

# with Lyon Pallet Rack.



## Pallet Rack Safety Recommendations

Determine actual load requirements as accurately as possible and adhere to rated capacities shown in tables on the following pages. Lyon pallet rack is engineered for long life and under normal operating conditions, will provide years of trouble-free service.

### Frame Depth

Recommended pallet overhang is 3". For pallets 48" deep, recommended frame depth is 42".

### Frame Height

When determining load heights, remember to include height of pallet. For lower-level storage, allow 4" minimum clearance between top of load and bottom of next-highest beam. Allow 6" minimum clearance at higher loading levels and not less than 18" (or as required by local codes) between uppermost load and ceiling sprinkler units.

### Beam Length

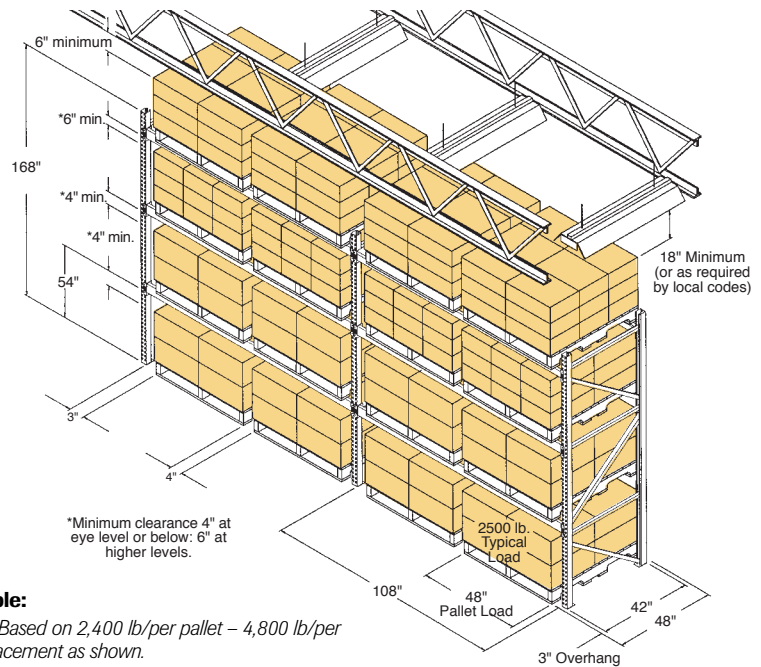
Lyon recommends a clearance of 4" between palletized loads – and between loads and uprights. Minimum clearance between loads and upright posts should not be less than 3". Beams over 120" in length should be tied together with the appropriate front-to-back bar to maintain proper spacing at each storage level.

### Back-to-back Clearance

Clearance should be sufficient to accommodate minimum pallet overhang and tolerances – where pallet placement may vary. Additional clearances may be required to accommodate building structures or intermediate sprinkler systems (according to local codes).

### Installation and Anchoring

To insure minimum stability standards, racks should be level, plumb and properly anchored.



### Example:

Given: Based on 2,400 lb/per pallet – 4,800 lb/per bay; placement as shown.

Select: proper beams and uprights.

Beams: Load – 4,900 lb/pair. Using pallet width information, select 108" beam length – No. LBS-435-L108 with a 4,900 lb. rated capacity.

Upright Frame: Load – 6 loads x 2,400 lb. = 14,400 lb. (See chart on page 164.) Using pallet load height and depth information, select frame size 42" x 168". Use height to first beam (or maximum beam spacing – whichever is greater) 54".

Use the Upright Frame Capacity Chart for a 54" spacing and select the medium-duty post. Refer to ordering information for product numbers and select No. LU-324-42M168.

Additional precautions should be taken in applications where extraordinary rack abuse is anticipated. For example, when narrow aisles are used for high speed or high inventory turnover operations, Lyon recommends additional rack reinforcement. Impact supports and aisle guidance devices may be advisable – especially at aisle intersections and other vulnerable locations.



**NOTE: Not for seismic applications – see page 163 for seismic-rated rack.**