

Tuesday, 30 March 2021

BC Number: 210077

Building Code Clause(s) R1
Building Control Officer: JeffreyR

PRODUCER STATEMENT – PS1 – DESIGN

ISSUED BY: Chambers Consultants Ltd
(Design Firm)

TO: Treor Rowson
(Owner/Developer)

TO BE SUPPLIED TO: Whakane District Council
(Building Consent Authority)

IN RESPECT OF: Alterations to Residence
(Description of Building Work)

AT: 196 King Street, Whakane
(Address)

Town/City: _____ LOT 1 DP 13256 SO _____
(Address)

We have been engaged by the owner/developer referred to above to provide:

Structural design
(Extent of Engagement)

services in respect of the requirements of Clause(s) R1 of the Building Code for:

☐ All or ☒ Part only (as specified in the attachment to this statement), of the proposed building work.

The design carried out by us has been prepared in accordance with:

☒ Compliance Documents issued by the Ministry of Business, Innovation & Employment Bilva or
(verification method/acceptable solution)

☐ Alternative solution as per the attached schedule

The proposed building work covered by this producer statement is described on the drawings titled:

Proposed Alterations and numbered 1, 2
together with the specification, and other documents set out in the schedule attached to this statement.

On behalf of the Design Firm, and subject to:

- (i) Site verification of the following design assumptions Existing residence to NZ Building Code
(ii) All proprietary products meeting their performance specification requirements;

I believe on reasonable grounds that a) the building, if constructed in accordance with the drawings, specifications, and other documents provided or listed in the attached schedule, will comply with the relevant provisions of the Building Code and that b), the persons who have undertaken the design have the necessary competency to do so. I also recommend the following level of construction monitoring/observation:

☐ CM1 ☐ CM2 ☐ CM3 ☐ CM4 ☐ CM5 (Engineering Categories)

I, K.C. Paulhira am: ☒ CPEng # 117135
(Name of Design Professional)

I am a member of: ☐ Engineering New Zealand and hold the following qualifications:

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

The Design Firm is a member of ACE New Zealand: ☒

SIGNED BY K.C. Paulhira (Signature)
(Name of Design Professional)

ON BEHALF OF CHAMBERS CONSULTANTS LTD Date: 12/2/2021
(Design Firm) PO BOX 200-136

Note: This statement shall only be relied upon by the Building Consent Authority named above. Liability under this statement accrues to the Design Firm only. The total maximum amount of damages payable arising from this statement and all other statements 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.
THIS FORM AND ITS CONDITIONS ARE COPYRIGHT TO ACE NEW ZEALAND AND ENGINEERING NEW ZEALAND

Tuesday, 30 March 2021

BC Number: 210077

Building Control Officer: JeffreyR

Consulting Engineers

CHAMBERS CONSULTANTS LTD

**Structural Calculations
For
Alterations at
196 King Street
Whakatane**

210008
12/02/2021

CLIENT: *Adrian Hart / Generators Rg. Design*
ADDRESS: *196 King Street, Whakatane*
PROJECT: *Alterations*

PAGE: *1*
JOB NO: *51600*
DATE: *27/1/21*
BY: *KR*

Building Control Officer: *Jeffrey R*

Internal alterations involve removing walls and replacing with beams

1. Loads

	G	Q (kPa)
Roof	0.80	0.25
Walls	0.40	—
Floor	0.40	1.50

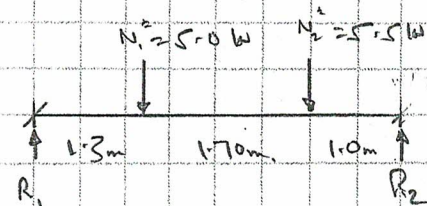
2 Beam 1 over Kitchen

Span = 4.0m

$$w = 1.2G + 1.5Q$$

$$= (1.2 \times 0.80 + 1.5 \times 0.25) / 0.30$$

$$= 1.54 \text{ kPa}$$



$$N_1 \sim 1.54 \times 4.0 + 2.8 / 4$$

$$= 5.0 \text{ kN}$$

$$N_2 \sim 1.54 \times 4.0 + 3.1 / 4$$

$$= 5.5 \text{ kN}$$

$$M^* \leq N^2 ab / l$$

$$= 5.0 \times 1.3 + 2.7 / 4.0 + 5.5 \times 1.0 + 3.0 / 4.0$$

$$= 8.51 \text{ kNm}$$

$$\phi M = \phi k k_r b z$$

$$= 0.8 + 0.8 \times 14.0 \times 1.262 \text{ kPa}$$

$$= 11.31 \text{ kPa}$$

$$2 / 290 \times 15$$

$$k_r = 1/b = 4000/90 = 44.4 \quad k_r = 0.86$$

$$d/b = 290/90 = 3.2$$

$$\phi M = 0.86 \times 11.31$$

$$= 9.73 \text{ kNm}$$

$$> M^* = 8.51 \text{ kNm}$$

CHAMBERS CONSULTANTS LTD

CONSULTING ENGINEERS

Tuesday, 30 March 2021

39 EAST TAMAKI ROAD,
PH: (64 9) 278 1072

PO BOX 23 641,
FAX: (64 9) 279 0419

HUNTERS CORNER,
EMAIL: chambers.consultants@xtra.co.nz

BC Number 210077 NEW ZEALAND

Building Control Officer: Jeffrey R

CLIENT: Adrian Hunt
ADDRESS: 196 King St
PROJECT: Alterations

JOB NO: 210008
DATE: 27/1/21
BY: KR

2nd floor
 $\Delta_y \sim 12.7 \text{ mm (maximum)}$
 $\Delta_{all} = 11300 = 12.7 \text{ mm}$

Recommend 2/290x45 as Beam ①

Supports:

$$R_1 = 4.75 \text{ kN}$$

$$R_2 = 5.75 \text{ kN}$$

3 Beam 2 over Dining Room.
span = 3.0m

$$N^* = 5.75 \text{ kN}$$

$$W \sim 1.54 \times 3.0 / 2$$

$$= 2.31 \text{ kN}$$

$$M^* = Wl^2/8 + N^*al/l$$

$$= 6.22 \text{ kNm}$$

$$\phi M = \phi k_1 k_2$$

$$= 0.9 \times 0.8 \times 19.0 \times 0.864 \text{ kN}$$

$$= 7.74 \text{ kN}$$

$$k_1, l_b = 3000 / 20 = 150 \quad k_2 = 0.91$$

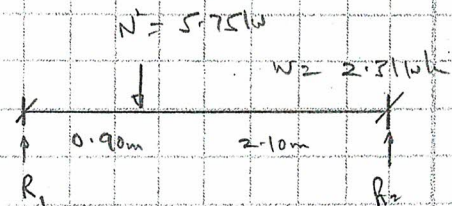
$$d_b = 290 / 90 = 3.2$$

$$\phi M = 0.91 \times 7.74$$

$$= 7.0 \text{ kNm}$$

$$> M^* = 6.22 \text{ kNm}$$

2nd floor
 $\Delta_y \sim 9.1 \text{ mm (maximum)}$ - (high)
 $\Delta_{all} = 11300 = 10.0 \text{ mm}$



2/290x45

Tuesday, 30 March 2021

39 EAST TAMAKI ROAD,
PH: (64 9) 278 1072PO BOX 23 641,
FAX: (64 9) 279 0419HUNTERS CORNER,
EMAIL: chambers.consultants@xtra.co.nzAUCKLAND, NEW ZEALAND
BC Number: 210077CLIENT: Adria HartADDRESS: 196 Kwy. StPROJECT: AlterationsPAGE: 3JOB NO: 210077DATE: 29.11.21BY: KRBuilding Control Officer: Jeffrey R

Revised 2/290+45 as Beam 2 to reduce deflection

• supports: $R_1 = 7.5 \text{ kN}$
 $R_2 = 5.2 \text{ kN}$

4 Support Posts

$$N_{\text{max}}^* = 7.5 \text{ kN}$$

→ 2/290+45, double steel / all posts.

• Foundation post (125 x 125)
 height ~ 0.70m

$$N^* = 7.5 \text{ kN} \quad \text{max min}$$

$$\begin{aligned} \phi N &= \phi k k_{\sigma} f_c A \\ &= 0.8 + 0.8 + 1.0 + 120.0 \times 10^{-3} \text{ kN} \quad \text{125 post} \\ &= 165.9 \text{ kN} \end{aligned}$$

$$\begin{aligned} k_{\sigma} \cdot l/b &= 700/120 \\ &= 5.83 \end{aligned}$$

$$\rightarrow k_{\sigma} = 1.0$$

$$\begin{aligned} \phi N &= 165.9 \text{ kN} \\ &> N^* = 7.5 \text{ kN} \end{aligned}$$

125 square support post adequate for beam support

Tuesday, 30 March 2021

39 EAST TAMAKI ROAD,
PH: (64 9) 278 1072PO BOX 23 641,
FAX: (64 9) 279 0419HUNTERS CORNER,
EMAIL: chambers.consultants@xtra.co.nzAUCKLAND, NEW ZEALAND
BC Number: 210077

CLIENT: Adrol Hart
ADDRESS: 196 King St
PROJECT: Alterations

PAGE: 4
JOB NO: 210077
DATE: 29/11/21
BY: JR

Building Control Officer: Jeffrey R

* Foundation Pool. (600 x 600 + 300)

$$N^* = 7.5 \text{ kN}$$

$$\begin{aligned} q^* &= N^* / A_c \\ &= 7.5 / 0.60^2 \\ &= 20.8 \text{ kPa} \\ &< q_{all} \sim 120 \text{ kPa} \end{aligned}$$

* 600 x 600 + 300 pad | D12 @ 300 c/s each way 5 base

5 Connection Details

* Beam ① - ② connection: 2 Bowmac B177 brackets, 1 each side | M12 60 Hs

$$N^* = 4.75 \text{ kN}$$

$$\begin{aligned} \phi Q &= \phi n k_1 k_2 k_3 \phi_1 \\ &= 0.7 \times 4 \times 0.8 \times 1.0 \times 1.0 \times 6.97 \\ &= 15.61 \text{ kN} \\ \therefore N^* &= 4.75 \text{ kN} \end{aligned} \quad \text{M12 60 Hs}$$

* B177 Bowmac brackets adequate for beam connection

Tuesday, 30 March 2021

BC Number: 210077

Building Control Officer: JeffreyR

Form 2A

Memorandum from licensed building practitioner: Certificate of design work
Section 45 and Section 30C, Building Act 2004

Please fill in the form as fully and correctly as possible.

If there is insufficient room on the form for requested details, please continue on another sheet and attach the additional sheet(s) to this form.

THE BUILDING

Street address:	196 King Street		
Suburb:			
Town/City	Whakatane	Postcode:	

THE OWNER

Name(s):	Adrian Hart		
Mailing address:	196 King Street		
Suburb:		PO Box/Private Bag:	
Town/City:	Whakatane	Postcode:	
Phone number:		Email address:	

BASIS FOR PROVIDING THIS MEMORANDUM

I am providing this memorandum in my role as the: Please tick the option that applies (✓)	
☐	sole designer of all of the RBW design outlined in this memorandum – I carried out all of the RBW design myself – no other person will be providing any additional memoranda for the project
☐	lead designer who carried out some of the RBW design myself but also supervised other designers – this memorandum covers their RBW design work as well as mine, and no other person will be providing any additional memoranda for the project
☐	lead designer for all but specific elements of RBW – this memorandum only covers the RBW design work that I carried out or supervised and the other designers will provide their own memoranda relating to their specific RBW design
☒	specialist designer who carried out specific elements of RBW design work as outlined in this memorandum – other designers will be providing a memorandum covering the remaining RBW design work

IDENTIFICATION OF DESIGN WORK THAT IS RESTRICTED BUILDING WORK (RBW)I K. E. Paulson carried out / supervised the following design work that is restricted building work**PRIMARY STRUCTURE: B1**

Design work that is restricted building work	Description	Carried out/ supervised	Reference to plans and specifications
Tick (✓) if included Cross (X) if excluded	[If appropriate, provide details of the restricted building work]	[Specify whether you carried out this design work or supervised someone else carrying]	[If appropriate, specify references]

Tuesday, 30 March 2021

		out this design work]	
Primary structure			BC Number: 210077
All RBW Design work relating to B1	()	() Carried out () Supervised	Building Control Officer: JeffreyR
Foundations and subfloor framing	()	() Carried out () Supervised	
Walls	()	() Carried out () Supervised	
Roof	(x) <i>Roof support beams</i>	(x) Carried out () Supervised	<i>Sheets 1, 2</i>
Columns and beams	()	() Carried out () Supervised	
Bracing	()	() Carried out () Supervised	
Other	()	() Carried out () Supervised	

EXTERNAL MOISTURE MANAGEMENT SYSTEMS: E2

All RBW design work relating to E2	()	() Carried out () Supervised	
Damp proofing	()	() Carried out () Supervised	
Roof cladding or roof cladding system	()	() Carried out () Supervised	
Ventilation system (for example, subfloor or cavity)	()	() Carried out () Supervised	
Wall cladding or wall cladding system	()	() Carried out () Supervised	
Waterproofing	()	() Carried out () Supervised	
Other	()	() Carried out () Supervised	

FIRE SAFETY SYSTEMS: C1 – C6

Emergency warning systems, evacuation and fire service operation systems, suppression or control systems, or	()	() Carried out () Supervised	
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Tuesday, 30 March 2021

other		
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Note: The design of fire safety systems is only restricted building work when it involves small to medium apartment buildings as defined by the Building (Definition of Restricted Building Work) Order 2011.

Note: continue on another page if necessary.

BC Number: 210077

Building Control Officer: JeffreyR

WAIVERS AND MODIFICATIONS

Waivers or modifications of the building code are required () Yes (✓) No

If Yes, provide details of the waivers or modifications below:

Clause	Waiver/modification required
[List relevant clause numbers of building code]	[Specify nature of waiver or modification of building code]

Note: continue on another page if necessary.

ISSUED BY

Name: <u>Kevin Rawlinson</u>	LBP or Registration number: <u>117135</u>
The practitioner is a: () Design LBP () Registered architect (✓) Chartered professional engineer	
Design Entity or Company (optional):	
Mailing address (if different from below):	
Street address / Registered office:	
Suburb:	Town/City: CHAMBERS CONSULTANTS LTD
PO Box/Private Bag:	Postcode: PO BOX 200-136
Phone number:	Mobile: PAPATOETOE CENTRAL 2156
	278-1072
After Hours:	Fax:
Email address:	Website:

DECLARATION

I Kevin Rawlinson [name of practitioner], LBP,

state that I have applied the skill and care reasonably required of a competent design professional in carrying out or supervising the Restricted Building Work (RBW) described in this form, and that based on this, I also state that the RBW:

- Complies with the building code; or
- ~~Complies with the building code subject to any waiver or modification of the building code recorded on this form.~~

Signature: 	KEVIN C. RAWLINSON B.Sc. M.E. M.I.P.E.N.Z.
Date: <u>12/2/2021</u>	

CHAMBERS CONSULTANTS LTD
PO BOX 200-136
PAPATOETOE CENTRAL 2156
278-1072



Tuesday 20 March 2024
210077
Building Control Officer: JeffreyR

Form 2

Memorandum from licensed building practitioner: Certificate of design work

Section 45 & Section 30C, Building Act 2004

THE BUILDING

Street address of building: 196 KING STREET
Suburb: _____ Town/City: WHAKATANE
Post Code: _____

THE OWNER

Name: ADRIAN HART
Address: 196 KING STREET
Suburb: _____ PO Box/Private Bag: _____
Town/City: WHAKATANE Postcode: _____
Phone: 0274387146 Email: _____

BASIS FOR PROVIDING THIS MEMORANDUM

I am providing this memorandum in my role as the: Please tick the option that applies:

☐ **Sole** designer of all of the RBW design outlined in this memorandum – I carried out all of the RBW design work myself – no other person will be providing any additional memoranda for the project.

☐ **Lead** designer who carried out some of the RBW design myself but also supervised other designers – this memorandum covers their RBW design work as well as mine, and **no other** person will be providing any additional memoranda for the project.

☒ **Lead** designer for all but specific elements of RBW – this memorandum only covers the RBW design work that I carried out or supervised and the **other** designers will provide their own memorandum relating to their specific RBW design.

☐ **Specialist** designer who carried out specific elements of RBW design work as outlined in this memorandum – other designers will be providing a memorandum covering the RBW design work.

IDENTIFICATION OF DESIGN WORK THAT IS RESTRICTED BUILDING WORK			
I _____ carried out/supervised the following design work that is restricted building work:			
Design work that is restricted building work	Description	Carried out/ supervised	Reference to plans and specifications
Tick ☐ if included Cross ☐ if excluded	[If appropriate, provide details of the restricted building work]	[Tick ☐ whether you carried out this design work or supervised someone else carrying out this design work]	[If appropriate, specify references]
Primary Structure: B1			
All RBW design work relating to B1 ☒		☒ Carried out ☐ Supervised	1, 2
Foundations and subfloor framing ☒		☒ Carried out ☐ Supervised	1, 2
Walls		☐ Carried out ☐ Supervised	
Roof		☐ Carried out ☐ Supervised	
Columns and beams ☒		☒ Carried out ☐ Supervised	1, 2
Bracing		☐ Carried out ☐ Supervised	
Other		☐ Carried out ☐ Supervised	
External Moisture Management Systems: E2			
All RBW design work relating to E2		☐ Carried out ☐ Supervised	
Damp proofing		☐ Carried out ☐ Supervised	
Roof cladding or roof cladding system		☐ Carried out ☐ Supervised	
Ventilation system for example, subfloor or cavity)		☐ Carried out ☐ Supervised	
Wall cladding or wall cladding system		☐ Carried out ☐ Supervised	
Waterproofing		☐ Carried out ☐ Supervised	
Other		☐ Carried out ☐ Supervised	

Tuesday, 30 March 2021

BC Number: 210077

Building Control Officer: JeffreyR

Fire Safety Systems

Emergency warning systems, evacuation and fire service operation systems, suppression or control systems, or other

Tuesday, 30 March 2021

Carried out
BC Number: 210077
Supervised

Building Control Officer: JeffreyR

Note: The design of fire safety systems is only restricted building work when it involves small to medium apartment buildings as defined by the Building (Definition of Restricted Building Work) Order 2011.

Note: continue on another page if necessary.

Waivers or modifications of the building code are required? Yes No

If Yes, provide details of the waivers or modifications below:

Clause [List relevant clause numbers of building code]	Waiver/modification required [Specify nature of waiver or modification of building code]

Note: continue on another page if necessary

ISSUED BY

Name and contact details of the licensed building practitioner who is licensed to carry out or supervise design work that is restricted building work.

Name: TREVOR ROWSON

LBP or registration number: 100496

The practitioner is a: ☒ Design LBP ☐ Registered architect ☐ Chartered professional engineer

Design Entity or Company [optional]: DRAFTING SERVICES

Mailing address [if different from below] _____

Street address or registered office: 9 GREAT WEST ROAD

Suburb: _____ Town/City: ROTORUA

PO Box/Private Bag: _____ Postcode: _____

Phone No: _____ Landline: 073482577 Mobile: _____

Daytime: _____ After hours: _____

Fax: _____

Email address: _____ Website: _____

DECLARATION

I TREVOR ROWSON LBP, state that I have applied the skill and care reasonably required of a competent design professional in carrying out or supervising the Restricted Building Work (RBW) described in this form, and that based on this, I also state that the RBW:

- (a) Complies with the building code; or
(b) ~~Complies with the building code subject to any waiver or modification of the building code recorded on this form.~~

Signature: TREVOR ROWSON

Date: 29/1/21

Tuesday, 30 March 2021

BC Number: 210077

Building Control Officer: JeffreyR

CBD

Conservatories By Design Ltd

196 King Street, Whakatane. Mob; 0274 387 146
conservatoriesbydesign@hotmail.com

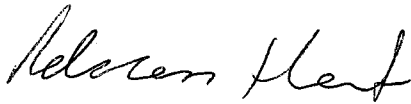
25th March 2021.

Whakatane City Council,
Building Control.

Re: BC210077
196 King Street,
Whakatane.

Once the existing Gib lining and noggs have been removed 3x Acrow props will be fitted between the top and bottom plates to allow removal of the studs.
Once all beam work is completed these props will be removed along with the top and bottom plates.

Regards,



Adrian Hart.