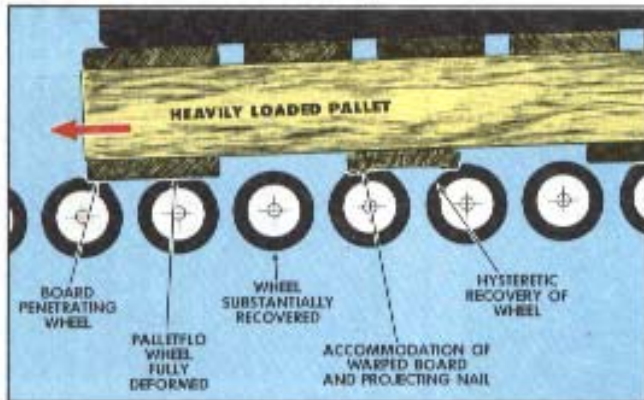


PALLETFLO SPEED CONTROLLING RAILS

Palletflo performance is built into each wheel. Controlled uniform speed is achieved as a result of two major features of the Palletflo wheel - the resilient tread and its elastomeric hysteresis.

RESILIENT TREAD

The OD of the wheel is resilient to conform to irregularities in the pallet bottom surface. These irregularities, including board thickness variations, warped split board, or loose boards and projecting nails prevent pallets from rolling on standard wheel or roller conveyors.



The tread of Palletflo wheels is resilient allowing the irregularity to ride through the wheel instead of having to climb over it. The result is a lower running slope and greater regularity in speed.

ELASTOMERIC HYSTERESIS

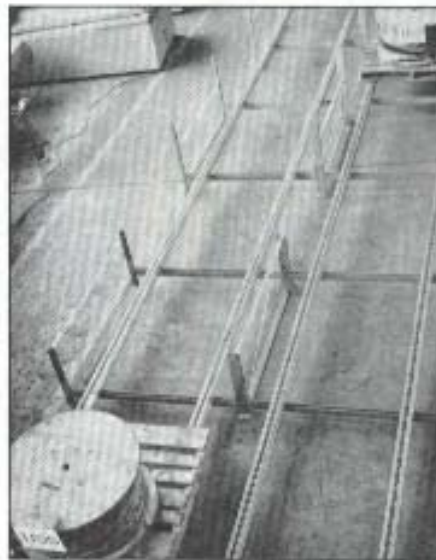
The palletflo wheel tread is made of an elastomer with high hysteresis properties. Thus, as a load rolls down the rail slope, **each wheel** in the rail **absorbs kinetic energy** from the pallet and keeps the pallet moving at a safe controlled speed. Since this hysteresis property works only when the pallet is in motion, it does not hinder the immediate movement of the pallets in a storage lane when the first pallet is removed from the rack.

PALLETFLO

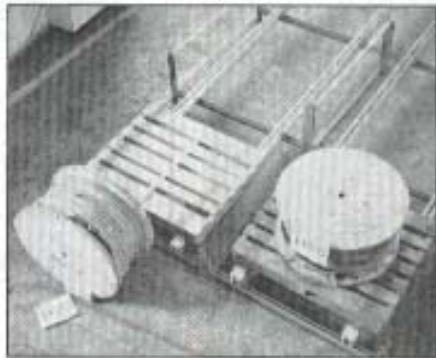
A PALLETFLO VERSES NON PALLETFLO DEMONSTRATION



Identical loads, pallets, wheel and tire dimensions, wheel spacing and rail slope. Tires on right (Palletflo) have high hysteresis, tires on left do not.



Hysteresis controlled pallet on right travels at steady 11 ft./min. Uncontrolled load on left reaches speed of 240 ft./min.



Pallet on Palletflo comes to a gentle stop. Uncontrolled load tumbled off pallet.