





Building Code Clause(s).....

PRODUCER STATEMENT - PS1 - DESIGN

(Guidance on use of Producer Statements (formerly page 2) is available at 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 Ne	w Zealand
	(Building Consent Authority)	
IN RESPECT OF: Woodside Solid Wood	cabin 6X4m (Description of Building Work)	
	(Address)	
		DP SO
We have been engaged by the owner/dev	eloper referred to above to provide:	
Structural design review of Woodside Soli	d 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 th	te proposed building work.
The design carried out by us has been pre	epared in accordance with:	
■ Compliance Documents issued by the	Ministry of Business, Innovation & E	Employment. B1/VM1or
		(verification method/acceptable solution)
Alternative solution as per the attached	l schedule	
The proposed building work covered by th	is producer statement is described	on the drawings titled:
As per attached schedule		
together with the specification, and other of		mbered;
-		ittached to this statement.
On behalf of the Design Firm, and subje	ct to: assumptions as per attached sched	dule
(ii) All proprietary products meeting their p	erformance specification requireme	ents;
		dance with the drawings, specifications, and othe
		elevant provisions of the Building Code and that b
		y to do so. I also recommend the following level of
construction monitoring/observation:		
■CM1	CM5 (Engineering Categories) or 🔲 as	per agreement with owner/developer (Architectural)
		1004729
I,	am: 🗖 CPE	ng# Reg Arch#
I am a member of: I Engineering New Ze	_	DE (Hons)
The Design Firm issuing this statement hole		virig qualifications
The Design Firm is a member of ACENZ:		dominity insurance he less than \$250,000.
DAMIAN LINEHAN		and the
SIGNED BY	f Design Professional)	.(Signature)
(ramo si	,	40/44/0004
ON BEHALF OF		DateDate
(1	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.

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Schedule to Producer Statement PS1

Job Title: Woodside Solid Wood Cabin 6x4m Job #: 21149 12/11/2021

Lifestyle Cabins import the Woodside Solid Wood Cabin kitset cabin which falls under the category of a "single-story detached buildings up to 30m²" which are building consent exempt.

TD Structures have been engaged by lifestyle cabins to provide a design review of the Woodside 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 Woodside Solid Wood Cabin 6X4m
- 2. Parts list for the Woodside 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 acceptable solutions provided within 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)

- 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. Lifestyle Cabins have provided guidance in relation to this. Additionally, 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

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DESIGN FEATURES REPORT

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

These calculations pertain to Woodside Solid Wood Cabin 6X4m

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 maintenace (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

0.7

SED AS/NZS1170 - Quls

KPa

Snow loads

Sub apline 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

^{&#}x27;*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 _P =	0.93	T ₁	< 0.4 sec	
		Cd type 1 element =	0.294	Cd type 2 element =		

Soil parameters

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

Soil Type	Ø (degrees)	Density (kN/m³)	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

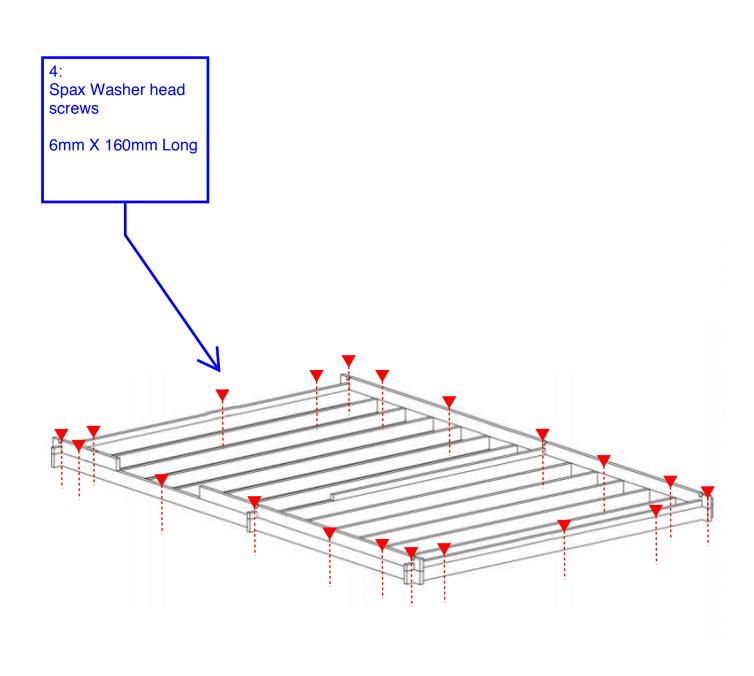
Corrosion

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

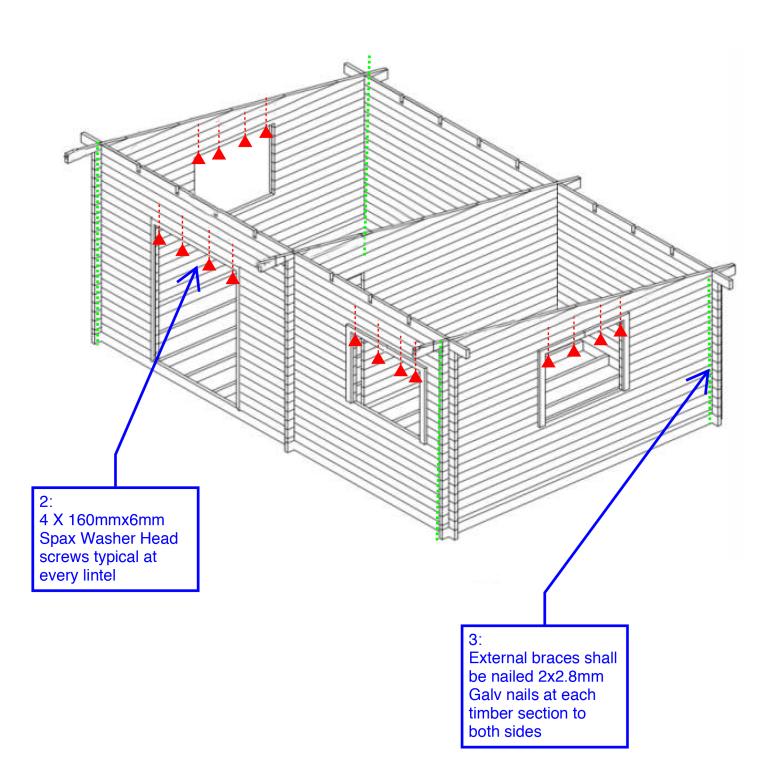
Sheltered areas

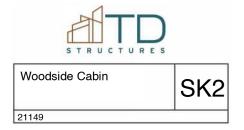
	Timber	Structural Steel	Concrete	Masonry
Zone	C NZS3604 Fig 4.2	N/A	A2 NZS3101, F3.1 T2	N/A
Provision	Treatment NZS3602, fixings NZS3604 T4.1	N/A	N/A	N/A

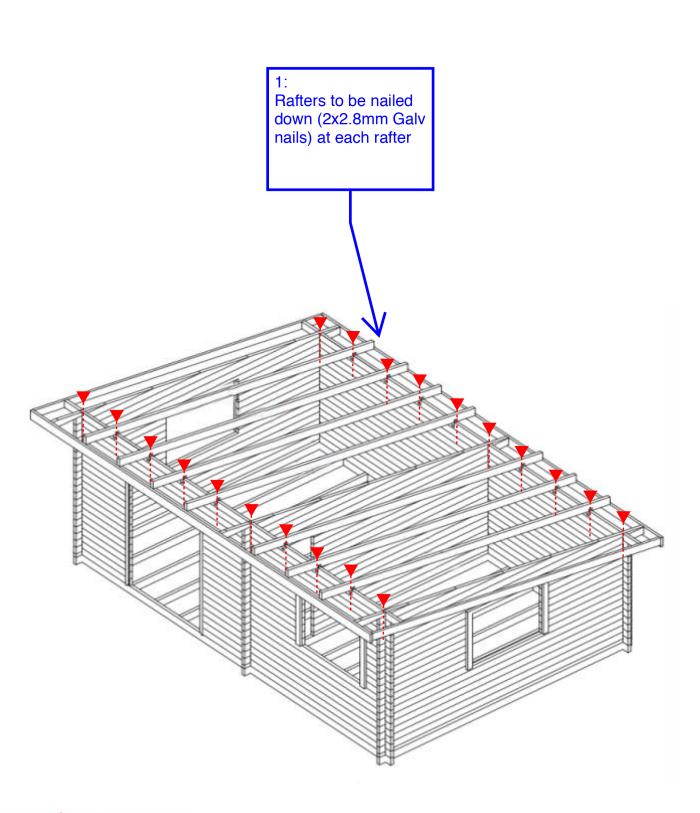




Woodside Cabin SK1









Woodside Cabin SK3