

# How to Read Cantilever Charts

Simple steps to read the Allowable Single & Double Cantilever charts on the following pages:

Step 1: Select the total length of platform you want.

Step 2: Go to the column for the load rating you want.

Step 3: Find the minimum and maximum cantilever at that platform length and load combination.

Step 4: If length doesn't meet project needs, go to a different platform length at the same load rating or a different load rating to find a combination that will work.

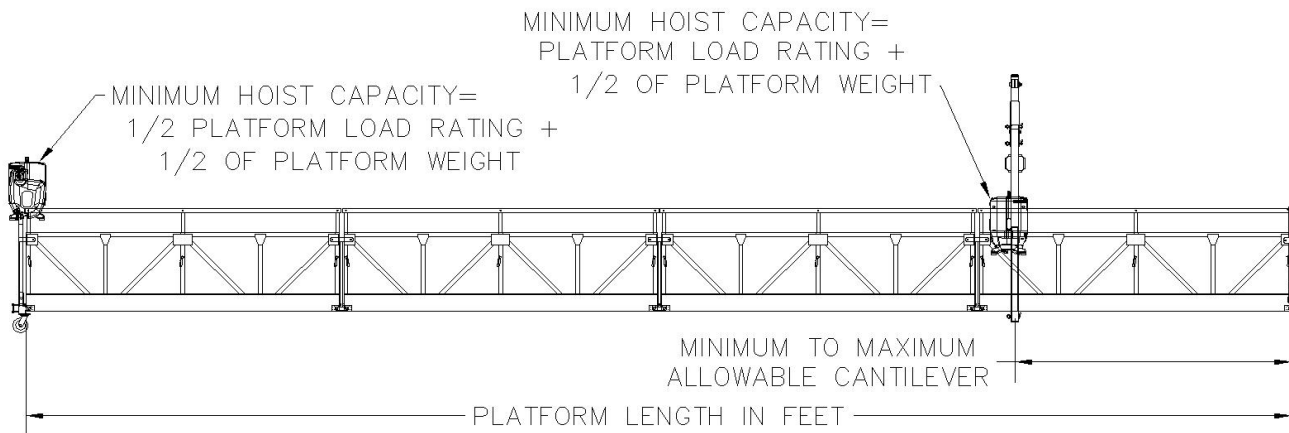
PLATFORM LENGTH		500 lbs. (226.8 kg) / 2 PERSONNEL				<b>#2</b> 750 lbs. (340.2 kg) / 3 PERSONNEL				1000 lbs. (453.6 kg) / 4 PERSONNEL				PLATFORM WEIGHT	
ft	m	MIN		MAX		MIN		MAX		MIN		MAX		lbs	kg
		ft	m	ft	m	ft	m	ft	m	ft	m				
20	6.1	0	0	4	1.2	0	0	3	0.9	0	0	3	0.9	740	335.7
21	6.4	0	0	5	1.5	0	0	4	1.2	0	0	3	0.9	793	359.7
22	6.7	0	0	5	1.5	0	0	4	1.2	0	0	3	0.9	842	381.9
23	7	0	0	5	1.5	0	0	4	1.2	0	0	3	0.9	785	356.1
24	7.3	0	0	6	1.8	0	0	4	1.2	0	0	4	1.2	862	391
25	7.6	0	0	6	1.8	0	0	4	1.2	0	0	4	1.2	805	365.1
26	7.9	0	0	6	1.8	0	0	5	1.5	0	0	4	1.2	854	387.4
27	8.2	0	0	7	2.1	0	0	5	1.5	0	0	4	1.2	931	422.3
28	8.5	0	0	7	2.1	0	0	5	1.5	0	0	4	1.2	874	396.4
29	8.8	0	0	7	2.1	0	0	6	1.8	0	0	5	1.5	923	418.7
30	9.1	0	0	7	2.1	0	0	6	1.8	0	0	5	1.5	866	392.8
31	9.5	0	0	8	2.4	0	0	6	1.8	0	0	5	1.5	943	427.7
32	9.8	0	0	8	2.4	0	0	6	1.8	0	0	5	1.5	992	450
<b>#1</b> 33	10.1	0	0	8	2.4	0	0	<b>#3</b> 6	1.8	0	0	5	1.5	935	424.1
34	10.4	0	0	9	2.7	0	0	7	2.1	0	0	5	1.5	1012	459
35	10.7	0	0	9	2.7	0	0	7	2.1	0	0	5	1.5	955	433.2

- Platform weight is based on maximum use of 10 ft (3 m) sections and SC1000 hoists and walk-thru or low profile stirrups. If your platform configuration varies from this, contact Spider Product Support to verify if your hoist rated capacity will be adequate at the different platform weight.
- Calculate the actual platform weight by adding up all parts needed.
- Rated load can be placed at any point on the platform.
- Minimum hoist capacity must be greater than the platform rated load plus one-half the platform weight. Platforms with rated loads of 750 lb (340.2 kg) or more require use of 1,500 lb. (680.4 kg) capacity hoists. These are shown in the grey shaded area on the charts.
- If hoist capacity does not exceed this calculation, contact Spider Product Support. In many cases, Spider can approve the platform load rating by limiting where the rated load can be placed. These configurations are in the pink shaded area on the charts.
- On longer platforms, the competent person should take into account the possibility of a pendulum effect (swing fall hazard). This hazard should be evaluated and mitigated as part of a properly developed Jobsite Safety Analysis (JSA).
- The Allowable Cantilever Load and Length Configuration charts on the following pages are for use with Spider walk-thru stirrups, low overhead and low profile stirrups as well as cross beam stirrup assemblies.

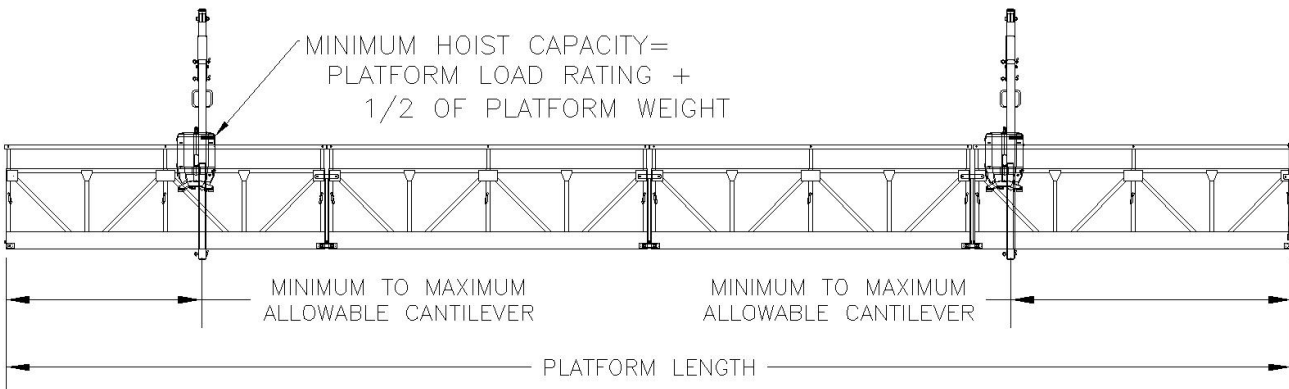
- Using the Cross Beam Assembly (93-001) or Stirrup Assembly (9-3) in cantilevered applications can cause abrasion on modular platform toeboards or other components. Protect the platform by attaching 60.591 rope guiding spring with part 6685 to the 2-731 or 700958-1 stirrup.
- There are additional considerations for using the Cross Beam Assembly on cantilevered platforms:
  - Extend handrails to their highest height to ensure appropriate guardrail protection at all times.
  - Never stand on the stirrup, cross beam assembly, toeboard or midrail in order to pass by the hoist.
  - Plan fall arrest equipment selection to ensure 100% tie-off when moving around the hoist.
  - It is best to avoid pulling the lifeline past the suspension wire rope to avoid entanglements.

The content contained in this catalog is for informational purposes only. For actual specifications, illustrations and information, consult the Operators Manual, product labels, or a Spider professional.

### Single Cantilever Configuration



### Double Cantilever Configuration



# Allowable Single Cantilever Load and Length Configurations

For use with all Spider stirrups and cross beam assembly.

PLATFORM LENGTH		500 lb (226.8) kg / 2 PERSONNEL				750 lb (340.2) kg / 3 PERSONNEL				1000 lb (453.6) kg / 4 PERSONNEL				PLATFORM WEIGHT	
ft	m	MIN		MAX		MIN		MAX		MIN		MAX		lb	kg
		ft	m	ft	m	ft	m	ft	m	ft	m	ft	m		
20	6.1	0	0	4	1.2	0	0	3	0.9	0	0	3	0.9	740	335.7
21	6.4	0	0	5	1.5	0	0	4	1.2	0	0	3	0.9	793	359.7
22	6.7	0	0	5	1.5	0	0	4	1.2	0	0	3	0.9	842	381.9
23	7	0	0	5	1.5	0	0	4	1.2	0	0	3	0.9	785	356.1
24	7.3	0	0	6	1.8	0	0	4	1.2	0	0	4	1.2	862	391
25	7.6	0	0	6	1.8	0	0	4	1.2	0	0	4	1.2	805	365.1
26	7.9	0	0	6	1.8	0	0	5	1.5	0	0	4	1.2	854	387.4
27	8.2	0	0	7	2.1	0	0	5	1.5	0	0	4	1.2	931	422.3
28	8.5	0	0	7	2.1	0	0	5	1.5	0	0	4	1.2	874	396.4
29	8.8	0	0	7	2.1	0	0	6	1.8	0	0	5	1.5	923	418.7
30	9.1	0	0	7	2.1	0	0	6	1.8	0	0	5	1.5	866	392.8
31	9.5	0	0	8	2.4	0	0	6	1.8	0	0	5	1.5	943	427.7
32	9.8	0	0	8	2.4	0	0	6	1.8	0	0	5	1.5	992	450
33	10.1	0	0	8	2.4	0	0	6	1.8	0	0	5	1.5	935	424.1
34	10.4	0	0	9	2.7	0	0	7	2.1	0	0	5	1.5	1012	459
35	10.7	0	0	9	2.7	0	0	7	2.1	0	0	5	1.5	955	433.2
36	11	0	0	9	2.7	0	0	7	2.1	0	0	5	1.5	1004	455.4
37	11.3	0	0	10	3.1	0	0	8	2.4	0	0	5	1.5	1081	490.3
38	11.6	0	0	10	3.1	0	0	8	2.4	0	0	5	1.5	1024	464.5
39	11.9	0	0	10	3.1	0	0	8	2.4	0	0	5	1.5	1073	486.7
40	12.2	0	0	10	3.1	0	0	8	2.4	0	0	5	1.5	1016	460.9
41	12.5	0	0	11	3.4	0	0	9	2.7	1	0.3	5	1.5	1061	481.3
42	12.8	0	0	11	3.4	0	0	9	2.7	2	0.6	5	1.5	1142	518
43	13.1	0	0	11	3.4	0	0	9	2.7	3	0.9	5	1.5	1085	492.2
44	13.4	0	0	12	3.7	0	0	10	3.1	4	1.2	5	1.5	1162	527.1
45	13.7	0	0	12	3.7	0	0	9	2.7	5	1.5	5	1.5	1105	501.2
46	14	0	0	12	3.7	0	0	10	3.1	NOT ALLOWED				1154	523.5
47	14.3	0	0	13	4	0	0	10	3.1	NOT ALLOWED				1231	558.4
48	14.6	0	0	13	4	0	0	10	3.1	NOT ALLOWED				1174	532.5
49	14.9	0	0	13	4	0	0	11	3.4	NOT ALLOWED				1223	554.7
50	15.2	0	0	13	4	0	0	11	3.4	NOT ALLOWED				1166	528.9
51	15.5	0	0	14	4.3	1	0.3	11	3.4	NOT ALLOWED				1243	563.8
52	15.9	0	0	15	4.6	2	0.6	12	3.7	NOT ALLOWED				1292	586
53	16.2	0	0	15	4.6	3	0.9	12	3.7	NOT ALLOWED				1235	560.2
54	16.5	0	0	15	4.6	4	1.2	12	3.7	NOT ALLOWED				1312	595.1
55	16.8	0	0	15	4.6	5	1.5	12	3.7	NOT ALLOWED				1255	569.3
56	17.1	0	0	15	4.6	6	1.8	13	4	NOT ALLOWED				1304	591.5
57	17.4	0	0	15	4.6	7	2.1	14	4.3	NOT ALLOWED				1381	626.4
58	17.7	0	0	15	4.6	8	2.4	13	4	NOT ALLOWED				1324	600.6
59	18	0	0	15	4.6	9	2.7	14	4.3	NOT ALLOWED				1373	622.8
60	18.3	1	0.3	15	4.6	10	3.1	14	4.3	NOT ALLOWED				1316	596.9
61	18.6	1	0.3	15	4.6	11	3.4	15	4.6	NOT ALLOWED				1393	631.9
62	18.9	2	0.6	15	4.6	12	3.7	15	4.6	NOT ALLOWED				1442	654.1
63	19.2	3	0.9	15	4.6	13	4	15	4.6	NOT ALLOWED				1385	628.2
64	19.5	4	1.2	15	4.6	14	4.3	15	4.6	NOT ALLOWED				1462	663.2
65	19.8	5	1.5	15	4.6	15	4.6	15	4.6	NOT ALLOWED				1405	637.3
66	20.1	6	1.8	15	4.6	NOT ALLOWED				NOT ALLOWED				1454	659.5
67	20.4	7	2.1	15	4.6	NOT ALLOWED				NOT ALLOWED				1531	694.5
68	20.7	8	2.4	15	4.6	NOT ALLOWED				NOT ALLOWED				1474	668.6
69	21	9	2.7	15	4.6	NOT ALLOWED				NOT ALLOWED				1523	690.8
70	21.3	10	3.1	15	4.6	NOT ALLOWED				NOT ALLOWED				1466	665
71	21.6	11	3.4	15	4.6	NOT ALLOWED				NOT ALLOWED				1543	699.9
72	21.9	12	3.7	15	4.6	NOT ALLOWED				NOT ALLOWED				1592	722.1
73	22.3	13	4	15	4.6	NOT ALLOWED				NOT ALLOWED				1535	696.3
74	22.6	14	4.3	15	4.6	NOT ALLOWED				NOT ALLOWED				1612	731.2
75	22.9	15	4.6	15	4.6	NOT ALLOWED				NOT ALLOWED				1555	705.3
76	23.2	NOT ALLOWED				NOT ALLOWED				NOT ALLOWED				1604	727.6
77	23.5	NOT ALLOWED				NOT ALLOWED				NOT ALLOWED				1681	762.5
78	23.8	NOT ALLOWED				NOT ALLOWED				NOT ALLOWED				1624	736.6
79	24.1	NOT ALLOWED				NOT ALLOWED				NOT ALLOWED				1673	758.9
80	24.4	NOT ALLOWED				NOT ALLOWED				NOT ALLOWED				1616	733

• Rated loads do not apply to platforms with double cantilevers

■ Requires 1,500 lb. (680.4 kg) hoist

■ Contact Spider Product Support for Load Distribution Guidance

# Allowable Double Cantilever Load and Length Configurations

For use with all Spider stirrups and cross beam assembly.

PLATFORM LENGTH		500 lb (226.8) kg / 2 PERSONNEL				750 lb (340.2) kg / 3 PERSONNEL				1000 lb (453.6) kg / 4 PERSONNEL				PLATFORM WEIGHT	
ft	m	MIN		MAX		MIN		MAX		MIN		MAX		lb	kg
		ft	m	ft	m	ft	m	ft	m	ft	m	ft	m		
20	6.1	0	0	4	1.2	0	0	4	1.2	0	0	3	0.9	788	357.4
21	6.4	0	0	5	1.5	0	0	4	1.2	0	0	3	0.9	865	392.4
22	6.7	0	0	5	1.5	0	0	4	1.2	0	0	4	1.2	914	414.6
23	7	0	0	5	1.5	0	0	4	1.2	0	0	4	1.2	857	388.7
24	7.3	0	0	6	1.8	0	0	4	1.2	0	0	4	1.2	934	423.7
25	7.6	0	0	6	1.8	0	0	5	1.5	0	0	4	1.2	877	397.8
26	7.9	0	0	6	1.8	0	0	5	1.5	0	0	4	1.2	926	420
27	8.2	0	0	7	2.1	0	0	5	1.5	0	0	5	1.5	1003	455
28	8.5	0	0	7	2.1	0	0	5	1.5	0	0	5	1.5	946	429.1
29	8.8	0	0	7	2.1	0	0	6	1.8	0	0	5	1.5	995	451.3
30	9.1	0	0	7	2.1	0	0	6	1.8	0	0	5	1.5	938	425.5
31	9.5	0	0	8	2.4	0	0	6	1.8	0	0	5	1.5	1015	460.4
32	9.8	0	0	8	2.4	0	0	6	1.8	0	0	5	1.5	1064	482.6
33	10.1	0	0	8	2.4	0	0	6	1.8	0	0	5	1.5	1007	456.8
34	10.4	0	0	9	2.7	0	0	7	2.1	0	0	5	1.5	1084	491.7
35	10.7	0	0	9	2.7	0	0	7	2.1	0	0	5	1.5	1027	465.8
36	11	0	0	9	2.7	0	0	7	2.1	0	0	5	1.5	1076	488.4
37	11.3	0	0	10	3.1	0	0	8	2.4	0	0	5	1.5	1153	523
38	11.6	0	0	10	3.1	0	0	8	2.4	0	0	5	1.5	1096	497.1
39	11.9	0	0	10	3.1	0	0	8	2.4	0	0	5	1.5	1145	519.4
40	12.2	0	0	10	3.1	0	0	8	2.4	0	0	5	1.5	1088	493.5
41	12.5	0	0	11	3.4	0	0	9	2.7	1	0.3	5	1.5	1165	528.4
42	12.8	0	0	11	3.4	0	0	9	2.7	1	0.3	5	1.5	1214	550.7
43	13.1	0	0	11	3.4	0	0	9	2.7	2	0.6	5	1.5	1157	524.8
44	13.4	0	0	12	3.7	0	0	10	3.1	2	0.6	5	1.5	1234	559.7
45	13.7	0	0	12	3.7	0	0	10	3.1	3	0.9	5	1.5	1177	533.9
46	14	0	0	12	3.7	0	0	10	3.1	3	0.9	5	1.5	1226	556.1
47	14.3	0	0	13	4	0	0	11	3.4	4	1.2	5	1.5	1303	591
48	14.6	0	0	13	4	0	0	11	3.4	4	1.2	5	1.5	1246	565.2
49	14.9	0	0	13	4	0	0	11	3.4	5	1.5	5	1.5	1295	587.4
50	15.2	0	0	13	4	0	0	11	3.4	5	1.5	5	1.5	1238	561.6
51	15.5	0	0	14	4.3	1	0.3	11	3.4	NOT ALLOWED				1315	596.5
52	15.9	0	0	15	4.6	1	0.3	12	3.7	NOT ALLOWED				1364	618.7
53	16.2	0	0	15	4.6	2	0.6	12	3.7	NOT ALLOWED				1307	592.9
54	16.5	0	0	15	4.6	2	0.6	12	3.7	NOT ALLOWED				1384	627.8
55	16.8	0	0	15	4.6	3	0.9	12	3.7	NOT ALLOWED				1327	601.9
56	17.1	0	0	15	4.6	3	0.9	13	4	NOT ALLOWED				1376	624.1
57	17.4	0	0	15	4.6	4	1.2	14	4.3	NOT ALLOWED				1453	659.1
58	17.7	0	0	15	4.6	4	1.2	14	4.3	NOT ALLOWED				1396	633.2
59	18	0	0	15	4.6	5	1.5	14	4.3	NOT ALLOWED				1445	655.4
60	18.3	0	0	15	4.6	5	1.5	14	4.3	NOT ALLOWED				1388	629.6
61	18.6	1	0.3	15	4.6	6	1.8	15	4.6	NOT ALLOWED				1465	664.5
62	18.9	1	0.3	15	4.6	6	1.8	15	4.6	NOT ALLOWED				1514	686.7
63	19.2	2	0.6	15	4.6	7	2.1	15	4.6	NOT ALLOWED				1457	660.9
64	19.5	2	0.6	15	4.6	7	2.1	15	4.6	NOT ALLOWED				1534	695.8
65	19.8	3	0.9	15	4.6	8	2.4	15	4.6	NOT ALLOWED				1477	670
66	20.1	3	0.9	15	4.6	8	2.4	15	4.6	NOT ALLOWED				1526	692.2
67	20.4	4	1.2	15	4.6	9	2.7	15	4.6	NOT ALLOWED				1603	727.1
68	20.7	4	1.2	15	4.6	9	2.7	15	4.6	NOT ALLOWED				1546	701.3
69	21	5	1.5	15	4.6	10	3.1	15	4.6	NOT ALLOWED				1595	723.5
70	21.3	5	1.5	15	4.6	10	3.1	15	4.6	NOT ALLOWED				1538	697.6
71	21.6	6	1.8	15	4.6	11	3.4	15	4.6	NOT ALLOWED				1615	732.6
72	21.9	6	1.8	15	4.6	11	3.4	15	4.6	NOT ALLOWED				1664	754.8
73	22.3	7	2.1	15	4.6	12	3.7	15	4.6	NOT ALLOWED				1607	728.9
74	22.6	7	2.1	15	4.6	12	3.7	15	4.6	NOT ALLOWED				1684	763.9
75	22.9	8	2.4	15	4.6	13	4	15	4.6	NOT ALLOWED				1627	738
76	23.2	8	2.4	15	4.6	13	4	15	4.6	NOT ALLOWED				1676	760.2
77	23.5	9	2.7	15	4.6	14	4.3	15	4.6	NOT ALLOWED				1753	795.2
78	23.8	9	2.7	15	4.6	14	4.3	15	4.6	NOT ALLOWED				1696	769.3
79	24.1	10	3.1	15	4.6	15	4.6	15	4.6	NOT ALLOWED				1745	791.5
80	24.4	10	3.1	15	4.6	15	4.6	15	4.6	NOT ALLOWED				1688	765.7

• Rated loads do not apply to platforms with single cantilevers

■ Requires 1,500 lb. (680.4 kg) hoist

■ Contact Spider Product Support for Load Distribution Guidance