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	STANDARD: **ANSI/RMI MH16.1 & OSHA 29 CFR 1910.176**	AUDIT FREQUENCY: **Monthly Audit**

Pallet Rack Inspection Inspection Checklist

Operational Scope: This official OpsAuditHub checklist establishes the operational scope for systematic structural evaluations of industrial storage racks. Its primary objective is hazard mitigation through early detection of mechanical deformation, preventing catastrophic collapse and ensuring full regulatory compliance.

MANDATORY PPE:	Hard Hat (ANSI Z89.1), Steel-Toe Boots (ASTM F2413), High-Visibility Safety Vest (ANSI/ISEA 107), Safety Glasses (ANSI Z87.1), Cut-Resistant Gloves
PREREQUISITES:	Review previous inspection log and open corrective action tickets. | Secure pedestrian exclusion zones and deploy warning signage around inspection aisles. | Ensure adequate overhead and aisle illumination (minimum 30 foot-candles).

UPRIGHT FRAMES & COLUMN INTEGRITY

#	COMPONENT / ITEM	VERIFICATION CRITERIA & ACCEPTANCE STANDARD	SEVERITY	STATUS
1	**Upright Columns**	Columns are plumb within allowable tolerances (max 0.5 inches out of plumb per 10 feet of height) with no severe twists, dents, or tears.	**Critical (Immediate Out of Service)**	**[ ] PASS [ ] FAIL [ ] N/A**
2	**Baseplates & Anchoring**	Baseplates are fully welded to uprights and firmly secured to the concrete floor with all required anchor bolts torqued securely without concrete cracking.	**Critical (Immediate Out of Service)**	**[ ] PASS [ ] FAIL [ ] N/A**
3	**Horizontal & Diagonal Bracing**	Lacing and structural struts show no buckling, bending, missing bolts, or impact damage from material handling equipment.	**Warning**	**[ ] PASS [ ] FAIL [ ] N/A**
4	**Column Protectors & End Guards**	Floor-mounted guards and end-of-row frame protectors are properly positioned, undamaged, and securely bolted to deflect MHE impacts.	**Standard**	**[ ] PASS [ ] FAIL [ ] N/A**

BEAM CONNECTIONS & LOAD CAPACITY

#	COMPONENT / ITEM	VERIFICATION CRITERIA & ACCEPTANCE STANDARD	SEVERITY	STATUS
5	**Load-Bearing Beams**	Step beams exhibit no excessive permanent downward deflection or twisting under load, and maximum capacity load safety placards are visible.	**Critical (Immediate Out of Service)**	**[ ] PASS [ ] FAIL [ ] N/A**
6	**Beam Connection Safety Pins / Locks**	All beam-to-column connector clips are equipped with intact safety locking pins or bolts preventing accidental dislodgement.	**Critical (Immediate Out of Service)**	**[ ] PASS [ ] FAIL [ ] N/A**
7	**Decking & Wire Mesh Shelves**	Wire decking panels or wood stringers are structurally sound, evenly distributed, resting securely on beam flanges, and free of broken welds.	**Warning**	**[ ] PASS [ ] FAIL [ ] N/A**

LOAD ENVIRONMENT & CLEARANCE STANDARDS

#	COMPONENT / ITEM	VERIFICATION CRITERIA & ACCEPTANCE STANDARD	SEVERITY	STATUS
8	**Pallet Overhang & Clearance**	Stored pallets do not overhang back or sides excessively, and adequate vertical clearance is maintained between highest load and sprinkler heads (minimum 18 inches).	**Warning**	**[ ] PASS [ ] FAIL [ ] N/A**
9	**Aisle Obstructions & Flue Spaces**	Transverse and longitudinal flue spaces are clear of debris or protruding merchandise, and aisles remain free from unauthorized storage.	**Standard**	**[ ] PASS [ ] FAIL [ ] N/A**
10	**Load Weight Compliance**	Individual pallet loads do not exceed the certified maximum bay and beam capacity indicated on the rack load notice plates.	**Critical (Immediate Out of Service)**	**[ ] PASS [ ] FAIL [ ] N/A**

Certified Inspector / Lead Operator Signature: _____	**Date / Time:** _____	**Badge / Cert #:** _____
Site Safety Supervisor / Operations Manager Sign-off: _____	**Review Date:** _____	**Audit Status:** [ ] Approved [ ] Rectify

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