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Building Code Clause(s) **B1**

**PRODUCER STATEMENT – PS1 – DESIGN**

(Guidance on use of Producer Statements (formerly page 2) is available at [www.engineeringnz.org](http://www.engineeringnz.org))

**ISSUED BY:** TD STRUCTURES LTD  
 (Design Firm)

**TO:** Lifestyle Cabin Co Limited  
 (Owner/Developer)

**TO BE SUPPLIED TO:** Any Territorial Authority within New Zealand  
 (Building Consent Authority)

**IN RESPECT OF:** Kowhai Solid Wood cabin 7X4m  
 (Description of Building Work)

**AT:** Various locations within NZ within the limitations of the schedule  
 (Address)

Town/City: (Address) **LOT** **DP** **SO**

We have been engaged by the owner/developer referred to above to provide:  
 Structural design review of Kowhai Solid wood cabin

(Extent of Engagement)

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** 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:

As per attached schedule and numbered ;  
 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 as per attached schedule
- (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) or  as per agreement with owner/developer (Architectural)

I, **DAMIAN LINEHAN** am:  CPEng **1004738** #  Reg Arch #  
 (Name of Design Professional)

I am a member of:  Engineering New Zealand  NZIA and hold the following qualifications: **BE (Hons)**

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 ACENZ:

**SIGNED BY** **DAMIAN LINEHAN** (Signature)

**ON BEHALF OF** **TD STRUCTURES LTD** Date **12/11/2021**  
 (Design Firm)

*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 ACENZ, ENGINEERING NEW ZEALAND AND NZIA**



## Schedule to Producer Statement PS1

**Job Title: Kowhai Cabin 7x4m**

**Job #: 21149**

**03/11/2021**

Lifestyle Cabins import the Kowhai 7x4m kitset cabin which falls under the category of a “single-story detached buildings up to 30m<sup>2</sup>” which are building consent exempt.

TD Structures have been engaged by lifestyle cabins to provide a design review of the Kowhai cabins in accordance with the building consent exemption requirements.

The following schedule to the PS1 outlines the assumptions and documentation required for this review. It should be noted that any deviation from the requirements in this document will void this design certificate/producer statement.

### **Register of Documentation:**

1. Lifestyle Cabins Assembly Instructions Kowhai Solid Wood Cabin 7X4m
2. Parts list for the Kowhai solid wood cabin
3. TDS Design features report
4. TDS Additional fixing detail requirements

### **Design Assumptions:**

1. Foundations and foundation connections (from provided bearers to chosen foundation solution) are assumed to be on “good ground” as per NZS 3604 and constructed in accordance with NZS 3604 2011.
2. No substitution with the products included in this design certificate is permitted
3. Local authority and planning regulations should be confirmed by the owner prior to installation.
4. The installation will be carried out by a competent person with a thorough understanding of the building techniques required.

### **Durability: (NB: this Design certificate does not cover B2 Durability)**

1. To maintain the timber and to extend the expected life of the individual elements, it is highly recommended that the timber walls be treated appropriately for their specific environmental exposure. A coating specialist will be able to advise on this.
2. To maintain durability to the subfloor and foundations elements, the acceptable solutions within NZS 3604 are to be used.

### **Additional Requirements to the standard Installation:**

1. Rafters to be nailed down into walls as per attached mark up
2. Door jambs and lintels to be fixed to wall sections as per attached mark up
3. Exterior braces to be fixed as per attached mark up
4. Floors to be screwed down to bearers as per attached mark up

TDS Job No: 21149      Date: 12-11-21      Author: DL      Reviewer: DL

These calculations pertain to Kowhai Solid Wood Cabin 7X4m at Various locations within the limitations detailed in the schedule and cover the following design aspects:

Superstructure design only of the timber cabins for wind, snow and Earthquake loads

IL = 1  
Design life = 15 years with time to first maintenance (TTFM) of 5 years

## Standards referenced

AS/NZS1170.2:2021 - Wind  
NZS 3603:1993 A1,2,4 - timber  
NZS 3604:2011 - timber buildings

## Wind loads

NZS3604 Wind Zone      Medium  
SED AS/NZS1170 - Quls      0.7      KPa

## Snow loads

Sub alpine regions only

## Structural form

Gravity:  
Tongue and groove timber ceiling spanning between timber joists onto solid timber walls. Walls and floor span between timber bearers onto non-engineer designed 3604 type foundation solution.  
Lateral Loads:  
Timber walls span horizontally between return walls and/or door/window jambs. Door and window jambs span vertically to floor and/or composite lintel beam. At each exterior edge vertical battens provide mechanical anchorage from the roof to the floor so that the walls can act in plane. Fixings to the foundations resist overturning forces.

## Permanent actions (dead loads) and live loads

### Dead loads

	Roof	Floor	External walls	Internal walls
Description	lightweight roofing	timber framed floor	solid timber wall	solid timber wall
Unit load	0.25 kPa	0.2 kPa	0.25 kPa	0.25 kPa

### Live loads (Refer table 3.1 & 3.2 Part 1 AS/NZS 1170)

	Roof	Floor	Deck	Garage
Distributed load	N/A	1.5 kPa*	N/A	N/A
Point load	N/A	1.8 kN	N/A	N/A

\*Denotes reductions allowable in specific cases

### Barrier loads

N/A

Designed using requirements of clauses 3.6 and 3.8 of AS/NZS 1170.1 as modified by B1/VM1 (clauses 2.2.7 and 2.2.8) with imposed actions as specified in Table 3.3 of AS/NZS 1170.1.

## Ductility

ductility = 3

## Soil class and seismic coefficient

NZS 3604 bracing elements		SED bracing elements			
Soil class (cl.5.3.3)	D	Soil class =	D	Z =	0.13
EQ Zone (figure 5.4)	4	S <sub>p</sub> =	0.93	T <sub>1</sub>	< 0.4 sec
		Cd type 1 element =	0.294	Cd type 2 element =	

## Soil parameters

Shallow Footings - dependable bearing limit ( $\phi=0.5$ )	150	KPa
Pile Footings - dependable limit ( $\phi=0.5$ ) end bearing	not applicable	KPa
skin friction	not applicable	KPa

Soil Type	$\phi$ (degrees)	Density (kN/m <sup>3</sup> )	Expansive class type S, M or H to AS2870 or B1/AS1
Assumed good ground	N/A	N/A	N/A

Liquefaction risk (select from dropdown)

Low

## Foundations

Standard slab on grade or ordinary piles as per NZS 3604

## Corrosion

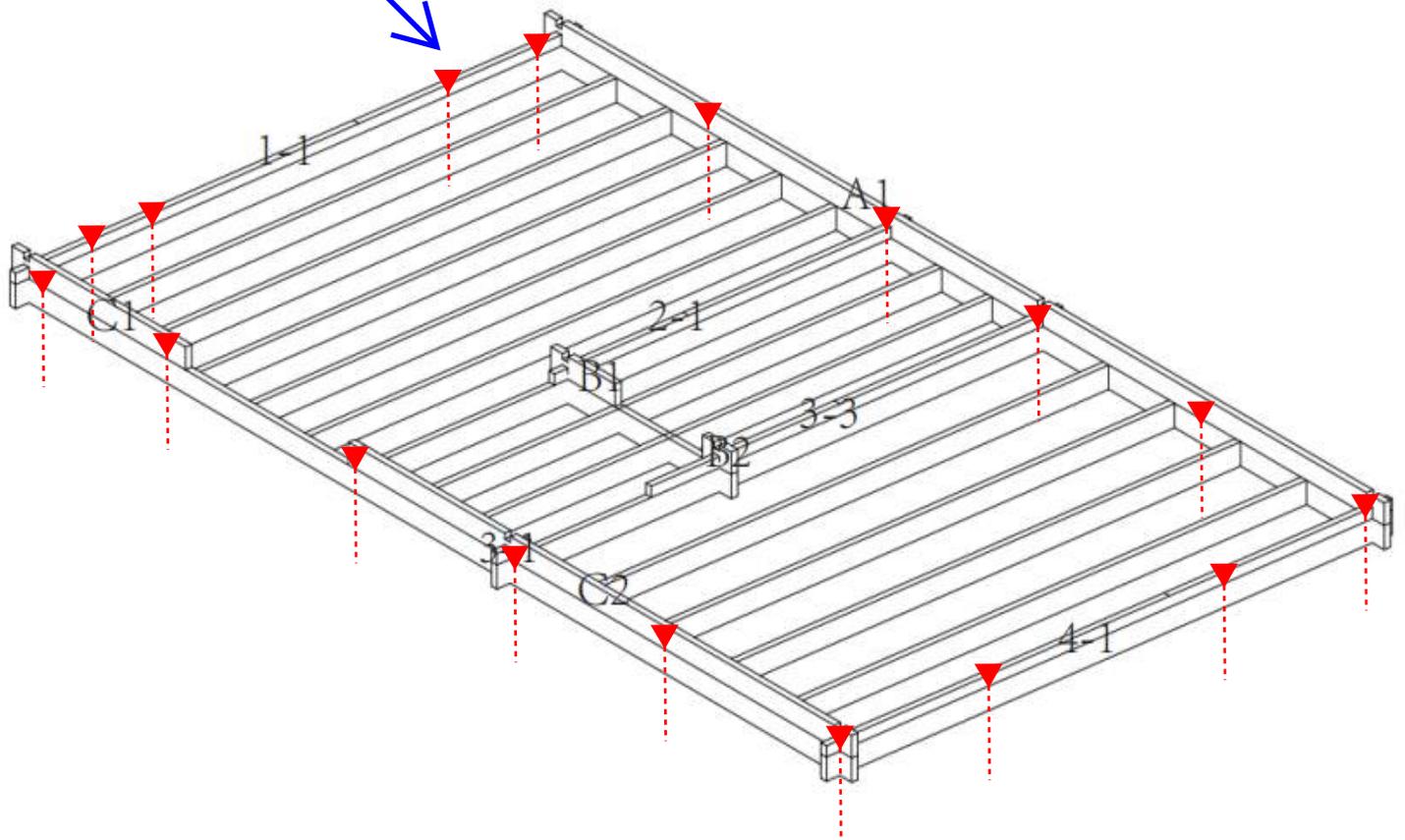
### External areas

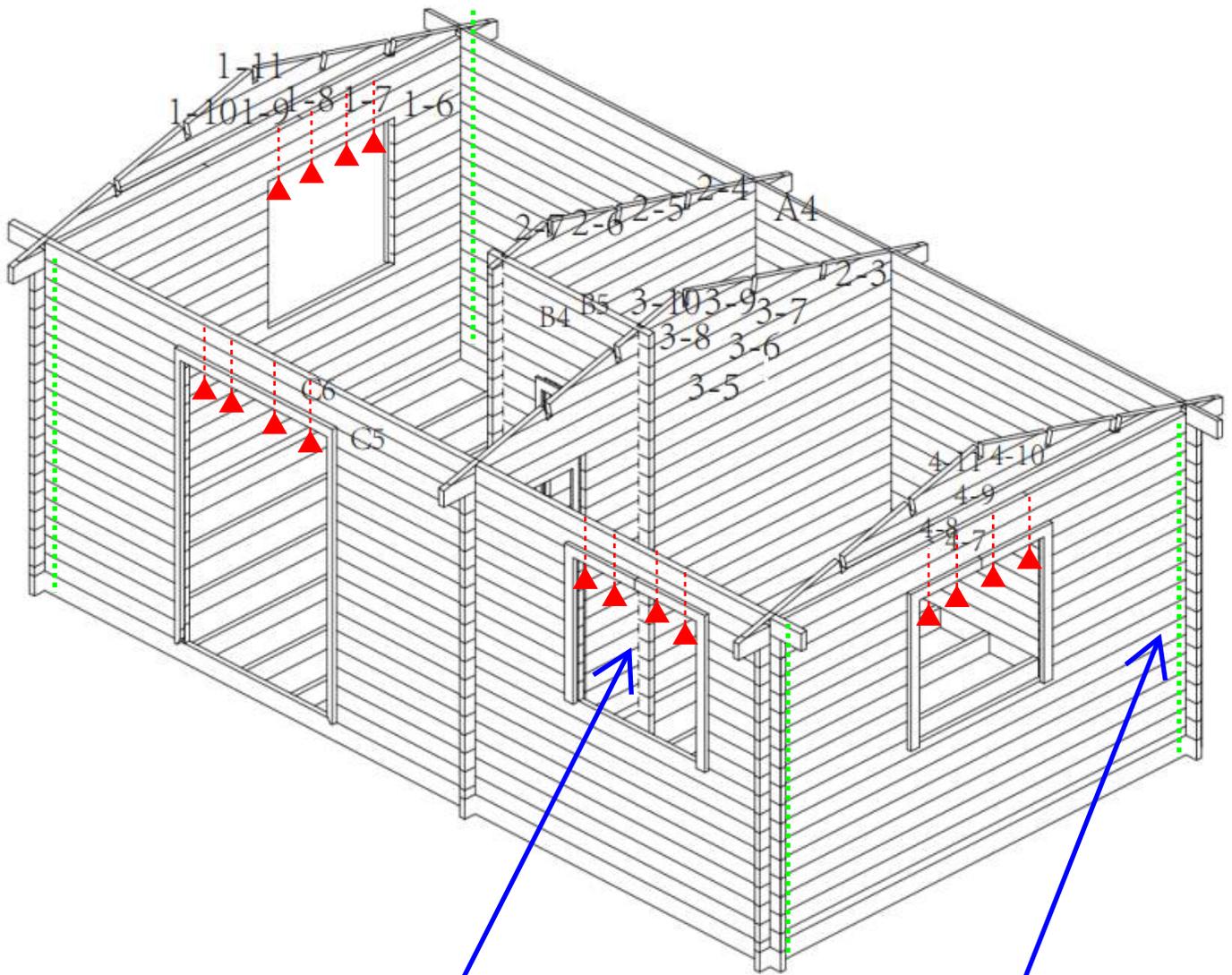
	Timber	Structural Steel	Concrete	Masonry
Zone	C NZS3604 Fig 4.2	N/A	B2 NZS3101, F3.1 T2	N/A
Provision	Treatment NZS3602, fixings NZS3604 T4.1	N/A	N/A	N/A

### Sheltered areas

	Timber	Structural Steel	Concrete	Masonry
Zone	C NZS3604 Fig 4.2	N/A	A2 NZS3101, F3.1 T2	N/A
Provision	Treatment NZS3602, fixings NZS3604 T4.1	N/A	N/A	N/A

4:  
Spax Washer head  
screws  
6mm X 160mm Long





2:  
 4 X 160mmx6mm  
 Spax Washer Head  
 screws typical at  
 every lintel

3:  
 External braces shall  
 be nailed 2x2.8mm  
 Galv nails at each  
 timber section to  
 both sides



1:  
Rafters to be nailed  
down (2x2.8mm Galv  
nails) at each rafter

