

Kind of Product: Aluminium Truss System Type: F34  
 Connecting cross section: quadratic with a flange length of 240 mm relating to the centerline  
 Outer dimensions: quadratic with a flange length of 290 mm relating to the outer edge  
 Effective length: 0,5 m – 5,0 m  
 Connecting elements: conical connecting element (AlCuSiPb F37) with conical safety bolt (quality 5.6)  
 Main tubes:  $\varnothing 50 \times 2$  mm EN AW 6082 T6  
 Braces:  $\varnothing 20 \times 2$  mm EN AW 6082 T6  
 Stress Resultants:  $M_{\max} = 10,13$  kNm  
 $Q_{\max} = 11,40$  kN  
 $N_{\max} = 84,44$  kN

Load table:

length	Equally distributed load	Central point load	Single load in third points	Single load in fourth points	Single load in fifth points
[m]	[kg/m]	[kg]	[kg]	[kg]	[kg]
1	2276	913,9	870,2	758,6	569,0
2	1136	794,1	730,2	629,0	568,0
3	756,0	701,9	629,0	520,8	471,0
4	502,5	629,0	552,5	444,3	396,6
5	320,2	569,8	492,6	387,5	332,2
6	221,0	520,8	444,3	331,7	275,3
7	160,0	479,5	404,7	282,4	234,4
8	122,0	444,3	367,9	245,3	203,6
9	95,0	413,9	324,2	216,1	179,4
10	76,0	385,2	288,9	192,6	159,9
11	62,0	346,4	259,8	173,2	143,7
12	51,0	313,6	235,3	156,8	130,2
13	43,0	285,7	214,3	142,8	118,6
14	36,0	261,4	196,1	130,7	108,5
15	31,0	240,1	180,1	120,1	99,6
16	27,0	221,2	165,9	110,6	91,8
17	24,0	204,4	153,3	102,2	84,4
18	21,0	189,1	141,8	94,6	78,5

The load table has been approved for the load case mainload and simple supported beam. A permanent weight of 4,0 kg/m has been included.

