

PIPER'S PARTIES | RISK ASSESSMENT & METHOD STATEMENT (RAMS)

Document Reference:	PP-RAMS-001-V8
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Operational Voltage Baseline:	24V DC Extra-Low Voltage (SELV System)

PART 1: METHOD STATEMENT

1. Delivery & Mechanical Logistics

Step	Activity	Control Measures
1.1	Arrival & route survey	Survey transit route from the delivery vehicle to the installation footprint for floor anomalies, level changes, and moisture.
1.2	Transfer of units	Transfer display units and backdrops directly from the vehicle onto a low-center-of-gravity transport trolley to eliminate manual handling fatigue and dropped-object hazards during transit.
1.3	Surface protection	The base of each 18mm structural plywood chassis is fitted with a permanent, high-density non-abrasive felt isolation layer. This physical barrier ensures zero direct wood-to-floor contact, completely eliminating the risk of surface scratching or abrasion to the venue's flooring during final positioning.
1.4	Positioning	Units are positioned as freestanding feature props or nested in layered configurations against venue walls.

2. Electrical Integration & Perimeter Power Management

Step	Activity	Control Measures
2.1	Voltage system	The installation utilizes a 24V Extra-Low Voltage system. Main 230V power is converted immediately at the source link via certified transformer blocks tucked tightly inside the number chassis footprint.
2.2	Internal connections	All internal connections utilize mechanical bootlace ferrules clamped under solid steel screw terminals, completely eliminating bare copper movement.
2.3	Power delivery infrastructure	Main 230V routing utilizes trade-certified, dual-socket (2-gang) trailing extensions equipped with integrated surge protection and localized thermal fuses. This setup allows two numeric display units to be powered safely from a single perimeter source link, minimizing the total volume of cables on the floor.
2.4	Cable routing & aesthetic management	Power delivery utilizes low-profile inline extension cables. To preserve the strict visual standards of high-end event spaces, cables are routed tightly along architectural perimeters and wall bases, eliminating long open floor runs.
2.5	Adhesive anchoring	Perimeter cables are secured using low-profile clear adhesive gaffer tape applied at strategic anchor points to prevent lateral cable drift and keep lines flush against the wall interface

		without disrupting venue aesthetics.
2.6	Restricted zone isolation	Localized physical barriers, utilizing venue seating or architectural elements, are deployed to clearly demarcate the restricted zone behind the numbers and prevent guests from entering the rear enclosure area.

3. Structural Stabilization & Ballast Dynamics

Step	Activity	Control Measures
3.1	Backdrop materials	Backdrops are engineered from solid 18mm structural plywood, scaling in succession from large-format units (1.8m height by 1m width) down to compact units (1.1m height by 600mm width).
3.2	Wedge geometry	Stability is maintained via integrated triangular rear wedge braces. The vertical height of the brace is engineered to occupy approximately 75% of the total backdrop height, and the rear horizontal footprint projects backward by approximately 50% of the backdrop's total width.
3.3	Lean angle & counterweight	The large-format 1.8m units are set with a secure rearward inclination of up to 92 degrees, shifting the center of gravity permanently toward the support wedge. A maximum ballast of 25kg of dedicated, enclosed stage weight is locked down at the absolute furthest horizontal point of the triangle base to counter forward tipping torque.

4. Modular Backdrop Frames & Volumetric Decor

Step	Activity	Control Measures
4.1	Framework stability	Shimmer walls and lightweight backdrops utilize adjustable, wide-base telescopic frames. A baseline ballast of up to 10kg is placed across the frame feet to anchor the system against venue walls.
4.2	Self-supporting cascade design	Balloon garlands are engineered utilizing an asymmetrical cascading layout with a wide, high-volume base configuration directly resting on the floor. Because the weight is concentrated at ground level, the decoration exerts negligible downward or lateral pull on the supporting frame structure.
4.3	Organic exclusion barriers	The volumetric footprint of the base balloons naturally forms a physical barrier zone around the display, restricting guest access to the equipment infrastructure and neon signage without requiring artificial crowd barriers.

5. Plinth & Cake Stand Deployment

Step	Activity	Control Measures
5.1	Plinth layout	Cake plinths are engineered from solid 18mm structural plywood with a stable, square/rectangular footprint. They are positioned exclusively on level surfaces.
5.2	Load balancing	The hollow interior design ensures the baseline weight remains low, while the 18mm top surface is rated to support the vertical load of multi-tiered

		event cakes. The plinth is positioned clear of high-traffic pivot points to eliminate accidental impact displacement.
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6. Easel & Foam PVC Signage Deployment

Step	Activity	Control Measures
6.1	Three-point structural stability	Welcome signs are deployed utilizing heavy-duty triangular-base easels (metal or timber specifications). The three-point footprint provides inherent geometric stability against standard tipping forces. Units are positioned exclusively on solid, level floor surfaces.
6.2	Mechanical retaining protocol	Signage substrates consist of 6mm high-impact ductile PVC. To completely eliminate the risk of the board rolling, sliding, or being blown off the support ledge by ambient drafts, the board is mechanically locked directly to the easel frame uprights using a discrete, high-tensile zip-tie tether during final positioning.
6.3	Debris & fracture control	In accordance with the physical properties of 6mm PVC, any extreme impact failure results in localized ductile snapping rather than brittle shattering. This entirely eliminates the hazard of sharp shards or glass-like fragmentation in public areas.

7. Low-Voltage Signage (Neon Integration)

Step	Activity	Control Measures
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7.1	Power conversion baseline	Architectural neon signage operates on a 12V Extra-Low Voltage system. Main 230V power is stepped down immediately at the mains source using regulated, factory-sealed USB power adapters.
7.2	Chassis attachment	Neon fixtures are mechanically secured directly to the rigid frame infrastructure or backdrop matrix using load-rated zip-ties or clear structural anchors to prevent accidental displacement or falling-object hazards.

8. Miniature Children's Furniture (Kiddies Table & Chairs) Dual-Logistics Protocol

Step	Activity	Control Measures
8.1	Mechanical pre-deployment audit	Prior to any children's wooden furniture leaving the central storage footprint, a hands-on mechanical assessment is performed on every table and chair. The installer manually inspects all structural joints, load-bearing fasteners, and hardware. Any loose nuts, bolts, or structural fixings are immediately nipped up and tensioned to maximum specification to eliminate any collapsing risk.
8.2	Material coating & toxicity baseline	Furniture components are treated exclusively with a professional-grade, non-toxic, water-based white enamel paint with zero clear-coat or lacquer overlays. This eliminates chemical off-gassing, blistering, or brittle flaking hazards.

8.3	Logistics split — Scenario A (Client Collection)	The physical responsibility for transport stabilization, vehicle loading, and final on-site positioning sits entirely with the hiring party. Mechanical integrity is verified and checked at the point of domestic collection.
8.4	Logistics split — Scenario B (Piper's Parties Delivery)	When delivered and deployed by the installer, the furniture array is set up exclusively on flat, level flooring in dedicated low-traffic family zones, completely clear of primary adult thoroughfares, doors, and service corridors.

PART 2: RISK ASSESSMENT

Ref	Hazard	Persons at Risk	Pre-Mitigation Risk	Control Measures / Mitigation Protocol	Residual Risk
RA-01	Electrical Shock / Fire	Guests, children, staff, installer	MEDIUM / HIGH	Prop internals run exclusively on 24V DC extra-low voltage, entirely eliminating high-voltage AC lines inside the display chassis. Sourced via external certified transformer blocks tucked tightly within the unit footprint. Neon signage operates on 12V via certified USB power bricks bought from compliant UK retailers. All internal joints utilize mechanical bootlace ferrules. Extension leads are equipped with integrated circuit breakers.	LOW

RA-02	Thermal Burns (Guests / Children)	Guests, children	LOW / MEDIUM	The assets utilize solid-state, low-wattage LED chips housed inside insulated plastic Cabochon caps or low-voltage neon. Energy is converted directly to light rather than heat dissipation. The external caps and neon surfaces remain completely cold to the touch under indefinite continuous operation.	VERY LOW
RA-03	Slips, Trips, and Falls	Guests, children, staff, installer	LOW / MEDIUM	Operational placement is strictly limited to venue perimeters, architectural boundaries, and corners where baseline foot traffic is naturally restricted. Exposed cable sections crossing floor surfaces are spot-anchored and locked flat	LOW

				using clear adhesive gaffer tape. Rear connection zones are physically isolated from the public using the wide-base balloon cascades or localized venue features.	
RA-04	Structural Topple / Displacement (Impact / Environmental)	Guests, children, staff	LOW / MEDIUM	Display units are structurally stable due to heavy 18mm plywood construction and rear triangular wedges (75% height / 50% width) setting an 80-degree rearward incline with up to 10kg ballast. Backdrop frames are weighted at the base. Balloon garlands are engineered with a wide floor-based pyramid profile, meaning the system load is self-supporting at ground level and creates	LOW

				zero tipping torque.	
RA-05	Property Damage (Venue Floor Abrasion)	Venue	MEDIUM	Permanent high-density felt isolation pads are affixed to the base of all timber chassis components. Load-in and load-out utilize rubber-wheeled transport trolleys. Manual dragging of raw timber surfaces on venue flooring is strictly prohibited.	VERY LOW
RA-06	Balloon Rupture & Latex Exposure	Guests, children	LOW / MEDIUM	Use of premium, commercial-thickness latex to prevent accidental popping from ambient temperature shifts. Volumetric clusters are positioned clear of direct heat sources or sharp architectural edges. Any popped fragments	VERY LOW

				generated during setup are immediately collected and disposed of by the installer to eliminate pediatric choking hazards.	
RA-07	Signage Displacement / Board Topple	Guests, children, staff	LOW / MEDIUM	Inherent triangular geometry of easel frames prevents spontaneous overturning. Mandatory deployment of high-tensile zip-tie loops to mechanically lock the 6mm PVC substrate to the chassis, completely eliminating sliding or rolling failure modes. Material properties of 6mm PVC ensure zero brittle fracturing or shard hazards if a drop occurs.	VERY LOW
RA-08	Plinth Displacement /	Guests, children	LOW / MEDIUM	Inherent low-center-of-gravity square	LOW

	Load Topple (Cake Impact)			geometry of the 18mm ply plinth prevents independent tipping. Positioned in dedicated low-traffic venue zones. The top surface is checked for level stability post-placement before the load asset is deployed.	
RA-09	Children's Furniture Mechanical Failure / Loose Fasteners	Children	LOW / MEDIUM	Solid wood frames with wide-set legs to prevent tipping. Absolute exclusion of folding mechanisms to eliminate finger-pinch points. Chemical hazards are engineered out via inert water-based white enamel paint with zero secondary clear-coat or lacquer overlays. Mechanical risk is mitigated by a mandatory	LOW

				pre-deployment structural check where all nuts and bolts are physically checked and nipped up before the client takes possession or before venue handover.	
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PART 3: SIGN-OFF, CUSTODY TRANSFER & FIELD VALIDATION

Prior to departing the venue or releasing gear for collection, the installer executes compliance checks to complete the installation record:

Ref	Check	Procedure
SO-01	The Logbook Audit	Verify that the localized asset logbook label is permanently affixed to the 2-gang extension cables, transformers, and multi-port USB adaptors. The label must explicitly show the initial date of purchase/service entry and the calculated 'Next Inspection Due' date set exactly 12 months in the future, establishing a clear statutory paper trail matching the original procurement invoice from UK retail suppliers to satisfy the manufacturer exemption rule.
SO-02	The Footprint Check	Ensure no part of the wooden stabilization triangle, frame feet, or ballast blocks protrudes into active thoroughfares, and verify the wide balloon cascade base naturally blocks all public access paths to rear electrical points.
SO-03	The Photographic Record	Capture clear, wide-angle digital photographs showing the taped-down power lines, the placement of the ballast, the felt-padded bases, and the structural integrity of the display. This serves as contemporaneous evidence that the installation was left in a flawless, zero-hazard state.
SO-04	The Touch & Tension Audit (Kiddies Furniture)	Physically check and tighten all structural hardware and run a hand over the cured water-based enamel to ensure the asset is mechanically sound and smooth.

		If executing an on-site delivery, verify the array is positioned away from main catering or foot-traffic bottlenecks before executing the digital handover photo.
SO-05	The Transfer of Custody & Risk	Upon completion of the physical setup or point-of-collection handover, a digital confirmation is sent directly to the client or venue coordinator containing the timestamped photographs.

Operational Boundary

Following this transmission, absolute custody of the display and the live venue environment transfers entirely to the client/venue.

Housekeeping Responsibility: Piper's Parties maintains zero active monitoring of the site post-departure. Ongoing housekeeping, environmental monitoring (such as internal climate control changes causing late-stage balloon ruptures), and the immediate clearance of any post-handover debris caused by guest interaction or accidental popping are the sole operational responsibility of the client and venue stewards.

Document Reference: PP-RAMS-001-V7 | Assessor: Kobus Labuschagne | Operational Voltage Baseline: 24V DC Extra-Low Voltage (SELV System)