BUILDING PRODUCT INFORMATION REQUIREMENTS (BPIR) DECLARATION

Class 2 Product Declaration: Volumetric Transportable Single-Pod Toilet & Shower Line

Product Line:	The Portable Toilet / Standalone Portable Showers / Single-Pod Mobile Bathrooms
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1. Product Description & Method of Manufacture

Castle Portable Buildings manufactures customisable, pre-engineered individual standalone transportable toilet, shower, and bathroom pods designed for rapid commercial, industrial, site welfare, and hire utilities. The physical envelope utilizes genuine high-performance 50mm Bondor XFLAM insulated structural syntactic foam panels for all external wall and roof faces, delivering exceptional thermal efficiency and fire barrier properties. The foundation is integrated onto high-tensile Duro galvanised steel chassis tracks supporting a primary subfloor sheet network of 19mm H3 structural plywood. Transport and site maneuverability features are built cleanly into the main structural frame using robust, retractable lifting arms designed for professional overhead hoisting sequences. These single pods are manufactured as a dry building product shell designed to exhaust wastewater downwards via floor or wall framing layouts directly into site infrastructure or external receiving units.

2. Scope & Limitations of Use

- **Wind & Seismic Zones:** Suitable for deployment in geographical wind zones up to and including 'High' as dictated by NZS 3604, and standard New Zealand seismic regions, contingent on final site-specific placement criteria.
- **Foundation & Placement:** The structure must be positioned on level, stable, and appropriately compacted ground, layout grids, or pile networks. It is engineered to sit directly on flat ground, blocks, or on top of external containment units such as heavy-duty standalone Formit Waste Tanks. All site-side foundation calculations are excluded from the factory gate supply boundary.
- **Wastewater Management Boundary:** The single pod unit does not contain an onboard, integrated internal waste retention holding tank or internal chemical drop-tank system. It requires immediate site connection to a reticulated municipal sewerage connection or placement over an engineered standalone waste storage tank system.
- **Consents & Compliance:** This declaration strictly covers the factory-assembled volumetric pod asset from the factory gates. All site placement authorizations, resource management approvals, and local territorial council building consents under Schedule 1 of the Building Act 2004 are the sole responsibility of the end-user or hirer.

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. The load-bearing subfloor framework uses Duro galvanised steel chassis rails supporting 19mm H3 structural plywood flooring sheets. Structural envelope integrity is achieved via genuine 50mm Bondor XFLAM insulated structural panels. **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 treated to H3 parameters protecting against fungal decay and moisture attack. Framing assemblies feature industrial protective galvanised layers. Outer shell faces incorporate multi-layered pre-painted steel sheet coatings fused with the XFLAM core, achieving a standard 15-year durability performance baseline when maintained under standard environment exposures.
Clause E3 **Internal Moisture** E3.3.2, E3.3.3	Compliance via E3/AS1 Section 3.0. Space linings within the sanitation zones use completely water-impervious, smooth, and easily cleanable materials. Floors are lined flat with continuous heat-welded commercial sheet vinyl seams, finished with a 150mm pencil fillet coving up the wall bases only as and when required by code or site consent conditions. Shower pods are lined with dedicated commercial wall vinyl or an alternative code-compliant liner to eliminate risk to structural boundaries.
Clause G1 **Personal Hygiene** G1.3.1, G1.3.2	Compliance via G1/AS1. Single pod layouts are configured with standard individual sanitary fixtures (including water closets or handwash basins) as per client order specifications. Determining whether the single-pod layout matches site occupant counts or localized workplace amenities requirements remains the responsibility of the client or site layout coordinator.

Clause G9 **Electricity** G9.3.1	Compliance via AS/NZS 3000 / AS/NZS 3001.2. Internal pod electrical paths, switches, and water-resistant luminaires are installed by a New Zealand Registered Electrician. Pods are supplied with either an Electrical Certificate of Compliance (ECOC) or an Electrical Warrant of Fitness (E-WoF), depending directly on whether the single pod features a mains hardwired junction or a transportable caravan-style inlet plug. Site utility connection is excluded from manufacture.
Clause G12 **Water Supplies** G12.3.1, G12.3.7	Compliance via G12/AS1. Internal pressure supply feed pipe lines are routed under the pod structure and brought up cleanly through the floor grid. Standard layout runs utilize 15mm Buteline lines unless an alternative configuration is prepared by a hydraulics engineer. Pods deliver dry with no hot water heating elements standard. Where a water heater is requested, the client specifies the source (Gas vs HWC) and volume capacity, and Castle logs the subcontractor plumber. The plumber retains full authority over compliant brand selection, carries out the factory fitout, and issues the final code sign-off.
Clause G13 **Foul Water** G13.3.1, G13.3.2	Compliance via G13/AS1. Internal waste plumbing runs utilize 40mm DWV pipes for handwash basins routed through the walls by default. Single toilet pan discharges utilize 100mm DWV fittings routed through the wall layout, while shower pods exhaust waste directly down through the floor assembly. All plumbing lines extend beyond the outer shell and terminate at 80mm protruding stubs (or 100mm depending on specific layout configurations), providing a clear hand-off terminal for on-site certifying plumbers to connect into network connections or standalone waste tanks.

4. Installation, Storage & Maintenance Requirements

Site Setup & Leveling: The single pod structure must be leveled carefully upon its on-site resting points or tank platform. Over-the-top lifting or positioning runs must securely engage the built-in retractable lifting arms. All final on-site tie-ins to water networks, holding tanks, or regional sewers must be managed by New Zealand Licensed Plumbers and Registered Electricians who are responsible for verifying localized code alignment and providing site-side certification.

Maintenance Framework: Exterior cladding sheets should be washed periodically with water and mild, neutral detergents to preserve the factory pre-painted finish layers. Structural seals, joint layouts, and beneath-floor plumbing stubs should be inspected yearly. Continuous commercial vinyl flooring should be cleaned using non-porous methods to protect traction performance and internal moisture boundaries.

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 transportable volumetric building component lines as supplied from the factory gates. It does not replace site-specific foundation design, regional planning rules, or local territorial authority building consent declarations.