the building consent. The issue date is deemed to be the day you paid for the consent. In saying this we understand things don't always run smoothly so you can apply for a time extension which we may agree to. A fee applies for this.

Site Inspection Sheet

Application

D J & P G Humphreys	No.	130555
149 Hodgsons Road	Issue date	11/04/13
RD 2		
Rangiora 7472	Overseer	Stacey Garrett

Project

Description	New Haybarns Being Stage 1 of an intended 1 Stages Haybarn 9m x 6m
Intended Life	Indefinite, but not less than 50 years
Intended Use	Storage
Estimated Value	\$8,000
Location	149 Hodgsons Road, Loburn
Legal Description	Lot 2 DP 431621
Valuation No.	2149016011

This inspection list and all the approved plans relating to this building consent are to be kept on site and available to the building and/or plumbing and drainage inspector, or approved building certifier, on request.

Please give at least 24 hours notice for the next required inspection.

Work cannot proceed past each step until that step has been inspected and approved, and this form signed by the relevant inspector or certifier.

Name

Address

Signature

Plumber

Drainlayer

This sheet is to be returned to Waimakariri District Council when applying for your Code Compliance Certificate.

Note: If this form is not completed, the Code Compliance Certificate will not be issued until Council is satisfied that the building complies with the New Zealand Building Code.

When this project is completed this inspection sheet will be attached to the relevant property file held at the Council office.

Please note! The approved plans and this inspection sheet are to be available on site, on request, at all times.

3

Site Inspection Sheet

Post Holes

Final

Form 5

Building consent 130555

Section 51, Building Act 2004

The building

Street address of building: 149 Hodgsons Road, Loburn

Legal description of land where building is located: Lot 2 DP 431621

Valuation number: 2149016011

Building name:

Location of building within site/block number:

Level/unit number:

The owner

Name of owner: D J & P G Humphreys

Contact person:

Mailing address: 149 Hodgsons Road, RD 2, Rangiora 7472

Street address/registered office:

Phone number: Landline: 033128045

Mobile: 0212337608

Daytime:

After hours:

Facsimile number:

Email address: paulah@kiwichef.com.sg

Website:

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

As above

Building work

The following building work is authorised by this building consent:

Haybarn 9m x 6m

Storage

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

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

This building consent is subject to the following condition:

The Building Act 2004, s90, states that agents authorised by the building consent authority (the Council) for the purposes of this section are entitled, at all times during normal working hours or while building work is being done, to inspect –

- (a) land on which building work is being or is proposed to be carried out; and
- (b) building work that has been or is being carried out on or off the building site; and
- (c) any building.

This building consent is issued with the following advice notes:

1. This consent is issued subject to the attached Building Inspection Works Schedule:
2. Please note that the consent fees allow for a single inspection of construction stages of the project as specified in the inspection schedule. Any extra inspections required will be invoiced before a code compliance certificate is issued.
3. All boundary survey pegs must be located by discovery or redefinition before work is commenced.
4. Any special conditions of consent endorsed on the Building Consent and/or documents MUST be drawn to the attention of the subcontractors.
5. The duplicate copy of the approved consent documents and inspection schedule must remain on site during construction.
6. All inspections listed must be requested. It is advisable to give at least 48 Hours Notice.
7. Comply with the endorsements on the plan.
8. Stormwater to be contained within the property.
9. Please note that any material deviation from the approved documents will require a formal application for amendment. Amendments that are not of a material nature can be approved by a Building Officer or Building Inspector by way of the endorsement of the approved consent documentation and/or narrative on an inspection notice. For the sake of completeness examples of variations that are minor include: - Substituting one product for a similar product such as an internal lining, insulation, etc - Substituting the type of timber treatment - Minor wall bracing changes - A change to a component (e.g, fixing bracket) - Changing a room layout (fixtures and fitting in a bathroom/kitchen) - A construction change e.g, the framing method around a window
10. All relevant energy certificates will need to be supplied prior to the issue of the Code Compliance Certificate.
11. Your consent is issued subject to manufactures technical information about their products, installation and maintenance is to be as this technical information requires.

Compliance schedule

A compliance schedule is not required for the building.

Attachments

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

A handwritten signature in black ink, appearing to be 'S. M. J.', is shown above a horizontal line.

Signature

On behalf of: Waimakariri District
Council

Administration

Date: 11/04/13

Form 6

Application for code compliance certificate

Section 92, Building Act 2004

The building consent

Building consent number: 130555

Issued by: Waimakariri District Council

Valuation number: 2149016011

*The owner

Name of owner: D J & P G Humphreys

†Contact person:

Mailing address: 149 Hodgsons Road, RD 2, Rangiora 7472

Street address/registered office:

Phone number: Landline: 033128045

Mobile: 0212337608

Daytime:

After hours:

Facsimile number:

Email address: paulah@kiwichef.com.sg

Website:

The following evidence of ownership is attached to this application: [copy of certificate of title, lease, agreement for sale and purchase, or other document showing full name of legal owner(s) of the building]

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

As above^{||}

Application

All building work to be carried out under the above building consent was completed on 11/04/13

The personnel who carried out the building work are as follows:

I request that you issue a code compliance certificate for this work under section 95 of the Building Act 2004.

The code compliance certificate should be sent to: 149 Hodgsons Road, RD 2, Rangiora 7472 (Owner)

Signature of owner

Name of person signing

Date:

Attachments

The following documents are attached to this application:

[¶]Certificates from the personnel who carried out the work

[¶]Certificates that relate to the energy work

[¶]Evidence that specified systems are capable of performing to the performance standards set out in the building consent

*Delete this section if details have not changed from the building consent.

[†]Delete if owner is an individual.

[‡]Delete this section if the application is not being made on behalf of the owner.

[§]Delete if the agent is an individual.

^{||}Contact details must be in New Zealand.

[¶]Delete items not applicable.



Private Bag 1005, Rangiora 7440
Ph 03 311 8900, 03 327 6834 Fax 03 313 4432
www.waimakariri.govt.nz

APPLICATION FOR BUILDING CONSENT FOR SPECIFIED MINOR WORKS

Section 33 or 45, Building Act 2004 - Building (forms)
Regulations 2004 - Form 2

(Hay barns and sheds <100m², Specific Design (eg. Versatile, Skyline etc) Garage/Workshop <54m² without services or linings, Minor Residential Alterations <\$5000, Conservatory <16m², Sleepouts <14m², Residential Demolition or removal.

BC No.

130555

THE BUILDING

1. Site address (street/road/township):

149 Hodgsons Road

2. Legal Description of the land where the building is located:

Lot: 2 DP: 431621
Valuation Roll Number: 2149016011

Note: Only complete items here that are applicable to your project.

3. Building Name: (eg: where buildings have Official Names)

4. Location of Building within Site:

(only applicable to multi-development sites)

5. Number of Levels:

6. Level/Unit No:

6. Floor Area - Existing:

New:

Total:

7. Current Lawfully Established Use:

(eg: Use on any previous consent for the existing building)

8. Year Building First Constructed:

(only applicable to existing buildings, approximate date is acceptable, eg 1920's or 1960-1970)

THE APPLICANT / OWNER

9. Owner's Name: (Company or Organisation name)

DJ and PE Humphreys

10. Contact Person: (If Owner is not an Individual)

11. Mailing Address: 149 Hodgsons Rd
RD2 Rangiora Postcode: 7472

12. Street Address / Registered Office:

13. Contact Numbers:

Mobile: 0210233686 Daytime: 033128045

After hours:

14. Fax:

15. Email: paula@kiwichef.co.nz

16. The following evidence of ownership is attached to this application, eg:

✓ Copy of Certificate of Title (current within 1 month)

If Certificate of Title is not issued:

Signed copy of Sale and Purchase Agreement

AGENT / CONTACT

17. Name of Agent:

18. Contact Person:

19. Mailing / Billing Address:

20. Street Address / Registered Office:

21. Contact Numbers:

Mobile:

Daytime:

After hours:

22. Fax:

23. Email:

24. Authorisation from owner, see page 3 (required when application not signed by owner)

25. Note: The "Agent / Contact" will be the first point of contact for communications with the Council / Building Consent Authority regarding this Application / Building Work and will receive all correspondence including all invoices.

Date: 27-3-13
Signed: Craig McFarlane

Date: 2-4-13
Signed: Craig McFarlane

APPLICATION

Please refer to the minor works fees charges schedule.

26. I request that you issue a building consent (which includes a planning check) for the following project:

✓ Hay barn and shed <100m²

Garage/workshop <54m² (excludes masonry)

Minor residential alterations <\$5000

Conservatory <16m²

Sleepouts <14m²

Residential Demolition or Removal

Exemption from the need for B/C. (Refer Schedule 1, Section 'K' BA04).

APPLICATION (cont.)

27. Intended life of the building:

✓ Indefinite but not less than 50 years

Or specified as _____ years

Description of Work

Intended use of Building:

Hay barn 9x6

Storage

Estimated Value (incl GST) \$ 8000

For Office Use Only

Fee Paid on Application

\$ 835-00

Date 2-4-13

Receipt

580329

Officer

Craig Fagan

BUILDING CODE COMPLIANCE

28. The building work will comply with the Building Code as follows:

Clause

[tick relevant clause numbers of Building Code]

Means of compliance

[refer to the relevant compliance document(s) or detail of alternative solution in the plans and specifications; if not applicable, put n/a]

Waiver / modification required

[state nature of waiver or modification of building code required; if not applicable, put n/a]

B1 Structure

NZS 3604

NZS 1170

NZS 4229

Other:

B2 Durability

B2/AS1

NZS3101

NZS 3602

NZS3604

C1 Outbreak of fire

C/AS1

Other:

C2 Means of escape

C/AS1

Other:

C3 Spread of fire

C/AS1

Other:

C4 Structural stability during fire

C/AS1

Other:

D1 Access routes

D1/AS1

NZS4121

Other:

D2 Mechanical installations for access

D2/AS1

NZS4332

EN81

EN115

Other:

E1 Surface water

E1/AS1

AS/NZS 3500.3

Other:

E2 External moisture

E2/AS1

Other:

E3 Internal moisture

E3/AS1

Other:

F1 Hazardous agents on site

F1/AS1

Other:

F2 Hazardous building materials

F2/AS1

NZS4223

Other:

F3 Hazardous substances and processes

F3/AS1

Other:

F4 Safety from falling

F4/AS1

Other:

F5 Construction and demolition hazards

F5/AS1

Other:

F6 Lighting for emergency

F6/AS1

Other:

F7 Warning systems

F7/AS1

Other

BUILDING CODE COMPLIANCE (cont.)**Clause***[tick relevant clause numbers of Building Code]***Means of compliance***[refer to the relevant compliance document(s) or detail of alternative solution in the plans and specifications; if not applicable, put n/a]***Waiver / modification required***[state nature of waiver or modification of building code required; if not applicable, put n/a]*

F8 Signs	F8/AS1	Other
G1 Personal hygiene	G1/AS1	Other
G2 Laundering	G2/AS1	Other
G3 Food preparation and prevention of contamination	G3/AS1	Other
G4 Ventilation	G4/AS1	AS1668.2
		Other
G5 Interior environment	G5/AS1	Other
G6 Airborne and impact sound	G6/AS1	Other
G7 Natural light	G7/AS1	Other
G8 Artificial light	G8/AS1	Other
G9 Electricity	G9/AS1	Other
G10 Piped services	G10/AS1	NZS5261
		Other
G11 Gas as an energy source	G11/AS1	Other
G12 Water supplies	G12/AS1	Other
G13 Foul water	G13/AS1	AS/NZS 3500.2
	G13/AS2	Other
G14 Industrial liquid waste	G14/AS1	Other
G15 Solid waste	G15/AS1	Other
H1 Energy efficiency	H1/AS1	NZS4218
	NZS4243	Alf Design Manual
		Other

AGENT AUTHORISATION**29. I authorise**

to act as my agent on my behalf

for the building consent process.

Signed:

Date:

For Office Use OnlyFurther information required? Y ☐ N ☒Application accepted? Y ☒ N ☐

Date of acceptance: 27-3-13

Further information provided? Y ☐ N ☐

Officer: Craig Myer

BUILDING CODE COMPLIANCE (cont.)**Clause**

[tick relevant clause numbers of Building Code]

Means of compliance

[refer to the relevant compliance document(s) or detail of alternative solution in the plans and specifications; if not applicable, put n/a]

Waiver / modification required

[state nature of waiver or modification of building code required; if not applicable, put n/a]

F8 Signs	F8/AS1	Other
G1 Personal hygiene	G1/AS1	Other
G2 Laundering	G2/AS1	Other
G3 Food preparation and prevention of contamination	G3/AS1	Other
G4 Ventilation	G4/AS1	AS1668.2
		Other
G5 Interior environment	G5/AS1	Other
G6 Airborne and impact sound	G6/AS1	Other
G7 Natural light	G7/AS1	Other
G8 Artificial light	G8/AS1	Other
G9 Electricity	G9/AS1	Other
G10 Piped services	G10/AS1	NZS5261
		Other
G11 Gas as an energy source	G11/AS1	Other
G12 Water supplies	G12/AS1	Other
G13 Foul water	G13/AS1	AS/NZS 3500.2
	G13/AS2	Other
G14 Industrial liquid waste	G14/AS1	Other
G15 Solid waste	G13/AS1	Other
H1 Energy efficiency	H1/AS1	NZS4218
	NZS4243	Alf Design Manual
		Other

AGENT AUTHORISATION

29. I authorise

to act as my agent on my behalf

for the building consent process.

Signed:

Date:

For Office Use OnlyFurther information required? Y ☐ N ☒Application accepted? Y ☒ N ☐

Date of acceptance: 27-3-13

Further information provided? Y ☐ N ☐

Officer: Craig Myer

RESTRICTED BUILDING WORK

30. Will the building work include any restricted building work? Y N 

If Yes, provide the following details of all licensed building practitioners who will be involved in carrying out or supervising the restricted building work: *[If these details are unknown at the time of the application, they must be supplied before the work begins].*

NB: Site inspections will not be undertaken until the name, licensing class, and practitioner/registration number of the LBPs has been provided.

Licence Class	Name	Licensed Building Practitioner Number (or registration number if treated as being licensed under section 291 of the Building Act 2004)
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Foundations		
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Carpentry		
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Exterior Plasterer		
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Bricklayer		
------------	--	--

Blocklayer		
------------	--	--

Roofer		
--------	--	--

KEY PERSONNEL**31. DESIGNER(S)**

Name:

Reg. N^o:

Address:

Phone N^o:

Email:

Fax N^o:**32. STRUCTURAL ENGINEER**

Name:

Reg. N^o:

Address:

Phone N^o:

Email:

Fax N^o:**33. GEOTECH ENGINEER**

Name:

Reg. N^o:

Address:

Phone N^o:

Email:

Fax N^o:**34. CERTIFYING PLUMBER**

Name:

Reg. N^o:

Address:

Phone N^o:

Email:

Fax N^o:**35. CERTIFYING DRAINLAYER**

Name:

Reg. N^o:

Address:

Phone N^o:

Email:

Fax N^o:**36. CERTIFYING GASFITTER**

Name:

Reg. N^o:

Address:

Phone N^o:

Email:

Fax N^o:**37. REGISTERED ELECTRICIAN**

Name:

Reg. N^o:

Address:

Phone N^o:

Email:

Fax N^o:**COMPLIANCE SCHEDULE**38. Are there any specified systems contained within the building? Y ☐ N ☐39. Are any of the specified systems being altered? Y ☐ N ☐

40. If so, which ones:

NOTES BY APPLICANT

41. Any other information that will help us process your application?

BUILDING CONSENT

42. The following documents are attached to this application:

1 copy - building plans (site plans, floor plans, elevation plans) (one set of plans only must be A3 or A4 size)

1 copy of each - specifications, producer statements, truss details (refer below)

1 copy - Certificate of Title (current within 1 month, if not current title, then a signed copy of Sales & Purchase Agreement)

All plans to be dimensioned, scaled and accurate

☐ Development Contribution Notice (if applicable) Key Personnel - see page 3

☐ Restricted Building Work Certificates

43. See page 2 for a Schedule confirming the Building Work will comply with the Building Code.

APPLICATION INFORMATION

Building Consent processing time stops when further information is requested, and starts again when the correct information has been received.

Council are required to collect levies for the Department of Building and Housing and BRANZ; these levies are based on the value of works over \$20,000. If your project is valued over \$20,000, the fixed fee will increase by the value of the DBH and BRANZ levies.

Work must not start until the Building Consent is issued, and any Resource Consent requirements have been resolved.

Under the Building Act 2004 this consent may lapse 12 months after issue if work has not commenced.

INSPECTIONS

During the process of construction, inspection will be necessary to confirm all work complies with your approved Building Consent documentation. Please ring the Council on 03 311 8900 well in advance of requiring an inspection to ensure that a time can be arranged.

The inspections required will be set out in the Building Consent documentation issued by the Council. Failure to have a prescribed inspection carried out may put the issue of the Code Compliance Certificate at risk.

Failed inspections will incur a re-inspection charge.

BUILDING CODE COMPLIANCE

Application for project information memorandum and/or building consent

The building work will comply with the building code as follows:

[if you are not sure which clauses are applicable, consult with your builder, designer, or architect]

Clause [tick relevant clause numbers of Building Code]	Means of compliance [refer to the relevant compliance document(s) or detail of alternative solution in the plans and specifications; if not applicable, put n/a]	Waiver / modification required [state nature of waiver or modification of building code required; if not applicable, put n/a]
☒ B1 Structure		
☒ B2 Durability		
C1 Outbreak of fire		
C2 Means of escape		
C3 Spread of fire		
C4 Structural stability during fire		
D1 Access routes		
D2 Mechanical installations for access		
E1 Surface water		
E2 External moisture		
E3 Internal moisture		
F1 Hazardous agents on site		
F2 Hazardous building materials		
F3 Hazardous substances and processes		
F4 Safety from falling		
F5 Construction and demolition hazards		
F6 Lighting for emergency		
F7 Warning systems		
F8 Signs		
G1 Personal hygiene		
G2 Laundering		
G3 Food preparation and prevention of contamination		
G4 Ventilation		
G5 Interior environment		
G6 Airborne and impact sound		
G7 Natural light		
G8 Artificial light		
G9 Electricity		
G10 Piped services		
G11 Gas as an energy source		
G12 Water supplies		
G13 Foul water		
G14 Industrial liquid waste		
G15 Solid waste		
H1 Energy efficiency		

All the relevant information on this form is required to be provided under the Building Act and Resource Management Act for the Waimakariri District Council to assess your application. Under these Acts this information has to be made available to members of the public. The information contained in this application may be made available to other units of the Council. You have the right to access the personal information held about you by the Council which can be readily retrieved. You can also request that the Council correct any personal information it holds about you.

APPLICANT'S SIGNATURE

Signed by or for and on behalf of the Applicant

☒ Owner ☐ or Agent

Date:

27/03/13

Note: if acting "for and on behalf", please read the following declaration before signing - "I hereby declare that I am authorised to act as Agent of the Applicant". **NB: Ensure agent authorisation section is completed - see page 2.**

I wish to receive my building consent and approved documentation in the following format:

☐ Electronically via File Transfer Portal ☐ on CD ☐ Hard copy

The CD or hard copy documents are to be collected from Rangiora Service Centre unless arrangements have been made to have these delivered to you.

Garages

NON-HABITABLE

DATE:

PROJECT:

Example

The building work will comply with the building code as follows:

Clause [tick relevant clause numbers of building code]	Means of compliance [refer to the relevant compliance document(s) or detail of alternative solution in the plans and specifications; if not applicable, put n/a]	Waiver/modification required [state nature of waiver or modification of building code required; if not applicable, put n/a]
☒ B1 Structure	NZS 3604 NZS 3604:1993 NZS 4203:1993	Specific design
☒ B2 Durability	B2/AS1	
☐ C1 Outbreak of fire		
☐ C2 Means of escape		
☐ C3 Spread of fire		
☐ C4 Structural stability during fire		
☐ D1 Access routes		
☐ D2 Mechanical installations for access		
☒ E1 Surface water	E1/AS1	
☒ E2 External moisture	E2/AS1	
☐ E3 Internal moisture		
☐ F1 Hazardous agents on site		
☐ F2 Hazardous building materials		
☐ F3 Hazardous substances and processes		
☐ F4 Safety from falling		
☐ F5 Construction and demolition hazards		
☐ F6 Lighting for emergency		
☐ F7 Warning systems		
☐ F8 Signs		
☐ G1 Personal hygiene		
☐ G2 Laundering		
☐ G3 Food preparation and prevention of contamination		
☐ G4 Ventilation		
☐ G5 Interior environment		
☐ G6 Airborne and impact sound		
☐ G7 Natural light		
☐ G8 Artificial light		
☐ G9 Electricity		
☐ G10 Piped services		
☐ G11 Gas as an energy source		
☐ G12 Water supplies		
☐ G13 Foul water		
☐ G14 Industrial liquid waste		
☐ G15 Solid waste		
☐ H1 Energy efficiency		

**COMPUTER FREEHOLD REGISTER
UNDER LAND TRANSFER ACT 1952****Search Copy**

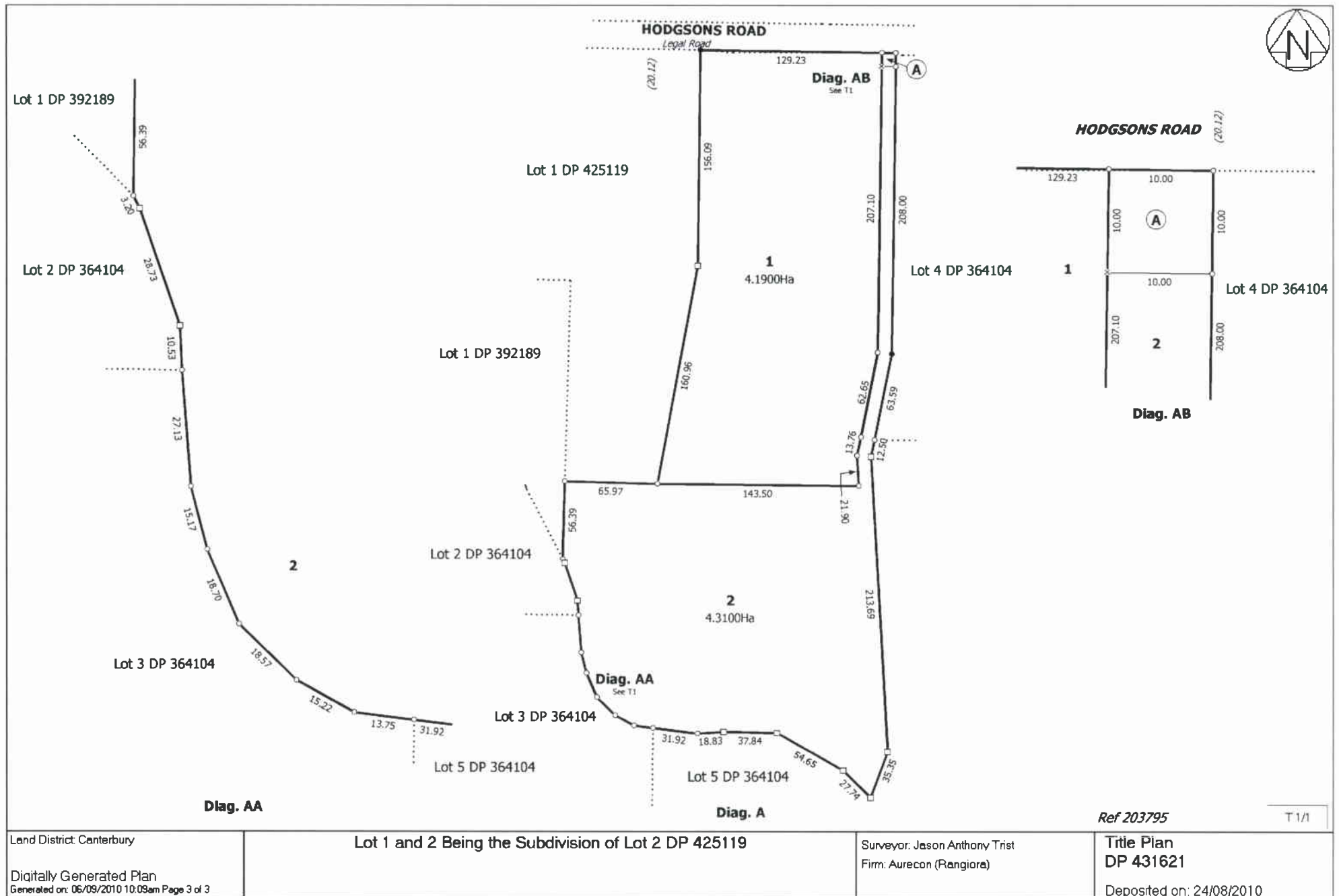
Identifier 522121
Land Registration District Canterbury
Date Issued 24 August 2010

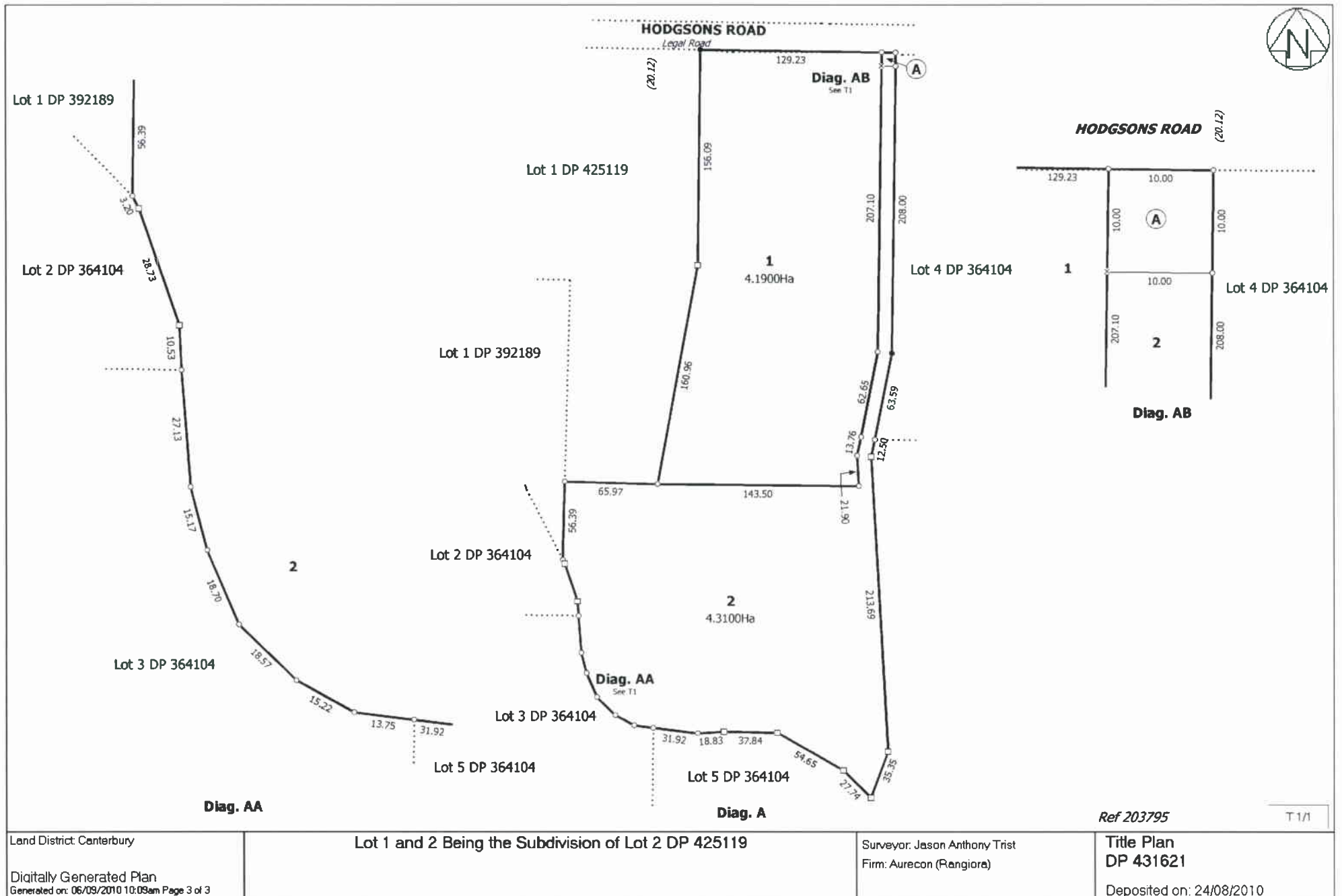
Prior References
499184

Estate Fee Simple
Area 4.3100 hectares more or less
Legal Description Lot 2 Deposited Plan 431621
Proprietors
David John Humphreys and Paula Gail Humphreys

Interests

Subject to a right of way over part marked A on DP 431621 created by Easement Instrument 8568971.3 - 24.8.2010 at 5:33 pm
The easements created by Easement Instrument 8568971.3 are subject to Section 243 (a) Resource Management Act 1991
8919897.1 Mortgage to Westpac New Zealand Limited - 24.11.2011 at 8:25 am





Technical Information

(Manufacturer's Information)

- Producer Statement
- Specifications
- Details
- ~~Effluent System (ECAN) Approval~~
- ~~Well Test~~



WAIMAKARIRI DISTRICT COUNCIL
Plans and specifications APPROVED in accordance
with the Building Act 2004, clause 49 and the Building
Regulations 1992, Clause 3
BC130555 11/04/2013 staceyg

Producer Statement – PS1 – Design

ISSUED BY: Specific Engineering Design Limited

TO BE SUPPLIED TO: Building Consent Authorities in New Zealand

IN RESPECT OF: Versatile Buildings Standfast Lean-To Isolated Farm Buildings

AT: Various Locations in New Zealand

Specific Engineering Design Limited has been engaged to provide engineering design services in respect of the requirements of Clause (s) B1 of the Building Regulations 1992.

Part only as specified, purlins, rafters, girts, posts and building stability of the proposed building work.

The design has been prepared in accordance with AS/NZS1170, NZS3603, NZS3604, approved documents of the NZ Building Code and the work as described on Versatile Buildings drawings titled Standfast Lean-To Building Ver 1.0, Pages 1-5, and the specification and other documents according to which the building is proposed to be constructed.

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

1. The verification of the following design assumptions:
 - i) Importance Level 1, Design working life 50 years
 - ii) Light roof and no ceiling
 - iii) Modified Very High Wind Zone
 - iv) Snow Load $s_g = 1.35\text{kPa}$
 - v) The structure is supporting on good ground – NZS3604 Section 3, with a soil ultimate bearing capacity 300kPa , $\phi_b = 0.5$
2. All proprietary products meeting the performance specification requirements, the drawings, specifications, and other documents according to which the building is proposed to be constructed comply with the relevant provisions of the building code.

I believe on reasonable grounds that the drawings, specifications, and other documents according to which the building is proposed to be constructed comply with the relevant building code.

Claude Antony Carter Cook
BE (Hons), CPEng, IntPE
MIPENZ (ID:240891)

Job Details	Date: 29.3.13
Client Name:	D.J. & P.G. HUMPHREYS
Job Address:	149 Hodgsons Rd Loburn
Wind Zone:	Very High
Earthquake Zone:	2

Date: 13 March 2013



MiTek New Zealand Ltd.

CHRISTCHURCH
14 Pilkington Way,
PO Box 8387 Christchurch 8440,
Phone: (03) 348 8691
Fax: (03) 348 0314

AUCKLAND
40 Neales Road, East Tamaki
PO Box 58-014, Greenmount
Phone: (09) 274 7109
Fax: (09) 274 7100

HOME OF **GANG-NAIL®** BUILDING SYSTEMS

www.mitek.nz.co.nz

FARM BUILDING DESIGN INFORMATION – STAND-FAST LEAN-TO

LOADS and TIMBER

- Radiata Pine or Douglas Fir VSG8 $f_b = 14$ MPa, $E = 8$ GPa, VSG10 $f_b = 20$ MPa, $E = 10$ GPa
- The determination of characteristic stresses, joint design, and dimensions has been based on the dry in service conditions

DESIGN LOADS

- Dead loads for Light Roof – 0.25kPa (includes weight of purlins, associated framing and galvanized iron roof).
- Live loads – 1.1kN concentrated load, 0.25kPa uniform load.
- The enclosed charts have been designed for a Building Importance level 1, with 50 years working life. Refer to AS/NZS 1170.0:2002.
- Wind loads – building designed for a modified VERY HIGH
- Snow Loads - building designed for $s_g = 1.35$ kPa
- Soil conditions – ALL foundations to be into natural ground with a minimum bearing capacity of 300 kPa, $\phi_b=0.5$

DESIGN LOAD REFERENCES

Compliance Document for the New Zealand Building Code Clause B1 Structure Amendment 11

NZS3603: 1993 Amendment 4

NZS 3604: 2011

AS/NZS 1170 Part 0: 2002

AS/NZS 1170 Part 1: 2002

AS/NZS 1170 Part 2: 2002

AS/NZS 1170 Part 3: 2003

ANSI/TPI1 – 2002

Cited Verification Method

Cited Acceptable Solution

Cited Verification Method

Cited Verification Method

Cited Verification Method

Cited Verification Method

Alternative Solution

WAIMAKARIRI DISTRICT COUNCIL
Plans and specifications APPROVED in accordance
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Regulations 1992, Clause 3
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BUILDING ERECTION

Proper bracing must be installed to hold the components true and plumb and in a safe condition until permanent bracing is fixed. All permanent bracing and fixings must be installed before applying any loads.

LOAD DETAILS

These drawings have been prepared using the above design loads.

It is the responsibility of the user to ensure that the design data and loads are still correct at the time of construction.

PRODUCT SPECIFICATION

These details have been designed using specific **GANG-NAIL®**, **LUMBERLOK®** AND **BOWMAC®** products and the performance of the building and validity of the Producer Statement is reliant on the correct choice of product.

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TIMBER TREATMENT SCHEDULE (To be completed by Building Consent Applicant):

The timber treatment specification is to be in accordance with NZS 3602:2003 and NZS 3640:2003.

Wood-based building component	Tick if Applicable	Species or Type	Level of Treatment to NZS 3640 or AS/NZS 1604 ⁽³⁾
Poles (rounded –typically embedded into ground)		Radiata Pine	H5
Posts (rectangular –embedded into ground)		Radiata Pine	H5
Posts (rectangular –fixed to surface)		Radiata Pine	H5
Rafters (component supporting the purlins)		Douglas Fir	H1.2
Purlins (components supporting roofing material)		Douglas Fir	H1.2
Girts (structure supporting wall cladding)		Douglas Fir	H1.2
Props (component supporting the rafter)		Douglas Fir	H1.2
Blocking (component separating the rafter)		Douglas Fir	H1.2

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VERSATILE BUILDINGS MANUFACTURER'S STATEMENT – DURABILITY

Versatile farm buildings have been designed using the external metal cladding on the walls and roof.

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

Range of Product and Use

- Specification: AS1397: 2001
- Coating Type: Zinc/Aluminium & painted
- Steel thickness range: 0.35mm – 0.95mm BMT
- Steel grade range: G300 – G550
- Application: Standard Versatile cladding on Importance Level 1 as per AS/NZS1170.0:2002
- Fasteners: Heavy Zinc or Zinc-tin coated clouts to comply with AS3566.2-2002 Classes 3 & 4.
Aluminium rivets for all steel components. IFI 114:1986

Requirements, Limitations and Exclusions

- Applicable to buildings in Sea-Spray zone and exposure zones A,B,C & D in accordance with Clause 4, Durability, NZS 3604:2011 which is an acceptable solution under clause B2 of the NZBC.
- Fixing and installation of the cladding must be done exactly in accordance with Versatile Buildings Fixing Guide
- Normal and regular maintenance must be carried out on the exterior surface of the cladding and the following guide must be followed to ensure the durability requirements are met.

Regular Maintenance

- **Exposure zones A, B, C & D. (All areas other than sea spray zones – see below)**
Rain washing only required on exposed sections, sheltered or protected areas such as under spouting, top cladding boards and tops of doors require washing every 3 months.
- **Sea Spray Zones (Within 500m from the sea or 100m from sheltered harbours or inlets) and areas of Geothermal Activity**
Rain-washing only required on exposed areas. Sheltered and protected areas such as under spouting, top cladding boards and tops of doors require washing down every month and whenever corrosive salts are present.

Extended Maintenance, Painting or Repainting

- **Extended Durability**
Once the metallic coating or the paint system has weathered away, signs of red rust for bare material or signs of the metallic coating for painted material, painting of the entire surface is required to extend the life of the cladding product. Paint manufacturers recommendations are to be followed for surface preparation and paint type to be used.
- **Evident Corrosion**
Areas that show signs of white or red rust/corrosion (typically in unwashed areas) require cleaning back with a stiff brush and cleaner to remove all dust, surface contaminants and corrosion products and present a sound substrate for painting. Priming of the surface and application of two coats of paint as per the Paint Manufacturer's recommendations is then required.
Particular attention needs to be paid to laps (side, end, flashing etc) where earlier corrosion may start due to moisture and dirt entrapment.
If evident corrosion is not treated quickly rapid deterioration of the sheet may occur which could result in perforation. At this stage replacement of the affected sheet is the best option.

References

1. NZS 3604:2011, clause 4, Durability.
2. Versatile Buildings Assembly Instructions
3. New Zealand Building Code 2004

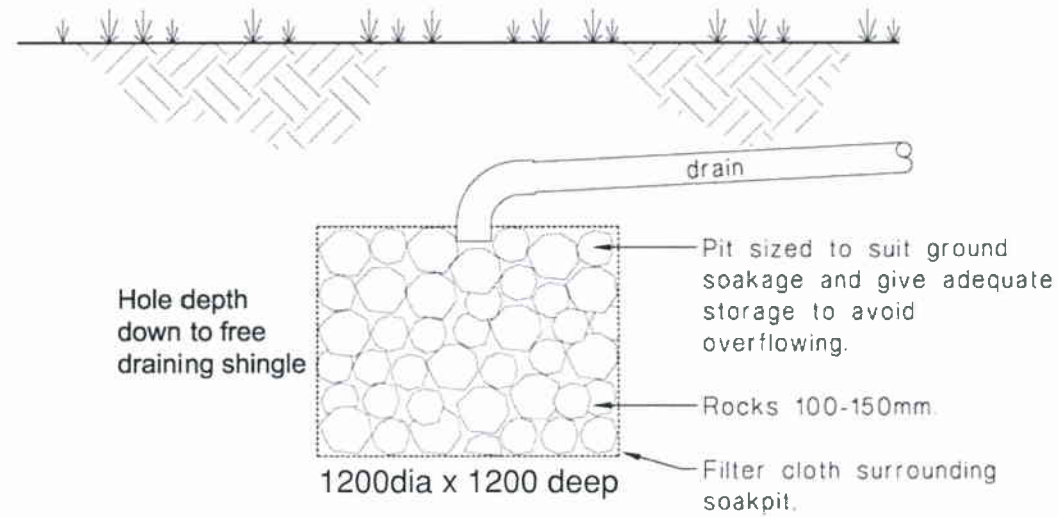
Versatile Buildings
112 Waterloo Road
Christchurch
NEW ZEALAND

Dated: 1st February 2012

SURFACE WATER

Verification Method E1/VM1

Figure 13: Soak Pit for Surface Water Disposal
Paragraph 9.0.4



(a) Rock soak pit

Compliant with NZBC E1