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

Pallet Rack Inspection Checklist

Operational Scope: This document outlines the mandatory inspection criteria for industrial steel storage racks to identify structural deformation, overloading, and impact damage. Regular auditing mitigates catastrophic collapse hazards and ensures strict compliance with warehouse material handling safety regulations.

MANDATORY PPE:	Hard Hat (ANSI Z89.1), Steel-Toe Safety Boots (ASTM F2413), High-Visibility Reflective Vest, Safety Glasses with Side Shields, Cut-Resistant Work Gloves
PREREQUISITES:	Review previous month's inspection log and unresolved corrective actions. | Ensure adequate overhead lighting and unobstructed aisle access around all rack bays. | Verify forklift traffic is diverted from the active inspection zone.

UPRIGHT FRAMES AND COLUMN SAFETY

#	COMPONENT / ITEM	VERIFICATION CRITERIA & ACCEPTANCE STANDARD	SEVERITY	STATUS
1	**Upright Columns**	Columns must be plumb and vertically aligned within allowable tolerances (max 0.5-inch deviation per 10 feet). Check for dents, twists, or buckling exceeding manufacturer specifications.	**Critical (Immediate Out of Service)**	[ ] PASS [ ] FAIL [ ] N/A
2	**Baseplates and Floor Anchors**	All baseplates must be securely anchored to the concrete floor with no loose, sheared, or missing anchor bolts. Grouting under baseplates must be intact.	**Critical (Immediate Out of Service)**	[ ] PASS [ ] FAIL [ ] N/A
3	**Horizontal and Diagonal Bracing**	Lacing and struts must show no signs of severe bending, tearing, or detachment from upright columns. All structural welds must remain crack-free.	**Warning**	[ ] PASS [ ] FAIL [ ] N/A
4	**Column Protectors and Guards**	Floor-mounted or column-mounted guards must be firmly attached and capable of absorbing impacts without transferring damaging force to the upright.	**Standard**	[ ] PASS [ ] FAIL [ ] N/A

BEAM CONNECTIONS AND LOAD INTEGRITY

#	COMPONENT / ITEM	VERIFICATION CRITERIA & ACCEPTANCE STANDARD	SEVERITY	STATUS
5	**Load-Bearing Beams**	Beams must exhibit no visible excessive deflection under load, twisting, or lateral bending. Check for structural cracks at the connector-to-beam welds.	**Critical (Immediate Out of Service)**	[ ] PASS [ ] FAIL [ ] N/A
6	**Safety Locking Pins / Bolts**	Every beam-to-column connection must have an intact safety lock, bolt, or gravity pin installed to prevent accidental dislodgement of beams.	**Critical (Immediate Out of Service)**	[ ] PASS [ ] FAIL [ ] N/A
7	**Wire Decking and Pallet Supports**	Wire mesh decks must be securely seated on beam step channels with no broken welds, excessive sagging, or missing panels.	**Warning**	[ ] PASS [ ] FAIL [ ] N/A
8	**Maximum Load Capacity Placards**	Load capacity warning plaques must be prominently displayed, legible, and accurately reflect the current rack configuration and safe weight limits.	**Warning**	[ ] PASS [ ] FAIL [ ] N/A

AISLE CLEARANCE AND OPERATIONAL ENVIRONMENT

#	COMPONENT / ITEM	VERIFICATION CRITERIA & ACCEPTANCE STANDARD	SEVERITY	STATUS
9	**Flue Spaces and Clearance**	Maintain required longitudinal and transverse flue spaces between back-to-back pallets to comply with fire suppression codes.	**Warning**	[ ] PASS [ ] FAIL [ ] N/A
10	**Aisle Obstructions and Spillages**	Aisles and rack bays must be clear of debris, protruding overhangs, damaged pallets, and slip/trip hazards.	**Standard**	[ ] 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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