



**Customer:** E RICHARDS

**Document explanatory note:**

This document provides a summary of the earthquake damage identified by the EQC assessment team. Land, building and room by room damage is listed along with an indication of how this damage is to be repaired. A glossary of terms describing the type of damage that may be listed on your Scope of Works is provided at the end of this document.

**Assessment of Property at 17 MAHOE STREET, TEMPLETON, CHRISTCHURCH 8042 on 20/08/2011**

**Site**

Element	Damage	Repair
Land (Exposed - Soil - 504.00 m2)		
Land (Exposed - Soil - 152.00 m2)		

**Services**

Element	Damage	Repair
Sewerage (Town Connection - PVC Pipe - 20.00 l/m)	No Earthquake Damage	
Water Supply (Town Connection - Plastic - 20.00 l/m)	No Earthquake Damage	

**Main Building**

**Exterior**

**Roof (Concrete tile)**

Element	Damage	Repair
Roof Covering (Pitched - Concrete tile - 151.28 m2)	No Earthquake Damage	
Roof framing (Framed - Timber - 151.20 m2)	Roof sagging	Install struts under valley boards going past chimney

**Foundations (Concrete )**

Element	Damage	Repair
Piles (Ordinary - Concrete - 1.00 item)	No Earthquake Damage	
Ring foundation (Load bearing - Concrete - 54.20 l/m)	Cracks to ring foundation	Grind out and epoxy fill cracks 0.90 l/m
	Cracks to ring foundation	Paint foundation 1.86 m2

**Elevation (North wall)**

Element	Damage	Repair
Wall Cladding (Stucco - Concrete - 29.27 m2)	Cracking	Grind out, epoxy fill and repair stucco to affected area 6.80 m2
	Cracking	Paint wall 29.27 m2
Wall framing (Timber Frame - Timber - 29.28 m2)	No Earthquake Damage	

**Elevation (South wall)**

Element	Damage	Repair
Wall Cladding (Stucco - Concrete - 29.75 m2)	Cracking	Grind out, epoxy fill and repair stucco to affected area 1.20 m2



Wall framing (Timber Frame - Timber - No Earthquake Damage  
29.76 m2)

#### Elevation (West wall)

Element	Damage	Repair	
Wall Cladding (Stucco - Concrete - 29.32 m2)	Cracking	Grind out, epoxy fill and repair stucco to affected area	2.40 m2
	Cracking	Paint wall	29.32 m2
Wall framing (Timber Frame - Timber - 29.33 m2)	No Earthquake Damage		

#### Elevation (East wall)

Element	Damage	Repair	
Wall Cladding (Stucco - Concrete - 29.27 m2)	Cracking	Grind out, epoxy fill and repair stucco to affected area	2.80 m2
	Cracking	Paint wall	29.27 m2
Wall framing (Timber Frame - Timber - 29.28 m2)	No Earthquake Damage		

#### Chimney (Exterior) (Brick)

Element	Damage	Repair	
One story chimney (Single Pot - Brick - 1.00 item)	Collapsed chimney	INT - Brick - Ceiling - 1 POT	1.00 item

#### Interior

##### Ground Floor - Laundry

Room Size:  $2.00 \times 2.80 = 5.60$  (length(m) x width(m) = Area Size(m2))

Stud Height: 2.40 m

Element	Damage	Repair
No Damage		

##### Ground Floor - Toilet

Room Size:  $0.90 \times 1.80 = 1.62$  (length(m) x width(m) = Area Size(m2))

Stud Height: 2.40 m

Element	Damage	Repair
No Damage		

##### Ground Floor - Bathroom

Room Size:  $2.20 \times 2.90 = 6.38$  (length(m) x width(m) = Area Size(m2))

Stud Height: 2.40 m

Element	Damage	Repair
No Damage		

##### Ground Floor - Bedroom (Bedroom 3 - next to bathroom)

Room Size:  $3.00 \times 2.90 = 8.70$  (length(m) x width(m) = Area Size(m2))

Stud Height: 2.40 m

Element	Damage	Repair
No Damage		

##### Ground Floor - Bedroom (Madter bedroom)

Room Size:  $3.20 \times 8.10 = 25.92$  (length(m) x width(m) = Area Size(m2))



Stud Height: 2.40 m

Element	Damage	Repair	
Ceiling (Gib - Paint - 25.92 m2)	No Earthquake Damage		
Door (Internal) (Single Hollow Core - Timber - 1.00 No of)	No Earthquake Damage		
Floor (T&G - Carpet - 25.92 m2)	No Earthquake Damage		
Wall covering (Gib - Paint - 54.24 m2)	Cosmetic damage	Rake out and stop	3.00 l/m
	Cosmetic damage	Paint wall	54.24 m2
Window (Timber medium - Pane single glazed - 1.00 No of)	No Earthquake Damage		

#### Ground Floor - Bedroom (Bedroom 2 - next to family room hallway)

Room Size: 3.00 x 3.00 = 9.00 (length(m) x width(m) = Area Size(m2))

Stud Height: 2.40 m

Element	Damage	Repair	
Ceiling (Gib - Paint - 9.00 m2)	No Earthquake Damage		
Door (Internal) (Single Hollow Core - Timber - 1.00 No of)	No Earthquake Damage		
Floor (T&G - Carpet - 9.00 m2)	No Earthquake Damage		
Wall covering (Gib - Paint - 28.80 m2)	Cosmetic damage	Rake out and stop	1.00 l/m
	Cosmetic damage	Paint wall	28.80 m2
Window (Timber medium - Pane single glazed - 2.00 No of)	No Earthquake Damage		

#### Ground Floor - Hallway

Room Size: 1.30 x 11.50 = 14.95 (length(m) x width(m) = Area Size(m2))

Stud Height: 2.40 m

Element	Damage	Repair	
No Damage			

#### Ground Floor - Family Room

Room Size: 5.60 x 4.00 = 22.40 (length(m) x width(m) = Area Size(m2))

Stud Height: 2.40 m

Element	Damage	Repair	
Ceiling (Lath and Plaster - Lining paper - 22.40 m2)			
Door (External) (French doors - Timber - 1.00 item)	No Earthquake Damage		
Door (Internal) (Single Hollow Core - Timber - 1.00 No of)	No Earthquake Damage		
Floor (T&G - Carpet - 22.40 m2)	No Earthquake Damage		
Heating (Wood - Wood burner - 1.00 item)	No Earthquake Damage		
Wall covering (Gib - Paint - 46.08 m2)	No Earthquake Damage		
Window (Timber medium - Pane single glazed - 3.00 No of)	No Earthquake Damage		

#### Ground Floor - Kitchen (Kitchen, dining, sitting room)

Room Size: 2.80 x 8.00 = 22.40 (length(m) x width(m) = Area Size(m2))

Stud Height: 2.40 m

Element	Damage	Repair	
Ceiling (Gib - Paint - 22.40 m2)	No Earthquake Damage		
Door (Internal) (Single Hollow Core - Timber - 1.00 No of)	No Earthquake Damage		



Floor (T&G - T+G polished timber - 22.40 m2)	No Earthquake Damage		
Kitchen joinery (Medium Spec - Laminate - 1.00 item)	No Earthquake Damage		
Range ( Free standing oven ) (Electric - Standard Electric - 1.00 item)	No Earthquake Damage		
Range Hood (Over Head - Standard spec - 1.00 item)	No Earthquake Damage		
Wall covering (Gib - Paint - 51.84 m2)	Cosmetic damage	Rake out and stop	6.00 l/m
	Cosmetic damage	Gap fill cracks	15.00 l/m
Window (Timber medium - Pane single glazed - 1.00 No of)	No Earthquake Damage		
Work top (Kitchen work top - Laminate - 7.00 l/m)	No Earthquake Damage		

## Garage

### Exterior

#### Roof (Iron)

Element	Damage	Repair
No Damage		

#### Foundations (Concrete)

Element	Damage	Repair	
Slab foundation (Concrete Slab - Concrete - 22.62 m2)	Cosmetic cracking	Grind out and epoxy fill (up to 5mm)	3.80 l/m

#### Elevation (North wall)

Element	Damage	Repair
No Damage		

#### Elevation (South wall)

Element	Damage	Repair
No Damage		

#### Elevation (West wall)

Element	Damage	Repair
No Damage		

#### Elevation (East wall)

Element	Damage	Repair
No Damage		

### Interior

#### Ground Floor - Room (Other) (Workshop)

Room Size: 3.90 x 5.80 = 22.62 (length(m) x width(m) = Area Size(m2))

Stud Height: 2.20 m

Element	Damage	Repair
No Damage		



## Scope of Works - Glossary of Terms

<b>Cosmetic Damage</b>	Cosmetic damage is used to record repairs to an element that can be done in situ e.g. minor cracking to plasterboard. For example a repair strategy may state "rake, stop and paint" and this is carried out without needing to remove or replace the damaged element. Where the plasterboard for example needs to be removed and replaced, this will be recorded as 'structural damage'.
<b>Impact Damage</b>	Impact damage is where an element or part of a building sustains earthquake damage and then breaks away or collapses causing damage to another part of the building. An example is a chimney that has collapsed and caused damage to roof tiles.
<b>Structural Damage</b>	The term structural damage is used where a repair requires an element to be removed and replaced e.g. major cracking to plasterboard or external cladding that has been dislodged. This term does not relate to the structural integrity of the building as a whole, but to the individual element only.

## Additional Information

<b>Building Terms</b>	The Department of Building and Housing website has a comprehensive list of common building terms: <a href="http://www.dbh.govt.nz/building-az-wxyz">http://www.dbh.govt.nz/building-az-wxyz</a>
-----------------------	--



Schedule **E4**      **Defects Liability Certificate**

---

Contract: *Probuild Homes Ltd*  
Claim Number: *CCM/2011/15884*  
Location: *17 Mahoe Street*

**End of Defects Liability period**

The Principal is required to issue a Defects Liability Certificate. The NBC SW Standard Conditions rule 13.1 states that:

The Principal must certify to the Contractor when in relation to the Contract Works or a Separate Section of them:

- (a) the Defects Liability Period has ended; and
- (b) the Contractor has completed all minor omissions and corrected all minor defects referred to in rule 12.1; and
- (c) the Contractor has completed agreed deferred work.

**This Certificate**

This is to certify that in accordance with rule 13.1, the above named Contract Works the Defects Liability Period has ended, all deferred work has been completed and all defects have been corrected

The issuing of this certificate does not affect the Contractor's liability to fulfil any obligation in the Contract which remains unperformed or not properly performed.

The Principal has used all reasonable care and skill in the preparation of this Certificate

The certificate cannot be relied on for any other purpose.

Signed by/date:

*[Signature]*

*22/1/14*  
(Date signed)



## Schedule E1(a) Contractor's Producer Statement for Construction PS3

Contract: Christchurch Earthquake Recovery  
Location: 17 Mahoe Street  
Issued by: Mike Freeman  
Contractor: PROBUILD  
LBP Licence No.: B.P 104872

### Preamble:

The Contractor is required to complete this Producer Statement for Construction PS3 within 5 days of the completion of the Contract Works and issue it to the Hub Supervisor.

This Producer Statement will be relied upon to confirm that the Building Works has, to the best of the Contractor's knowledge, been performed in compliance with the NZ Building Code.

### Statement:

I, MICHAEL FREEMAN, undertook or supervised the following building work and confirm that I am satisfied on reasonable grounds that the work performed is in compliance with the NZ Building Code and, where a building consent is applicable, in compliance with the Building Consent.

### Description of the work covered by this statement:

Claim Number: 2011/115884

1. EQR Scope of works.
2. Variation - Aerial
3. Variation – Heat pump, visual audio
- 4



Signed by: Michael Freeman

5 September 2013  
(Date signed)



### CONSTRUCTION COMPLETION INSPECTION

Claim Number: 2011/115884  
 Customer/Authorised Representative: lemuel Diamante  
 Street Address: 17 mahoe street  
 Contractor: Probuild

**Description of Works**

as scope of works.

**Defects**

n/a.

**Deferred Works**

n/a.

This is to advise that the earthquake repair work performed under this contract has been reviewed and it has been agreed that works has been completed as per EQC Assessment, Approved EQR Scope and approved Variations, excluding any minor defects or omissions.

**Contractor Signature:**

M. FREEMAN [Signature] 4/9/13  
 Print Name Signature Date

**Owner/Agent Signature:**

TITA T. DIAMANTE [Signature] 4/09/2013  
 Print Name Signature Date

**Fletcher Construction Company Ltd - EQR:**

Craig Mally [Signature] 4.9.13  
 Print Name Signature Date

