BUILDING PRODUCT INFORMATION REQUIREMENTS (BPIR) DECLARATION

Class 2 Product Declaration: Volumetric Transportable Cabins & Offices Line

Product Line:	Standard Cabins / Sleepouts / Site Offices / Commercial Complexes	**Manufacturer:**	Castle Portable Buildings Limited
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1. Product Description & Method of Manufacture

Castle Portable Buildings manufactures high-quality, pre-engineered volumetric transportable cabin, accommodation, and commercial office lines. Standard units are constructed with a high-performance envelope consisting of genuine 50mm Bondor XFLAM insulated syntactic foam panels for all exterior walls, with standard configurations utilizing a 50mm insulated structural panel roof. For site-specific consent projects, the roofing profile transitions to a 150mm Metalcraft AspireSpan polyisocyanurate (PIR) core insulated roofing panel system to satisfy targeted thermal span and severe structural criteria.

The underlying framework features high-tensile Duro galvanised steel chassis tracks supporting a heavy-duty subfloor built with 19mm H3 structural plywood sheets. All transport, logistics, and overhead craning interfaces are fully integrated into the primary structural framing using robust, retractable lifting arms engineered for overhead hoisting sequences.

2. Scope & Limitations of Use

- **Wind & Seismic Ratings:** Suitable for structural placement in geographical wind environments up to and including 'High' wind classifications as outlined by NZS 3604, and standard New Zealand seismic design tiers, subject to localized engineering verification.
- **Foundation Criteria:** Structures must be positioned on level, uniformly compacted ground conditions or pre-engineered pile footings. The design, engineering, and physical execution of site-specific foundations remain strictly excluded from the factory gate supply boundary.
- **Consents & Framework Boundaries:** This declaration covers the volumetric product kit assets delivered from the factory gate. The acquisition of regional resource management authorizations, local authority planning clearances, and building consents required under Schedule 1 of the Building Act 2004 are the sole technical and legal responsibility of the end-user.

3. New Zealand Building Code (NZBC) Compliance Matrix

Clause B1 **Structure** B1.3.1, B1.3.2, B1.3.3, B1.3.4	Compliance via AS/NZS 1170 and NZS 3404. Structural configurations rely on heavy Duro galvanised steel sub-chassis framing rails and 19mm H3 structural plywood floor bases. Thermal envelope strength is provided by genuine 50mm Bondor XFLAM insulated panel assemblies or 150mm Metalcraft AspireSpan structural roofs for consent paths. **Engineering Validation:** A structural design evaluation for the chassis and retractable lifting arms can be formally commissioned by Castle via an NZ Chartered Professional Engineer (CPEng) upon explicit request. Where required for site-specific council consents, this custom engineering validation and Producer Statement Design (PS1) can be prepared and released to clients, subject to engineer availability and an applicable design certification charge.
Clause B2 **Durability** B2.3.1(b)	Compliance via B2/AS1. Structural timber flooring elements consist of 19mm plywood sheets treated to H3 parameters to resist biological decay and subterranean moisture impacts. Main steel chassis members use heavy continuous industrial galvanised protective surfaces. Cladding panels feature multi-layered pre-painted steel exterior skins integrated directly into core foam layers, meeting standard 15-year statutory durability baselines when maintained under normal atmospheric exposure conditions.
Clause C **Protection from Fire** C3.4(a)	Compliance via C/AS1 and C/AS2. The primary wall and roof composite envelopes are manufactured utilizing genuine 50mm Bondor XFLAM insulated panel systems. XFLAM core systems have been tested to international ISO 9705 full-scale room criteria and possess an officially certified New Zealand Group 1-S fire performance classification. This achieves maximum fire safety boundaries for close-proximity commercial worksite setups, office clusters, and temporary sleepout layouts.
Clause E2 **External Moisture** E2.3.2	Compliance via E2/AS1 and CodeMark pathways. Weatherproof joinery features architectural-grade aluminium profiles integrated with engineered flashings. Custom consent lines utilize 150mm Metalcraft AspireSpan structural roofing panels with continuous interlocking steel composite skins, providing complete water ingress protection across minimum design slope pitches when matched with standard perimeter flashing arrays.
Clause F7 **Warning Systems** F7.3.1	Smoke detection and warning assets are **not fitted as a standard factory asset**. It remains the sole operational obligation of the client or end-user to secure a site-specific fire report and install compliant detection systems (such as interconnected photoelectric smoke alarms) upon site positioning. On-site subcontractor trade installation of smoke alarms by Castle can be arranged exclusively during the design and customization phase prior to manufacture.

Clause G9 **Electricity** G9.3.1	Compliance via AS/NZS 3000 and AS/NZS 3001.2. Internal distribution paths, isolating switchboards, circuit breakers, lighting fixtures, and power outlets are completely wired and tested by Castle's contracted New Zealand Registered Electrician. Buildings are supplied accompanied by either an Electrical Certificate of Compliance (ECOC) or an Electrical Warrant of Fitness (E-WoF), depending strictly on whether the ordered configuration features a hardwired permanent mains interface or a transportable caravan-style socket inlet.

Clause H1 **Energy Efficiency** H1.3.1, H1.3.2	Compliance via H1/AS1. Thermal performance options are split by product application. Standard hire buildings are delivered configured with single-glazed aluminium window systems and 50mm insulated envelope structures. Custom design models engineered specifically for formal council building consent pathways utilize double-glazed thermal break aluminium joinery in combination with the **150mm Metalcraft AspireSpan roofing panel system (achieving up to an R7.5 thermal rating)** to successfully satisfy localized H1 energy efficiency compliance minimums across NZ climate zones.

4. Installation, Storage & Maintenance Requirements

Site Setup & Hoisting: The transportable cabin or office must be positioned level on its designated engineering foundation footprint. All crane, hiab, or transport lifting actions must hook directly into the integrated, heavy-duty **retractable lifting arms**. Final site connections to main electrical infrastructure grids must be executed by local Licensed Tradespeople.

Maintenance Protocols: External metal panel faces should be washed periodically using clean water and non-abrasive, pH-neutral detergents to prevent environmental salt accumulation. Weather seals, window flashings, and under-chassis support joins must be visually checked annually to ensure long-term structural weather-tightness.

Legal Disclaimer: This Building Product Information Requirements (BPIR) Declaration is issued by Castle Portable Buildings Limited to demonstrate compliance pathways under the Building Amendment Act 2021. This document relates purely to the volumetric building component configurations as supplied from the factory gates. It does not replace site-specific engineering certifications, resource management authorizations, or local territorial authority building consent declarations.