



STRUCTURAL ARMS

Description

Structural arms are available in various lengths, which include 12", 18", 24", 30", 36", 42", 48", 54", 60", 72", 78", 84", 90", and 96". The arm plate connection is identified as 3"MD, 4"MD, 4"HD, 5"HD, 5.5"HD, and 6"XHD, which indicates the spacing between each punched bolt hole. The plates are either 1½" thick or 5⁄8" thick and have four ø13/16" or ø 1/2" punched holes at each corner. The plate requires 4-ASTM A325 structural bolts specified and tested for this specific purpose. These bolted connections fix the arm to the rack column on one end, leaving it free on the opposing end, thus resulting in a cantilever rack arm. The arms are designed to resist uniformly distributed loads exerted by the product that is supported and shall be manufactured of structural S-sections, W-sections or equivalent structural profiles. The supported load should be centered on the arm and should refrain from exceeding the edge of the arm. The arms are used for interior and exterior purposes. For all applications, the arms are finished with a powder-coated Cogan standard grey paint, which provides ultra-resilient protection.



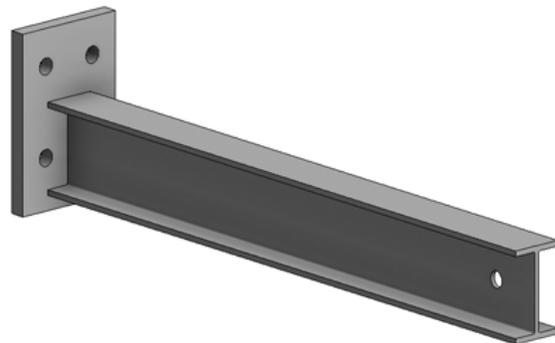
STRUCTURAL ARM

PRODUCT INFORMATION

Structural arms are available for any required purpose. It is composed of a beam welded to a plate connection and are manufactured angled at an incline of 1.5° or 3° from the horizontal. The number of arms required for a specified column is determined by the client. This will affect the overall design of the cantilever racking system. The arms are classified as either MD or HD which indicates the load bearing capabilities of the arms. MD implies light duty and HD means heavy duty. When configuring the number of arms required per column it is important to take into consideration two factors; the maximum capacity per column and the maximum capacity per arm. The total combined weight capacity of the arm should not exceed the maximum capacity of each column.

Material	Structural Steel
Length	12", 18", 24", 30", 36", 42", 48", 54", 60", 66" 72", 78", 84", 90", 96"
HD	Heavy Duty
MD	Light Duty
Orientation	1.5° or 3° from horizontal
Finish	Powder Coated Paint
Requires	(4) ASTM A325 structural bolts

STRUCTURAL ARM





Cantilever Racking
 Store Any Size, Any Shape
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**STRUCTURAL CANTILEVER
 RACKING**

SIZES

MAXIMUM ARM CAPACITY TABLE

ARM LENGTH	Available for Column Type 1 & 2					Column Type 2
	3" MD	4" MD	4" HD	5" HD	5.5" HD	6" XHD
12"	3 810 lbs	6 630 lbs	8 940 lbs	13 860 lbs	20 200 lbs	23 500 lbs
18"	2 540 lbs	4 420 lbs	5 960 lbs	9 240 lbs	13 470 lbs	15 660 lbs
24"	1 900 lbs	3 310 lbs	4 470 lbs	6 930 lbs	10 100 lbs	11 750 lbs
30"	1 520 lbs	2 650 lbs	3 580 lbs	5 540 lbs	8 080 lbs	9 400 lbs
36"	1 270 lbs	2 210 lbs	2 980 lbs	4 620 lbs	6 730 lbs	7 830 lbs
42"	1 090 lbs	1 890 lbs	2 560 lbs	3 960 lbs	5 770 lbs	6 710 lbs
48"	950 lbs	1 660 lbs	2 240 lbs	3 470 lbs	5 050 lbs	5 780 lbs
54"	850 lbs	1 470 lbs	1 990 lbs	3 080 lbs	4 490 lbs	5 220 lbs
60"	760 lbs	1 330 lbs	1 790 lbs	2 770 lbs	4 040 lbs	4 700 lbs
66"	680 lbs	1 200 lbs	1 620 lbs	2 510 lbs	3 670 lbs	4 260 lbs
72"	630 lbs	1 100 lbs	1 480 lbs	2 300 lbs	3 360 lbs	3 910 lbs
78"	580 lbs	1 010 lbs	1 370 lbs	2 120 lbs	3 100 lbs	3 610 lbs
84"	530 lbs	940 lbs	1 270 lbs	1 970 lbs	2 880 lbs	3 350 lbs
90"	500 lbs	870 lbs	1 180 lbs	1 840 lbs	2 680 lbs	3 120 lbs
96"	460 lbs	820 lbs	1 110 lbs	1 720 lbs	2 520 lbs	2 930 lbs



Cogan
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Cantilever Racking

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**STRUCTURAL CANTILEVER
RACKING**

SIZES

TYPICAL ARM CONNECTION PLATE DETAIL
(3" MD, 4" MD, 4" HD, 5" HD, 5.5" HD & 6" XHD arms)

3" MD ARMS USED WITH
COLUMN TYPE 1

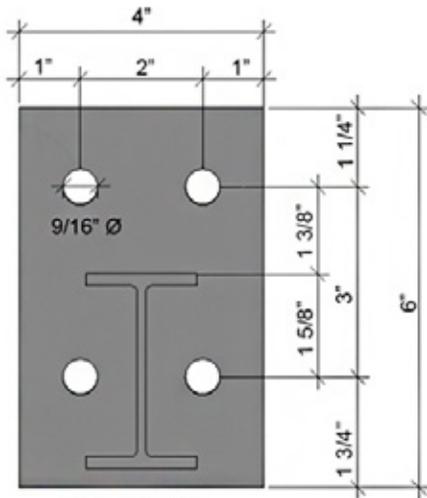


Plate: 1/2" Thick

3" MD ARMS USED WITH
COLUMN TYPE 2

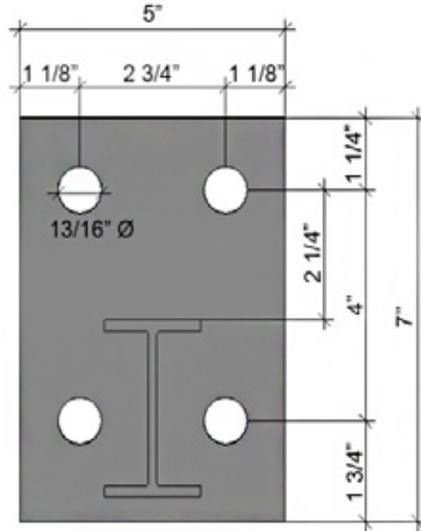


Plate: 5/8" Thick

4" MD ARM USED WITH
COLUMN TYPE 1

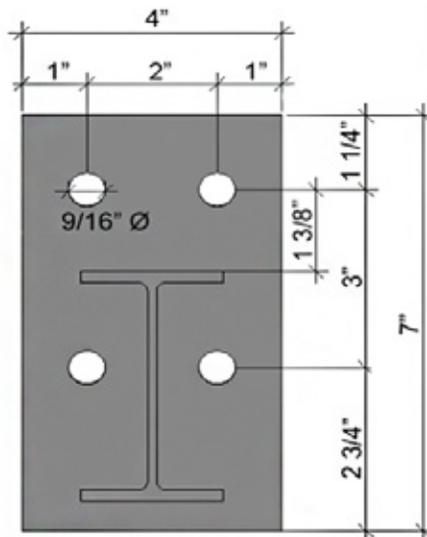


Plate: 1/2" Thick

4" MD ARM USED WITH
COLUMN TYPE 2

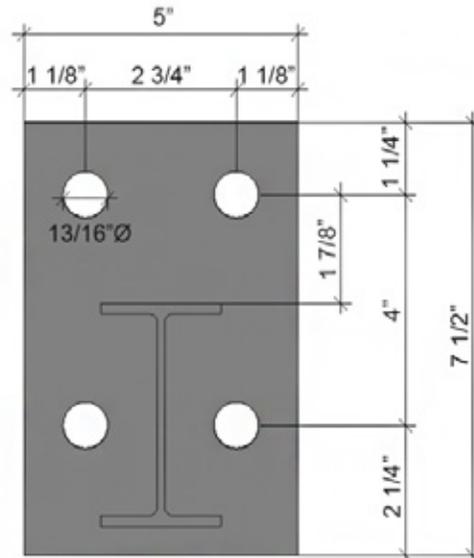


Plate: 5/8" Thick



SIZES

4" HD, 5" HD, 5.5" HD & 6" XHD
ARMS USED WITH COLUMN
TYPE 1

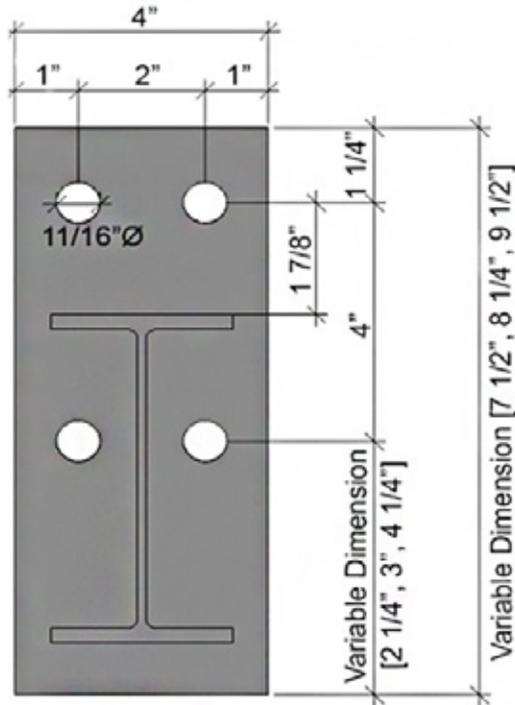


Plate: 5/8" Thick

4" HD, 5" HD, 5.5" HD & 6" XHD
ARMS USED WITH COLUMN
TYPE 2

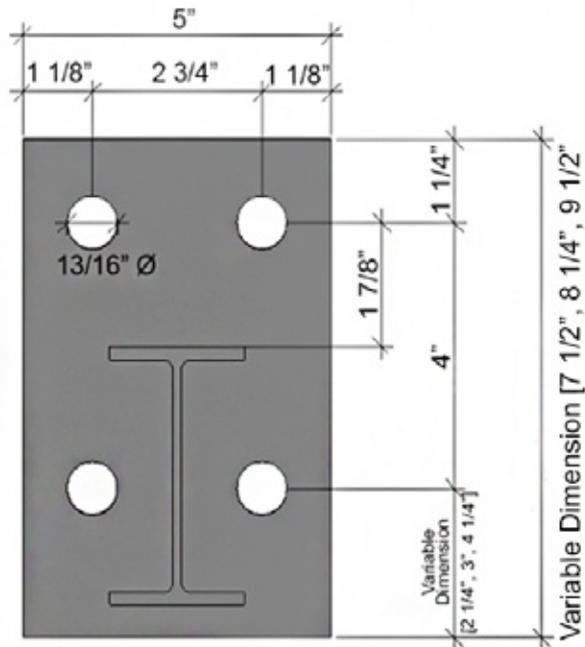


Plate: 5/8" Thick



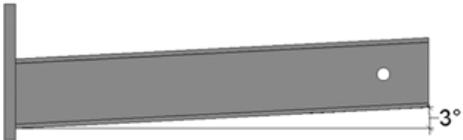
DETAILS

ORIENTATION

1.5° FROM THE HORIZONTAL

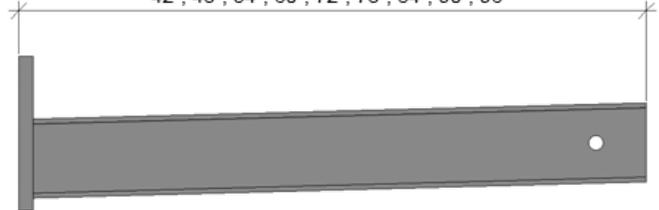


3° FROM THE HORIZONTAL



LENGTHS

Length: 12", 18", 24", 30", 36",
42", 48", 54", 60", 72", 78", 84", 90", 96"



CONNECTION DETAIL

CONNECTED TO CANTILEVER COLUMN

