

	Truss	Total distance (mm)	Required distance (mm)	Angle (degrees)	Weight (g)
Before	a1	13	9.676	90	205.5
After	a1	13	9.605	90	205.5
Before	a2	12.9	6.252	0	205.5
After	a2	12.9	5.928	0	205.5
Before	b1	12.97	9.02	90	205.5
After	b1	12.97	9.019	90	205.5
Before	b2	12.97	9.264	90	205.5
After	b2	12.97	6.538	90	205.5
Before	b1_v2	12.97	8.392	70	205.5
After	b1_v2	12.97	7.642	70	205.5
Before	b2_v2	12.97	8.989	70	205.5
After	b2_v2	12.97	6.232	70	205.5
Before	c1	13.05	8.194	60	205.5
After	c1	13.05	7.179	60	205.5
Before	c2	13.08	6.812	60	205.5
After	c2	13.08	5.799	60	205.5

k (N/mm)	Extension (mm)	Force estimated by experiment (N)	Force estimated by experiment (N)
1.94	0.071	0.13774	0
1.94			
1.94	0.324	0.62856	2.01569
1.94			
1.94	0.001	0.00194	0
1.94			
1.94	2.726	5.28844	2.0159
1.94			
1.94	0.75	1.455	0.6892
1.94			
1.94	2.757	5.34858	1.8963
1.94			
1.94	1.015	1.9691	1.1633
1.94			
1.94	1.013	1.96522	1.1633
1.94			

Difference (N)

0.13774

-1.38713

0.00194

3.27254

0.7658

3.45228

0.8058

0.80192