Cantilever Racks provide superior storage solutions. Our cantilever racks maximize spaces both vertically and horizontally to provide you with economical, efficient storage and retrieval system. In addition, our all-structural steel fabrication ensures long life for your storage investment.

**Benefits**

✓ Bolted base, arm and brace connections

✓ A variety of tower and arm sizes for different loads

✓ Easily store materials of varying dimensions

✓ Efficient use of vertical space

✓ Inside or outside storage

✓ Arms adjustable on 4” centers to accommodate various loads

✓ Strong and durable steel construction
Cantilever Rack consists of a series of structural steel arms bolted to large structural steel columns. Anchored by substantial bases and stabilizing cross braces along its back edge, this system is both strong and highly adjustable.

This product is perfect for retail or warehouse environments and works well with lift trucks. Many systems are available for use in outdoors and come in corrosion resistant finishes. Light and heavy duty models are available and in a variety of styles. Some common uses of structural cantilever rack include:

- Plywood
- Furniture
- Pipe
- Tubing
- Boxes
- Conduit
- Lumber
- Appliances
- Sheet Steel
- Doors
- Pallets
- Building Materials
Arms

- Arm vertical spacing is dependent on the load size and lift clearance required.
- Arm lengths depend on the depth of the product stored.
- Various sizes are available depending on load size and required capacity.

Determine Length of the Arms

- Correct
  - Evenly distributed load
  - Full rated arm capacity

- Incorrect
  - Improper load placement
  - Load exceeds length of arm

- Correct
  - Centered load
  - Full rated arm capacity

- Incorrect
  - Tip loading
  - Capacity may be reduced up to 50%

Determine Height

- Load Height
- Arm Height
- 6" Clearance
- Load Height
- Arm Height
- 6" Clearance
- Load Height
- Arm Height
- 6" Clearance
- Load Height
- Base Height

Determine Arm Spacing

- Improperly Loaded
  - (Not enough number of arms to prevent load deflection)

- Load - 2 Arms
  - L/4
  - L/2
  - L/4

- Load - 3 Arms
  - L/6
  - L/3
  - L/3
  - L/6

- Load - 4 Arms
  - L/8
  - L/4
  - L/4
  - L/4
  - L/8
Bracing

Lateral stability and spacing of the columns is accomplished with factory welded Vertical X-Brace Panels and Horizontals Brace members.

**X-Brace Welded Assembly (XBR)**

X-Brace Panels, are required in each end bay of any row, and in alternate interior bays. Factory welded attached bracing clips will properly position the bracing on the column.

See the Bracing Pattern chart for various column heights. To ascertain bracing required for in-between sizes select next larger size.

**Straight Brace/Single Angle**

Single angle bracing is configured as shown in Bracing Position pattern figure.

\[ \text{X} = \text{XBR (X-Brace welded assy)} \]

\[ \text{---} = \text{SBR (Straight Brace / single angle)} \]

*12' High Single Sided 3 Towers*

**BRACING POSITION**

*Upright heights showing position of required bracing in inches. To ascertain bracing requires for in-between sizes, select larger size.*
Consulting
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Manufacturing
Installation & Project Management

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