



Static Calculation

[200mm square]

■ Admissible Uniformly distributed load

Length(m)	Joint lengths of Truss	Distributed load(kg)	Bowing(cm)
0.9		500	0.0
1.8		500	0.1
2.7		500	0.4
3.6		500	0.9
4.5	3.6+0.9	400	1.5
5.4	2.7+2.7	300	1.9
6.3	2.7+2.7+0.9	230	2.4
7.2	2.7+2.7+1.8	180	2.8
8.1	2.7+2.7+2.7	125	3.0
9.0	2.7+2.7+3.6	90	3.3

■ Admissible Point load

Length(m)	Joint lengths of Truss	Distributed load(kg)	Bowing(cm)
0.9		250	0.0
1.8		250	0.1
2.7		250	0.3
3.6		250	0.8
4.5	3.6+0.9	200	1.2
5.4	2.7+2.7	150	1.6
6.3	2.7+2.7+0.9	100	1.9
7.2	2.7+2.7+1.8	80	2.3
8.1	2.7+2.7+2.7	50	2.4

[300mm square]

■ Admissible Uniformly distributed load

Length(m)	Joint lengths of Truss	Distributed load(kg)	Bowing(cm)
0.9		1000	0.0
1.8		1000	0.1
2.7		1000	0.2
3.6		1000	0.4
4.5	3.6+0.9	800	0.7
5.4	2.7+2.7	600	0.9
6.3	2.7+2.7+0.9	600	1.3
7.2	2.7+2.7+1.8	400	1.6
8.1	2.7+2.7+2.7	300	1.8
9.0	2.7+2.7+3.6	250	2.1
10.8	3.6+3.6+3.6	150	2.6
11.7	3.6+3.6+3.6+0.9	100	2.7
12.6	3.6+3.6+3.6+1.8	80	3.0

■ Admissible Point load

Length(m)	Joint lengths of Truss	Distributed load(kg)	Bowing(cm)
0.9		700	0.0
1.8		700	0.1
2.7		500	0.2
3.6		500	0.4
4.5	3.6+0.9	400	0.6
5.4	2.7+2.7	300	0.8
6.3	2.7+2.7+0.9	250	1.1
7.2	2.7+2.7+1.8	200	1.4
8.1	2.7+2.7+2.7	150	1.6
9.0	2.7+2.7+3.6	125	2.2
10.8	3.6+3.6+3.6	75	2.9
11.7	3.6+3.6+3.6+0.9	50	3.1
12.6	3.6+3.6+3.6+1.8	0	2.7

[450mm square]

■ Admissible Uniformly distributed load

Length(m)	Joint lengths of Truss	Distributed load(kg)	Bowing(cm)
3.6	3.6	2000	0.3
4.5	3.6+0.9	1800	0.5
5.4	2.7+2.7	1600	0.8
6.3	2.7+2.7+0.9	1500	1.2
7.2	2.7+2.7+1.8	1400	1.7
8.1	2.7+2.7+2.7	1300	2.2
9.0	2.7+2.7+3.6	1200	2.8
10.8	3.6+3.6+3.6	800	3.5
11.7	3.6+3.6+3.6+0.9	650	3.4
12.6	3.6+3.6+3.6+1.8	550	4.2
13.5	3.6+3.6+3.6+2.7	450	4.4
14.4	3.6+3.6+3.6+3.6	350	4.5
15.3	3.6+3.6+3.6+3.6+0.9	300	5.0
16.2	3.6+3.6+3.6+3.6+1.8	230	5.1
17.1	3.6+3.6+3.6+3.6+2.7	170	5.2
18.0	3.6+3.6+3.6+3.6+3.6	130	5.7

■ Admissible Point load

Length(m)	Joint lengths of Truss	Distributed load(kg)	Bowing(cm)
3.6	3.6	1200	0.3
4.5	3.6+0.9	1150	0.5
5.4	2.7+2.7	1000	0.8
6.3	2.7+2.7+0.9	900	1.2
7.2	2.7+2.7+1.8	800	1.6
8.1	2.7+2.7+2.7	650	1.9
9.0	2.7+2.7+3.6	550	2.3
10.8	3.6+3.6+3.6	450	3.4
11.7	3.6+3.6+3.6+0.9	400	4.1
12.6	3.6+3.6+3.6+1.8	300	4.3
13.5	3.6+3.6+3.6+2.7	250	4.7
14.4	3.6+3.6+3.6+3.6	150	4.3
15.3	3.6+3.6+3.6+3.6+0.9	100	4.6
16.2	3.6+3.6+3.6+3.6+1.8	80	5.1
17.1	3.6+3.6+3.6+3.6+2.7	50	5.5
18.0	3.6+3.6+3.6+3.6+3.6	0	5.3

[200mm square (steel)]

■ Admissible Uniformly distributed load

Length(m)	Joint lengths of Truss	Distributed load(kg)	Bowing(cm)
0.9		1000	0.02
1.8		900	0.11
2.7		800	0.34
3.6	1.8+1.8	700	0.71
4.5	2.7+1.8	600	1.18
5.4	2.7+2.7	450	1.71
6.3	2.7+2.7+0.9	350	2.17
7.2	2.7+2.7+1.8	250	2.43
8.1	2.7+2.7+2.7	200	2.88
9.0	2.7+2.7+2.7+0.9	150	3.16
10.8	2.7+2.7+2.7+2.7	0	3.23

■ Admissible Point load

Length(m)	Joint lengths of Truss	Distributed load(kg)	Bowing(cm)
0.9		500	0.01
1.8		450	0.09
2.7		400	0.27
3.6	1.8+1.8	300	0.57
4.5	2.7+1.8	250	0.95
5.4	2.7+2.7	200	1.36
6.3	2.7+2.7+0.9	150	1.73
7.2	2.7+2.7+1.8	100	1.94
8.1	2.7+2.7+2.7	75	2.30
9.0	2.7+2.7+2.7+0.9	50	2.53
10.8	2.7+2.7+2.7+2.7	0	2.59