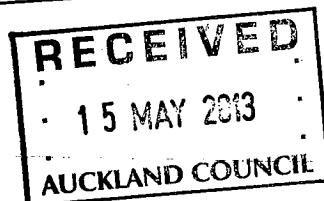


		IH		Council copy				
Book in date: 03/05/2013		Hutchinson job number: 16136						
Clients name: Sandspit Holiday Park		Clients job number: —						
Site address: 1334 Sandspit Road		Contractors name: Kevin Rile						
Locality: Sandspit		Contractors number: 021585561						
Date inspection required: 07/05/2013		Mon	Tues	Wed	Thurs	Fri	Sat	Sun
Time inspection required: 8:00a.m. - 12:00p.m.		Inspection type: Foundations						
Timeframe window for inspection: 8:00a.m. - 12:00p.m.		Time of concrete pour: PM						
Building consent number: ABA-1014136		Lot: —		DP: —				
Resource consent number: L-159778		Geotechnical engineer:						
Plans prepared by:		Drawings numbers:						

FIELD NOTES/SKETCH:



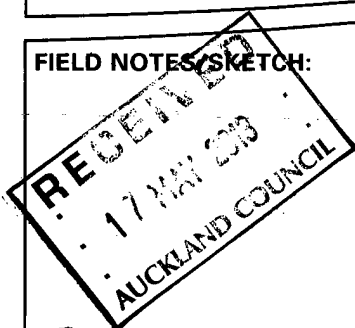
Foundations 400 wide 450 deep
 4D12 D12@600 into hard filling
 Controlled filling
 Complete.
 7.00am
 Tuesday 7th May 2013

Inspected by: Hutch	Date & time:	Pass	Fail
Plant operating on site: —	Shear vane No: —		
Weather/site conditions: Post Rain	Testing undertaken: —		

Condition of building/resource consent	✓	Photo's taken	✓	Embedments and clearances	✓
Concrete	—	Earthworks	—	Council inspected	?
Steel placement and grade	✓	Timber treatment checked	—	Situational awareness	✓

		IH Council copy					
Book in date: 17/05/2013	Hutchinson job number: 16136						
Clients name: XXXXXXXXXXXX Morrison	Clients job number: -						
Site address: 1334 Sandspit Road	Contractors name: Kevin Piles						
Locality: Sandspit	Contractors number: 021 585 561						
Date inspection required: 17/05/2013	Mon	Tues	Wed	Thurs	Fri	Sat	Sun
Time inspection required: Anytime AM	Inspection type: Masonry walls						
Timeframe window for inspection: Anytime AM	Time of concrete pour: PM						
Building consent number: ABA 1014136	Lot: -		DP: -				
Resource consent number: L5 9778	Geotechnical engineer: IHCUd						
Plans prepared by: BK Design	Drawings numbers:						

FIELD NOTES/SKETCH:



NB: Council is booked to inspect AM.

- 3012 horizontal bars @ 1.4 height
- have constructed to support walls until floor slab has been cured to heights over 800
- 012 starter placing 2nd floor slab for block wall with complete perimeter starters @ 600
- control joints as per detail JBLX
- will be ready for pour on completion of 2nd starter tied with 600 capping

* PS4 for

Inspected by: JBL	Date & time: 17.05.13	Pass	Fail
Plant operating on site:	Shear vane No:		
Weather/site conditions: Rainy	Testing undertaken: measure/visual		

Condition of building/resource consent	✓	Photo's taken	✓	Embedments and clearances	✓
Concrete	-	Earthworks	-	Council inspected	✓
Steel placement and grade	✓	Timber treatment checked	-	Situational awareness	✓

RECEIVED

Council copy

12 JUN 2013

AUCKLAND COUNCIL

118

Book in date: 07/06/2013

Hutchinson job number: 16136

Clients name: Morrison

Clients job number: -

Site address: 1334 Sandspit Road,

Contractors name: Kevin Pile

Locality: Sandspit

Contractors number:

Date inspection required: 07-14/06/2013

Mon Tues Wed Thurs **Fri** Sat Sun

Time inspection required: Anytime

Inspection type: Internal foundation

Timeframe window for inspection: Anytime

Time of concrete pour: 14/06/2013 PM

Building consent number: ABA-1014136

Lot: DP:

Resource consent number: L59778

Geotechnical engineer: IHC Ltd

Plans prepared by: BK Design

Drawings numbers:

FIELD NOTES/SKETCH:

- Internal footings @ as per detail
- D12 @ 600 starters to be placed will be supplied photo by contractor
- r/s ties @ 600
- 4 D12 cage. capping min 600
- 100 mm pipe through footing. have check with structural designer Rehand ok
- have added extra steel around channels and D12 starters
- * 134 for footing only 12.00

Inspected by: J Blane

Date & time: 10.6.13

Pass

Fail

Plant operating on site: -

Shear vane No: -

Weather/site conditions: overcast one shower

Testing undertaken: Visual / measure

Condition of building/resource consent	✓	Photo's taken	✓	Embedments and clearances	✓
Concrete	-	Earthworks	✓	Council inspected	✗
Steel placement and grade	✓	Timber treatment checked	-	Situational awareness	✓

		Council copy						
Book in date:	03/07/2013	Hutchinson job number:	16136					
Clients name:	Morrison	Clients job number:	-					
Site address:	1334 Sandspit Road	Contractors name:	Kevin Pile					
Locality:	Sandspit	Contractors number:	021 585 561					
Date inspection required:	05/07/2013	Mon	Tues	Wed	Thurs	Fri	Sat	Sun
Time inspection required:	9:00am - 12:00pm ^{first thing}	Inspection type: Block						
Timeframe window for inspection:	9:00am - 12:00pm ^{first thing}	Time of concrete pour: ?						
Building consent number:	ABA-1014136	Lot:	-	DP:	-			
Resource consent number:	-	Geotechnical engineer: IHC Ltd						
Plans prepared by:	B K Design	Drawings numbers:						

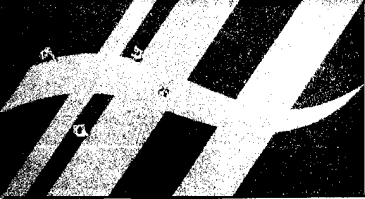
FIELD NOTES/SKETCH:

D12@ 600 B/W
 1400 Ht
 D16@ Openings

July
 4/7/2013

Inspected by:	Hutch	Date & time:	☒ Pass ☐ Fail
Plant operating on site:	—	Shear vane No:	—
Weather/site conditions:	Overcast	Testing undertaken:	—

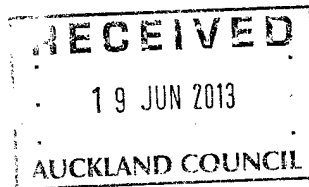
Condition of building/resource consent	☒	Photo's taken	☒	Embedments and clearances	☐
Concrete	☐	Earthworks	☐	Council inspected	Tomorrow
Steel placement and grade	☒	Timber treatment checked	☐	Situational awareness	☒



Our Ref: LKJ16136

07 May 2013

Auckland Council
Orewa Office
Private Bag 92300
AUCKLAND 1142



Attention: Team Leader (Building)

Dear Sir

**RE: ABA: 1014136 PT ALLOT 23 PARISH OF MAHURANGI
PERIMETER STRIP FOOTING OBSERVATION
AT 1334 SANDSPIT ROAD, SANDSPIT
FOR BRIAN AND VANESSA MORRISON**

This office has completed a perimeter strip footing observation inspection for the above site on Tuesday the 7th May 2013.

All foundations had been excavated a minimum of 450 mm below compacted ground level into controlled fill.

Sufficient minimum height of finished concrete slab-on-grade floors above adjoining finished ground level in accordance with Section 7.5 NZS 3604:1999 "Code of Practice for TIMBER FRAME BUILDINGS" must be made available once the final landscaping is complete.

The reinforcing steel within the perimeter strip footing had been correctly detailed, placed and lapped. It comprised of 4/D12 longitudinal bars with R6 stirrups at 600 centres and D12 starters at 600 centres.

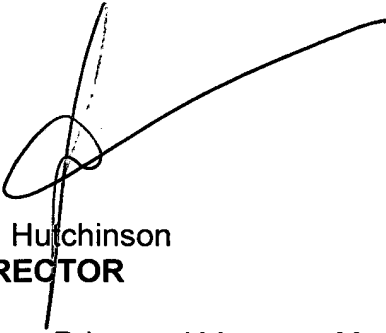
In accordance with the approved Building Consent conditions we enclose a Producer Statement – Construction Review (PS4) for same.

The bulk and location requirements of the structure and the construction of any foundations within close vicinity of services had not been checked by this office. We assume that these items had been required and approved by Council as part of the Building Consent process and had been checked and approved as part of their on-site inspections.

Should you wish to discuss any aspects of the above information, please contact the above office.

We trust this meets with your approval.

Yours faithfully
IAN HUTCHINSON CONSULTANTS LTD

A handwritten signature in black ink, consisting of a large, stylized 'I' with a horizontal stroke that loops back and underlines the vertical stroke.

Ian Hutchinson
DIRECTOR

cc Brian and Vanessa Morrison
1334 Sandspit Road
RD 2
Warkworth 0982

Owner: Please forward a copy of this correspondence to your building contractor responsible for the above works.

PRODUCER STATEMENT – PS4 – CONSTRUCTION REVIEW

ISSUED BY: Ian Hutchinson Consultants Ltd
(Construction Review Firm)

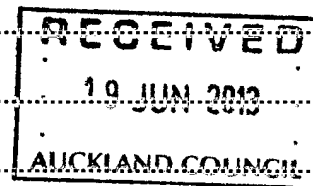
TO: Brian and Vanessa Morrison
(Owner / Developer)

TO BE SUPPLIED TO: Auckland Council
(Building Consent Authority)

IN RESPECT OF: Proposed Dwelling
(Description of Building Work)

AT: 1334 Sandspit Road
(Address)

Sandspit PT ALLOT 23, Parish of Mahurangi



IAN HUTCHINSON CONSULTANTS LTD has been engaged by Brian and Vanessa Morrison
(Construction Review Firm)

To provide ☐ CM1 ☐ CM2 ☐ CM3 ☐ CM4 ☐ CM5 (Engineering Categories) or ☐ OL1 ☐ OL2 ☐ OL3 ☐ OL4 (Architecture Categories)

☒ or other PERIMETER STRIP FOOTING OBSERVATION services
(Extent of Engagement)

in respect of clause(s) B1 (VM1); B1 (VM4) of the Building Code for the building work described in documents relating to Building Consent No ABA1014136 and those relating to Building Consent Amendment(s) Nos. issued during the course of the works. Correspondence specifically relating to the works, ref LKJ16136 dated 07 May 2013 should be read in conjunction with this Producer Statement.

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 ☒ Part only 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 of clause(s) B1 (VM1); B1 (VM4) of the Building Regulations.

I, Ian Thomas Hutchinson am CPEng # 63973. I am a Member of: IPENZ and hold the following qualifications:

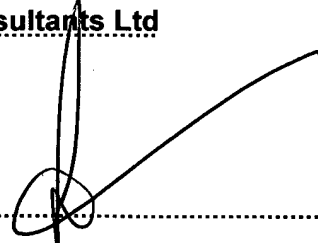
BE (Civil) ME MIPENZ (Civil) CPEng IntPE

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

Ian Hutchinson Consultants Ltd is a member of ACENZ

SIGNED BY Ian T Hutchinson ON BEHALF OF Ian Hutchinson Consultants Ltd

Date 07 May 2013

Signed 

Note: This statement shall only be relied upon by the Building Consent Authority named above. Liability under this statement accrues to the Design Firm only. The total maximum amount of damages payable 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.*

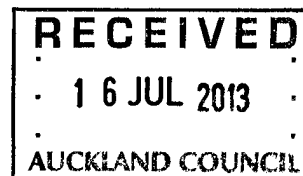
This form is to accompany **Form 2 of the Building (Forms) Regulations 2004** for the application of a Building Consent.



Our Ref: LIH16136

15 July 2013

Auckland Council
Orewa Office
Private Bag 92300
AUCKLAND 1142



Attention: Team Leader (Building)

Dear Sir

**RE: ABA 1014136 PT ALLOT 23 PSH OF MAHURANGI
MASONRY WALL AT 1334 SANDSPIT ROAD, SANDSPIT
FOR BRIAN AND VANESSA MORRISON**

This office has completed a reinforced masonry wall construction and reinforcement placement observation at the above site on Thursday the 4th July 2013.

The masonry walls inspected included the initial 1400mm of height over the entire ablution block.

All masonry had been adequately detailed and reinforced in accordance with design drawings.

The vertical reinforcing consisted of D12 at 600 centres placed centrally within the masonry core. The horizontal reinforcement consisted of D12 at 600 centres.

Wash out ports had been provided between the central common men's/woman's dividing wall to allow for a future full height pour.

Vertical trimmer reinforcing (D16) had been provided around all openings.

The Contractor had installed control joints in accordance with the approved drawings.

The bulk and location requirements of the structure and the construction of any foundations within close vicinity of services had not been checked by this office. We assume that these items had been required and approved by Council as part of the Building Consent process and had been checked and approved as part of their on-site inspections.

Should you wish to discuss any aspects of the above information, please contact the above office.

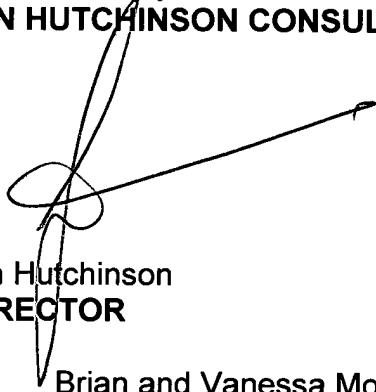
We trust this meets with your approval.

Should you wish to discuss any aspects of the above information, please contact the above office.

We trust this meets with your approval.

Yours faithfully

IAN HUTCHINSON CONSULTANTS LTD

A handwritten signature in black ink, consisting of a large, stylized 'I' and 'H' that are interconnected, with a long horizontal stroke extending to the right.

Ian Hutchinson
DIRECTOR

cc Brian and Vanessa Morrison
1334 Sandspit Road
RD2
Warkworth 0982

Owner: Please forward a copy of this correspondence to your building contractor responsible for the above works.

PRODUCER STATEMENT – PS4 – CONSTRUCTION REVIEW

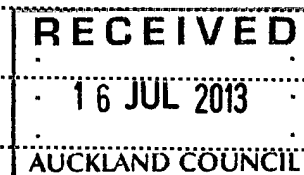
ISSUED BY: Ian Hutchinson Consultants Ltd
(Construction Review Firm)

TO: Brian and Vanessa Morrison
(Owner / Developer)

TO BE SUPPLIED TO: Auckland Council
(Building Consent Authority)

IN RESPECT OF: Proposed Amenities Block
(Description of Building Work)

AT: 1334 Sandspit Road
(Address)



Sandspit LOT Pt Allot 23 DP SO

IAN HUTCHINSON CONSULTANTS LTD has been engaged by Brian and Vanessa Morrison
(Construction Review Firm)

To provide ☐ CM1 ☐ CM2 ☐ CM3 ☐ CM4 ☐ CM5 (Engineering Categories) or ☐ OL1 ☐ OL2 ☐ OL3 ☐ OL4 (Architecture Categories)

☒ or other MASONRY WALL CONSTRUCTION AND REINFORCEMENT PLACEMENT OBSERVATION services
(Extent of Engagement)

in respect of clause(s) B1 (VM1) ; B1 (VM4) of the Building Code for the building work described in documents relating to Building Consent No 1014136 and those relating to Building Consent Amendment(s) Nos. issued during the course of the works. Correspondence specifically relating to the works, ref LIH16136 dated 15 July 2013 should be read in conjunction with this Producer Statement.

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 ☒ Part only 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 of clause(s) B1 (VM1) ; B1 (VM4) of the Building Regulations.

I, Ian Thomas Hutchinson am CPEng # 63973. I am a Member of: IPENZ and hold the following qualifications:

BE (Civil) ME MIPENZ (Civil) CPEng IntPE

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

Ian Hutchinson Consultants Ltd is a member of ACENZ

SIGNED BY Ian T Hutchinson ON BEHALF OF Ian Hutchinson Consultants Ltd

Date 15 July 2013

Signed 

*Note: This statement shall only be relied upon by the Building Consent Authority named above. Liability under this statement accrues to the Design Firm only. The total maximum amount of damages payable 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 is to accompany Form 2 of the Building (Forms) Regulations 2004 for the application of a Building Consent.



Our Ref: LJ16136a

16 September 2013

Auckland Council
Orewa Office
Private Bag 92300
AUCKLAND 1142

Attention: Team Leader (Building)

Dear Sir

**RE: ABA: 1014136 Pt Allot 23 PSH OF MAHURANGI
BUILDING PLATFORM EARTHWORKS PREPARATION
AT 1334 SANDSPIT ROAD, SANDSPIT
FOR B. & V. MORRISON**

This office has completed a building platform earthworks preparation observation of the placing and compaction of the hardfilling under the proposed concrete floor slab at the above site, on the 22nd, 23rd and 29th of April and the 28th of May 2013

The topsoil and unsuitable material had been adequately stripped and the platform benched prior to filling. The fill was adequately compacted to a maximum depth of 2000 mm.

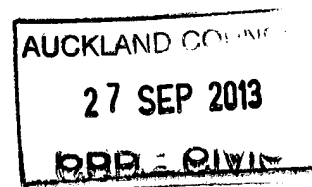
The extent of the fill tested included the building footprint plus a 1.0 m strip around the perimeter.

We were instructed by the Contractor that the GAP 65 hardfill had been spread in even uncompacted layers of approximately 100 - 150 mm thick, then compacted using a flat drum roller and heavy plate compactor.

Penetrometer tests completed on the hardfilling resulted in at least four blows per 100 mm through the hardfill.

The fill has been placed in accordance with the recommendations of the geotechnical report prepared by this office ref LJ15567 dated 24 July 2012

In accordance with the approved Building Consent conditions we enclose a Producer Statement – Construction Review (PS4) for same.



OREWA

27 SEP 2013

AUCKLAND COUNCIL

RPC

Should you wish to discuss any aspects of the above information, please contact the above office.

We trust this meets with your approval.

Yours faithfully
IAN HUTCHINSON CONSULTANTS LTD

A handwritten signature in black ink, appearing to read 'J. Black', written over a horizontal line.

J. Black
ENGINEER

cc B. & V. Morrison
1334 Sandspit Road
RD2
WARKWORTH 0982

Owner: Please forward a copy of this correspondence to your building contractor responsible for the above works.

PRODUCER STATEMENT – PS4 – CONSTRUCTION REVIEW

 ISSUED BY: **Ian Hutchinson Consultants Ltd**
(Construction Review Firm)

 TO: **B. & V. Morrison**
(Owner / Developer)

 TO BE SUPPLIED TO: **Auckland Council**
(Building Consent Authority)

 IN RESPECT OF: **Proposed Dwelling**
(Description of Building Work)

 AT: **1334 Sandspit Road**
(Address)
Sandspit
LOT Pt Allot 23 Psh of Mahurangi SO
IAN HUTCHINSON CONSULTANTS LTD has been engaged by **B. Morrison**
(Construction Review Firm)

 To provide ☐ CM1 ☐ CM2 ☐ CM3 ☐ CM4 ☐ CM5 (Engineering Categories) or ☐ OL1 ☐ OL2 ☐ OL3 ☐ OL4 (Architecture Categories)
☒ or other **BUILDING PLATFORM EARTHWORKS PREPARATION OBSERVATION** services
(Extent of Engagement)

 in respect of clause(s) **B1 (VM1); B1 (VM4)** of the Building Code for the building work described in documents relating to Building Consent No **ABA 1014136** and those relating to Building Consent Amendment(s) Nos.

 issued during the course of the works. Correspondence specifically relating to the works, ref **LJ16136a** dated **16 September 2013**

should be read in conjunction with this Producer Statement.

 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 ☒ Part only 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 of clause(s) **B1 (VM1); B1 (VM4)** of the Building Regulations.

 I, **Ian Thomas Hutchinson** am CPEng # **63973**. I am a Member of: IPENZ and hold the following qualifications:

BE (Civil) ME MIPENZ (Civil) CPEng IntPE

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

Ian Hutchinson Consultants Ltd is a member of ACENZ

 SIGNED BY **Ian T Hutchinson** ON BEHALF OF **Ian Hutchinson Consultants Ltd**

 Date **16 September 2013**

Signed

Note: This statement shall only be relied upon by the Building Consent Authority named above. Liability under this statement accrues to the Design Firm only. The total maximum amount of damages payable 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.*



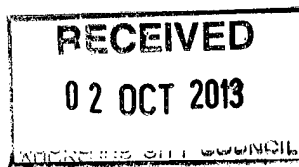
Hutchinson
CONSULTING ENGINEERS

PO Box 150, Orewa 0946
154 Centreway Road, Orewa
+64 9 426 5702
www.hc.co.nz

Our Ref: LJ16136b

25 September 2013

Auckland Council
Orewa Office
Private Bag 92300
AUCKLAND 1142



AUCKLAND COUNCIL

- 2 OCT 2013

OREWA

Attention: Team Leader (Building)

Dear Sir

**RE: ABA: 1014136 PT ALLOT 23 DP 16136
CONSTRUCTION AND EXCAVATIONS FOR
FOUNDATIONS OBSERVATION
AT 1334 SANDSPIT ROAD, SANDSPIT
FOR B. & V. MORRISON**

This office has completed a perimeter strip footing observation inspection for the above site on Tuesday the 7th of May and the Friday the 10th of June 2013.

All perimeter foundations had been excavated a minimum 400 mm wide and 450 mm deep the internal foundations had been excavated 300 mm wide and 200mm deep below cleared ground level into good ground.

Sufficient minimum height of finished concrete slab-on-grade floors above adjoining finished ground level in accordance with Section 7.5 NZS 3604:1999 "Code of Practice for TIMBER FRAME BUILDINGS" must be made available once the final landscaping is complete.

The reinforcing steel within the perimeter strip and internal footings had been correctly detailed, placed and lapped. It comprised of 4/D12 longitudinal bars with R6 stirrups at 600 centres and D12 starters at 600 centres.

The Contractor was instructed to support the principal perimeter strip footing reinforcement on plastic chairs and provide a minimum concrete cover of 75 mm in all areas where concrete is poured against unprotected ground.

In accordance with the approved Building Consent conditions we enclose a Producer Statement – Construction Review (PS4) for same.

The bulk and location requirements of the structure and the construction of any foundations within close vicinity of services had not been checked by this office. We assume that these items had been required and approved by Council as part of the Building Consent process and had been checked and approved as part of their on-site inspections.

Should you wish to discuss any aspects of the above information, please contact the above office.

We trust this meets with your approval.

Yours faithfully
IAN HUTCHINSON CONSULTANTS LTD

A handwritten signature in black ink, appearing to be 'J. Black', written in a cursive style.

J. Black
ENGINEER

cc B. & V. Morrison
1334 Sandspit Road
RD2
WARKWORTH 0982

Owner: Please forward a copy of this correspondence to your building contractor responsible for the above works.

PRODUCER STATEMENT – PS4 – CONSTRUCTION REVIEW

ISSUED BY: **Ian Hutchinson Consultants Ltd**
(Construction Review Firm)

TO: **B. & V. Morrison**
(Owner / Developer)

TO BE SUPPLIED TO: **Auckland Council**
(Building Consent Authority)

IN RESPECT OF: **Proposed Dwelling**
(Description of Building Work)

AT: **1334 Sandspit Road**
(Address)

Sandspit LOT **Pt Allot 23 Psh of Mahurangi SO**

IAN HUTCHINSON CONSULTANTS LTD has been engaged by **B. Morrison**
(Construction Review Firm)

To provide ☐ CM1 ☐ CM2 ☐ CM3 ☐ CM4 ☐ CM5 (Engineering Categories) or ☐ OL1 ☐ OL2 ☐ OL3 ☐ OL4 (Architecture Categories)

☒ or other **EXCAVATIONS FOR FOUNDATIONS AND CONSTRUCTION OF FOUNDATIONS** services
(Extent of Engagement)

in respect of clause(s) **B1 (VM1); B1 (VM4)** of the Building Code for the building work described in documents relating to Building Consent No **ABA 1014136** and those relating to Building Consent Amendment(s) Nos. issued during the course of the works. Correspondence specifically relating to the works, ref **LJ16136b** dated **25 September 2013** should be read in conjunction with this Producer Statement.

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 ☒ Part only 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 of clause(s) **B1 (VM1); B1 (VM4)** of the Building Regulations.

I, **Ian Thomas Hutchinson** am CPEng # **63973**. I am a Member of: IPENZ and hold the following qualifications:

BE (Civil) ME MIPENZ (Civil) CPEng IntPE

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

Ian Hutchinson Consultants Ltd is a member of ACENZ

SIGNED BY **Ian T Hutchinson** ON BEHALF OF **Ian Hutchinson Consultants Ltd**

Date **25 September 2013**

Signed _____

*Note: This statement shall only be relied upon by the Building Consent Authority named above. Liability under this statement accrues to the Design Firm only. The total maximum amount of damages payable 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 is to accompany **Form 2 of the Building (Forms) Regulations 2004** for the application of a Building Consent.

COPY

3 May 2013

Land Information New Zealand
Northern Processing Centre
Private Bag 3028
Hamilton 3240

Dear Sir or Madam

Notification to the Registrar-General of land to impose condition under section 73 of the Building Act 2004

Please register a notice on the certificate of title for the following property:-

Property address: 1334 Sandspit Road, Sandspit 0982
Building consent number: ABA-1014136

Attachments:

- ☐ Copy of certificate of title; and
- ☐ Notice to impose condition under section 73
- ☐ Lodgement form

Please advise by return mail, the date that the entry is registered on the title.

If you have any further queries regarding this matter, please contact the writer on (09)301-0101 quoting the above building consent number.

Yours faithfully



Glenys Harwood
Building Control Property Co-ordinator
BUILDING CONTROL- OREWA SERVICE CENTRE

Notification to the Registrar-General of Land to impose condition under section 73



Section 73(1)(c) and 73(3) of the Building Act 2004

CCU 1

Land Registration District(s): NORTH AUCKLAND

C73

Computer register(s) of land on which building work is to be carried out

Unique identifier	All / Part	Legal description
NA 878/220	ALL	CT-878/220 Pt Allot 23 Psh Of Mahurangi (4.148HA)

Natural hazard(s) affecting the land

Type of hazard:	Description of hazard
INUNDATION	Coastal inundation, during extreme weather events, of the land, not the building.

Auckland Council Building Consent Authority, **hereby notifies you that:**

1. A building consent has been granted, affecting the land comprised in the above numbered computer register(s); and
1. The particulars of the natural hazard(s) on the land are set out above.

Dated this

2nd day of May

2013

Signature:

Name:

Kelvin Goode

Designation / role:

MANAGER, BUILDING CONTROL NORTHERN

Duly authorised to execute this form for and on behalf of the Auckland Council Building Consent Authority



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

Limited as to Parcels

Search Copy



R. W. Muir
Registrar-General
of Land

Identifier NA878/220
Land Registration District North Auckland
Date Issued 17 June 1947

Prior References
NA771/267

Estate Fee Simple
Area 4.1480 hectares more or less
Legal Description Part Allotment 23 Parish of Mahurangi

Proprietors

Brian Philip Morrison, Vanessa Anne Morrison and Brian & Vanessa Morrison Trustee Limited as to a 1/2 share
Brian Philip Morrison, Vanessa Anne Morrison and Brian & Vanessa Morrison Trustee Limited as to a 1/2 share

Interests

12058 Order in Council imposing Building Line Restriction - 30.4.1947 at 10.00 am
Subject to rights of way over parts marked F & N, rights to convey electricity over parts marked I, M & N, rights to convey telecommunications & computer media over parts marked M & N and drainage over parts marked F, G & H on DP 390452 created by Easement Instrument 7658082.4 - 14.12.2007 at 9:00 am
Appurtenant hereto are rights of way, rights to convey electricity and drainage created by Easement Instrument 7658082.4 - 14.12.2007 at 9:00 am
Some of the easements created by Easement Instrument 7658082.4 are subject to Section 243 (a) Resource Management Act 1991
7666051.1 Mortgage to ANZ National Bank Limited - 15.1.2008 at 2:06 pm

Identifier

NA878/220

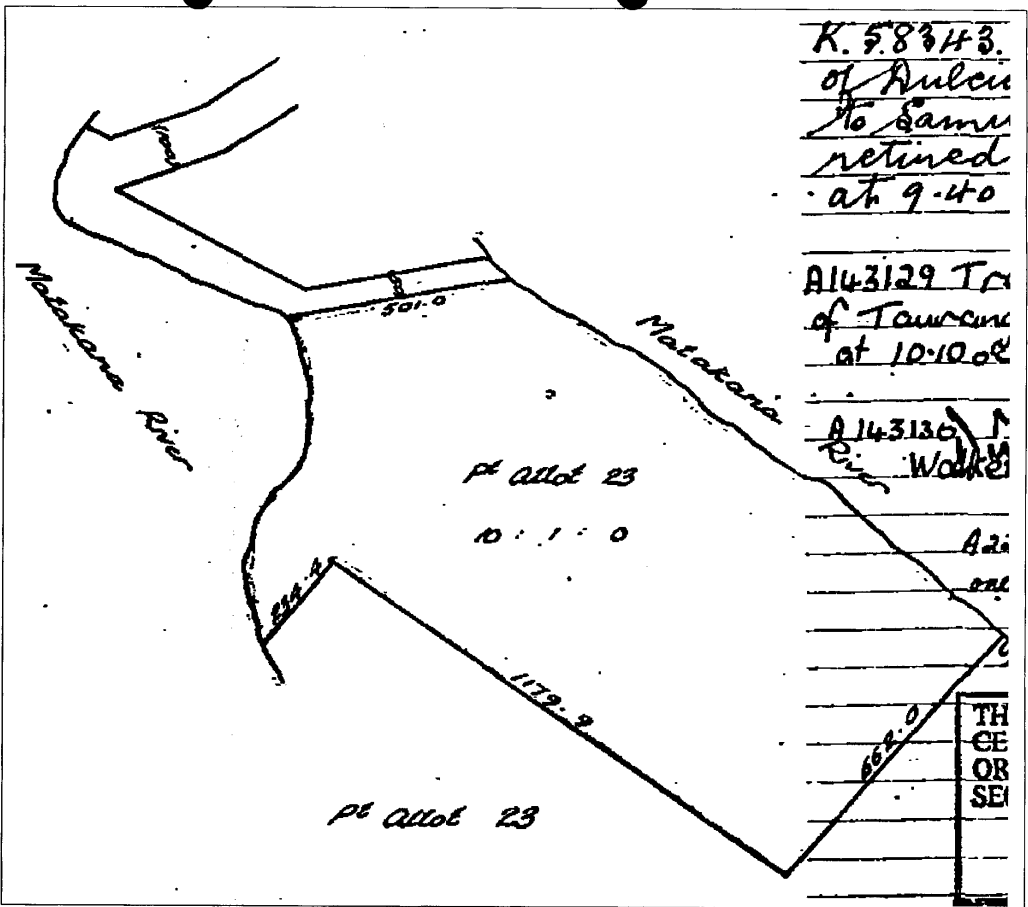
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of Dulcin
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retired
at 9.40

A143129 Tr
of Taurcon
at 10.10.08

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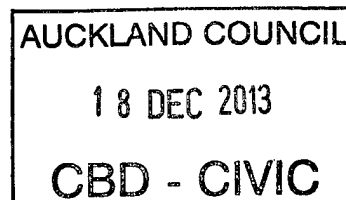
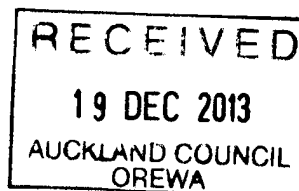
Hutchinson
CONSULTING ENGINEERS

PO Box 150, Orewa 0946
154 Centreway Road, Orewa
+64 9 426 5702
www.hc.co.nz

Our Ref: L16136

12 August 2013

Auckland Council
Orewa Office
Private Bag 92300
AUCKLAND 1142



AUCKLAND COUNCIL

Attention: Team Leader (Building)

19 DEC 2013

Dear Sir

OREWA

**RE: ABA: 1014136 PT ALLOT 23 PSH OF MAHURANGI
AT 1334 SANDSPIT ROAD, SANDSPIT
FOR BRIAN AND VANESSA MORRISON**

This office has completed a construction observation inspection of the structural elements specifically designed by this office, at the above site, on Monday the 12th August 2013.

All structural elements had been installed and fixed in accordance with our design details and recommendations, the beam over the men's toilet.

In accordance with the approved Building Consent conditions we enclose a Producer Statement – Construction Review for same.

Should you wish to discuss any aspects of the above information, please contact the above office.

We trust this meets with your approval.

Yours faithfully
HUTCHINSON

Ian Hutchinson

Ian Hutchinson
DIRECTOR

cc Brian and Vanessa Morrison
1334 Sandspit Road
RD 2
Warkworth 0982

Owner: Please forward a copy of this correspondence to your building contractor responsible for the above works

PRODUCER STATEMENT – PS4 – CONSTRUCTION REVIEW

ISSUED BY: **Ian Hutchinson Consultants Ltd**
(Construction Review Firm)

TO: **Brian and Vanessa Morrison**
(Owner / Developer)

TO BE SUPPLIED TO: **Auckland Council**
(Building Consent Authority)

IN RESPECT OF: **Proposed Amenities Block**
(Description of Building Work)

AT: **1334 Sandspit Road**
(Address)

Sandspit LOT **PT. Allot 23 PSH of Mahurangi** SO

IAN HUTCHINSON CONSULTANTS LTD has been engaged by **Brian and Vanessa Morrison**
(Construction Review Firm)

To provide ☐ CM1 ☐ CM2 ☐ CM3 ☐ CM4 ☐ CM5 (Engineering Categories) or ☐ OL1 ☐ OL2 ☐ OL3 ☐ OL4 (Architecture Categories)

☒ or other **SPECIFICALLY DESIGNED STRUCTURAL ELEMENT OBSERVATION** services
(Extent of Engagement)

in respect of clause(s) **B1 (VM1) ; B1 (VM4)** of the Building Code for the building work described in documents relating to Building Consent No **ABA1014136** and those relating to Building Consent Amendment(s) Nos. issued during the course of the works. Correspondence specifically relating to the works, ref **L16136** dated **12 August 2013** should be read in conjunction with this Producer Statement.

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 ☒ Part only 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 of clause(s) **B1 (VM1) ; B1 (VM4)** of the Building Regulations.

I, **Ian Thomas Hutchinson** am CPEng # **63973**. I am a Member of: IPENZ and hold the following qualifications:

BE (Civil) ME MIPENZ (Civil) CPEng IntPE

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

Ian Hutchinson Consultants Ltd is a member of ACENZ

SIGNED BY **Ian T Hutchinson** ON BEHALF OF **Ian Hutchinson Consultants Ltd**

Date **12 August 2013**

Signed 

*Note: This statement shall only be relied upon by the Building Consent Authority named above. Liability under this statement accrues to the Design Firm only. The total maximum amount of damages payable 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 is to accompany **Form 2 of the Building (Forms) Regulations 2004** for the application of a Building Consent.

Cathy Berglund

From: Morrison <brianandvanessa@xtra.co.nz>
Sent: Thursday, 3 September 2015 8:23 a.m.
To: Cathy Berglund
Subject: Re: ABA1014136

Hi Cathy

My son has finally got all the required paperwork together and we will drop it into the Warkworth office today.

Regards
Brian.

On 2/09/2015, at 1:35 PM, Cathy Berglund wrote:

Hi Brian

As discussed attached is the 23 months letter for BA1014136

Kind regards

Cathy Berglund | Building Control Officer

Building Control Northern

Ph 09 427 3213 | Extn (44) 3213 | Fax 09 426 8902

Auckland Council, Orewa Service Centre, Level 1 Pacific Building, 50 Centreway Road Orewa

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Auckland Council

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<SKMBT_C452 15090213340.pdf>



MiTek New Zealand Limited

Correspondence from : **AUCKLAND**
40 Neales Road, East Tamaki 2013
PO Box 58-014, Botany 2163
Phone: 09 274 7109
Fax: 09 274 7100

CHRISTCHURCH
14 Pilkington Way, Wigram 8042
PO Box 8387, Riccarton 8440
Phone: 03 348 8691
Fax: 03 348 0314

MiTek 20/20 Engineering 4.6.6.122

www.mitek.nz.co.nz

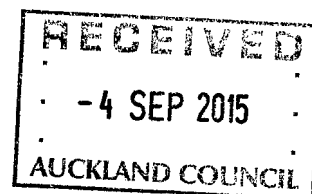
Printed: 15:31:08 16 Mar 2013

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

ISSUED BY: **MiTek New Zealand Limited**

TO: **TimberWorld Ltd**

IN RESPECT OF: **MiTek® Truss Designs**



This producer statement covers the MiTek 20/20® truss design and the structural performance of the GANG-NAIL® connector plate for the job reference **RD201390** and may be used by a Building Consent Authority to assist in determining compliance with the New Zealand Building Code.

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

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

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

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

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

On behalf of MiTek New Zealand Limited,

Date: Saturday, 16 March 2013

6

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

Job: RD201390
 Description:
 Building Consent No.:
 MiTek 20/20 Engineering 4.6.6.122

Client: A Customer
 Phone:

Site: B K Design Ltd
 1336 Sandspit Rd
 Sandspit
 Sandspit Holiday Park

Phone:

Printed: 15/31/08 16 Mar 2013

MiTek New Zealand Limited

MITEK FABRICATOR DESIGN STATEMENT

This statement is issued by MiTek accredited fabricator **TimberWorld Ltd**, being licensed to use the MiTek 20/20® software, to the client listed above and may be used by the Building Consent Authority to assist in determining compliance with the New Zealand Building Code.

MiTek 20/20® TRUSS DESIGN DATA

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

Job Details		Importance Level :	2	Design Working Life :	50 years
Roof Truss					
Timber Group:	MSG8H1.2	Pitch:	45.000 deg	Nominal Overhang:	0 mm
Roof		Ceiling		Wind	
Material:	Galv Iron .5mm	Material:	Gib Board 12mm	Area:	High (44.0 m/s)
Dead Load:	0.210 kPa	Dead Load:	0.200 kPa	Pressure Coeff:	Cpe = varies; Cpi = -0.30, 0.20
Restraints:	900 mm centres	Restraints:	600 mm centres		
Live Load:	Q _{ur} = 0.250 kPa	Live Load:	Q _c = 1.400 kN		
	Q _c = 1.100 kN				

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

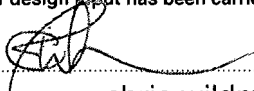
MiTek® Truss List

Legend: * = detail only, ? = input only, ~~xxx~~ = failed design, Ø = non certified, Unmarked trusses = designed successfully, LB = lateral bracing required
 WB = windbeam required

Truss	Qty	Span (mm)	Pitch (deg)	Spacing (mm)	Truss	Qty	Span (mm)	Pitch (deg)	Spacing (mm)	Truss	Qty	Span (mm)	Pitch (deg)	Spacing (mm)
EN01	1	6095	45.000	996	T02	8	7190	40.000	996 LB	V03	2	2964	18.700	900
EN01A	1	6095	45.000	996	T03	2	7145	40.000	996 LB	V04	2	1231	18.700	900
EN01B	1	6095	45.000	996	T03A	1	7145	40.000	996 LB	V05	2	6549	18.700	900
EN02	1	7190	40.000	996	T04	2	6050	45.000	996	V06	1	11867	18.700	900
EN03	1	7145	40.000	996	T04A	1	6050	45.000	996					
EN04	1	6050	45.000	996	T04B	7	6095	45.000	996					
T01	11	6095	45.000	996 LB	V01	1	11888	18.700	900					
T01A	1	6095	45.000	996 LB	V02	2	7426	18.700	900					

Total quantity : 49

The computer design input has been carried out by:

Signed: 

Name of Detailer: **chris wildman**

On behalf of:

TimberWorld Ltd

Date: ...Saturday, 16 March 2013....

Qualifications and Title: **detailer 10142, nzcad**

Job: RD201390
 Description:
 Building Consent No.:
 MiTek 2020 Engineering 4.6.6.122

Client: A Customer
 Phone:

Site: B K Design Ltd
 1336 Sandspit Rd
 Sandspit
 Sandspit Holiday Park

Phone:

Printed: 15/18/15 16 Mar 2013

MiTek New Zealand Limited.

TRUSS FIXING SELECTION REPORT - Characteristic Loads

Fixings are selected from the LUMBERLOK Brochure 03/4 (Timber Connectors Characteristic Loadings Data)

MiTek® Truss List

Legend: * = detail only, ? = input only, Txx = failed design, Ø = non certified, Unmarked trusses = designed successfully

Truss	Qty	Span (mm)	Joint	Down (kN)	Uplift (kN)	Bearing	----- Fixing -----	
							Qty	Selected
EN01	1	6095	A			Wide		No fixing selected
EN01A	1	6095	A	4.250	3.149	Cross	1	Pair of Wire Dog Staples
			E	4.244	3.151	Cross	1	Pair of Wire Dog Staples
EN01B	1	6095	A			Wide		No fixing selected
EN02	1	7190	A	4.785	3.806	Cross	1	CT200 pair
			E	4.785	3.806	None		No fixing selected. Specific engineering design required for down and uplift loads.
EN03	1	7145	A			Wide		No fixing selected
EN04	1	6050	A			Wide		No fixing selected
T01	11	6095	A	4.259	3.163	Cross	11	Pair of Wire Dog Staples
			E	4.259	3.163	Cross	11	Pair of Wire Dog Staples
T01A	1	6095	A	4.250	3.149	Cross	1	Pair of Wire Dog Staples
			E	4.244	3.151	Cross	1	Pair of Wire Dog Staples
T02	8	7190	A	4.775	3.810	Cross	8	CT200 pair
			E	4.775	3.810	Cross	8	CT200 pair
T03	2	7145	A	4.687	3.769	Cross	2	CT200 pair
			E	3.448	3.419	Butt	2	Pair of MultiGrips
			I	1.675	0.381	Cross	2	Pair of Wire Dog Staples
T03A	1	7145	A	4.567	3.649	Cross	1	CT200 pair
			I	4.932	3.601	Cross	1	CT200 pair
T04	2	6050	A	4.316	3.087	Cross	2	Pair of Wire Dog Staples
			G	4.306	3.091	Cross	2	Pair of Wire Dog Staples
T04A	1	6050	A	4.315	3.086	Cross	1	Pair of Wire Dog Staples
			G	4.305	3.090	Cross	1	Pair of Wire Dog Staples
T04B	7	6095	A	4.335	3.111	Cross	7	Pair of Wire Dog Staples
			G	4.334	3.111	Cross	7	Pair of Wire Dog Staples
V01	1	11888	A			Wide		No fixing selected
V02	2	7426	A			Wide		No fixing selected
V03	2	2964	A			Wide		No fixing selected
V04	2	1231	A			Wide		No fixing selected
V05	2	6549	A			Wide		No fixing selected
V06	1	11867	A			Wide		No fixing selected

Fixing List

Qty	Selected Fixing
48	Pair of Wire Dog Staples
21	CT200 pair
2	Pair of MultiGrips
15	No fixing selected

Note:

- Fixings have been selected based on loading only. Please check that selected fixings are practical for each situation and that appropriate nailing can be applied on site.
- Fixings are selected from the LUMBERLOK Brochure 03/4 (Timber Connectors Characteristic Loadings Data) with down and uplift characteristic loads of at least the values shown for each joint.

GABLE END BRACING OVER ROOF SECTION OF END WALLS



- ★ Covers bracing of the roof section on gable end construction.
- ★ Includes bracing on extra high gables.
- ★ All timber to be minimum grade SG8 as defined in NZS 3604:2011 apart from gable end webs which are either SG6 or SG8 (see Tables 1A & 1B).
- ★ Tables cover gable end truss installed as single component 45mm thick, double component 90mm thick, 45x70mm or 45x90mm webs on flat.
- ★ Design assumes restraints are provided at the ceiling and roof lines.
- ★ Bracing covers loading conditions as per NZS 3604:2011 up to Extra High wind and includes full height brick veneer gables.

TABLE 1A - STRONGBACK LOCATION FOR WEBS @ 600MM CRS.

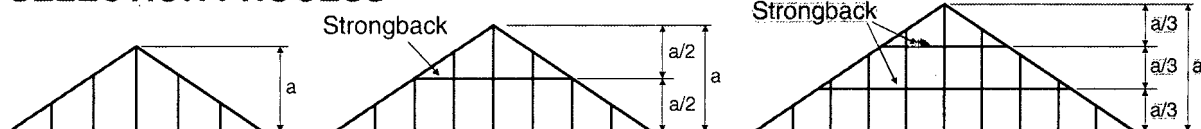
WIND ZONE	MAXIMUM STRONGBACK HEIGHT (h)											
	70x45 Web		90x45 Web		Double Component Gable End Webs				45x70 on flat		45x90 on flat	
					2/ 70x45		2/ 90x45					
	SG6	SG8	SG6	SG8	SG6	SG8	SG6	SG8	SG6	SG8	SG6	SG8
LOW	1800	2000	2000	2200	2300	2550	2500	2750	2450	2700	3150	3450
MEDIUM	1650	1800	1800	2000	2100	2300	2250	2500	2150	2450	2800	3150
HIGH	1450	1600	1600	1750	1850	2050	2000	2200	1800	2150	2350	2800
VERY HIGH	1300	1500	1450	1600	1700	1850	1850	2050	1600	1900	2050	2450
EXTRA HIGH	1150	1350	1300	1500	1600*	1750*	1750*	1900*	1450	1700	1850*	2200*

TABLE 1B - STRONGBACK LOCATION FOR WEBS @ 400MM CRS.

WIND ZONE	MAXIMUM STRONGBACK HEIGHT (h)											
	70x45 Web		90x45 Web		Double Component Gable End Webs				45x70 on flat		45x90 on flat	
	— 2/ 70x45 —		— 2/ 90x45 —		— 2/ 70x45 —		— 2/ 90x45 —		— 2/ 70x45 —		— 2/ 90x45 —	
	SG6	SG8	SG6	SG8	SG6	SG8	SG6	SG8	SG6	SG8	SG6	SG8
LOW	2100	2300	2250	2500	2650	2900	2850	3150	2800	3100	3600	3900
MEDIUM	1900	2100	2050	2250	2400	2650	2600	2850	2550	2800	3300	3600
HIGH	1700	1850	1850	2000	2100	2350	2300	2550	2250	2500	2850	3200
VERY HIGH	1550	1700	1700	1850	1950	2150	2100	2350	1950	2300	2550	2950
EXTRA HIGH	1400	1600	1550	1750	1850*	2000*	2000*	2200*	1800	2100	2300*	2700*

*Use these values for full height brick veneer attached to gable end.
Please note that the maximum height of brick veneer on a gable end wall is 5.5m.

SELECTION PROCESS



- Where (a) is less than or equal to (h) - no strongback required.
- Where (a) is greater than (h) but less than 2(h) - lower strongback is required.
• Locate the strongback at height of (a/2).
- Where (a) is greater than 2(h) but less than 3(h) - lower and upper strongbacks are required.
• Locate strongbacks at height increments of (a/3).

STRONGBACK OPTIONS

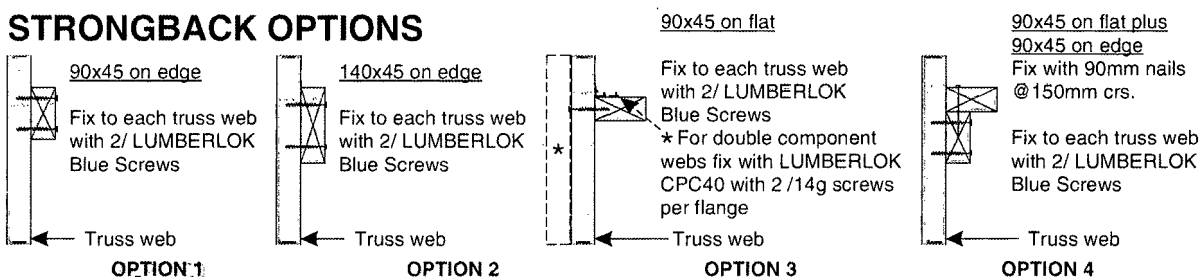
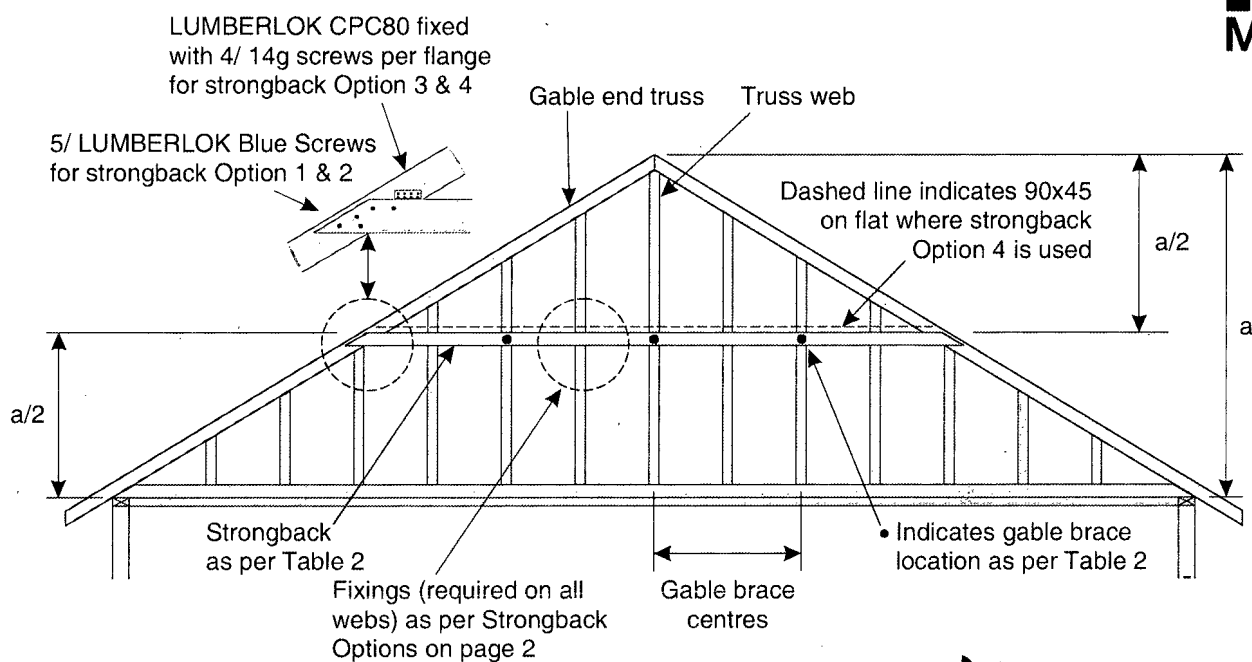
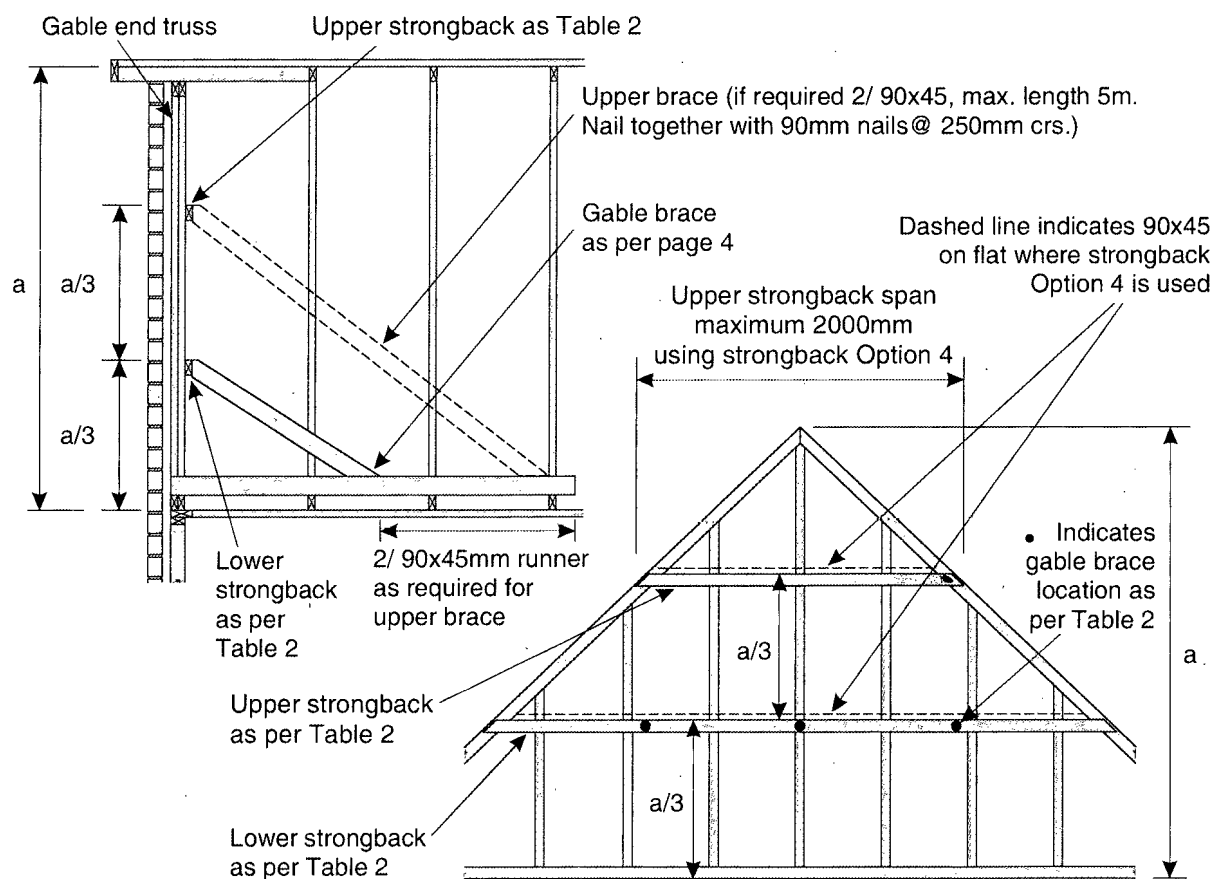


TABLE 2 - STRONGBACK SPAN AND GABLE BRACE LOCATION

OPTION 1	OPTION 2	OPTION 3	OPTION 4
 90x45 on edge	 140x45 on edge	 90x45 on flat	 90x45 on flat plus 90x45 on edge
Max. span and/or gable brace location 1200mm	Max. span and/or gable brace location 1400mm	Max. span and/or gable brace location 1600mm	Max. span and/or gable brace location 2000mm



SINGLE STRONGBACK DETAILS



DOUBLE STRONGBACK DETAILS FOR ALL GABLE END OPTIONS (full height brick veneer option shown)

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

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

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

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

References:

NZS 3603:1993 Timber Structures Standard. AS/NZS 1170:2002 Structural design actions, Parts 0 and 1.
 NZS 3604:2011 Timber-framed buildings. AS/NZS 1170:2011 Structural design actions, Part 2: Wind actions.
 AS 1720.1 – 2010 Timber structures. Part 1: Design methods. AS/NZS 1170:2003 Structural design actions, Part 3: Snow and ice actions.
 AS 1684.1 – 1999 Residential timber framed construction. Part 1: Design criteria.

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

Version date: 22 August 2011

For further information or advice please contact: Carter Holt Harvey Woodproducts New Zealand
 173 Captain Springs Road, Onehunga, Auckland
 Telephone 0800 808 131
 Facsimile 0800 808 132
 Email: designit@chhwoodproducts.co.nz

Specifier details:

Specifier:	Chris Wildman		
Business name:	TimberWorld Ltd		
Address:	Bay Park Place		
Email:	karo.design@xtra.co.nz		
Phone: 481 8000	Mobile: 021 675 222	Facsimile: n/a	

Project & Site details:

Project:	Sandspit Holiday Park	Ref. no.: Roof Design
At (address):	1336 Sandspit Rd, Sandspit	
For (owner/s):	Sandspit Holiday Park	
Wind zone:	High	
Snow loading	Snow region: N0, snow loading not applicable	

MEMBER DESIGN DETAILS

Member 1

- 1) Member code and description VB1 - Verandah beams
- 2) Date prepared 16/03/2013
- 3) Serviceability criteria AS 1720.1-2010 and AS 1684.1-1999
- 4) Design inputs

Span 2.8 m - single
 Roof mass 30 kg/m²
 Roof Load Width 'RLW' 3.0 m

5) Member specification

Size, stress grade/product Use 2/150 x 45 hySPAN
 Material type Structural Laminated Veneer Lumber to AS/NZS 4357

6) Serviceability

Load case	Limit ³ on average deflection ²	Estimated average deflection ²	Rigidity ratio ⁴
Long term load - $G + \Psi_L Q$ *	7.0 mm	5.5 mm (long term)	$\frac{7.0}{5.5} = 1.28$

*Critical serviceability load case

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

7) Reactions

Load case	Limit states design reaction ^{2,3}	
	k_1 ¹	End ⁴ kN
1.35G	0.60	-2.7
1.2G + 1.5Q	0.80	-4.7
1.2G + W_U + $\Psi_C Q$	1.00	-4.9
0.9G + W_U	1.00	5.6

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

8) Installation requirements

Provide at least 30 mm bearing at end supports

Nail lamination in accordance with Detail H1.

Notes for interpretation of serviceability data

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

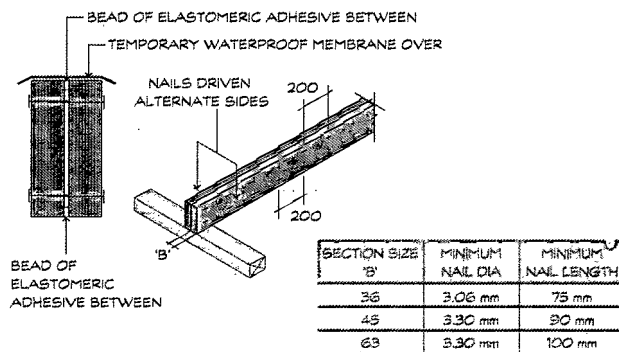
No 1 Framing – visually graded to NZS 3631	Average + 100%
SG grades - mechanically graded to AS/NZS 1748	Average + 43%
GL grades for glulam to AS/NZS 1328	Average + 33%
LVL to AS/NZS 4357 (includes hySPAN and hyJOIST)	Average +18%

As can be seen, comparison of the 'average deflection' for different materials, even if calculated on the same basis, does not give the whole picture!
- The limits referred are those specified in AS 1684.1 for the stated load case.
- 'Rigidity ratio' expresses the rigidity of the specified beam relative to the rigidity of a notional beam just meeting the serviceability requirements of AS 1684.1

Notes for interpretation of reaction data

- Duration of load factor ' k_1 ' for strength as per NZ 3603:1993
- Negative (-) reactions relate to the 'gravity' or 'downwards' force on the support
- Positive reactions relate to the 'upwards' forces or 'tie-down' requirement on the support
- End reaction includes allowance for overhang/cantilever where one has been designed

Vertical nail lamination - two pieces

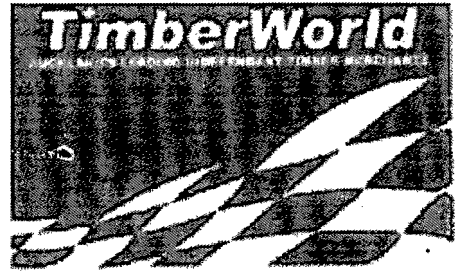


DETAIL H1

The details shown are intended to both limit the entry of moisture between the laminates and to provide adequate shear transfer.

Invoice/statement

Birkdale Branch: Ph 09 483 8428
PO Box 34 269
Birkenhead, Auckland 10



Draughting Services

To: B K Design
16A Percy Street
Warkworth

Invoice #: Rd201390
GST #: 80 568 290
Date: 18/03/2013

Description

Provide:

- 'buildeable truss layout' – PDF & dxf. formats
- Mitek engineering calculations
- Preliminary Producer Statement

For:

Sandspit Holiday Park
1336 Sandspit Rd
Sandspit

Sub total:	\$ 218.85
GST:	\$ 32.83
Total:	\$ 251.68

PAYMENT DUE WITHIN 5 WORKINGS DAYS

Direct Debit:

TimberWorld Ltd

ASB – 123109 0086438 00

Internet payment – please use 'RD201390' as the reference number.

Thank you for your Business
Payment due in 10 working days of Invoice date.

Producer statement
construction – plumbing (PS3c)

- 4 SEP 2015
AUCKLAND COUNCIL



Building Consent application number: 1014136

Location of building (please tick)

To: ☐ Auckland ☐ Franklin ☐ Manukau ☐ North Shore ☐ Papakura ☒ Rodney ☐ Waitakere

Issued by: (Author name)

Greg Jones

Author number:

13851

Author company:

Greg Jones Plumbing Gasfitter Drainlayers Ltd

In respect of: (description of building work)

Plumbing

at: (site address)

1334 Sandspit Rd Warkworth 0982

Sandspit Motor Camp

lot:

Pt Allot 23

DP:

Parish of Mahurangi

I have been engaged by the building consent applicant to undertake ☐ all or ☐ part only (as specified in the attached particulars) of the plumbing pipe work and fittings in respect of the above building consent. I have sighted the above building consent and read the conditions.

As the plumbing contractor, I can confirm that the plumbing pipe work and fittings specified above has been constructed to the extent required by the above building consent, and comply with the above building consent in respect of Clause G.12 of the Building Regulations 1992.

I hereby certify that I have tested the water supply system as follows:

☐ NZ Building Code G12/AS1 - 1500kPa for a period not less than 15 minutes; or

☒ AS/NZS 3500.1:2003 - 1500kPa for a period not less than 30 minutes.

I understand that this producer statement, if accepted, will be relied on by Council for the purposes of establishing compliance with the above building consent.

Signed by:

[Signature]

Date:

Print name:

Greg Jones

Craftsman Plumber Registration Number:

13851

Qualifications:

(Professional Qualifications)

Plumber Gasfitter Drainlayer

Address:

850 Matakana Rd Warkworth

Postcode: 0985

Phone: (Day)

09 422 9061

Mobile

021 242 6846

Fax:

09 422 9068

Email:

Warkworth@laserplumbing.co.nz

Producer statement
Construction – drainage (PS3d)



Building Consent application number: 1014136

Location of building (please tick)

To: ☐ Auckland ☐ Franklin ☐ Manukau ☐ North Shore ☐ Papakura ☒ Rodney ☐ Waitakere

Issued by:

(Author name)

Greg Jones

Author number:

13851

Author company:

Greg Jones Plumbing Gasfitting Drainlayers Ltd

In respect of: (description of building work)

Drainage sewer/stormwater/Retention tank B. Street
Sandspit
Motor Camp

at: (site address)

1334 Sandspit Rd Warkworth 0982

Lot:

Pt Allot 23

DP: Parish of Mahurangi

I have been engaged by the building consent applicant to undertake ☐ all or ☐ part only (as specified in the attached particulars) of the drainage pipe work and fittings in respect of the above building consent. I have sighted the above building consent and read the conditions.

As the drainage contractor, I can confirm that the drainage pipe work and fittings specified above has been constructed to the extent required by the above building consent, and comply with the above building consent in respect of Clauses E1 and G.13 of the Building Regulations 1992.

I hereby certify that I have tested the drainage system as follows:

- ☐ NZ Building Code E1/VM1 - air test in accordance with paragraph 8.3; or
☒ AS/NZS 3500.2.2:2003 - air test in accordance with clause 12.3.2; or
☐ NZS 7643 - water test in accordance with section 11.

I understand that this producer statement, if accepted, will be relied on by Council for the purposes of establishing compliance with the above building consent.

Signed by:

Greg Jones

Date:

5.12.13

Print name:

Greg Jones

Registered drain layer registration number:

13851

Qualifications:

(Professional Qualifications)

Plumber Gas fitter & Drainlayer

Address:

850 Matakana Road Warkworth

Postcode: 0985

Phone: (Bus)

09 4229051

Mobile:

021 242 6846

Fax:

09 4229058

Email:

warkworth@laserplumbing.co.nz

P0017 01/07/10 V2

GASFITTING CERTIFICATE OF COMPLIANCE

Client Name: Brian Morison

Reference or Job #: ICP (if known):

Address of work: Sandspit Motor camp

Suburb: Sandspit Town / City: Auckland

Description of gasfitting work: (If different gasfitting work was done by different people, state who did what gasfitting.)

Installation of four instantaneous water heaters, gas pipe work and auto change over.		
Rheem 27 from left to right; Model number	Serial Number	mj/hr
874627LFZ	B13-0112900002	205mj/hr
874627LFZ	HA1-0112900043-D8	205mj/hr
874627LFZ	B13-0812900010	205mj/hr
874627LFZ	B13-0413900199	205mj/hr

Gas supply pressure 2.75 kPa Risk classification (tick one) ☐ Low-Risk ☒ General ☐ High-risk

Gas type (tick one) ☐ Natural gas ☒ LPG ☐ Biogas ☐ Other (specify)

The work has been done in accordance with a certified design: ☐ Yes ☒ No

☐ Copy of certified design attached (or provide reference) N/A

The work relies on manufacturer's instructions: ☐ Yes ☒ No

☐ Copy of manufacturer's instructions attached (or provide reference) N/A

The work has been done in accordance with means of compliance (specify):

☐ Yes – AS/NZS 5601.1 sections 3 to 6 ☒ Yes – AS/NZS 5601.2 sections 3 to 9 ☐ No

Were any other standards required for compliance?

☐ Yes (specify) N/A ☐ No

Parts of the gas installation that are safe to connect to a gas supply?

☒ All ☐ Parts (specify) Rheem water heaters pipe work and Auto change over valve

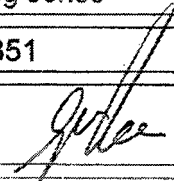
Date or dates on which the work was done: 02.12.2013

Name and registration number of anyone who carried out work under supervision: Mick Kelly 26224

☐ I confirm that I am satisfied that the work described in this certificate of compliance has been done lawfully and safely, and that the information on this certificate is correct.

Certifier name: Greg Jones

Registration number: 13851 Certificate Issue Date: 12.12.2013

Signature: 

Outline any additional information attached:



Compliance and Electrical Safety Certificate

This form has been issued by the Electrical Workers Registration Board

SHEET # ①

ELECTRICAL WORKERS
REGISTRATION BOARD

Unique ID: 00000000000000000000

AUCKLAND COUNCIL
Safety - Competency

This form has been designed to be used by licensed electrical workers to certify low voltage installations or part installations that comply with Part 2 of AS/NZS 3000 and are safe to be connected to a 230/400 volt multiple earth neutral (MEN) system of electrical supply.

(1) Location of installation

Address: 1334 Sandspit Road Sandspit.
ABA 1014136

(2) Customer Information

Name: Sandspit Holiday Park - Amenities Block (new)
Postal Address: 1334 Sandspit Road Sandspit 0982.
Phone and Email: Jared & Zena Morrison

(3) Electrical Worker Information

Name: Mark Momo Registration/Practising Licence Number: E9458.
Organisation: MM Electrical & Security H. Telephone Number: 021990355.
Email: markmomo@mm.co.nz
Name of person(s) being supervised: Mark Taylor / Jason McGee / Dan Mills.

(4) Work Details

The work is (circle): additions | alterations | **new work**

The prescribed electrical work is: ☐ High Risk ☒ General ☐ Low Risk ☐ The homeowner has undertaken part of the electrical installation work.
(Please tick (✓) as appropriate)

Indicate the number of each item
installed or altered:

Number of lighting outlets: 109
Number of socket outlets: 36
Number of ranges: 2 x oven (20A) & 4 x HOBBS (15A).
Number of water heaters: GAS calorifiers x 3.

Tick (✓) if work includes:

- ☒ Mains - SUB MAINS DB2 / DB3
☒ MEN switchboard closest to point of supply
☒ Main Earthing System
☐ Electric Lines existing

(5) Certification of Work

I certify that the completed prescribed electrical work to which this certificate applies, has been done lawfully and safely and the information in the certificate is correct in that the installation, or part of the installation:

- ☒ has been installed in accordance with a certified design
☒ has an earthing system that is correctly rated
☒ contains fittings which are safe to connect to a power supply
☒ relies on supplier's Declaration of Conformity (attach or reference¹)
☒ relies on manufacturer's instructions (attach or reference¹)
☒ has been satisfactorily tested in accordance with Electricity (Safety) Regulations 2010
☒ is safe to connect

Electronic reference:

Electrical Worker's Signature: [Signature]

Date: 29/11/13

1. If it is impractical to attach a copy of a particular manufacturer's instructions, or of any certified design or supplier declarations of conformity, provide a reference to where the documents can be found, in a readily accessible format, through electronic means.

(6) Electrical Safety Certificate

I certify that the installation, or part of the installation, to which the Electrical Safety Certificate applies is connected to a power supply and is safe to use

Name: Mark Momo Registration/Practising Licence Number: E9458.

Certificate of Compliance - Inspection and Test Sheet (E.S.R. 2010/11 - AS/NZS 3000:2007 + Amds.1 & A)

Date: 29/11/13 (Tester's) Name: Mark Taylor. COC No: 00049MM.
 Design Details / DOC No. MM Electrical & Security Ltd.
 Company: MM Electrical & Sec. Phone: 021990355. Lic. No: C/O - E9458
 Location: 1334 Sandspit Rd, Sandspit 0982 ABA1014136 / LOT 23

Details of Installation (i.e., No. of lights, pp's, additions, new work, fixed wiring, upgrade, alterations etc.)
 being checked: New Sub-mains from DB/1 to DB/2, Sub-mains from DB/2 to DB/3 (SEPTIC) & Associated Power/Lighting & oven connectors

Visual Inspection:
 Notes: Mains layed within orange during u/s / TPS SUB-circuit through walls & insulation materials. Date Lived: 29/11/13

Insulation Resistance:

Instr. No. MFT1835.

Tests to be completed between phases, phase & neutral, phase & earth, neutral & earth.

Results: (cables and installation: - min *1MΩ. Note *10kΩ for fixed wiring heating elements, >50 MΩ for mains)

Circuit:	Ins. Res:	Circuit:	Ins. Res:
1 (REF TO sheets 3+4)		5	
2		6	
3		7	
4		8	
Whole Installation:		9	

Mains Conductor Identification and Polarity Tests:

Instr. No: MFT1835.

Polarity at MEN & sub-boards, socket outlets, lighting, fixed wiring etc. - correct. All switches operate correctly.
 Check polarity at switchboards using remote earth reference. Check - low current flowing in main earth lead (<1% IN).

Results: R→E / W→E / B→E on all 3phase connections

Earth Electrode:

Instr. No: MFT1835.Position: Existing at main distribution Board 1

Labelling: (electrode & Sw. board)

** Resistance (ohms): <0.5Ω.

Test Method:

** measurement of earth electrode resistance is NOT mandatory

Notes: Existing Main distribution System to be upgraded later date

Loop Impedance:

MEN Switchboard: Loop Imp: Ph - N

Instr. No: MFT1835.
 P.S.C.C. 1.0 KA.

Three Phase: R-N 0.22Ω Y-N 0.23Ω B-N 0.22Ω P.S.C.C. 1.04kA, 1.01kA, 1.03kA
 Sub Circuits: (Ph - E) (for each cct, identify CB/fuse rating & check max loop value)

CB Types: REF TO sheets 3+4. Check P.S.C.C. is lower than kA
 kA Rating: REF TO sheets 3+4. rating: ☒ (tick OK)

Earthing Continuity and Bonding: (socket outlets, lighting, fixed wiring, exposed metal etc.)

Instr. No: MFT1835.

Protective earths - refer table 8.1. Bonding connections, max 0.5 Ohm

Main earth conductor - continuous and resistance not to exceed 0.5 ohms. ** Check bonding of looped lighting circuits.

Circuit:	Res:	Circuit:	Res:
1 MAIN switch board - 10mm ²		3	
2 SUB-MAIN SEPTIC DB/3 - 4mm ²		4	
		5	
		6	

<0.5Ω on all tests made 29/11/13.

Certificate of Compliance - Inspection and Test Sheet (E.S.R. 2010/11 - AS/NZS 3000:2007 + Amds.1 & A)

Safety Devices:

REF TO SHEET 3 + 4.

Instr. No:

Operation, ac & pulsed dc tests on Sw. board & socket outlet RCD's.

No. of RCD's tested:

RCD	1	2	3	4	5	6	7
Trip operation (push button)							
+ & - ac test times (1 x 1)							
+ & - ac test times (1 x 5)							
pulsating dc test times (1 x 1)							
pulsating dc test times (1 x 5)							

Other:

Results:

Supplier Declaration of Conformity:

Identify that all fittings are safe to connect / SDOCs supplied

as attachments provided

100% compliant fittings.

Other Personnel: (Names of other staff / contractors involved with completion of work)

Name:

Signature:

Date:

Mark Taylor

[Signature]

5.12.13

Daniel Mills

[Signature]

5.12.13

Mark Munro

[Signature]

5.12.13

Jas McGregor

5.12.13

Comments: (note any problems, state any provisions or items excluded from COC coverage).

Note Main Distribution Board DB/1 requires MAIN MEN (earth/neutral) distribution upgrade & main earth system - existing old pre-1990.

Attachments: (D.O.C, drawings, documents, references or other relevant information which relates to the installation)

- JA Russell's - equipment supplied as documents.
- MM Electrical & security Ltd Schematic Drawings
- Greg Jones Plumbing - shower solenoid control system.

Test Equipment Details: (if required, add make, date of last performance check or other details of test equipment used).

Type	Ser No.	Make	Date last checked
Insulation Tester:	MFT 1835	Mega.	2013
Loop Imp. Tester	MFT 1835	Mega.	2013
Earth Tester	MFT 1835	Mega.	2013
Bond/cont. Tester	MFT 1835	Mega.	2013
Polarity Tester	MFT 1835	Mega.	2013
Other:			

Sandspit Motor Camp 29.11.13

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AS/NZS 3019:2007

AS/NZS 3019 Form 2		SCHEDULE OF TEST RESULTS										
Switchboard / distribution board No. 0/B 2		63 Amp Max 3ph					Page 3 of 4.					
Address / location 1334 Sandspit Rd, Sandspit.		Incoming current					Test date 27/11/2013					
Testers name: Mark Munro Signature: <i>[Signature]</i>		R W B					Test equipment type & serial no. MFT1835					
Registration number: E9458		30%10 30%10 30%10					Insulation					
Prospective short-circuit current at switchboard input: kA 10.04 KA / 1.01 KA / 954 KA		M. TAYLOR.					Continuity					
All live wiring and terminals screened from touch without use of tool: Yes/No							Earth fault loop					
Description of work carried out:							RCD tester					
Install new distribution board in store room including RCB's. Lighting/FAN Automation control board wiring with isolation & control at main DB/2 in store room.												
Final Subcircuit Phase and No.	Protective device		Conductor		Polarity	Earth continuity	RCD push button test	RCD Current trip test	Insulation resistance to earth	Insulation resistance between conductors	Insulation test voltage	Remarks
Type	Fault rating	Type	mm ²									
Hob #4	15	MCB 6kA 30s	T.P.S	2.5	B	✓			>999mΩ	>999mΩ	500v	0.42Ω 574Ω
Hob #3	16	MCB 6kA 20s	T.P.S	2.5	R	✓			>999mΩ	>999mΩ	500v	0.39Ω 590Ω
Hob #2	17	MCB 6kA 20s	T.P.S	2.5	W	✓			>999mΩ	>999mΩ	500v	0.40Ω 573Ω
Hob #1	18	MCB 6kA 20s	T.P.S	2.5	B	✓			>999mΩ	>999mΩ	500v	0.55Ω 655Ω
Lts + fans	19	RCBO 10kA 10s	TPS + C.W	1.5	R	✓	✓	10.3ms	>999mΩ	>999mΩ	500v	0.81Ω 282Ω
Lts + fans	20	RCBO 10kA 10s	TPS + C.W	1.5	W	✓	✓		>999mΩ	>999mΩ	500v	
Lts + fans	21	RCBO 10kA 10s	TPS + C.W	1.5	B	✓	✓		>999mΩ	>999mΩ	500v	
Lts + fans	22	RCBO 10kA 10s	TPS + C.W	1.5	R	✓	✓		>999mΩ	>999mΩ	500v	
Lts + fans	23	RCBO 10kA 10s	TPS + C.W	1.5	W	✓	✓		>999mΩ	>999mΩ	500v	
1000's, Automation	24	RCBO 10kA 10s	TPS + C.W	1.5	B	✓	✓		>999mΩ	>999mΩ	500v	
	25						✓		>999mΩ	>999mΩ	500v	
it a emergency	26	RCBO 10kA 10s	T.P.S	1.5	W	✓	✓		>999mΩ	>999mΩ	500v	
W controls	27	RCBO 10kA 10s	T.P.S	1.5	B	✓	✓		>999mΩ	>999mΩ	500v	
RCM C.P.O	28	RCBO 10kA 10s	T.P.S	2.5	R	✓	✓	9.2ms	>999mΩ	>999mΩ	500v	0.22Ω 1.04Ω
interwave #1	29	RCBO 10kA 20s	T.P.S	2.5	W	✓	✓	11.2ms	>999mΩ	>999mΩ	500v	0.37Ω 626Ω
interwave #2	30	RCBO 10kA 20s	T.P.S	2.5	B	✓	✓	4.92ms	>999mΩ	>999mΩ	500v	0.41Ω 555Ω
chen Bridges	31	RCBO 10kA 20s	T.P.S	2.5	R	✓	✓	9.7ms	>999mΩ	>999mΩ	500v	0.41Ω 556Ω
the machine	32	RCBO 10kA 20s	T.P.S	2.5	W	✓	✓	10.2ms	>999mΩ	>999mΩ	500v	0.66Ω 412Ω
the machine	33	RCBO 10kA 20s	T.P.S	2.5	B	✓	✓	9.7ms	>999mΩ	>999mΩ	500v	0.52Ω 446Ω
then bench	34	RCBO 10kA 20s	T.P.S	2.5	R	✓	✓	10.3ms	>999mΩ	>999mΩ	500v	0.54Ω 574Ω
Items requiring further action												

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AS/NZS 3019 Form 2

Switchboard / distribution board No.

DB 2 + 3

SCHEDULE OF TEST RESULTS

Address / location

1334 Sandspit Rd, Sandspit

63A MAX. 3 ph.

Page 4 of 4.

Testers name: Mark Murren

Signature: _____

Tested with MFT1835 30% - 10 30%
 ut: KA 1.04 KA 1.01 KA 0.954 KA. M. TAYLOR
 without use of tool: Yes/No

incoming current	
R	W
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16
17	17
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88	88
89	89
90	90
91	91
92	92
93	93
94	94
95	95
96	96
97	97
98	98
99	99
100	100

Test date 29/11/2013

MFT1835

Prospective short-circuit current at switchboard input:
All live wiring and terminals

use of tool: Yes/No

Test equipment type & serial no.

All live wiring and terminals screw
Description of work carried out:

Insulation

Continuity

Earth fault loop

RCD tester

Description of work carried out: Install new distribution board in store-room including RCB's. Lighting/FAN Automation control board
 wiring with isolation & control at MAIN DB/2 in store-room.

Final Subcircuit Phase and No.	Protective device	Conductor	Polarity	Earth	RCD	RCD	Insulation	Test
	Fault							

Test without use of tool: ☒ Yes / ☐ No
 Test with use of tool: ☐ Yes / ☒ No

Earth fault loop	☒
RCD tester	☒

[illegible]

Items requiring further action