

How to Read an Outrigger Counterweight Chart or Fulcrum Point Load Chart

Counterweight Charts:

- Find the outreach distance you need ('Reach') in the top row of the chart.
- Find the rated load you need ('Hoist Rated Load') at the left of the chart.
- The box at which this row and column meet indicates the number of 50 lb. counterweights that are required.

Example:

If you need a 72" reach and 1250 lb. rated load, 34 50 lb. counterweights are required.

	Reach (in.)		
	84"	78"	72"
1000	33	31	27
1250	Not Allowed	Not Allowed	34
1500	Not Allowed	Not Allowed	Not Allowed

Fulcrum Point Load Charts:

- Find the outreach distance you need ('Reach') in the top row of the chart.
- Find the rated load you need ('Hoist Rated Load') at the left of the chart.
- The box at which this row and column meet indicates the point load in number of pounds that will be placed on the rooftop at the fulcrum with this configuration, assuming a 4 to 1 required safety standard.

Example:

If you need a 72" reach and 1250 lb. rated load, the point load on the roof will be 6,700 lb at the fulcrum.

	Reach (in.)		
	84"	78"	72"
1000	5650	5550	5450
1250	Not Allowed	Not Allowed	6700
1500	Not Allowed	Not Allowed	Not Allowed

8-0217-5, 8-0217-6, 8-0217-7

5 x 5 outrigger beam

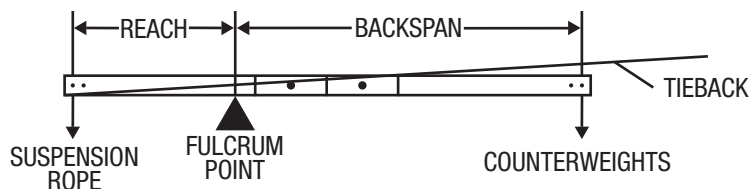
Outrigger Counterweight Chart

		Reach (in.)											
		74"	66"	60"	54"	48"	42"	36"	30"	24"	18"		
Hoist Rated Load (lb)	750	40 24 22	33 21 19	29 19 17	25 16 15	21 14 13	18 12 11	15 10 9	12 8 8	9 7 6	7 5 5	16'	22' 25'
	1000	Not Allowed	44 28 25	38 25 22	33 21 19	28 19 17	24 16 14	20 13 12	16 11 10	12 9 8	9 6 6	16'	22' 25'
	1250	Not Allowed	Not Allowed	Not Allowed	41 27 24	35 23 21	29 20 18	24 17 15	20 14 12	15 11 10	11 8 7	16'	22' 25'
	1500	Not Allowed	Not Allowed	Not Allowed	Not Allowed	42 28 25	35 24 21	29 20 18	23 16 15	18 13 12	13 9 9	16'	22' 25'
		Number of 50 lb. Counterweights											

Fulcrum Point Load Chart

		Reach (in.)											
		74"	66"	60"	54"	48"	42"	36"	30"	24"	18"		
Hoist Rated Load (lb)	750	5000	4650	4450	4250	4050	3900	3750	3600	3450	3350	16'	22'
		4200	4050	3950	3800	3700	3600	3500	3400	3350	3250	22'	
		4100	3950	3850	3750	3650	3550	3450	3400	3300	3250	25'	
	1000	Not Allowed	6200	5900	5650	5400	5200	5000	4800	4600	4450	16'	22'
		5400	5250	5050	4950	4800	4650	4550	4450	4300	22'		
		5250	5100	4950	4850	4700	4600	4500	4400	4300	25'		
1250	Not Allowed	Not Allowed	Not Allowed	7050	6750	6450	6200	6000	5750	5550	16'	22'	
				6350	6150	6000	5850	5700	5550	5400	22'		
				6200	6050	5900	5750	5600	5500	5350	25'		
1500	Not Allowed	Not Allowed	Not Allowed	Not Allowed	8100	7750	7450	7150	6900	6650	16'	22'	
					7400	7200	7000	6800	6650	6450	22'		
					7250	7050	6900	6750	6600	6450	25'		

Fulcrum point loads are divided by 2 when 701960-1 or 701960-2 are used with 8-0217 series beams.



16' Outrigger: 8-0217-6



22' Outrigger: 8-0217-7



25' Outrigger: 8-0217-5

704241-1 & -2

5x5 Max Reach Assembly

Outrigger Counterweight Chart

		Reach (in.)									
		96"	90"	84"	80"	76"	72"	66"	64"	60"	54"
Hoist Rated Load (lb)	1000	5950	5750	5600	5600	5500	5400				
	1250	Not Allowed	Not Allowed	Not Allowed	Not Allowed	6750	6650	6450	6400	6300	
	1500	Not Allowed	Not Allowed	Not Allowed	Not Allowed	Not Allowed	Not Allowed	Not Allowed	7700	7550	7350

Fulcrum Point Load Chart

		Reach (in.)									
		96"	90"	84"	80"	76"	72"	66"	64"	60"	54"
Hoist Rated Load (lb)	1000	5950	5750	5600	5600	5500	5400				
	1250	Not Allowed	Not Allowed	Not Allowed	Not Allowed	6750	6650	6450	6400	6300	
	1500	Not Allowed	Not Allowed	Not Allowed	Not Allowed	Not Allowed	Not Allowed	Not Allowed	7700	7550	7350

700809-1

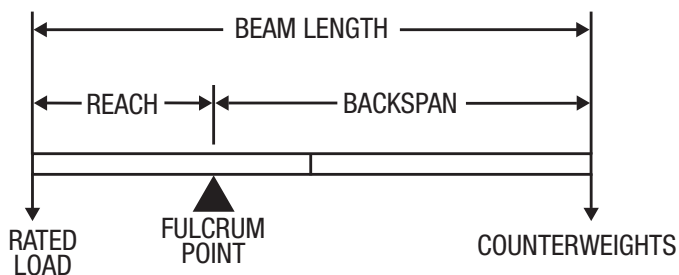
6 in. square tube, 1/4 in. wall outrigger beam

Outrigger Counterweight Chart

Rated Load (lb)	Reach (in.)					
	84"	78"	72"	66"	60"	54"
1000	33	31	27	24	22	19
1250	Not Allowed	Not Allowed	34	30	27	24
1500	Not Allowed	Not Allowed	Not Allowed	Not Allowed	32	28
	204"	210"	216"	222"	228"	234"
	Minimum Backspan (in.)					

Fulcrum Point Load Chart

Hoist Rated Load (lb)	Reach (in.)					
	84"	78"	72"	66"	60"	54"
1000	5650	5550	5350	5200	5100	4950
1250	Not Allowed	Not Allowed	6700	6500	6350	6200
1500	Not Allowed	Not Allowed	Not Allowed	Not Allowed	7600	7400



Maximum Reach	Hoist Load
84 in. (2.1 m)	1000 lb (453.6 kg)
72 in. (1.8 m)	1250 lb (567 kg)
60 in. (1.5 m)	1500 lb (680.4 kg)

700819-1

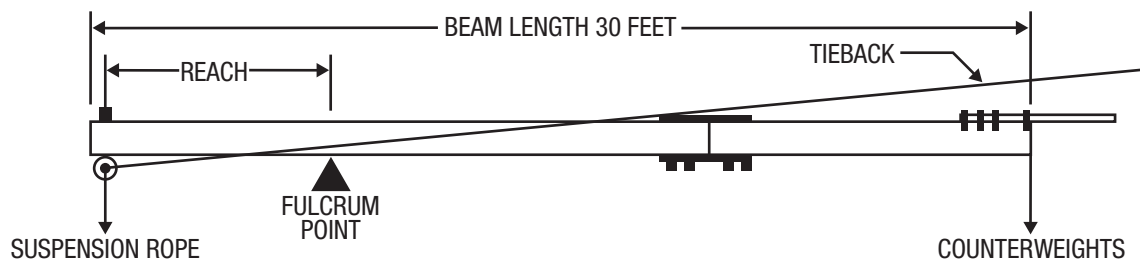
6 in. square tube, 1/2 in. wall outrigger beam

Outrigger Counterweight Chart

Hoist Rated Load (lb)	Reach (in.)													
	135"	132"	126"	120"	114"	108"	102"	96"	90"	84"	78"	72"	66"	60"
1000	49	47	44	41	38	35	32	30	27	25	23	21	19	17
1250	Not Allowed	Not Allowed	Not Allowed	Not Allowed	47	44	40	37	34	31	28	26	23	21
1500	Not Allowed	Not Allowed	Not Allowed	Not Allowed	Not Allowed	Not Allowed	48	44	41	37	34	31	28	25

Fulcrum Point Load Chart

Hoist Rated Load (lb)	Reach (in.)													
	135"	132"	126"	120"	114"	108"	102"	96"	90"	84"	78"	72"	66"	60"
1000	6450	6350	6200	6050	5900	5750	5600	5500	5350	5250	5150	5050	4950	4850
1250	Not Allowed	Not Allowed	Not Allowed	Not Allowed	7350	7200	7000	6850	6700	6550	6400	6300	6150	6050
1500	Not Allowed	Not Allowed	Not Allowed	Not Allowed	Not Allowed	Not Allowed	8400	8200	8050	7850	7700	7550	7400	7250



MAX NUMBER OF WEIGHTS FOR SPACE AVAILABLE:

- 1" THICK WEIGHTS – 41
- 7/8" THICK WEIGHTS – 44
- 3/4" THICK WEIGHTS – 49

Maximum Reach	Hoist Load
135 in. (3.42 m)	1000 lb (453.6 kg)
114 in. (2.90 m)	1250 lb (567 kg)
102 in. (2.61 m)	1500 lb (680.4 kg)