

MOBILE EQUIPMENT IMPORT COMPLIANCE AUDIT

This engineering compliance checklist must be completed by the factory QA inspector and verified by the procurement officer prior to authorizing the export of any trailer-mounted amusement ride. Failure to verify structural, pneumatic, and DOT/CE parameters may result in customs impoundment or highway failure.

CRITICAL: All structural welding and axle ratings must strictly match the maximum dynamic operational load, not just the static transport weight.

SECTION 1: STRUCTURAL CHASSIS & FRAME ENGINEERING

PASS	AUDIT ITEM	ENGINEERING SPECIFICATION / STANDARD	QA NOTES
☐	Steel Grade Verification	Main frame utilizes Q355B (ASTM A572 Grade 50) High-Strength Low-Alloy steel. No mild steel in load-bearing zones.	
☐	Weld Quality & NDT	Ultrasonic or Magnetic Particle NDT reports provided for 100% of critical stress seams (tow tongue, mast pivots).	
☐	Weight Distribution	Tongue weight configured between 10% – 15% of total trailer weight for safe high-speed towing dynamics.	
☐	Outrigger Stability	Hydraulic outriggers feature dual pilot-operated check valves to prevent retraction under dynamic ride load.	
☐	Corrosion Protection	Chassis shot-blasted (Sa2.5) with marine-grade epoxy primer and polyurethane topcoat applied.	

SECTION 2: HIGHWAY AXLES, SUSPENSION & BRAKING

PASS	AUDIT ITEM	ENGINEERING SPECIFICATION / STANDARD	QA NOTES
☐	Commercial Axles	Axles sourced from certified commercial vendors (BPW, FUWA, or SAF-HOLLAND). No utility trailer axles.	
☐	Axle Capacity (GAWR)	Combined Gross Axle Weight Rating exceeds total ride weight + 20% safety margin for dynamic road shock.	
☐	Pneumatic Braking	Dual-line pneumatic air brakes installed. Wabco or equivalent Anti-lock Braking System (ABS) integrated.	

SECTION 3: ELECTRICAL, LIGHTING & TRANSIT SAFETY

PASS	AUDIT ITEM	ENGINEERING SPECIFICATION / STANDARD	QA NOTES
☐	Highway Lighting	24V LED transit lighting installed (brake, tail, reverse, side-marker) with standard 7-pin or 13-pin ISO socket.	
☐	Clearance Dimensions	Transit width does not exceed 2.55m (102 in). Transit height does not exceed 4.0m (13.1 ft) without special permit.	
☐	Control Cabinets	All electrical control cabinets meet IP66 waterproof standards for outdoor highway transit and operation.	
☐	Transit Locking Mechanisms	Heavy-duty mechanical locking pins installed to secure all moving gondolas, arms, and structural joints during transit.	

SECTION 4: IMPORT DOCUMENTATION & LEGAL COMPLIANCE

PASS	AUDIT ITEM	ENGINEERING SPECIFICATION / STANDARD	QA NOTES
☐	VIN Registration	Valid 17-digit ISO 3779 / US DOT VIN is permanently cold-stamped onto the main chassis tongue.	
☐	Manufacturer Data Plate	Stainless steel riveted data plate indicating manufacturing date, max passenger load, operational wind limits, and power spec.	
☐	Safety Standards Certificate	Documentation confirming design adherence to ASTM F24 (USA), EN 13814 (EU), or GB 8408 (China).	
☐	Customs / HS Code	Commercial invoice matches correct Harmonized System (HS) code for Amusement Park Equipment (9508.xx).	

FINAL INSPECTION & EXPORT AUTHORIZATION

By signing below, the inspector confirms that all structural, mechanical, and documentation requirements have been verified against the physical equipment prior to container loading or Ro-Ro shipment.

Equipment Model:

Chassis VIN #:

Factory Inspector Name:

Date of Audit:

Inspector Signature:

Status: [] APPROVED [] REJECTED