

PRODUCER STATEMENT – PS1 – DESIGN

ISSUED BY (Design Firm): **CRESCO ENGINEERS NEW ZEALAND LIMITED**
TO (Owner/Developer): **Stuart and Sheryl Masters**
TO BE SUPPLIED TO (Building Consent Authority): **Napier City Council**
IN RESPECT OF (Description of Building Work): **Residential Foundation**
AT (Street Address): **112 King Road**
(Town/city): **Meeanee, Napier**
LOT: 4 DP: 13272 SO:

We have been engaged by the owner/developer referred to above to provide **Residential Foundation design services** in respect of the requirements of Clause(s) **B1** 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 **B1/VM1, B1/VM4, MBIE/NZGS Module 4 “Earthquake resistant foundation design”**

☐ Alternative solution as per the attached schedule:

The proposed building work covered by this producer statement is described on the documents titled **7887 - F001_A** and **7887 - C001_A**; together with the specification, and other documents set out in the schedule attached to this statement (if any).

On behalf of the Design Firm, and subject to:

- (i) All proprietary products meeting their performance specification requirements;
- (ii) Site verification of the following design assumptions: **Geotechnical Report Ref. 25255 dated 04.06.24, by LDE LTD.**

I **believe on reasonable grounds** that a) the structure, 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) or ☐ as per agreement with owner/developer (Architectural)

I, **Fabio Parodi** hold ☒ CPEng registration No. **1025559**

I am a Member of : ☒ ENGINEERING NEW ZEALAND and hold the following qualifications: **CPEng, Dott. Ing (ITA), M.Eng (Hons)**

The Design Firm issuing this statement holds a current policy of Professional Indemnity Insurance no less than \$500,000*.

SIGNED BY **FABIO PARODI** ON BEHALF OF **CRESCO ENGINEERS NEW ZEALAND LIMITED**



(signature)

Date: **10/06/2024**

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 \$500,000.*

Important Advisory Note

Cresco Engineers New Zealand Limited (Cresco) is supplying Producer Statements to be submitted to territorial or building consent authorities in order for Code of Compliance Certificates to be issued.

Producer statements are not a product warranty or guarantee of compliance.

Producer statements deal with compliance at the date on which they were written. They will not necessarily provide assurance of on-going compliance.

The design provided by Cresco and covered under this Producer Statement (Design) cannot be used by any third party and cannot be used if there are changes in the laws or regulations.

Only the Owner/Developer, and the Building Consent Authority are entitled to rely upon this Design. Cresco accepts no liability to anyone other than the Owner/Developer in any way in relation to the Design and the content of it and any direct or indirect effect this Design may have. Cresco does not contemplate anyone else relying on this Design or that it will be used for any other purpose.

The Design is based upon information provided by the Owner/Developer or his representatives and no warranty is included; either expressed or implied that the actual site conditions and forces generated by structures designed by others will conform to the information that Cresco has received.

When the Design includes foundation design, the check for the pressure generated by the foundation onto the ground is provided. When the pressure is above and beyond the values indicated in the geotechnical report / site tests provided by the Owner/Developer, the Design includes the calculation of the depth of the compacted granular fill required to comply.

The Granular Fill Required Depth (D) is intended to be read as: *"the required depth of the compacted granular fill beneath the foundation for a specified value of the ground Ultimate Bearing Capacity (immediately underneath the granular fill and subject to site verification) in absence of any unfavorable condition such as: (a) potentially compressible ground such as top soil, soft soils such as very soft clays which can be moulded easily in the fingers, and uncompacted loose gravel which contains obvious voids (b) expansive soils being those that have a liquid limit of more than 50 % when tested in accordance with NZS 4402 Test 2.2, and a linear shrinkage of more than 15 % when tested from the liquid limit in accordance with NZS 4402 Test 2.6; and (c) any ground which could foreseeably experience movement of 25 mm or greater for any reason including one or a combination of land instability, ground creep, subsidence, seasonal swelling and shrinking, frost heave, changing groundwater level, erosion, dissolution of soil in water, and effects of tree roots"*.

The investigation of the above mentioned unfavorable conditions as well as the remediation works to be undertaken (for example, but not limited: cut of the top soil, any groundworks that may extend beyond the depth of the granular fill indicated by us, deep ground improvements of any kind...) are outside of the scope of the Design. The Design is not intended to alter or substitute the instructions contained in a geotechnical report when available and it is under the

responsibility of the Client to undertake the necessary actions to assess the suitability of the ground in the respect of the unfavorable conditions listed above.

The PS1 (Producer Statement - Design) is intended for use by a suitably qualified, competent design professional (i.e. Chartered Professional Engineer) as a statement of opinion. The opinion is based on reasonable grounds that certain aspects of proposed building work will comply with the Building Code, if the work is constructed according to the referenced documentation (e.g. engineering design drawings and specifications).

The PS1 records the means of compliance e.g. the Acceptable Solution or Verification Method used and it only covers specifically designed building elements or specifically designed portions / strengthening of building elements. The Chartered Professional Engineer signatory of the Producer Statements does not provide professional opinion for means of compliance of construction elements designed/completed in accordance with design/construction procedures contained within technical manuals of proprietary systems.

The PS4 (Producer Statement - Construction Review) is intended for use by a suitably qualified, competent design professional as a statement of opinion. This is based on reasonable and stated grounds which may include the records of construction monitoring and information supplied by (i) the contractor (ii) by a person acting under the control of the Chartered Professional Engineer or (iii) collected by the Chartered Professional Engineer himself, that certain aspects of building work have been completed according to the building consent and amendments.

It is under the responsibility of the Owner / Developer's agent or contractor to notify Cresco when site observations are to be required. Cresco strongly recommends to provide sufficient notice (at least 5 working days) prior to time of site observation.

The records of construction monitoring and instructions (including authorization to proceed with concrete pouring when applicable) are provided, upon Chartered Professional Engineer's review and approval, generally within 24 hours from the date of the site observation.

A Chartered Professional Engineer nominated by Cresco will issue a PS4 if the building works have been completed (i) in accordance with the relevant requirements of the Building Consent and Building Consent Amendments, (ii) in compliance with the structural documentation and if (iii) at least all construction monitoring visits recommended within the inspection schedule as stated on the consent documents have been carried out by inspectors appointed by Cresco.

Cresco is unable to providing site observation for unauthorized and non-consent works.

Should anyone wish to discuss the content of this Design with Cresco Engineers New Zealand Limited, they are welcome to contact us on **0800 11 33 11** or support@cresco.co.nz.

Form 2A

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

THE BUILDING

Street address: **112 King Road**

Town/City: **Meeanee, Napier**

THE OWNER / DEVELOPER

Name(s): **Stuart and Sheryl Masters**

BASIS FOR PROVIDING THIS MEMORANDUM

I am providing this memorandum in my role as the: Tick <input checked="" type="checkbox"/> if included <input type="checkbox"/> if excluded	
<input type="checkbox"/>	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
<input type="checkbox"/>	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
<input type="checkbox"/>	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
<input checked="" type="checkbox"/>	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, **Fabio Parodi**, ~~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
Primary structure			
All RBW Design work relating to B1 <input type="checkbox"/>	N/A	<input type="checkbox"/> Carried out <input type="checkbox"/> Supervised	
Foundations and subfloor framing <input checked="" type="checkbox"/>	Residential Foundation Design Services	<input type="checkbox"/> Carried out <input checked="" type="checkbox"/> Supervised	See PS1
Walls <input type="checkbox"/>	N/A	<input type="checkbox"/> Carried out <input type="checkbox"/> Supervised	
Roof <input type="checkbox"/>	N/A	<input type="checkbox"/> Carried out <input type="checkbox"/> Supervised	

Columns and beams	<input type="checkbox"/>	N/A	<input type="checkbox"/> Carried out <input type="checkbox"/> Supervised	
Bracing	<input type="checkbox"/>	N/A	<input type="checkbox"/> Carried out <input type="checkbox"/> Supervised	
Other	<input type="checkbox"/>	N/A	<input type="checkbox"/> Carried out <input type="checkbox"/> Supervised	

ISSUED BY

Name: Fabio Parodi		LBP or Registration number: 1025559	
The practitioner is a:	<input type="checkbox"/> Design LBP	<input type="checkbox"/> Registered architect	<input checked="" type="checkbox"/> Chartered professional engineer
Design Entity or Company: CRESCO ENGINEERS NEW ZEALAND LIMITED			
Mailing address (if different from below): PO Box 9200 8149 Addington Christchurch			
Street address / Registered office: c.o. M J Mowat, 290 Clyde Road			
Suburb: Bryndwr		Town/City: Christchurch	
PO Box/Private Bag: N/A		Postcode: 8053	
Phone number: N/A		Mobile: 027 838 8338	
After Hours: N/A		Fax: N/A	
Email address: f.parodi@cresco-group.com		Website: www.cresco.co.nz	

DECLARATION

I **Fabio Parodi** [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: 

Date: 10/06/2024

To
Napier City Council
Building Consent Authority

10-06-2024

Dear Sir / Madam,

B2 Compliance

Residential Foundation at 112 King Road, Meeanee, Napier.

We are not able to supply a Producer Statement for Design in respect of the requirements of Clause(s) **B2** of the Building Code since there is no effective verification method for this Clause within the Building Code.

However, we can confirm that for the structural elements shown in our documentation:

Timber

Timber treatment has been selected in accordance with Table 1A of B2/AS1.

Concrete

Concrete covers have been selected in accordance with NZS3101, Part 1, Section 3.

Mild Steel

Generally, steel member/connections requirements as per NZS3604:2011 or proprietary coatings to comply with AS/NZS2312. Otherwise, steel protection has been specified in accordance with the 'Guide to the protection of structural steel against atmospheric corrosion by the use of protective coatings' AS/NZS 2312. We note that this is on a time to first maintenance basis.

We trust this provides the information that you are seeking.

Yours faithfully,



Fabio Parodi
Cresco Engineers New Zealand Limited