STRUCTURAL CANTILEVER RACK

ANDERSON
CANTILEVER RACK SYSTEMS

216 Upton Drive • St. Joseph, MI 49085

Phone: [269] 983-5543 • Fax: [269] 983-0902

www.abmrack.com

- Strong and durable structural steel construction
- No front posts – unrestricted access to your product
- Arms adjustable on 4” centers to accommodate various loads
- Efficient use of vertical space
- Easily store materials of varying dimensions
- Uprights punched on both sides for single or double sided storage
- Also available with steel grating or wire decking
- Inside or outside storage
- Covered cantilever “L” and “T” shed designs available
- Bolted base, arm and brace connections
- A variety of upright and arm sizes for different loads

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MULTI-LEVEL RACK SYSTEM

Structural Steel Cantilever Storage Systems are multi-level, high density storage racks designed to handle hundreds of different types and sizes of products with freedom from Upright interference. This allows for easier product removal and replacement. Cantilever Storage Systems are ideally suited to the storage of lumber, furniture, bar or plate stock; virtually any material which is inventoried in varying dimensions and requires long and unobstructed space.

Accessories available:

- Safety end caps
- Pole sockets and end poles
- Sign holders
- Sign plates

Single-Sided Cantilever

Double-Sided Cantilever

ARMS

Determine how many arms are required to support your load. Base this on the maximum lateral spacing of arms (due to load rigidity or weight) and in conjunction with the Arm Capacity Chart shown below. Individual arm capacity is determined by dividing the total load weight by the number of supporting arms. Arm length equals the depth of your load. Arm capacities are based upon uniform loads.

Determine the number of load levels per upright considering:

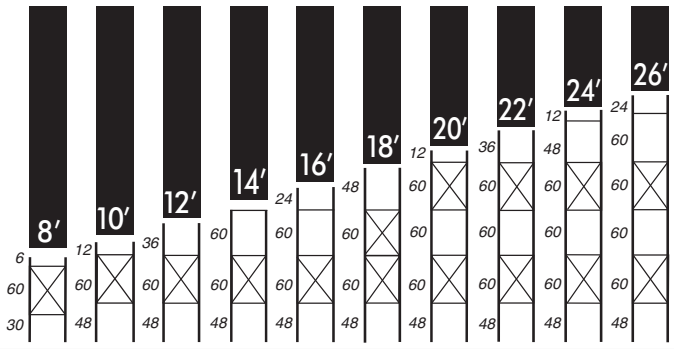
1. Maximum lift capabilities of your fork lift truck.
2. Unobstructed vertical space available.
3. Subtract the base height from the maximum lift height. Divide this height by the sum of: (one load height + 5" clearance + the height of one arm). This will equal the number of loads below the top arm that can be stored within the lifting capabilities of your truck. Check for unobstructed vertical space, if adding one more load height exceeds vertical space available, reduce arm levels by one.

BRACING

Lateral stability and spacing of the Uprights is accomplished with Vertical Brace Panels and Horizontal Brace Angles.

Vertical Brace Panels as shown, are required in each end bay of any row, and in alternate interior bays, i.e. bays 1, 3, 5, etc. in rows with an even number of bays, two adjacent bays will need vertical brace panels. Bracing shown is for interior applications. For exterior application, contact Anderson Building Materials. Factory positioned bracing clips will properly position the braces.

BRACING POSITION



**Upright heights showing position of required bracing in inches. To ascertain bracing required for in between sizes, select next larger size.*

ARM CAPACITY CHART

ARM	HEIGHT	ARM CAPACITIES (LBS.)*							
		24"	30"	36"	42"	48"	52"	54"	60"
A3	3"	3200	2500	2100	1800	1550	1425	1300	1050
A4	4"	5225	4200	3500	3000	2625	2425	2350	2100
A5	5"	6600	5300	4400	3750	3300	3050	2925	2650

**Arm capacities are based upon uniform load.*

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UPRIGHTS

Determine the Upright capacity by multiplying the desired number of arm levels by the capacity of the selected arms. A load can be stored on the base, however, this load is not included in the Upright capacity.

The minimum total Upright height is equal to:

❶ The total number of arms per side multiplied by the individual arm height, plus...

❷ The space between the arms (load height plus 4" - 6" clearance) multiplied by the number of spaces, plus...

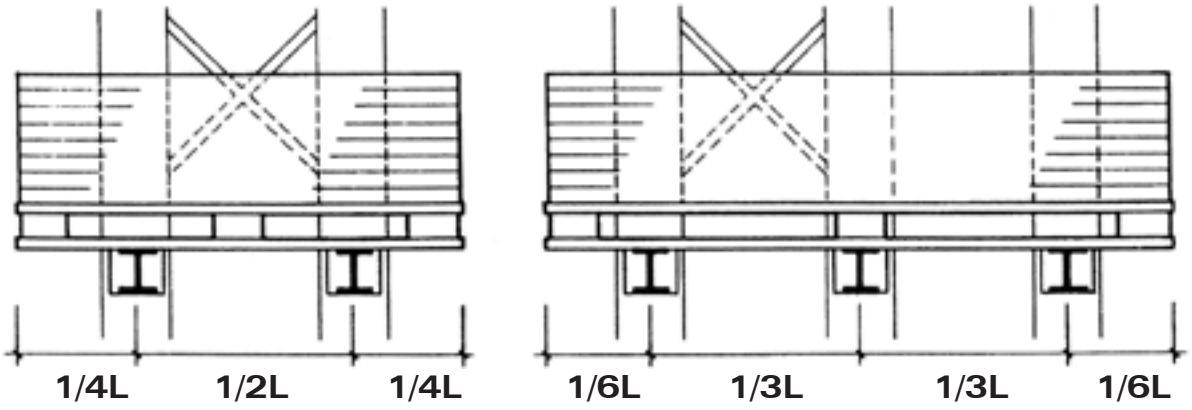
❸ The base height, plus...

❹ 4" minimum above the top arm. If you want the upright to be a back support for the top load, add in the desired height.

UPRIGHT CAPACITY CHART

Col. Type	Col. Depth	Top Arm To	*Pound Capacities for Each Side for Arm Lengths of:							
			24"	30"	36"	42"	48"	52"	54"	60"
U8	8"	18'	19500	17500	15800	14400	13300	12600	12300	11300
U10	10"	24'	30300	27500	25200	23200	21600	20600	20100	18900
U12	12"	24'	42400	38500	35300	32600	30200	28900	28200	26500

**Upright capacities shown are for single side only, not including the base. Double these for double sided uprights. For additional sizes and seismic ratings, contact Anderson Building Materials Company.*



The distance between uprights determines the bracing width. If you have two arms under your load the Brace Panel would be one-half the load length, three arms under the load would be one-third the load length.

A Cantilever Rack has the load carrying arm projecting from a single column, and is supported on one end only. Cantilever Racks have no front post or columns along the aisle, therefore, optimizing space utilization and allowing immediate access to your inventory.

A. Arm - Adjustable 4" on center in multiples of 4" from floor: Arm pitch approximately 3/4" per foot.

B. Base - Base length equals arm length or longer. Base height equals column depth.

C. Column - Single sided has base and arms on one side only. Double sided has base and arms both sides. Holes 4" on center on both sides. Column type equals column depth in inches.

VB. Vertical Brace - Rigid, pre-punched and factory welded, for bolting to bracing clips.

HB. Horizontal Brace (not shown) - Pre-punched for bolting to brace clip.

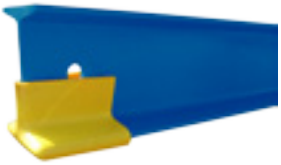
AP. Arm Pole - Retains load on arm

PS. Pole Socket - Retains load on base

BP. Base Pole - Bolts to arm and accepts pole

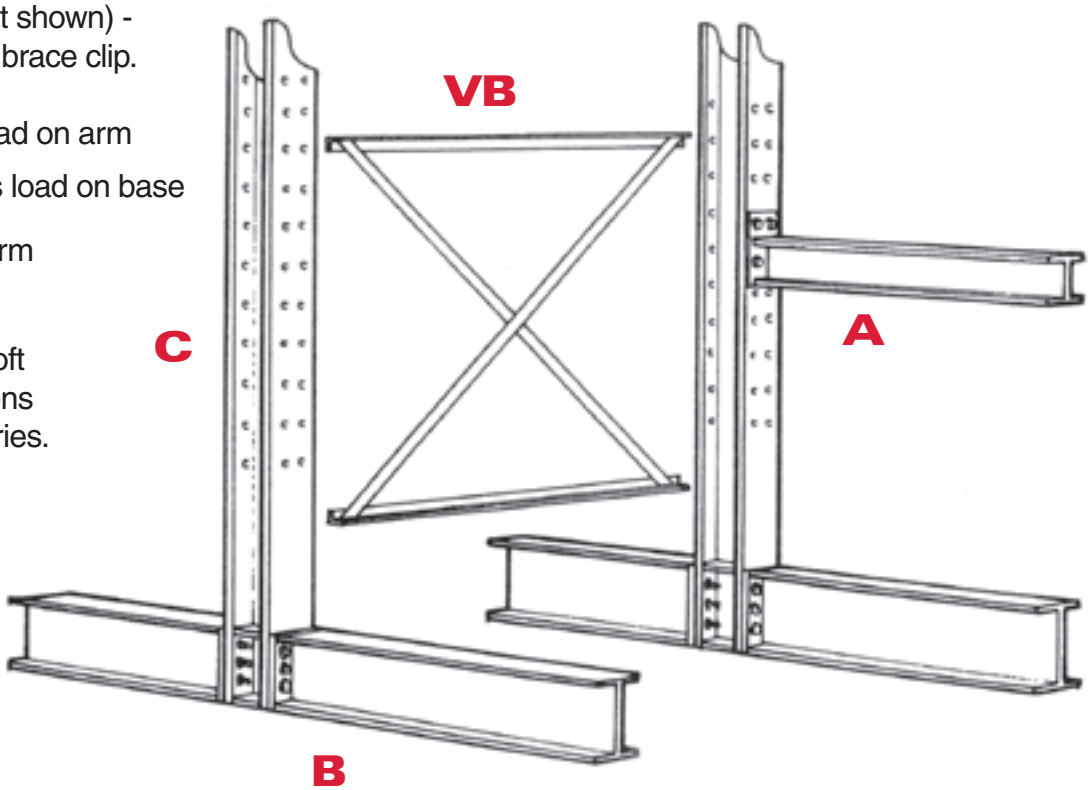
EC. End Cap - Optional soft plastic protective cap softens impact and minimizes injuries.

EC
End Cap



AP
Arm Pole & Socket

BP
Base Pole



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Anderson Building Materials Company

Providing quality products, without compromise at a competitive price and delivered on time.

For nearly 80 years...

Anderson Building Materials Co. has been dedicated to providing quality products, efficient service, and integrity in our relationships with our customers. This has been the basis of our business and, we believe, the reason Anderson Building Materials has grown and prospered. With three generations in management we are committed to preserving this legacy.

Knowledge...

As with any successful business, people are our greatest asset. Well trained, quality employees are the backbone of Anderson Building Materials Company. Through guidance and membership in trade organizations such as the Material Handling Industry (MHI), American Institute Of Steel Construction (A.I.S.C.), American Welding Society (A.W.S.) and Central Fabricators Association (CFA), we have kept abreast of the technical changes that have allowed us to remain competitive in today's world.

Investment...

Through capital investments in facilities, training, process improvements and automated equipment, Anderson is continually striving to improve and enhance our products. The addition of robotic welding systems, beam and anglelines have increased production efficiency as well as capacity.

Achievement...

As a Cantilever Rack producer since 1984, Anderson has been instrumental in the current rack design and fabrication standards adopted by numerous industries. Innovation, efficient manufacturing processes, and knowledge of fabrication have allowed Anderson to become one of the top producers of Cantilever Rack.

Service...

Anderson's customer base ranges from small businesses to Fortune 500 companies, yet each receives the same attention to detail and outstanding customer care. This customer service, along with quality products, innovation, commitment to excellence and delivery schedules are the qualities that set Anderson Building Materials Company apart from the competition.


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