

300 Westgate Drive Houston, MN 55943 www.flex-craft.com Phone 507-896-3100 Email info@flex-craft.com

# **Building Tips**





300 Westgate Drive Houston, MN 55943 www.flex-craft.com Phone 507-896-3100 Email info@flex-craft.com

## Load Reference

	Powder Coat Steel Tube		Anodized Aluminum Tube	
Tube Length	Single Point	Evenly Distributed	Single Point	Evenly Distributed
12"	485 lbs.	970 lbs.	270 lbs.	540 lbs.
24"	240 lbs.	480 lbs.	133 lbs.	266 lbs.
36"	152 lbs.	304 lbs.	85 lbs.	170 lbs.
48″	121 lbs.	242 lbs.	67 lbs.	134 lbs.
60"	97 lbs.	194 lbs.	54 lbs.	108 lbs.
72″	74 lbs.	148 lbs.	44 lbs.	88 lbs.
84″	69 lbs.	138 lbs.	38 lbs.	76 lbs.
96″	61 lbs.	122 lbs.	34 lbs.	68 lbs.
108"	52 lbs.	104 lbs.	29 lbs.	58 lbs.
120″	38 lbs.	76 lbs.	21 lbs.	42 lbs.



**Example Dimensions** 



### Key Points to Calculate Load Capacity

#### In the example provided:

- A Single Point Load placed on 2 36" steel tubes would start to yield/deflect around 304 lbs (2 tubes × 152 lbs.).
- An Evenly Distributed Load placed on 2 36" tubes would start to yield/deflect around 608 lbs (2 tubes x 304 lbs.).

#### Effective Countermeasures:

- Add either (or both) additional vertical or horizontal tube supports see support examples.
- This redistributes the load weight from 2 tubes to 4 tubes.
- Doubling Tubes bolting 2 tubes together either horizontally or vertically redistributes the load weight from 2 tubes to 4 tubes.

## Horizontal Tube Support Example





**Double Tube Support Example** 

