

# Truss Loading Tables



## Step-Truss PS30 Specifications

StepTruss/vertical																						
Span in	m	ft	3.00	9.84	4.00	13.12	5.00	16.40	6.00	19.68	7.00	22.96	8.00	26.24	9.00	29.52	10.00	32.80	11.00	36.08	12.00	39.36
Point load in	kg	lbs	188.8	416.2	76.4	168.4	35.2	77.6	18.4	40.6	•	•	•	•	•	•	•	•	•	•	•	•
Deflection in	mm	inch	2.88	0.11	2.22	0.09	1.82	0.07	1.82	0.07	•	•	•	•	•	•	•	•	•	•	•	•
Distributed load in	kg	lbs	144.9	319.5	44.8	98.8	17.3	38.1	7.2	15.9	•	•	•	•	•	•	•	•	•	•	•	•
Deflection in	mm	inch	3.60	0.14	3.00	0.12	2.63	0.10	2.59	0.10	•	•	•	•	•	•	•	•	•	•	•	•

Step figures are based on use in vertical position  
 • not recommended

## Step-Truss FS30

	2m	3m	4m	5m	6m
	320kg	160 kg	140 kg	120kg	100kg
<b>Line load</b>	15mm	20mm	48mm	68mm	98mm
	230 kg	160 kg	100 kg	80 kg	60 kg
<b>Point load</b>	18mm	30mm	52mm	78mm	94mm

## Specifications

StepTruss/vertical																						
Span in	m	ft	3.00	9.84	4.00	13.12	5.00	16.40	6.00	19.68	7.00	22.96	8.00	26.24	9.00	29.52	10.00	32.80	11.00	36.08	12.00	39.36
Point load in	kg	lbs	188.8	416.2	76.4	168.4	35.2	77.6	18.4	40.6	•	•	•	•	•	•	•	•	•	•	•	•
Deflection in	mm	inch	2.88	0.11	2.22	0.09	1.82	0.07	1.82	0.07	•	•	•	•	•	•	•	•	•	•	•	•
Distributed load in	kg	lbs	144.9	319.5	44.8	98.8	17.3	38.1	7.2	15.9	•	•	•	•	•	•	•	•	•	•	•	•
Deflection in	mm	inch	3.60	0.14	3.00	0.12	2.63	0.10	2.59	0.10	•	•	•	•	•	•	•	•	•	•	•	•

Step figures are based on use in vertical position  
 • not recommended



**Triangle-Truss DT22**  
**Specifications**

Triangle DT22																						
Span in	m	ft	3.00	9.84	4.00	13.12	5.00	16.40	6.00	19.68	7.00	22.96	8.00	26.24	9.00	29.52	10.00	32.80	11.00	36.08	12.00	39.36
Point load in	kg	lbs	103.6	228.4	91.7	202.2	82.2	181.2	74.3	163.8	66.8	147.3	60.5	133.4	55.1	121.5	50.5	111.3	45.4	100.0	35.8	78.9
Deflection in	mm	inch	4.32	0.17	7.89	0.31	12.95	0.51	19.52	0.77	27.08	1.07	35.84	1.41	48.04	1.89	58.91	2.32	66.24	2.61	71.44	2.81
Distributed load in	kg	lbs	73.2	161.4	53.5	117.9	42.0	92.6	34.6	76.3	29.0	63.9	24.9	54.9	19.5	43.0	15.7	34.6	12.8	28.2	10.6	23.4
Deflection in	mm	inch	5.22	0.21	10.95	0.43	20.08	0.79	33.44	1.32	51.20	2.02	74.25	2.92	92.86	3.66	113.19	4.46	139.11	2.48	165.72	6.52
Triangle figures are based on use in position apex down																						

**Triangle-Truss PT30**  
**Specifications**

Triangle PT30																						
Span in	m	ft	3.00	9.84	4.00	13.12	5.00	16.40	6.00	19.68	7.00	22.96	8.00	26.24	9.00	29.52	10.00	32.80	11.00	36.08	12.00	39.36
Point load in	kg	lbs	294.9	650.1	264.8	583.8	239.3	527.6	214.6	473.1	194.2	428.1	177.1	390.4	162.5	358.3	149.8	330.3	138.8	303.1	129.0	284.4
Deflection in	mm	inch	4.50	0.18	7.65	0.30	12.15	0.48	18.48	0.73	26.43	1.04	36.03	1.42	47.31	1.86	60.33	2.38	75.09	2.96	91.64	3.61
Distributed load in	kg	lbs	212.6	468.7	153.7	338.9	120.1	264.8	84.4	186.1	62.3	137.4	47.7	105.2	37.5	82.7	30.4	67.0	25.0	55.1	15.4	34.2
Deflection in	mm	inch	5.28	0.21	10.24	0.40	18.11	0.71	26.41	1.04	36.25	1.43	47.61	1.88	60.50	2.38	74.91	2.95	90.84	3.57	101.2	3.98
Step figures are based on use in vertical position • not recommended																						

**Triangle-Truss FT30**  
**Specifications**

Triangle FT30																						
Span in	m	ft	3.00	9.84	4.00	13.12	5.00	16.40	6.00	19.68	7.00	22.96	8.00	26.24	9.00	29.52	10.00	32.80	11.00	36.08	12.00	39.36
Point load in	kg	lbs	294.9	650.1	264.8	583.8	239.3	527.6	214.6	473.1	194.2	428.1	177.1	390.4	162.5	358.3	149.8	330.3	138.8	303.1	129.0	284.4
Deflection in	mm	inch	4.50	0.18	7.65	0.30	12.15	0.48	18.48	0.73	26.43	1.04	36.03	1.42	47.31	1.86	60.33	2.38	75.09	2.96	91.64	3.61
Distributed load in	kg	lbs	212.6	468.7	153.7	338.9	120.1	264.8	84.4	186.1	62.3	137.4	47.7	105.2	37.5	82.7	30.4	67.0	25.0	55.1	15.4	34.2
Deflection in	mm	inch	5.28	0.21	10.24	0.40	18.11	0.71	26.41	1.04	36.25	1.34	47.61	1.88	60.50	2.38	74.91	2.95	90.84	3.57	101.2	3.98
Triangle figures are based on use in position apex down																						

**Triangle-Truss GT30**  
**Specifications**

Triangle GT30																						
Span in	m	ft	3.00	9.84	4.00	13.12	5.00	16.40	6.00	19.68	7.00	22.96	8.00	26.24	9.00	29.52	10.00	32.80	11.00	36.08	12.00	39.36
Point load in	kg	lbs	294.9	650.1	264.8	583.8	239.3	527.6	214.6	473.1	194.2	428.1	177.1	390.4	162.5	358.3	149.8	330.3	138.8	303.1	129.0	284.4
Deflection in	mm	inch	4.50	0.18	7.65	0.30	12.15	0.48	18.48	0.73	26.43	1.04	36.03	1.42	47.31	1.86	60.33	2.38	75.09	2.96	91.64	3.61
Distributed load in	kg	lbs	212.6	468.7	153.7	338.9	120.1	264.8	84.4	186.1	62.3	137.4	47.7	105.2	37.5	82.7	30.4	67.0	25.0	55.1	15.4	34.2
Deflection in	mm	inch	5.28	0.21	10.24	0.40	18.11	0.71	26.41	1.04	36.25	1.34	47.61	1.88	60.50	2.38	74.91	2.95	90.84	3.57	101.2	3.98
Triangle figures are based on use in position apex down																						



## Square-Truss DQ22

### Specifications

Square truss DQ22																						
Span in	m	ft	3.00	9.84	4.00	13.12	5.00	16.40	6.00	19.68	7.00	22.96	8.00	26.24	9.00	29.52	10.00	32.80	11.00	36.08	12.00	39.36
Point load in	kg	lbs	222.0	489.4	196.5	433.2	176.2	388.5	159.3	351.2	143.1	315.5	129.6	285.7	118.2	260.6	108.3	238.8	99.6	219.6	87.8	193.6
Deflection in	mm	inch	4.63	0.18	8.46	0.33	13.88	0.55	20.92	0.82	29.02	1.14	38.41	1.51	51.49	2.03	63.14	2.49	77.16	3.04	82.0	3.23
Distributed load in	kg	lbs••	156.9	345.9	114.6	252.7	90.1	198.6	74.1	163.4	62.1	136.9	53.3	117.5	41.9	92.4	33.6	74.1	27.5	60.6	22.8	50.3
Deflection in	mm	inch	5.59	0.22	11.74	0.46	21.52	0.85	35.84	1.41	54.88	2.16	79.58	3.13	99.53	3.92	121.32	4.78	149.10	5.87	177.62	6.99

•• per meter / 3.28 ft loading tests performed by Ing. Josef Henrych DrSc.

## Square-Truss PQ30

### Specifications

Square truss PQ30																						
Span in	m	ft	3.00	9.84	4.00	13.12	5.00	16.40	6.00	19.68	7.00	22.96	8.00	26.24	9.00	29.52	10.00	32.80	11.00	36.08	12.00	39.36
Point load in	kg	lbs	632.2	1394	567.6	1251	512.9	1131	460.0	1014	416.3	917.8	379.7	837.1	348.3	767.9	321.2	708.1	297.5	655.9	276.5	609.6
Deflection in	mm	inch	4.82	0.19	8.20	0.32	13.02	0.51	19.81	0.78	28.33	1.11	38.62	1.52	50.71	2.00	64.66	2.55	80.48	3.17	98.22	3.87
Distributed load in	kg	lbs••	455.8	1005	329.4	726.2	257.5	567.7	180.9	398.8	133.6	294.5	102.3	225.5	80.7	177.9	65.1	143.5	53.5	11.9	44.6	98.3
Deflection in	mm	inch	5.66	0.22	10.98	0.43	19.41	0.77	28.31	1.11	38.75	1.52	51.03	2.00	64.84	2.55	80.29	3.16	97.36	3.83	116.1	4.57

•• per meter / 3.28 ft loading tests performed by Ing. Josef Henrych DrSc.

## Square-Truss GQ30

### Specifications

Square truss FQ30/PQ30/GQ30																						
Span in	m	ft	3.00	9.84	4.00	13.12	5.00	16.40	6.00	19.68	7.00	22.96	8.00	26.24	9.00	29.52	10.00	32.80	11.00	36.08	12.00	39.36
Point load in	kg	lbs	632.2	1394	567.6	1251	512.9	1131	460.0	1014	416.3	917.8	379.7	837.1	348.3	767.9	321.2	708.1	297.5	655.9	276.5	609.6
Deflection in	mm	inch	4.82	0.19	8.20	0.32	13.02	0.51	19.81	0.78	28.33	1.11	38.62	1.52	50.71	2.00	64.66	2.55	80.48	3.17	98.22	3.87
Distributed load in	kg	lbs••	455.8	1005	329.4	726.2	257.5	567.7	180.9	398.8	133.6	294.5	102.3	225.5	80.7	177.9	65.1	143.5	53.5	11.9	44.6	98.3
Deflection in	mm	inch	5.66	0.22	10.98	0.43	19.41	0.77	28.31	1.11	38.75	1.52	51.03	2.00	64.84	2.55	80.29	3.16	97.36	3.83	116.1	4.57

•• per meter / 3.28 ft loading tests performed by Ing. Josef Henrych DrSc.



**Foldable-Truss FT50**  
**Specifications**

Truss FT50 system																														
Span in	m	ft	7.0	23.0	8.0	26.2	9.0	29.5	10.0	32.8	11.0	36.1	12.0	39.4	13.0	42.7	14.0	45.9	15.0	49.2	16.0	52.5	17.0	55.8	18.0	59.1	19.0	62.3	20.0	65.6
Point load in	kg	lbs	1950	4299	1530	3373	1480	3263	1350	2976	1215	2679	1180	2601	1082	2385	948	2090	883	1947	832	1834	785	1731	741	1634	692	1526	650	1433
Distributed load in	kg	lbs**	445	299	389	261	328	220	268	180	223	150	188	126	159	107	137	92.1	121	81.3	108	72.6	94.2	63.3	83.9	56.4	73.7	49.5	63.5	42.7
Deflection in	mm	inch	28.0	1.10	34.0	1.34	44.0	1.73	52.0	2.05	58.0	2.28	63.0	2.48	79.0	3.11	105	4.13	113	4.45	122	4.80	138	5.43	161	6.34	173	6.81	180	7.09

\*\* per meter / 3.28 ft

**Square-Truss FQ50**  
**Specifications**

Truss FQ50 system																														
Span in	m	ft	7.0	23.0	8.0	26.2	9.0	29.5	10.0	32.8	11.0	36.1	12.0	39.4	13.0	42.7	14.0	45.9	15.0	49.2	16.00	52.5	17.0	55.8	18.0	59.1	19.0	62.3	20.0	65.6
Point load in	kg	lbs	2200	4850	1911	4213	1735	3825	1590	3505	1343	2961	1290	2844	1201	2648	1112	2452	1020	2249	980	2161	912	2011	850	1874	820	1808	800	1764
Distributed load in	kg	lbs**	616	484	474	318	369	248	309	208	243	163	210	141	181	122	156	105	133	894	108	80.6	105	70.6	94.7	63.6	84.2	56.6	74.0	49.7
Deflection in	mm	inch	22.0	0.87	35.0	1.38	41.0	1.61	55.0	2.17	67.0	2.64	79.0	3.11	90.0	3.54	109	4.29	122	4.80	140	5.51	165	6.50	177	6.97	188	7.40	210	8.27

\*\* per meter / 3.28 ft

