

PIPER'S PARTIES | INFLATABLE AMUSEMENT EQUIPMENT RAMS

Document Reference:	PP-RAMS-INFLATABLE-001-V2
Asset:	12x15ft White Commercial PVC Bouncy Castle
Assessor:	K. Labuschagne
Compliance Framework:	UK HSWA 1974 BS EN 14960 PIPA Inspection Scheme
Insurance:	Sharrocks Insurance — Inflatable Amusement Equipment
Date of Issue:	27/07/2026

PART 1: ASSET SPECIFICATION & CERTIFICATION

Asset Type:	Commercial-Grade Inflatable Bouncy Castle
Dimensions:	12ft x 15ft (3.66m x 4.57m) — White PVC Construction
Material Specification:	Heavy-Duty Commercial PVC, fire-retardant treated, UV-stabilised
PIPA Inspection Tag:	REG.64940 Annual Certification — Next Due: 06/05/2027 (found on the item)
Blower Unit:	CE-marked continuous-flow blower, rated for asset volume
Public Liability Insurance:	Sharrocks Insurance — Bapia Underwriting

PART 2: METHOD STATEMENT — DEPLOYMENT PROTOCOL

1. Pre-Deployment Site Survey

Step	Activity	Control Measures
1.1	Site assessment	Conduct visual and physical survey of deployment area. Verify ground gradient does not exceed 1:20. Identify and mark underground services, tree roots, sharp debris, or surface hazards. Minimum clearance zone: 2m on all sides, 4m overhead (power lines, branches).
1.2	Substrate verification	For outdoor deployment: verify soil density and composition. Soft or waterlogged ground is prohibited. For indoor deployment: verify floor load capacity and surface integrity.
1.3	Weather assessment	Check the Met Office weather forecast before deployment and assess local weather conditions throughout installation and operation. The inflatable must not be erected or used where sustained wind speeds or gusts reach or exceed 24 mph (Force 5 / 10.7 m/s) . If weather conditions deteriorate, or wind speeds or gusts approach this limit, operation must cease immediately, all users must be evacuated, and the inflatable safely deflated in accordance with the emergency procedure.
1.4	PIPA tag verification	Physically inspect the PIPA annual inspection tag. Confirm tag is legitimate, current, in date, and matches the asset serial number. Record tag number in the inspection log.

2. Manual Handling & Transport

Step	Activity	Control Measures
2.1	Two-man lift protocol	All loading, offloading, and site transit operations require a minimum of two competent persons. Communication via agreed hand signals or verbal call-and-response. No single-person lifts under any circumstances.
2.2	Sack truck	Deploy heavy-duty sack truck rated for the asset weight. Verify sack truck wheel integrity and body frame condition prior to use. Secure rolled/deflated castle to the sack truck using rated cargo straps. Two-person operation mandatory.
2.3	Route planning	Survey transit route from vehicle to deployment footprint. Eliminate steps, navigate gradients not exceeding 1:12, bypass narrow passages, and route as necessary to the destination.
2.4	Ground protection	Deploy 4m x 5m heavy-duty groundsheet over entire deployment footprint prior to unrolling the inflatable. Groundsheet must be free of tears, holes, or contamination. This prevents PVC abrasion, moisture wicking, and thermal transfer from hot/cold surfaces.

3. Inflation & Structural Deployment

Step	Activity	Control Measures
3.1	Unrolling	Unroll the deflated castle onto the centred groundsheet. Ensure no twists, folds, or trapped air pockets in the base seams. Align entry/exit step with the designated access path.
3.2	Blower connection	Connect CE-marked continuous-flow blower to the inflation tube. Deploy two tether straps: one supplied by the manufacturer plus one extra auxiliary tether

		strap for structural security. Verify blower intake is clear of debris and positioned on stable, level ground.
3.3	Inflation sequence	Energise blower and monitor inflation. Verify all inflation chambers achieve full pressure. Listen for air leaks at seams or valve points. Do not permit access until the castle is fully pressurised and structurally stable.
3.4	Step & mat positioning	Secure the entry step and any supplementary safety mats. Mats must be flush with the step edge and free of trip hazards. Safety matting extends around the full castle perimeter where required.

4. Outdoor Anchoring — Wind Load Management

Step	Activity	Control Measures
4.1	Stake specification	Deploy 400mm structural steel rebar stakes. Stakes must be straight, undamaged, and free of corrosion. Minimum diameter: 16mm.
4.2	Driving protocol	Drive stakes fully into verified high-density soil substrate at a 60-degree opposing angle (away from the inflatable). Use a sledgehammer or pneumatic driver. Stake head must be flush with or below ground level to prevent trip hazards.
4.3	Auxiliary tether straps	Attach heavy-duty auxiliary tether straps with terminal lugs through all designated structural anchor points on the castle. Extend load vectors outward to maximise ground contact area. Straps must be tensioned equally — no slack permitted.
4.4	Wind monitoring	The competent person in charge must monitor local wind conditions throughout operation. If wind gusts feel faster than 20 mph, the competent person must prepare for equipment shutdown.
4.5	Emergency deflation trigger	If sustained winds exceed 24 mph (Force 5) or gusts exceed 30 mph: immediately cease operation, evacuate all users, disconnect blower power, and open all deflation zips. Do not attempt re-inflation until winds have dropped below 19 mph for a minimum of 10 minutes.

5. Indoor Ballast — Anti-Tip Protocol

Step	Activity	Control Measures
5.1	Ballast specification	Deploy eight certified 25 kg ballast weights. Total ballast: 200 kg minimum. Ballast consists strictly of kiln-dried sand housed inside double-lined, heavy-duty woven sacks.
5.2	Material exclusion	Sacks are filled strictly with kiln-dried sand only. Strict prohibition on loose aggregate, pebbles, stones, or water-filled containers. These materials present slip, spill, and floor abrasion hazards. Only sealed sand sacks are permitted.
5.3	Distribution pattern	Distribute ballast sacks evenly across all eight structural anchor points. Each anchor point receives one 25 kg sack. Sacks must be placed flat — no stacking or cantilevering.
5.4	Floor protection	Place non-slip rubber matting beneath each ballast sack to prevent floor marking, sliding, or condensation transfer. Verify matting is dry and clean prior to placement.
5.5	Anchor strap connection	Secure ballast sacks to anchor points using rated carabiners or D-rings. Straps must remain taut. Check tension after 30 minutes of operation and re-tighten if settlement occurs.

6. Electrical Distribution & Safety

Step	Activity	Control Measures
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6.1	Power source	Primary power sourced from venue domestic 13A wall socket. Alternative: suitably rated generator with RCD-protected output. Generator must be sited outside the electrical exclusion zone with adequate ventilation.
6.2	RCD protection	Mandatory active fault protection via 13A plug-through RCD safety adaptor providing 30mA earth-leakage interruption with <30ms trip time. Test RCD function using the TEST button prior to every deployment.
6.3	Power bridging	Bridge from venue socket to blower via 16A campsite/caravan hook-up kit. Connection must be weatherproof (IP44 minimum) if used outdoors.
6.4	Trailing leads	Use heavy-duty H07RN-F rubber trailing leads rated for the blower load. Total uncoiling of extension runs is mandatory during operation to eliminate thermal choking and inductive heating. No coiled cable sections permitted.
6.5	Cable routing & securing	Indoor: cables crossing foot traffic are secured down directly using clear gaffer tape to eliminate shifting and trip hazards while leaving zero residue. Outdoor: cables routed along perimeters or beneath groundsheet edges, secured with low-profile cable covers where foot traffic crosses. Maintain 2m clearance from water features, drinks stations, or sprinkler systems.
6.6	Rain/water ingress protocol	If rain begins during outdoor operation, the competent person in charge must shut down all equipment, deflate it, remove the motor and cables, and store them indoors. Nobody is permitted to use the jumping castle for the remainder of the hire due to slip, trip, and fall hazards once wet.

7. Safety Area, Exclusion Zone & Public Safety

Step	Activity	Control Measures
7.1	Safety area (castle perimeter)	Maintain a minimum 2m clear safety area around the entire inflatable footprint. This is open space only — no furniture, fixtures, or trip hazards. Safety mats extend around the castle perimeter where required. This area is NOT physically barricaded; users may circulate freely but must not bring objects into it.
7.2	Electrical exclusion zone (blower only)	A strict 1.6m x 1.6m physical exclusion zone is established around the blower unit and all electrical connections. Four ground rods are deployed at the corners of this block. High-visibility plastic safety chain is connected between rods to form a continuous barrier. Chain height: 800–1000mm.
7.3	Warning signage	A single prominent A-frame warning sign is positioned inside the 1.6m x 1.6m electrical exclusion zone. Sign text: 'High Voltage and Active Blower — Strictly No Access'. Sign must be visible from all approach angles.
7.4	Supervision responsibility	It is the responsibility of the hirer / competent person in charge to keep guests away from the 1.6m electrical/blower exclusion zone at all times. Piper's Parties briefs the hirer on zone enforcement during handover.
7.5	User restrictions/supervision	Users must comply with the maximum number of users, height, weight and age restrictions specified by the manufacturer and displayed on the PIPA information tag (where applicable). Users of significantly different sizes or abilities should not use the inflatable at the same time. A responsible adult must supervise the inflatable and users using the inflatable throughout the hire.

8. Deflation, Pack-Down & Post-Deployment

Step	Activity	Control Measures
8.1	User evacuation	Clear all users from the castle before commencing deflation. Verify chamber is empty via visual sweep from all angles.

8.2	Power isolation	Disconnect blower at the RCD unit first, then at the wall socket. Coil H07RN-F leads using figure-of-eight method to prevent twist memory.
8.3	Anchor removal	For outdoor: extract rebar stakes using a stake puller or lever bar. Do not hammer stakes sideways. Inspect each stake for bending or damage. For indoor: remove ballast sacks and verify floor condition.
8.4	Cleaning while inflated	The jumping castle is cleaned whilst it is still fully inflated before deflation commences. Remove all debris, food, and foreign objects. Wipe down PVC surfaces with approved cleaning solution.
8.5	Deflation & rolling	Open all deflation zips simultaneously. Allow gravity deflation. Fold castle lengthwise in thirds, then roll tightly from the front to the rear to ensure the steps are rolled up first. Secure with manufacturer straps.
8.6	Groundsheet retrieval	Inspect groundsheet for debris, moisture, or damage. Fold dry and clean. Store separately from the castle to prevent mould transfer.
8.7	Load-out	Use two-man lift and sack truck for return transit. Verify castle is dry before loading into vehicle. Wet storage is prohibited.

PART 3: RISK ASSESSMENT — HAZARD IDENTIFICATION MATRIX

Risk Rating Methodology: Severity (1–5) x Likelihood (1–5) = Risk Score. Score 1–6: LOW | 8–12: MEDIUM | 15–20: HIGH | 25: CRITICAL

Ref	Hazard	Persons at Risk	Pre-Mitigation Risk	Control Measures / Mitigation Protocol	Residual Risk
RA-01	Manual Handling Injuries (Musculoskeletal / Crush)	Installers, assistants	4 x 3 = 12 (MEDIUM)	Mandatory two-man lift protocol for all loading, offloading, and site transit. Heavy-duty sack truck rated for asset weight with verified wheel integrity and body frame. Pre-deployment briefing on correct lifting posture. No single-person lifts. Route survey to eliminate steps and gradients >1:12. Steel-toe boots and cut-resistant gloves mandatory.	2 x 2 = 4 (LOW)
RA-02	Structural Wind Dislodgement (Outdoor Deployment)	Users, public, installers	5 x 4 = 20 (HIGH)	Met Office forecast checked pre-deployment. Absolute operational cutoff: sustained wind >24 mph (Force 5 / 10.7 m/s). Gusts >30 mph trigger immediate deflation and evacuation. Competent person monitors local conditions; if gusts feel faster than 20 mph, prepare for shutdown. 400mm structural steel rebar stakes driven at 60-degree opposing angle into verified high-density soil. Heavy-duty auxiliary tether straps with terminal lugs through all structural anchor points. No deployment on soft or waterlogged ground.	2 x 2 = 4 (LOW)
RA-03	Indoor Ballast Shifting / Slips / Floor Damage	Users, venue, installers	4 x 3 = 12 (MEDIUM)	Eight certified 25 kg ballast weights (200 kg total) distributed evenly across all anchor points. Kiln-dried sand only, housed in double-lined heavy-duty woven sacks. Zero loose aggregate, pebbles, or water-filled containers. Non-slip rubber matting beneath each sack. Straps connected via	2 x 2 = 4 (LOW)

				rated carabiners/D-rings with taut tension. Re-check tension after 30 minutes. Floor protection survey prior to deployment.	
RA-04	Electrical Shock / Water Ingress	Users, installers, public	5 x 3 = 15 (HIGH)	13A plug-through RCD safety adaptor providing 30mA earth-leakage interruption with <30ms trip time. TEST button verified prior to every deployment. 16A hook-up kit with IP44 weatherproofing. Heavy-duty H07RN-F rubber trailing leads — total uncoiling mandatory to eliminate thermal choking. Indoor cables secured with clear gaffer tape across foot traffic (zero residue). Outdoor cables secured with low-profile covers. 2m clearance from water features. Full shutdown, deflate, and indoor storage of motor/cables if rain begins. No further use permitted once wet.	2 x 2 = 4 (LOW)
RA-05	User Impact / Collision Injuries	Child users, adult supervisors	4 x 4 = 16 (HIGH)	Minimum 1:10 adult-to-child supervision ratio. No users under 36 months. Maximum user weight: 100 kg per person. No shoes, glasses, jewellery, or sharp objects permitted inside. Maximum simultaneous users per manufacturer's plate. Entry/exit step and safety mats flush and secure. Safety mats extend around castle perimeter. 2m clear safety area around entire footprint — no furniture or obstructions. No food, drink, or gum inside.	2 x 3 = 6 (LOW)
RA-06	Blower Overheating / Mechanical Failure	Users, installers	3 x 2 = 6 (LOW)	CE-marked continuous-flow blower only. Pre-deployment check: intake clear, housing intact, cable undamaged. Blower sited on stable, level ground within 1.6m x 1.6m exclusion zone. RCD protection on all power runs. If blower stalls or overheats: disconnect power, evacuate users, allow 15-minute cool-down before inspection. Backup blower on standby for all commercial deployments.	1 x 2 = 2 (VERY LOW)
RA-07	Trip Hazards (Groundsheet / Cables / Stakes)	Users, public, installers	3 x 3 = 9 (MEDIUM)	4m x 5m heavy-duty groundsheet laid flat with all edges secured. Indoor cables secured with clear gaffer tape across foot traffic. Outdoor cables secured with low-profile covers where foot traffic crosses. Rebar stake heads flush with or below ground level. Ballast sacks placed flat, no stacking. Electrical exclusion zone chain at 800–1000mm height with high-visibility colour.	2 x 2 = 4 (LOW)
RA-08	PVC Abrasion / Puncture / Material Failure	Asset integrity, users	4 x 2 = 8 (MEDIUM)	Groundsheet mandatory beneath entire footprint. Pre-deployment debris sweep of deployment area. No deployment on rough, sharp, or contaminated surfaces. Castle cleaned while inflated before pack-down. Post-deployment inspection for abrasions, seam	2 x 1 = 2 (VERY LOW)

				stress, or valve damage. Annual PIPA inspection by certified inspector. Repair kit on-site for minor punctures. Asset retired if structural seam failure detected.	
RA-09	Unauthorised Access / Public Intrusion into Electrical Exclusion Zone	Public, users, installers	3 x 3 = 9 (MEDIUM)	1.6m x 1.6m physical exclusion zone around blower/electrical with four ground rods and high-visibility plastic safety chain. Single A-frame warning sign: 'High Voltage and Active Blower — Strictly No Access'. Hirer/competent person briefed on zone enforcement during handover. Operator maintains line-of-sight to exclusion zone during setup.	2 x 2 = 4 (LOW)
RA-10	Post-Deployment Mould / Damp Storage	Asset integrity, future users	3 x 2 = 6 (LOW)	Mandatory dry-before-store protocol. Castle cleaned while inflated before deflation. Groundsheet and castle inspected for moisture before rolling. Wet storage is strictly prohibited. Store in dry, ventilated area with desiccant sachets. Quarterly storage inspection for mould, mildew, or rodent damage.	1 x 1 = 1 (VERY LOW)

PART 4: EQUIPMENT INSPECTION LOG

Complete one entry per deployment. This log must be retained for the operational lifetime of the asset plus six years for statutory compliance.

4.1 Annual PIPA Inspection Log & PAT Testing of Inflatable

Date	Inspector Name / PIPA ID	Tag Number	Result (Pass/Fail)	Next Due Date	Remarks
06/05/2026	W. Postans	REG.64940	pass	Sharrocks Insurance	none
06/05/2026	W. Postans	Blower 5 (PP-IB-001)	pass	06/05/2027	none
06/05/2026	W. Postans	Fly lead 9 (PP-16AFL-002)	pass	06/05/2027	none

EQUIPMENT INSPECTION LOG

4.2 Pre-Deployment Inspection (Before Every Use)

Inspection Item	Pass/Fail N/A	Defects / Remarks	Action Taken
PIPA annual inspection tag current, legible, and matches asset serial number			
Asset serial number verified against PIPA tag			
PVC surface — no abrasions, cuts, or seam separation			
Inflation chambers — no air leaks at seams or valves			
Anchor points / D-rings — intact, no corrosion or fraying			
Entry/exit step — secure, no wear or damage			
Safety mats — present, clean, undamaged			
Blower unit — CE-marked, intake clear, housing intact			
Blower power cable — no nicks, kinks, or exposed conductors			
RCD unit — TEST button functional, 30mA trip verified			
H07RN-F trailing leads — undamaged, rated for load, fully uncoiled			
16A hook-up kit — connections secure, weatherproof (IP44)			
Groundsheet (4m x 5m) — clean, dry, no tears			
Outdoor: Rebar stakes (400mm) — straight, undamaged, corrosion-free			
Outdoor: Auxiliary tether straps — intact, no fraying			
Indoor: Ballast sacks (8 x 25kg) — sealed, dry, kiln-dried sand only			
Indoor: Non-slip rubber matting — present, clean			
Sack truck — wheel integrity and body frame verified			
Exclusion zone ground rods & chain — intact, high-vis colour			
Warning A-frame sign — legible, undamaged ('High Voltage and Active Blower')			
First aid kit — present, stocked, in date			
Repair kit (patches, glue, valve tool) — present			

Venue / Client Name:	
Assessor	
Signature:	
Date & Time:	

EQUIPMENT INSPECTION LOG

4.3 Post-Deployment Inspection (After Every Use)

Inspection Item	Pass/Fail N/A	Defects / Remarks	Action Taken
Castle fully deflated and dry before rolling			
Castle cleaned while inflated prior to deflation			
No moisture trapped in seams or chambers			
Groundsheet dry, clean, folded separately			
Rebar stakes extracted, inspected, stored			
Ballast sacks dry, sealed, no leaks			
Blower unit clean, dry, intake clear			
All cables coiled (figure-of-eight), no twists			
RCD unit dry, stored in protective case			
Exclusion zone equipment stored intact			
Warning sign clean, dry, undamaged			
Asset loaded into vehicle using two-man lift + sack truck			
Vehicle storage area dry, ventilated			

Venue / Client Name:	
Assessor	
Signature:	
Date & Time:	

OPERATIONAL BOUNDARY

Following the transmission of timestamped photographs and the signed handover certificate, absolute custody of the inflatable equipment and the live venue environment transfers entirely to the client/venue. Piper's Parties maintains zero active monitoring of the site post-departure.

Housekeeping Responsibility: Ongoing supervision of users, environmental monitoring (wind, rain, temperature), maintenance of the 1.6m electrical exclusion zone and 2m safety area, and immediate reporting of any defects or safety concerns are the sole operational responsibility of the hirer and venue stewards. Piper's Parties shall not be held liable for incidents arising from unauthorised alteration, unsupervised use, or failure to maintain the safety perimeter after handover.

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