

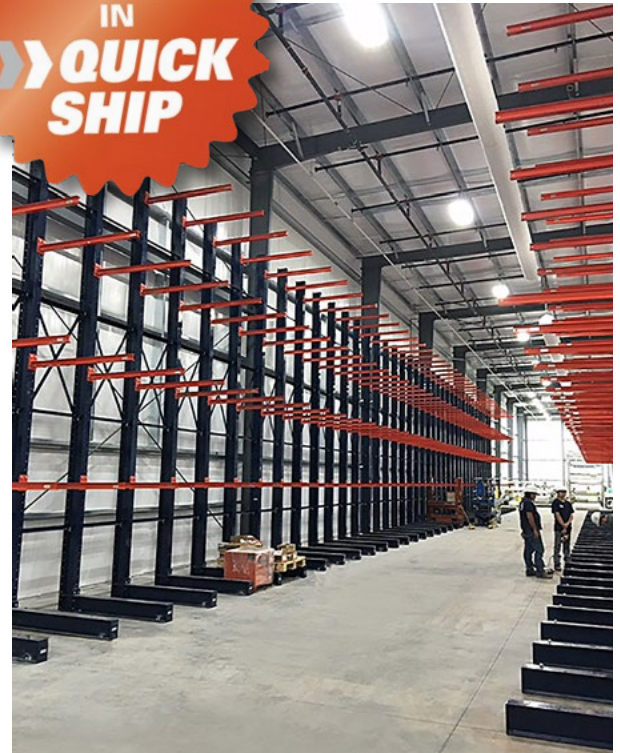
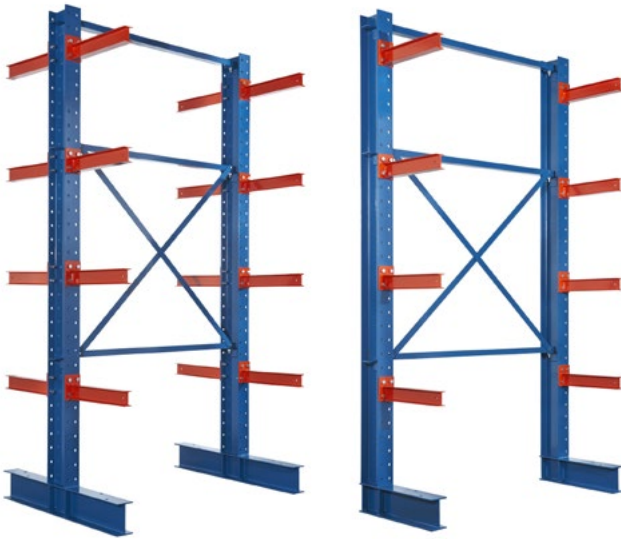


## Maximize storage and improve accessibility I-Beam cantilever racks

Meet the latest addition to our Quick Ship line. Popular for their space-saving design, I-Beam cantilever racks can allow accessibility from both sides, allowing for faster load and unload times. Their robust construction reduces fork truck damage.

Quick Ship I-beam cantilever racks offer:

- 4' arm length, with 4" vertical adjustability
- Freestanding heights of 12' and 16'
- Structural steel construction with a 50,000 psi minimum yield
- Heavy arm connector plate
- Bolted base-to-column connection



***I-Beam Cantilever Racks***  
*can be built in either single- or double-sided configurations.*

## How to design your cantilever rack systems

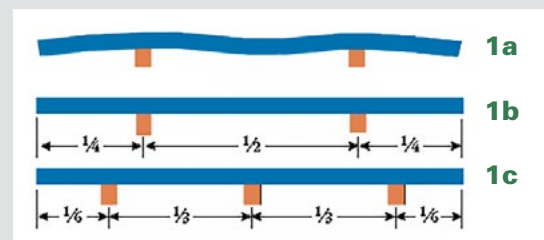
### 1. Determine the number and spacing of support arms.

The capacity of each 4' arm is 2,600#, so you will need to make sure that you use enough arms to accommodate your load. In addition, you can test for deflection by using wood blocks on the floor under the load.

Use enough arms under a load to prevent deflection of the load. Deflection causes undesirable side pressure on the arms.

If you do not detect any deflection with two wood blocks, you may use two support arms.

If you notice deflection, try three supports. Add supports as necessary until deflection is eliminated.



**Note: Product should overhang the end of the rack by 1/2 of the upright centerline distance.**

**Loading without overhang is incorrect.**

## 2. Determine if Quick Ship I-Beam arm length is appropriate for your load.

Arm length is generally equal to load depth, so generally, the 4' arm length would be appropriate for a 4' deep load (Figure 2a). 2b can also be used if rack is designed as such. Note: loading as shown in C reduces your arm capacity.

## 3. Determine which upright height you need – 144" or 192".

Start with base height of 8" (144" system) or 10" (192" system)\* \_\_\_\_\_

\* Heights rounded for ease of calculation

Add load height x number of storage levels desired \_\_\_\_\_

Add handling clearance [4" to 6"] x number of levels \_\_\_\_\_

Add 4" arm height x number of levels \_\_\_\_\_

Equals your minimum upright height \_\_\_\_\_

(EXAMPLE)

8"

18" x 4 = 72"

5" x 4 = 20"

4" x 4 = 16"

116"

**Note:** Top arm level must be below the top of the column.

**Check limitations at your plant such as ceiling clearance or fork lift height.**

## 4. Confirm system capacity is adequate for your load.

Divide the capacity per side by load weight per level to determine maximum levels.

144" bay = 13,010 lb. per side

192" bay = 18,530 lb. per side

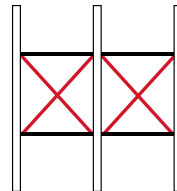
**Note:** Do not include a load on the base; this does not affect capacity.

## 5. Bracing lengths and patterns are predetermined.

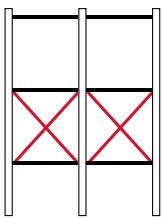
Select the correct brace kits, based on

- the height of your uprights and
- the width of your bays

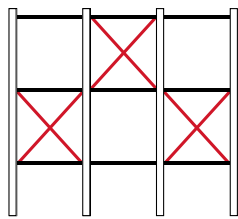
Example: With a 144" (12') high upright and width of 48", you will need bracing kit 12-48-IBC-BRACEKIT.



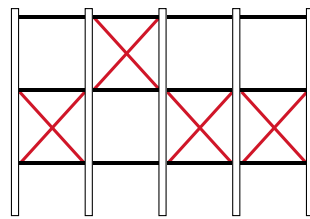
144" uprights" - same configuration for all bays



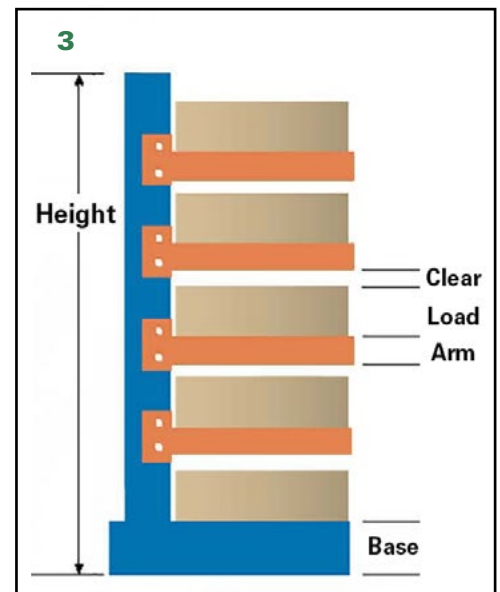
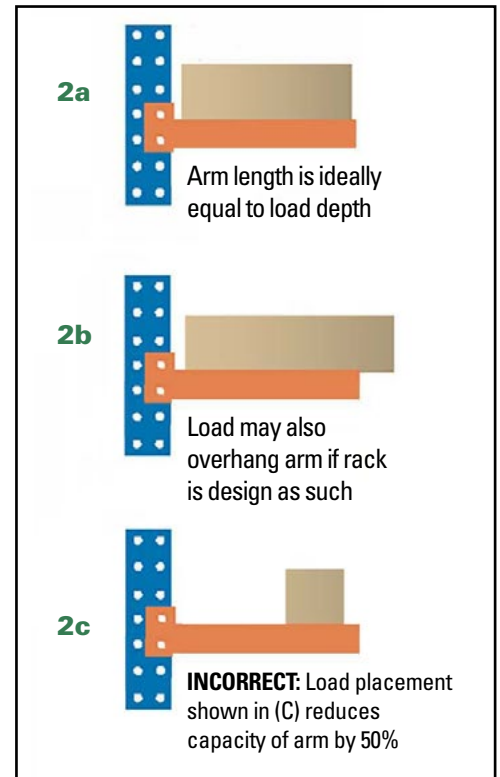
192" uprights - first / second bays



Odd number of bays - alternate bracing position



Even number of bays - alternate but bracing in mid-position on both ends



Request a Quote at [www.steelking.com/quick-ship](http://www.steelking.com/quick-ship) or contact your Steel King dealer.



**STEEL KING®**

BUILT TO DELIVER

800.826.0203 [www.steelking.com](http://www.steelking.com)