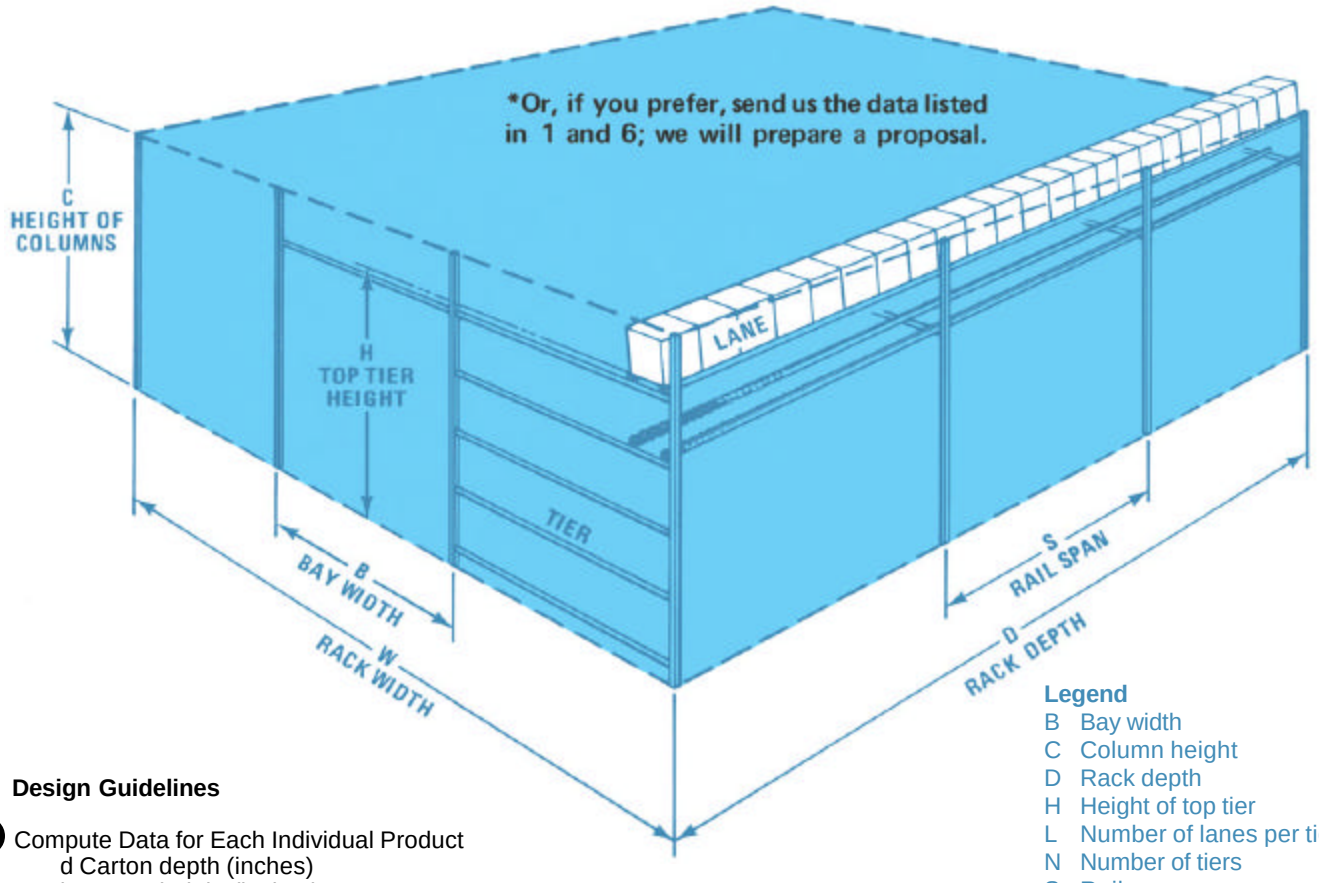
To design your CARTONFLO*



Legend

B Bay width
C Column height
D Rack depth
H Height of top tier
L Number of lanes per tier
N Number of tiers
S Rail span
T Tier weight
Y Total number of lanes
W Rack width

Design Guidelines

1 Compute Data for Each Individual Product

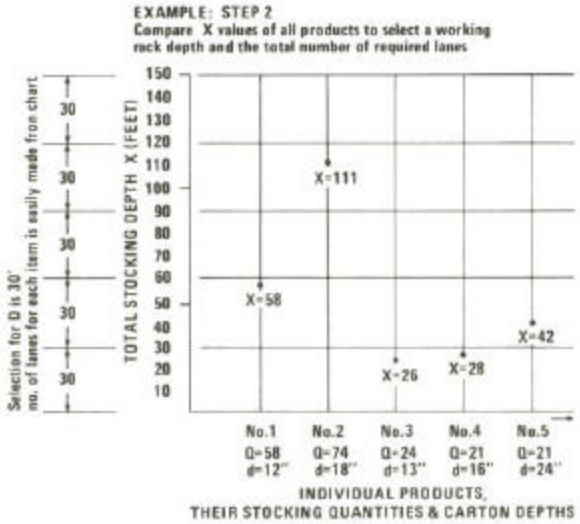
d Carton depth (inches)
h Carton height (inches)
Q Total stocking quantity
U Weight per foot (pounds per foot) = wt x 12/d
w Carton Width (inches)
wt Gross carton weight (pounds)
X Total stocking depth (feet) = Q x d/12

2 Make a Comparison Graph of All X Values

These compared values may show that approximately 20% of the products make up 80% of the flow. They can be used to establish the working rack depth D (feet) and the total number of required lanes Y.

As shown in the following example, for a selected rack depth of 30 feet, Y=2 of product no. 1, 4 of product no. 2, 1 product no. 3, etc.

Note: Rack depths of 10 to 40 feet are most popular.



3 Normally Top Tier Height H (inches) at Front of Rack is 72". (Bottom of carton at picking face)

Other heights may apply to suit space conditions or special picking arrangements.

4 Number of Tier N = $\frac{H}{\text{[h of tallest carton on tier +6"]}}$

5 Number of Lanes per Tier L=Y/N

The information derived above should now be checked against actual building condition as follows: (a floor plan is recommended)

6 Record Data on Floor Space, Obstructions, Product Flow, Loading and Unloading Areas

1. Floor area
2. Building column locations
3. Miscellaneous information
   a. limited ceiling heights, sprinklers, etc.
   b. floor obstructions
   c. utility areas, etc.
   d. aisles

7 Check the Building Specs to Verify that Desired Working Rack Depth D from Step 2 is Valid, Considering Loading and Unloading Areas as Well as Floor Lines as Mentioned in Step 6.

If D is not compatible, go back to Step 2 and refigure to suit.