

Industrial Manufacturer Improves Warehouse Safety with Pallet Rack Backing

An industrial manufacturer needed to address an employee-reported warehouse safety concern where a single-sided pallet rack faced an active work area. Southwest Solutions Group installed welded wire pallet rack backing to create a protective barrier behind the rack.

INDUSTRY

Industrial

The project supported a warehouse setting where stored materials and employee work areas were positioned close together.

LOCATION

Houston, TX

Completed for an industrial warehouse operation in the Houston metro area.

FACILITY TYPE

Warehouse

The rack backed up to an open warehouse area where employees were exposed to the rear side of stored pallets and materials.

SOLUTION

Pallet Rack Backing

The solution added a physical barrier behind the pallet rack to help protect workers from potential falling objects.

PRODUCTS USED

Welded Wire Rack Backing System

The pallet rack backing system uses welded wire mesh, offset mounting brackets, and modular panels to help protect employees from falling objects.

OPERATIONAL GOAL

Worker Protection

The goal was to address employee concerns about unsafe working conditions near the open back of the pallet rack.

THE PROBLEM

Exposed Pallet Rack Created a Warehouse Safety Risk

The facility had a single-sided pallet rack positioned with its back facing an open warehouse area. Employees told managers they believed the condition was unsafe because broken pallets, stored materials, or items pushed too far back on the racking could fall toward people working nearby.



01

Open Rack Back

The pallet rack had an exposed rear face that opened directly to the warehouse floor. That layout left no physical barrier between stored items and employees working on the open side.

02

Falling Object Risk

Employees raised concerns about unsafe working conditions near the single-sided rack. The specific concern was that broken pallets, materials, or over-positioned items could fall from the storage area.

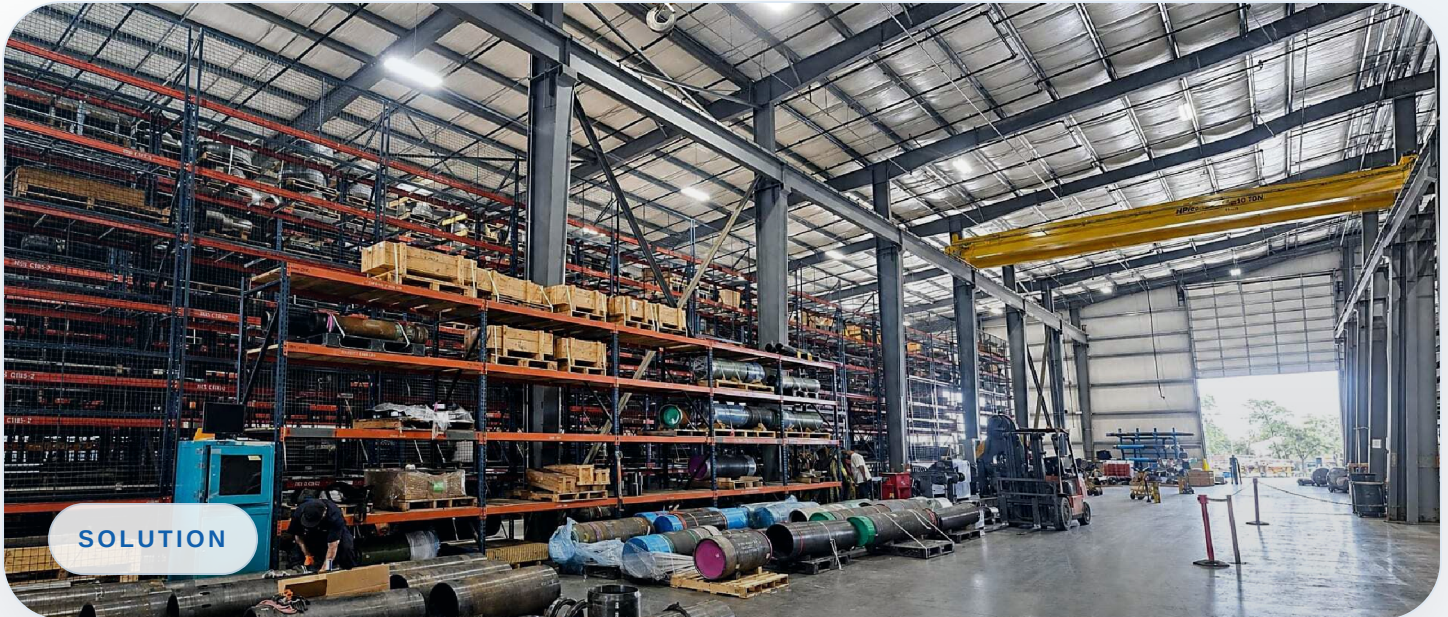
03

Need For Durable Protection

The warehouse needed a rack safety barrier stronger than a flexible netting system. The selected approach also needed to support serviceability if a panel was damaged during warehouse use.

Pallet Rack Backing Improved Warehouse Safety

Southwest Solutions Group provided a welded wire pallet rack backing system for the exposed rack line. The system uses heavy-duty welded wire mesh, offset mounting brackets, and modular stackable panels to form a rigid barrier behind stored materials while maintaining clearance where pallets may sit toward the back of the rack. Welded wire was selected over netting because it offers sturdier protection and allows damaged panels to be replaced individually.



WHAT WE INSTALLED

Welded Wire Pallet Rack Backing

The installed pallet rack backing system used 10-gauge welded wire mesh, a steel frame, assembly hardware, and modular stackable panels to protect the rear face of the single-sided rack.

WHY IT FIT

Stronger Than Rack Safety Netting

Welded wire rack backing fit the project because the safety concern was direct exposure behind the pallet rack. Offset brackets provided mounting clearance, while the replaceable panel design supported long-term serviceability.

OPERATIONAL IMPACT

Improved Worker Protection

The rack backing created a physical separation point between stored inventory and employees in the open warehouse area. It addressed the condition that warehouse employees had reported to management.

Rack Backing Installed Behind The Exposed Storage Area

Southwest Solutions Group supported the project from field review through installation planning, keeping the work focused on the exposed single-sided pallet rack and the employee safety concern. The scope centered on adding welded wire backing without changing the basic storage function of the rack. Project dates list installation from February 17 through February 20, 2026, for the welded wire pallet rack backing system.

01

DISCOVERY & SITE SURVEY

Reviewing The Exposed Rack Condition

The project began by identifying the single-sided pallet rack that backed up to the open warehouse. The review focused on the employee concern and the need for protection from potential falling objects.

02

LAYOUT, POWER & DATA PLAN

Planning Rack Back Coverage

The layout process identified where pallet rack backing was needed behind the exposed storage area. Planning centered on panel placement, mounting offsets, and practical access around the rack.

03

SUBMITTALS & APPROVALS

Confirming The Rack Backing System

Southwest Solutions Group supported the approval process for the welded wire pallet rack backing solution. The selected system created a rigid rear rack barrier intended to protect employees working nearby.

04

FABRICATION & DELIVERY

Coordinating Rack Backing Materials

Welded wire rack backing materials were coordinated for delivery to the warehouse. The system included modular welded wire panels and mounting components for the exposed pallet rack.

05

INSTALLATION & TRAINING

Installing Welded Wire Panels

Technicians installed the welded wire rack backing behind the pallet rack. The completed installation added a visible protective barrier between stored materials and the open warehouse area.

06

MAINTENANCE & SUPPORT

Supporting Future Panel Replacement

The welded wire system supports ongoing maintenance because damaged panels can be replaced individually. This serviceable design was one reason rack backing was selected instead of netting.

RESULTS

Pallet Rack Backing Improved Warehouse Safety

The project addressed the employee-reported condition by adding welded wire protection behind the pallet rack. The change created a stronger physical barrier between stored materials and people working in the open warehouse area.

PRIMARY OUTCOME

Safer Work Area Behind the Pallet Rack

The facility added pallet rack backing where employees had been unprotected from potential falling objects. The installed welded wire barrier directly addressed the exposed rack condition.

WORKFLOW

Work Areas Gained A Physical Barrier

The solution helped define a protected boundary along the back of the pallet rack. Employees working near the open warehouse side gained a rigid barrier between their area and stored materials.

ORGANIZATION

Stored Materials Gained A Rear Backstop

The rack backing gave the storage area a more controlled rear boundary. This helped contain the condition created when pallets, materials, or stored items were positioned too far back on the rack.

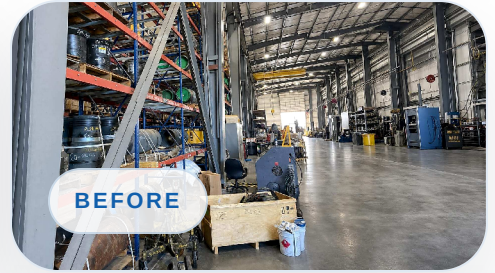
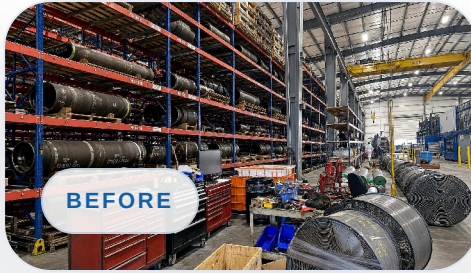
LONG-TERM VALUE

Durable, Replaceable Rack Backing Panels

The welded wire system was selected for durability compared with netting. If a panel is damaged, it can be swapped out rather than replacing an entire net.

Before and After Pallet Rack Backing Installation

Project images show the exposed pallet rack before installation and the welded wire rack backing system installed behind the storage area.



READY TO SOLVE A SIMILAR PROBLEM?

Need Pallet Rack Backing for Your Warehouse?

Southwest Solutions Group helps warehouses improve worker safety with custom pallet rack backing systems designed to help prevent falling objects.

Talk with our team about pallet rack backing, rack safety, and warehouse protection solutions for your facility.