

Welter Storage “Basic” Selective Pallet Rack School

Pallet Rack design can be a complicated process. It’s important to figure out the needs and physical limitations of your business before investing in a pallet rack system. The following information outlines the information needed for purchasing the proper racking. By printing this article and filling in the blanks, you will be prepared to answer the questions you will be asked when ordering your custom pallet rack system.

Step 1. Length of Beam

Maximum width of pallet or load (whichever is larger) _____

Number of pallets or loads across (between upright frames) _____

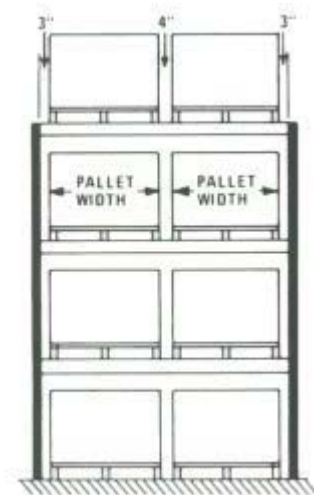
Allow 3" between upright frame and loads.

Allow 4" between loads

Example: Allow 10" for two across storage.

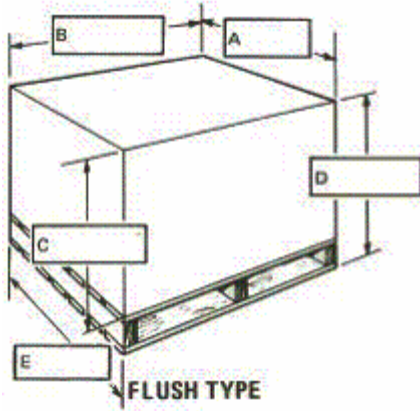
Total length of beams (Max load width plus allowance) _____

The clear distance between posts will be beam lengths plus space between plate and columns.



Load Types

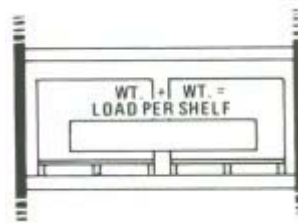
This diagram shows how to measure pallet Loads.



- A) Depth of pallet or load
- B) Width
- C) Height
- D) Total Height (load and pallet)
- E) Pallet Stringer Dimension
- F) Total Weight (load plus pallet)

Step 2. Beam Capacity

Number of Pallets Per Level _____
 Load Weight (Per Pallet) X _____
 = _____ *



* Minimum Required Capacity per pair of Beams – Levels

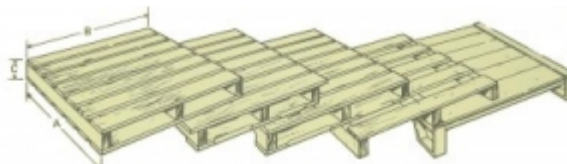
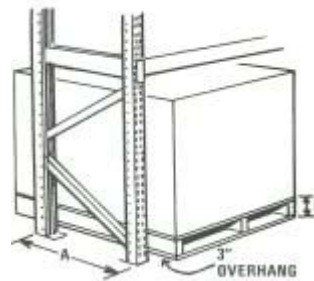
Step 3. Frame Depth and Spacers

Frame depth A). should be @ 6" less than pallet stringer length (see "Pallet Guide below)

Frame Dimension _____

Row Spacers, Wall Fixes & Wire Decking

* Please email or call for more information



Pallet Guide

A: Depth (Stringer Length) B: Width (Board Length) C: Height

Step 4. Frame Upright Height

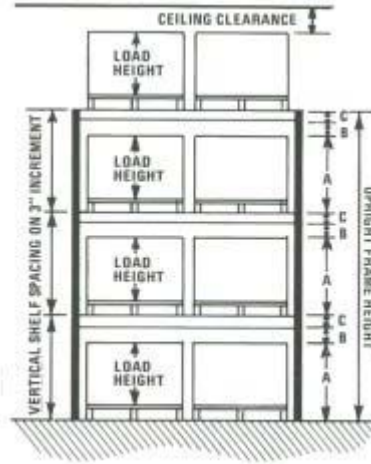
To determine Height of Frames Needed,
Starting at floor level:

Add height of pallet and load combined,
Plus 9" Total _____

Multiply total times the number of shelf
levels Levels X _____

= _____ to equal **Frame Height**

A) Load Height B) Lift Area C) Beam Face



Rack is required to go only as high as is necessary to support top pallets. Height may also be limited by the extent of fork elevation of lift truck. Provide a minimum of 6" between top load and ceiling obstructions. (Check local fire codes)

Step 5. Frame Upright Capacity

Add total of load weight per Level

Determine maximum vertical shelf spacing

See diagram (x) _____

Determine number of levels per bay _____

** Welters will figure Frame Capacity based on information provided above*

