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ABN 42 108 898 433

Wednesday, 24th September 2024

Mr James Monks
Manor Pty Ltd
5 Sunny Bank Road
LISAROW NSW 2250

Dear Mr Monks

STRUCTURAL DESIGN CERTIFICATION (24–30016)
IN ACCORDANCE WITH LOCAL GOVERNMENT (MANUFACTURED HOME ESTATES, CARAVAN PARKS, CAMPING GROUNDS AND MOVEABLE DWELLINGS) REGULATION 2021 PART 3 DIVISION 1 AND DIVISION 4
435 KALUDABAH ROAD PIAMBONG NSW 2850

We, Summermore Pty Ltd, being Registered Structural Engineers, hereby confirm that, pursuant to the provisions of Clause A2.2 of the Building Code of Australia, we certify that the footings, floor chassis and, cold formed steel roof trusses and wall frames and verandah designs for this job. The cold formed steel roof trusses and wall frames have been determined using FrameCAD computer software.

In particular, the design is in accordance with the following referenced documents:

22-28180-S01 Typical Beam & Footing Layout with Details.
22-28180-S02 Typical Verandah / Carport / Skirting with Details.
1225 Heap – Piambong DA July 24 R.2
38881-GR01_A Residential Site Investigation Report.

We further confirm that the engineering design for the cold formed steel wall frames, roof trusses and floor and footing system comply with the requirements of the referenced codes of practice for a Wind Class of Vsit,500=41m/s. All the roof trusses and wall frames are in accordance with the shop drawings provided by the FrameCAD software and installed, connected, and braced in accordance with the layout drawings as stamped and signed by this office.

We further certify the design of the footings, floor chassis and, cold formed steel roof trusses and wall frames and verandah for the abovementioned project have been designed in accordance with widely accepted engineering principles and the referenced codes of practice.

NCC:2022 Amdt One	Building Code of Australia
Environmental Planning and Assessment Regulation NSW 2000: Part 7, Local Government (Manufactured Home Estates, Caravan Parks, Camping Grounds and Moveable Dwellings) Regulation 2021: Regulation 142 & 143	
AS/NZS 1170.1:2002	Structural design actions—Part 1: Permanent, imposed, and other actions,
AS/NZS 4055:2021	Wind Loads for Housing,
AS 1170.3 -2003	Snow design actions
AS 1170.4—2007	Structural design actions, Part 4: Earthquake actions in Australia.
AS4100:2020	Steel Structures Code
AS/NZS 4600:2018	Cold Formed Steel Structures
NASH Standard: 2005	Residential and Low-Rise Steel Framing—Part 1: Design Criteria
AS 2870:2010	Residential Slabs and Footings
AS 3600:2018	Concrete Structures

The design parameters used for the abovementioned project are:

Roof Cladding:	Sheet Roof
Ceiling Cladding:	Plasterboard
Nominal Truss Spacing:	1200mm
Nominal Stud Spacing:	600mm
Wind Classification:	Vsit,500=41m/s
Soil Classification:	H1
Ground Snow Loading:	Sg,42 = 1.5 kPa
Earthquake Hazard Factor:	Z = 0.08

The manufactured home is to be built and completed at the Manor facility located at 5 Sunny Bank Road LISAROW NSW 2250. Upon completion, the manufactured home is split into its modules and temporary running gear (wheels, axles, drawbar) securely attached for transport. The modules are then wheeled onto the specialised transport vehicle low loader via ramps using heavy equipment with a hydraulic articulating arm. The modules are securely attached to the transport trailer as per RMS requirements including suitable oversize signage and lighting. The transport company will acquire the required RMS and oversize load permits prior to departure. The modules are then wheeled off the specialised transport vehicle low loader via ramps using heavy equipment with a hydraulic articulating arm. Any necessary traffic control is mobilised. A suitably qualified complexing team then install the modules are onto the piers and ensure the modules are level as per the engineering details provided.

This certification is limited to the documentation supplied for the specific site address and compliance with the requirements of the published codes of practice listed and should not be used for any other purpose. Summermore Pty Ltd accepts no responsibility for information that has not been expressly identified as part of this assessment. This assessment can only be relied upon by the addressee and cannot be relied upon by any third party. Summermore Pty Ltd accepts no responsibility for any third party that seeks to rely upon this assessment.

If we can be of any further assistance in this matter, please do not hesitate to contact this office.

Yours Faithfully

[redacted]

ENGINEERS AUSTRALIA

REGISTERED NER Engineers Australia

Ronald Bell
FIEAust (891940), CPEng, NER, APEC Engineer, IntPE(Aus), Registered Engineer Structural NSW (BDC04601).
Director
Summermore Pty Ltd