

# Risk Assessment & Method Statement (RAMS)

## Pop Up Beach — 10m × 6m Branded Beach Installation

|              |                                                                                           |
|--------------|-------------------------------------------------------------------------------------------|
| Document     | RAMS — Pop-Up Beach 10×6m                                                                 |
| Version      | 1.0                                                                                       |
| Prepared by  | Pop Up Beach — Operations & H&S                                                           |
| Issue date   | 2026                                                                                      |
| Review cycle | Annual or on significant change                                                           |
| Legislation  | HSWA 1974, MHSWR 1999, MHOR 1992, PPE Regs 2002, RIDDOR 2013, CDM 2015, Reg. Reform (Fire |

### 1. Scope & Description of Works

Installation, operation and de-rig of a branded pop-up beach measuring 10m × 6m externally, comprising timber/aluminium perimeter walls (152mm / 6" nominal thickness), printed external graphic wraps, optional internal wall wraps, approximately 10 tonnes of kiln-dried play sand, deck chairs, parasols, props and seaside furniture. Works are typically carried out in shopping centres, public realm, event venues and corporate sites across the UK.

### 2. Key Calculations & Loadings

| Parameter                                   | Value                          | Notes                                            |
|---------------------------------------------|--------------------------------|--------------------------------------------------|
| External footprint                          | 10.000 m × 6.000 m (60.00 m²)  | Outer face of perimeter walls                    |
| Wall thickness                              | 152 mm (6")                    | Perimeter on all four sides                      |
| Internal footprint                          | 9.696 m × 5.696 m (≈ 55.22 m²) | 10 - 2×0.152 by 6 - 2×0.152                      |
| Sand mass                                   | 10,000 kg (10 t)               | Kiln-dried play sand, bulk density ≈ 1,600 kg/m³ |
| Sand volume                                 | ≈ 6.25 m³                      | 10,000 ÷ 1,600                                   |
| Sand depth (level)                          | ≈ 113 mm (≈ 4.5")              | 6.25 m³ ÷ 55.22 m²                               |
| UDL — sand only                             | ≈ 181 kg/m² (≈ 1.78 kN/m²)     | 10,000 kg ÷ 55.22 m²                             |
| UDL — incl. occupants/furniture (allowance) | 2.5 kN/m²                      | Adds ≈ 0.7 kN/m² over sand                       |
| Typical mall floor capacity (BS EN 1991-1)  | ≥ 5.0 kN/m²                    | VENUE CONFIRMATION REQUIRED in writing           |

**Note:** Where the installation sits on a suspended slab, mezzanine, raised deck or stage, written confirmation of the imposed floor loading capacity must be obtained from the venue/structural engineer prior to mobilisation. Where capacity is unknown, sand loading is to be reduced, distributed using load-spreading plywood (min. 18mm) or installation is to be repositioned to a verified floor area.

### 3. HSE 5×5 Risk Matrix

Risk score = Likelihood × Severity. Colour bands follow standard HSE guidance.

| L \ S            | 1 Negligible | 2 Minor | 3 Moderate | 4 Major | 5 Catastrophic |
|------------------|--------------|---------|------------|---------|----------------|
| 1 Rare           | 1            | 2       | 3          | 4       | 5              |
| 2 Unlikely       | 2            | 4       | 6          | 8       | 10             |
| 3 Possible       | 3            | 6       | 9          | 12      | 15             |
| 4 Likely         | 4            | 8       | 12         | 16      | 20             |
| 5 Almost Certain | 5            | 10      | 15         | 20      | 25             |

|                   |                                                |  |
|-------------------|------------------------------------------------|--|
| Low (1–3)         | Acceptable — monitor                           |  |
| Medium (4–8)      | Reduce risk where reasonably practicable       |  |
| High (9–14)       | Additional controls required before work       |  |
| Very High (15–25) | Stop — do not proceed without revised controls |  |

## 4. Risk Assessment

Each hazard is scored before controls (initial) and after controls (residual). Persons at risk: P = Public, S = Staff/Crew, C = Contractors, V = Venue personnel.

| Hazard                                                       | Who   | Initial<br>L×S         | Controls                                                                                                                                                                                    | Residual<br>L×S    |
|--------------------------------------------------------------|-------|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| Manual handling — 1-tonne bulk bags & sand                   | S,C   | <b>16</b><br>Very High | Mechanical aids (pallet truck, sack truck, forklift where permitted). Bulk bags split & transferred in sub-25kg quantities. Trained crew. Team lifts >20kg. MHOR 1992 assessment on file.   | <b>4</b><br>Medium |
| Structural overload of suspended floor / mezzanine           | P,S,V | <b>15</b><br>Very High | Written confirmation of floor capacity from venue. UDL calc ( $\approx 1.78 \text{ kN/m}^2$ sand). Load-spreading plywood where required. Reposition or reduce sand if capacity unverified. | <b>5</b><br>Medium |
| Slips, trips & falls — sand egress onto hard floor           | P,S   | <b>12</b><br>High      | 152mm raised perimeter wall retains sand. Brush-down rota every 30 min. Wet-floor signage. Anti-slip matting at entry/exit. Daily housekeeping.                                             | <b>4</b><br>Medium |
| Sand ingestion / eye contact (children)                      | P     | <b>8</b><br>Medium     | Kiln-dried, food-grade equivalent play sand (BS EN 71-3 compliant). Visible signage. Supervising attendant during open hours.                                                               | <b>2</b><br>Low    |
| Sand inhalation (dust)                                       | P,S   | <b>6</b><br>Medium     | Damp-down on installation, low-dust kiln-dried product, FFP3 masks for crew during pour, ventilation checked with venue.                                                                    | <b>2</b><br>Low    |
| Cuts, splinters, pinch points during build                   | S,C   | <b>6</b><br>Medium     | Cut-resistant gloves, S3 safety boots, panel handling 2-person lifts, deburred edges, tool-box talk pre-build.                                                                              | <b>2</b><br>Low    |
| Falls from height (ladder/MEWP for graphics)                 | S,C   | <b>8</b><br>Medium     | Ladders to BS EN 131, MEWP only by IPAF-trained operators, harness where applicable, exclusion zone below.                                                                                  | <b>3</b><br>Low    |
| Trapping/crushing — pump trucks, pallets                     | S,C,V | <b>12</b><br>High      | Banksman during deliveries, segregated pedestrian routes, hi-vis, slow-speed handling, no public during build.                                                                              | <b>3</b><br>Low    |
| Collision with public during build/strike                    | P,S   | <b>12</b><br>High      | Build outside trading hours where possible. Heras barriers / retractable belt barriers around work zone. Hi-vis signage. Stewarding.                                                        | <b>3</b><br>Low    |
| Fire — ignition of graphics, props, sand bags                | P,S,V | <b>10</b><br>High      | All graphics & fabrics flame-retardant to BS 7837 / EN 13501-1 (Class B-s1,d0). No naked flames. 2× CO $\blacksquare$ extinguishers on site. Fire evacuation briefing with venue.           | <b>4</b><br>Medium |
| Electrical — lighting, sound, power leads                    | P,S   | <b>8</b><br>Medium     | All equipment PAT-tested within 12 months. RCD protection. Cables matted/ramped, no trailing leads in public areas. Competent person installs.                                              | <b>3</b><br>Low    |
| Adverse weather (outdoor installs) — wind uplift on parasols | P,S   | <b>12</b><br>High      | Parasols ballasted (min 25kg base) or struck above 25mph (Beaufort 6). Live Met Office monitoring. Site-specific wind management plan.                                                      | <b>3</b><br>Low    |
| Adverse weather — heat/UV                                    | P,S   | <b>6</b><br>Medium     | Shade provision, hydration station, sun cream for crew, scheduled breaks, heat-stress monitoring above 27°C.                                                                                | <b>1</b><br>Low    |
| Lone working during setup/strike                             | S     | <b>6</b><br>Medium     | Minimum 2-person crew policy. Check-in/check-out with duty manager. Mobile comms.                                                                                                           | <b>2</b><br>Low    |
| Sharps/foreign objects in sand                               | P,S   | <b>8</b><br>Medium     | Sourced from approved UK supplier with certificate. Daily sand rake & visual inspection before opening. Magnetic sweep weekly.                                                              | <b>3</b><br>Low    |
| Cross-contamination / hygiene (toys, props)                  | P     | <b>6</b><br>Medium     | Daily sanitisation of shared props with food-safe sanitiser. Hand-sanitiser station at entrance.                                                                                            | <b>1</b><br>Low    |
| Child safeguarding / lost child                              | P     | <b>9</b><br>High       | Trained attendant always present during opening. Lost child procedure aligned to venue. DBS-checked staff for children's activities.                                                        | <b>2</b><br>Low    |
| Allergic reaction (rare — dyes, props)                       | P     | <b>3</b><br>Low        | Hypoallergenic materials. First-aid kit on site. Trained first-aider on shift.                                                                                                              | <b>2</b><br>Low    |
| RIDDOR-reportable incident                                   | P,S   | <b>8</b><br>Medium     | Accident book maintained. Incidents reported to HSE within statutory timeframes. Near-miss reporting culture.                                                                               | <b>3</b><br>Low    |

## 5. Method Statement — Sequence of Work

### Stage 1 — Pre-arrival

Site survey completed; floor loading capacity confirmed in writing; vehicle access, unloading bay and storage agreed with venue. RAMS issued, signed and returned by client. PPE checked, tools PAT-tested, materials manifested.

### Stage 2 — Delivery & unloading

Vehicle reverses to bay under banksman. Pallets of sand (10 × 1-tonne bulk bags) and flight-cases offloaded by pallet truck. Public excluded with barriers. Hi-vis & S3 boots worn.

### Stage 3 — Floor protection & perimeter build

Lay protective floor membrane and load-spreading plywood (where required). Erect 152mm timber/aluminium perimeter walls (10m × 6m external), levelled and braced. Fit external printed graphic wraps.

### Stage 4 — Sand placement

Sand transferred from bulk bags using mechanical aids; broken down into sub-25kg portions for distribution. Rake to ≈113mm even depth across 55.22 m<sup>2</sup> internal area. Light damp-down to suppress dust. Visual sweep for foreign objects.

### Stage 5 — Furniture, props & finishing

Deck chairs, parasols, props installed. Parasols ballasted (≥25kg). Electrical items installed by competent person on RCD; cables matted. Site signage erected (No glass, Adult supervision, Allergens, Fire exits).

### Stage 6 — Operation

Trained attendant on shift during opening. 30-minute housekeeping cycle. Daily pre-open inspection (sand rake, visual sweep, equipment check, sign-in). Incident log maintained. Weather monitored continuously for outdoor installs.

### Stage 7 — De-rig & reinstatement

Public excluded; barriers reinstated. Sand vacuumed/shovelled into bulk bags, removed by pallet truck. Walls dismantled, graphics rolled, equipment cased. Floor cleaned and inspected with venue. Waste removed under Duty of Care.

## 6. PPE Schedule

| Item               | Specification                        | When                                    |
|--------------------|--------------------------------------|-----------------------------------------|
| Safety boots       | EN ISO 20345 S3 (steel toe, midsole) | All build/strike phases                 |
| Hi-vis vest/jacket | EN ISO 20471 Class 2                 | Delivery, build, strike                 |
| Gloves             | EN 388 cut-level B                   | Panel handling, sand bag handling       |
| Dust mask          | FFP3 disposable                      | Sand pour & rake                        |
| Eye protection     | EN 166                               | Cutting/drilling tasks                  |
| Hard hat           | EN 397                               | Where overhead works in progress / MEWP |

## 7. Emergency Procedures

**Fire:** Raise alarm, evacuate public via nearest venue exit, account for staff at venue muster point, notify venue control. Crew trained on extinguisher use (CO<sub>2</sub> × 2 on site).

**First aid:** Trained first-aider on every shift, stocked kit. Serious injury → call 999, notify venue control, preserve scene.

**RIDDOR:** Reportable incidents notified to HSE within statutory timeframe by the Site Manager.

**Spillage:** Wet spills contained, signage deployed, surface cleaned and dried before re-opening.

**Lost child:** Follow venue protocol, secure perimeter, attendant remains with child until reunited.

## 8. Briefing & Sign-Off

All operatives must read, understand and sign this RAMS prior to commencing work. Site-specific addenda are issued where venue conditions differ materially from this generic 10×6m configuration.

| Name | Role | Signature | Date |
|------|------|-----------|------|
|      |      |           |      |
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