

Paper Roll Shipping: Intuitive Loading Equipment Reduces Wear & Tear

Prone to damage and often requiring numerous stops along the way, 13,000 lb. paper rolls are some of the most demanding freight to ship. In addition to vigilant boxcar and preparedness protocol to prevent water damage, punctures, and out-of-roundness, paper roll loading requires lift truck stability, the ability to handle extreme capacity, and intuitive equipment features to protect this dense, yet delicate freight.

Railboards and **DOCKSHIELD** Protect Paper Rolls

Leum Engineering's Portable Railboards and Dockshield Removable Forklift Barriers are tackling common safety, productivity, and quality control issues that often disrupt paper roll loading operations.

- Forklift center of gravity
- Instability issues (tilting, tipping, side shifting)
- Cornering with dense, awkward paper rolls
- Low visibility

- Boxcar discrepancies
- Forklift operator confidence
- Forklift and pedestrian fall protection

Safety Barriers Keep Paper Manufacturing on Track

SITUATION: This Fortune 500 manufacturer of napkins, paper plates, and paper towels, lacked confidence in its rail dock barrier's ability to protect personnel and forklifts against falls. The company sought a more dynamic design than required by OSHA for guarding 4 ft. drop-offs.

SOLUTION: An army of Dockshield® Removable Forklift Barriers were deployed along their railcar docks. Despite a slightly higher investment over commodity barriers, Dockshield's exclusive safety features restored the company's confidence:

- Forklift operator remains on the vehicle with out manual engagement to lift units
- Safety railings at three heights (12" forklift, 24" mid-rail, and 42" pedestrian)
- Heavy duty protection, yet simple lifting, stacking, and maneuvering by forklift



Railboards Man-handle Boxcar Rock 'n Roll

SITUATION: This MN-based paper roll shipper was no stranger to the boxcar rocking motion caused by paper clamp forklifts traversing railcars. They needed a more durable railboard that could stand up to the rigors of daily, extremely heavy loading.

SOLUTION: Portable Railboards from Leum Engineering were enlisted to help forklifts load the massive paper rolls with a high center of gravity. The new railboards held steadfast during boxcar rocking and provided a smooth transition from boxcar to building floor.



Preserve Aisle Space and Protect Employees

SITUATION: This paper manufacturer of office paper, cups, and lids wanted to upgrade the safety along the railcar docks at its numerous facilities but was concerned that a heavy duty barrier would compromise aisle space.

SOLUTION: Designed for installation only 16" from a dock edge, the heavy duty Dockshield Removable Forklift Barriers provided a relentless barrier. The company was able to preserve critical aisle space and achieve lifting, stacking, and moving efficiencies of the patented Dockshield system.



Eliminate Forklift Heroics and Preserve Tires

SITUATION: This paper powerhouse needed railboards that could tackle intense daily forklift traversing, cornering, and navigating massive paper rolls into boxcars.

SOLUTION: Feature-rich Portable Railboards from Leum Engineering are being implemented system-wide and are recognized as corporate "best practices" thanks to:

- Recessed safety curbs to assist forklift into dimly-lit boxcar
- 3-sided lip chamfers to enable 90-degree turning and eliminate curb jumping
- Ultimately prevent forklift tire damage and costly replacement



Example: forklift tire damage due to unstable loading