



Kind of Product: Aluminium Truss System Type: F52F

Connecting cross section: trapeze with the dimensions

$$b_{min} = 80 \text{ mm}$$

$$b_{max} = 520 \text{ mm}$$

$$h = 471 \text{ mm}$$

relating to the centerline

Outer dimensions: trapeze with the dimensions

$$b_{min} = 130 \text{ mm}$$

$$b_{max} = 570 \text{ mm}$$

$$h = 520 \text{ mm}$$

relating to the outer edge

Effective length: 0,6 m – 2,4 m

Connecting elements: conical connecting element (AlCuSiPb F37)

with conical safety bolt (quality 5.6)

Main tubes:  $\varnothing 50 \times 4 \text{ mm EN AW 6082 T6}$

Distance tubes:  $\varnothing 50 \times 4 \text{ mm EN AW 6082 T6}$

Braces:  $\varnothing 25 \times 3 \text{ mm EN AW 6082 T6}$

Stress Resultants:  $M_{max} = 42,08 \text{ kNm}$

$$Q_{max} = 18,25 \text{ kN}$$

$$N_{max} = 161,84 \text{ kN}$$

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]
10	294	772	691	571	516
12	201	721	637	517	463
14	145	677	591	472	420
16	109	637	552	435	361
18	84	602	517	378	313
20	66	571	486	330	274
22	53	543	436	291	241
24	43	514	385	257	213

The load table has been approved for the load case mainload and simple supported beam. A permanent weight of 10,0 kg/m has been included.