8 February 2022

To the BCA
To whom it may concern,

B2 compliance in respect of: **Solid Wood kitset cabins from Lifestyle Cabins Ltd**

At: **Various locations within NZ and within the limitations stated in the PS1 schedule**

Method of B2 Compliance for Timber:
B2/AS1 of the building code is specifically written for structures/dwellings with a life of no less than 50 years. In the case of cladding materials, compliance with B2/AS1 cannot be achieved without Chemical Treatment of timber in accordance with NZS 3640:2003. In lieu of chemical treatment, compliance can be provided by using and specifying a lower in-service design life, with specified protective surface coatings. We note that unless chemical treatment is applied, the longest tabled design life for pine is 5 years. See table below. We note however, that with a protective coating system in conjunction with good maintenance a design life of greater than 5 years is most likely achievable.
Additionally, heights of finished floor levels above adjacent finished ground levels shall be in accordance with E1 of the building code.

Material	Means of compliance	Design life	Details
Structural timber, Pinus Sylvertris. Assumed durability to be similar to that of local grown pinus species as per guidance in the Timber Design Guide 2013	B2/AS1	15 years	Timber treatment has been selected in accordance with Table 1A of B2/AS1
Structural timber, Pinus Sylvertris. Assumed durability to be similar to that of local grown pinus species as per guidance in the Timber Design Guide 2013	B2/AS1 Ref 3.3: Table 3 NZS 3602:2003	5 years	Application of CD50X as per manufacturers recommendations to keep in-service moisture range within acceptable levels Plus, a protective coating system to the exterior

8B CHARLOTTE STREET, EDEN TERRACE, AUCKLAND PO BOX 99-812, NEWMARKET, AUCKLAND
PHONE: 09 3072702 EMAIL: engineer@tdstructures.co.nz WEB: www.tdstructures.co.nz

CABINS
STRUCTURAL MAINTENANCE SCHEDULE

This schedule of ongoing inspection and maintenance of structural elements shall be included with the O&M manuals and provided to the Owner/Body Corporate and building managers.

Inspection/Maintenance timeframe and item	
(a) Half-yearly	Where applicable wash down all exposed elements that are not in a fully interior environment including:
(b) 5-yearly	Inspect and repair sealant that encloses structural mild-steel components and/or timber with mild-steel fixings.
(c) 10-yearly	Check exposed timber fixings for corrosion, repair as required.
	Inspect/replace sealant that encloses structural mild-steel components and/or timber with mild-steel fixings. This will typically include sealants around the perimeter of precast panels. **Note that 10 years is the expected useful life for many sealants.**
	Check all exposed steelwork that is not in a fully interior environment for signs of corrosion. Repair protective coatings as required.
Following seismic shaking > SLS1 event	Inspections and repair as per b), c) and d) above.

Yours sincerely,

Damian Linehan

For and on behalf of
TD Structures Ltd

8B CHARLOTTE STREET, EDEN TERRACE, AUCKLAND PO BOX 99-812, NEWMARKET, AUCKLAND
PHONE: 09 3072702 EMAIL: engineer@tdstructures.co.nz WEB: www.tdstructures.co.nz