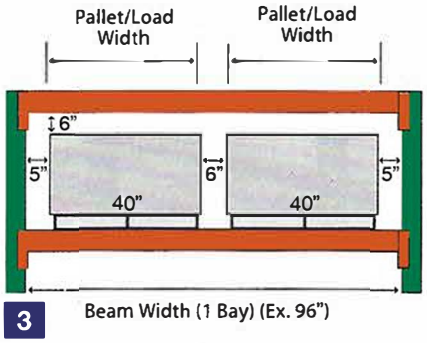
PALLET RACK SELECTION GUIDE

Pallet Rack is the most popular and the most versatile type of storage for large single items or palletized loads. This guide provides basic information need to select pallet rack. However, before selecting any racking, check local ordinances, codes, and seismic requirements. Please call 1-800-338-1382 for more assistance.

To Select Teardrop Pallet Rack



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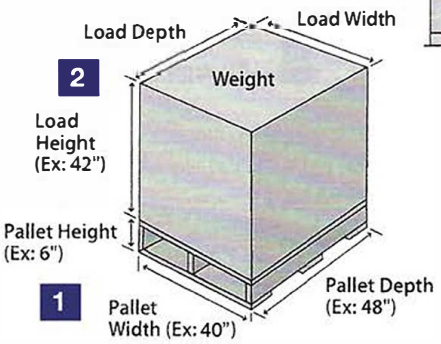

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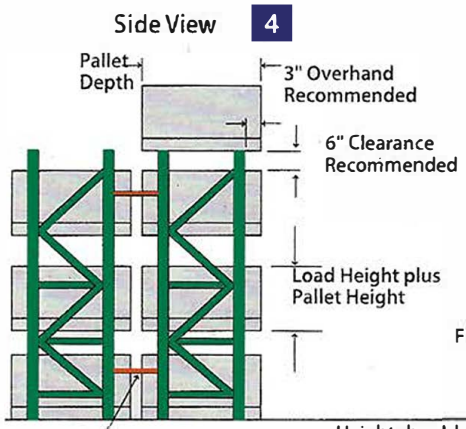

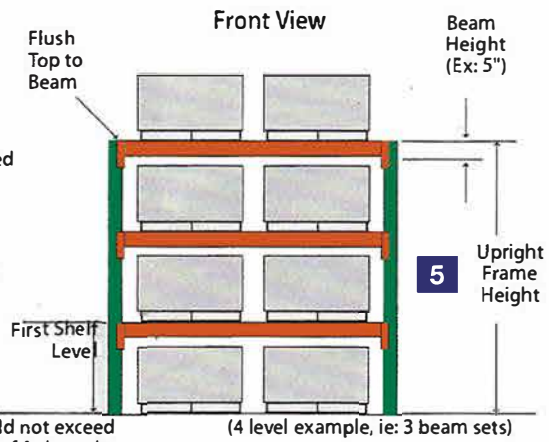

1 **Determine the size of your pallet to be stored.** Example: 40"W x 48"D x 6"H

2 **Determine the overall load W x D x H.** For the overall height, add the load and pallet heights together. Example: load height 40" + pallet height 6" = 46" overall height. Overall load: 40" W x 48" D x 48" H.

3 **Beam Width.** Determine the width of your pallet/load and allow a minimum of 4" between the upright frame and the load and a minimum of 4" between loads. Example: to store (2) 40" W loads. 5 + 40 + 6 + 40 + 5 = 96" wide beam. 96" beams are the most common size beams on the market.
Beam Capacity. Multiply the weight of the pallet and load by the number of pallets per level. Example: two pallets with a weight of 2,000 lbs. each per level. 2,000 lbs. x 2 pallets per level = 4,000 lb. beam capacity minimum requirement.

4 **Upright Frame Depth.** The depth of the upright frames should be your pallet depth (48") minus 6" (3" overhang in the front and 3" overhang in the back). Example: 48" - 6" = 42" deep upright frame. This is an RMI standard.

5 **Upright Frame Height.** Determine the overall load height. Add a minimum of 6" clearance between two of load and next level of beams. Add the beam height and multiply total by the amount of upper levels required. (do not count floor level). Example (4 shelf levels): 48" H + 6" (for clearance) + 4" (beam height) = 58". 3 upper levels x 58 = 173" high upright frame requirement. The most common heights are 8', 10', 12', 14', 16', 20'. For the example we suggest using 16' high because your load heights may change in the future.

Component Guide

1 **Upright Frame:** Vertical structural support for racking system.

2 **Beam:** Horizontal steel supports that tie upright frames together and hold the load.

3 **Double Flanged Cross Bars** for additional support under pallet loads or wire decking. Also used as support under wood decks. **2" x 6" Wood Stringers** are a good alternative for pallet support. **Rack Clearance Bars** can be used for additional height clearance or when storing panel products like plywood, cabinery or plastic sheets.

4 **Wire Decking** Turns area between beams into useable shelving space. Mesh promotes air flow and eases inventory checks.

5 **Wall Spacers** work well when you have single rack rows close to a wall.

6 **Shim:** Levels upright frames on slopes or uneven surfaces to ensure uniform heights if needed.

7 **Upright Frame Protectors** can be bolted to the column or floor mounted.