

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"	
Hoist Rated Load (lbs.)	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 lbs. at the fulcrum.

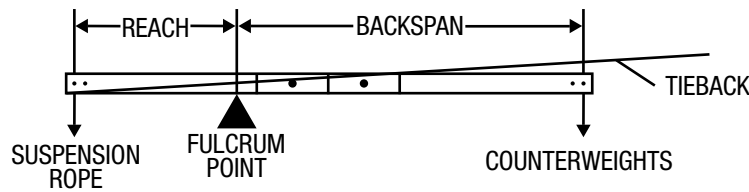
	Reach (in.)			
	84"	78"	72"	
Hoist Rated Load (lbs.)	1000	5650	5550	5450
1250	Not Allowed	Not Allowed	6700	
1500	Not Allowed	Not Allowed	Not Allowed	

8-0217-5, 8-0217-6, 8-0217-7 5 x 5 outrigger beam

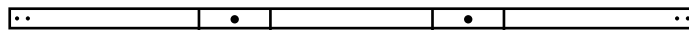
Outrigger Counterweight Chart

Hoist Rated Load (lbs.)	Reach (in.)										Outrigger Length (ft.)
	74"	66"	60"	54"	48"	42"	36"	30"	24"	18"	
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'

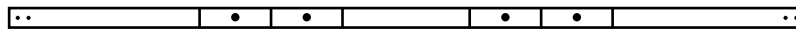
Number of 50 lb. Counterweights



16' Outrigger: 8-0217-6



22' Outrigger: 8-0217-7



25' Outrigger: 8-0217-5

More information online at www.spiderstaging.com

For more information, call: 1-877-774-3370

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

5 x 5 outrigger beam

Fulcrum Point Load Chart

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

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

700809-1

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

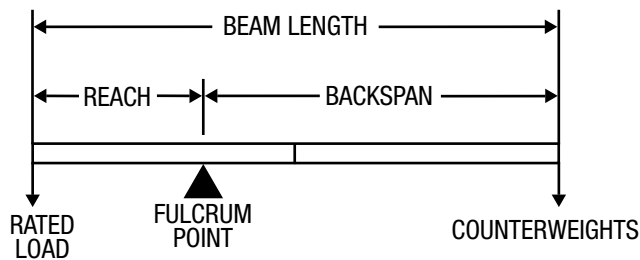
Outrigger Counterweight Chart

		Reach (in.)					
		84"	78"	72"	66"	60"	54"
Rated Load (lbs.)	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"

Minimum Backspan (in.)

Fulcrum Point Load Chart

		Reach (in.)					
		84"	78"	72"	66"	60"	54"
Hoist Rated Load (lbs.)	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 lbs. (453.6 kg)
72 in. (1.8 m)	1250 lbs. (567 kg)
60 in. (1.5 m)	1500 lbs. (680.4 kg)

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700819-1

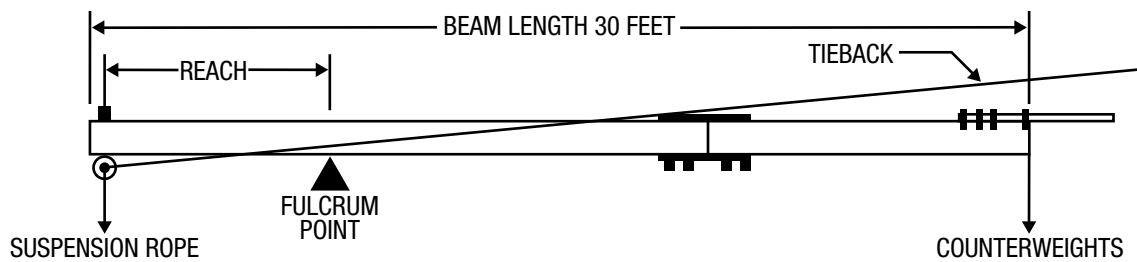
6 in. square tube, 1/2 in. wall outrigger beam

Outrigger Counterweight Chart

		Reach (in.)													
		135"	132"	126"	120"	114"	108"	102"	96"	90"	84"	78"	72"	66"	60"
Hoist Rated Load (lbs.)	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

		Reach (in.)													
		135"	132"	126"	120"	114"	108"	102"	96"	90"	84"	78"	72"	66"	60"
Hoist Rated Load (lbs.)	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 lbs. (450 kg)
114 in. (2.90 m)	1250 lbs. (570 kg)
102 in. (2.61 m)	1500 lbs. (680 kg)

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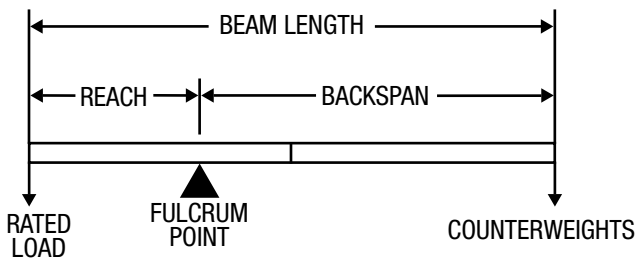
700751-1 6 x 4 Outrigger Beam

Outrigger Counterweight Chart

		Reach (in.)									
		36"	34"	32"	28"	24"	20"	18"	16"	14"	12"
Rated Load (lbs.)	1000	17	16	15	13	11	9	8	7	7	6
	1250	Not Allowed	Not Allowed	Not Allowed	16	14	11	10	9	8	7
	1500	Not Allowed	Not Allowed	Not Allowed	Not Allowed	17	14	12	11	9	8
		168"	169"	171"	174"	177"	180"	182"	184"	186"	188"
		Minimum Backspan (in.)									

Fulcrum Point Load Chart

		Reach (in.)									
		36"	34"	32"	28"	24"	20"	18"	16"	14"	12"
Hoist Rated Load (lbs.)	1000	4850	4800	4750	4650	4550	4450	4400	4350	4350	4300
	1250	Not Allowed	Not Allowed	Not Allowed	5800	5700	5550	5500	5450	5400	5350
	1500	Not Allowed	Not Allowed	Not Allowed	Not Allowed	Not Allowed	6700	6600	6550	6450	6400



Maximum Reach	Hoist Load
36 in. (0.9 m)	1000 lbs. (453.6 kg)
28 in. (0.7 m)	1250 lbs. (567 kg)
24 in. (0.6 m)	1500 lbs. (680.4 kg)

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SA-3728 Aluminum Tube Outrigger

Outrigger Counterweight Chart

Beam Length (ft.)	Reach (in.)																			
	14"	16"	18"	20"	22"	24"	26"	28"	30"	32"	34"	36"	38"	40"	42"	44"	46"	48"	50"	55.35"
22	5	6	7	7	8	9	10	11	11	12	13	14	15	16	17	18	19	19	20	21
19	6	7	8	9	10	11	12	12	13	15	16	17	18	19	20	21	Not Allowed	Not Allowed	Not Allowed	Not Allowed
16	7	8	9	11	12	13	14	15	17	18	19	21	Not Allowed	Not Allowed	Not Allowed	Not Allowed	Not Allowed	Not Allowed	Not Allowed	Not Allowed

- Maximum reach is 55.4 inches, with support frame
 - Maximum load 1000 lbs rated
 - No more than 21 counterweights

Fulcrum Point Load Chart

Total Outrigger Length (ft.)	Reach (in.)																			
	14"	16"	18"	20"	22"	24"	26"	28"	30"	32"	34"	36"	38"	40"	42"	44"	46"	48"	50"	55.35"
22	4250	4300	4350	4350	4400	4450	4500	4550	4550	4600	4650	4700	4750	4800	4850	4900	4950	4950	5000	5050
19	4300	4350	4400	4450	4500	4550	4600	4600	4650	4750	4800	4850	4900	4950	5000	5050	Not Allowed	Not Allowed	Not Allowed	Not Allowed
16	4350	4400	4450	4550	4600	4650	4700	4750	4850	4900	4950	5050	Not Allowed	Not Allowed	Not Allowed	Not Allowed	Not Allowed	Not Allowed	Not Allowed	Not Allowed

Special Note about the SA-3728: All fulcrum point loads for the SA-3728 are based on 1000 lb rated hoist load. The length of SA-3728 assembly varies from 16 ft to 22 ft. Select the total outrigger length from left column and the reach to find the point load.