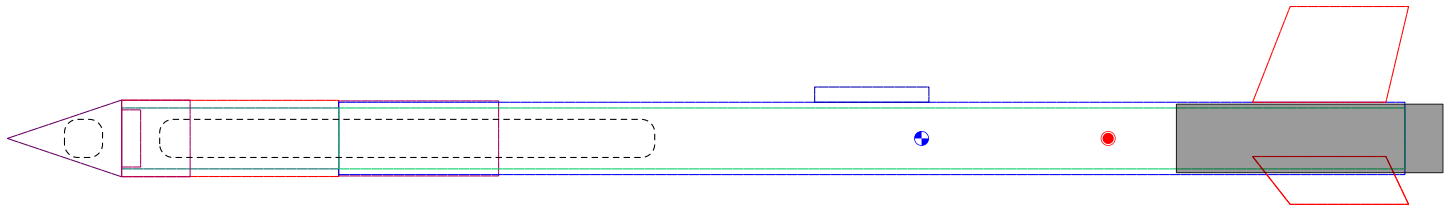


Rocket Design



Diamant

Stages: 1

Mass (with motor): 54,0 g

Stability: 2,43 cal

CG: 24,0 cm

CP: 28,9 cm

C6-5

| | | Motor | Avg Thrust | Burn Time | Max Thrust | Total Impulse | Thrust to Wt | Propellant Wt | Size |
|------------------------|----------|-------|------------|-----------|------------|---------------|--------------|---------------|--------------|
| Altitude | 366 m | C6 | 4,0 N | 1,86 s | 11,6 N | 7,48 Ns | 7,55:1 | 12,5 g | 18,0/70,0 mm |
| Flight Time | 18,8 s | | | | | | | | |
| Time to Apogee | 8,11 s | | | | | | | | |
| Velocity off Pad | 17,7 m/s | | | | | | | | |
| Max Velocity | 108 m/s | | | | | | | | |
| Velocity at Deployment | N/A | | | | | | | | |
| Landing Velocity | 52,1 m/s | | | | | | | | |

B4-4













| | | Motor | Avg Thrust | Burn Time | Max Thrust | Total Impulse | Thrust to Wt | Propellant Wt | Size |
|------------------------|----------|-------|------------|-----------|------------|---------------|--------------|---------------|--------------|
| Altitude | 257 m | B4 | 4,04 N | 1,3 s | 11,7 N | 5,28 Ns | 8,01:1 | 8,33 g | 18,0/70,0 mm |
| Flight Time | 15,5 s | | | | | | | | |
| Time to Apogee | 7,02 s | | | | | | | | |
| Velocity off Pad | 16,6 m/s | | | | | | | | |
| Max Velocity | 85,3 m/s | | | | | | | | |
| Velocity at Deployment | N/A | | | | | | | | |
| Landing Velocity | 49,8 m/s | | | | | | | | |

A8-3

| | | Motor | Avg Thrust | Burn Time | Max Thrust | Total Impulse | Thrust to Wt | Propellant Wt | Size |
|------------------------|----------|-------|------------|-----------|------------|---------------|--------------|---------------|--------------|
| Altitude | 112 m | A8 | 5,11 N | 0,518 s | 12,0 N | 2,68 Ns | 11,02:1 | 3,12 g | 18,0/70,0 mm |
| Flight Time | 16,1 s | | | | | | | | |
| Time to Apogee | 4,83 s | | | | | | | | |
| Velocity off Pad | 17,3 m/s | | | | | | | | |
| Max Velocity | 51,0 m/s | | | | | | | | |
| Velocity at Deployment | N/A | | | | | | | | |
| Landing Velocity | 15,4 m/s | | | | | | | | |

Parts Detail

Hauptstufe

| | | | | | |
|---|--|--|---|--------------|---------------|
|  | Spitze | Papier (Büro) (0,82 g/cm ³) | Konisch | Len: 3,0 cm | Mass: 1,0 g |
|  | Körperrohr der Spitze | Papier (Büro) (0,82 g/cm ³) | Dia _{in} 1,97 cm Dia _{out} 2,0 cm | Len: 5,7 cm | Mass: 0,437 g |
|  | Innenrohr | Papier (Büro) (0,82 g/cm ³) | Dia _{in} 1,57 cm Dia _{out} 1,6 cm | Len: 5,7 cm | Mass: 1,0 g |
|  | Balastkammer | Papier (Büro) (0,82 g/cm ³) | Dia _{in} 1,47 cm Dia _{out} 1,5 cm | Len: 0,5 cm | Mass: 0,029 g |
|  | Masse | | Dia _{out} 1,0 cm | | Mass: 8,0 g |
|  | Koppler | Papier (Büro) (0,82 g/cm ³) | Dia _{in} 1,97 cm Dia _{out} 1,97 cm | Len: 4,2 cm | Mass: 0 g |
|  | Koppler | Papier (Büro) (0,82 g/cm ³) | Dia _{in} 2,02 cm Dia _{out} 2,02 cm | Len: 1,8 cm | Mass: 0 g |
|  | Körperrohr | Papier (Büro) (0,82 g/cm ³) | Dia _{in} 1,87 cm Dia _{out} 1,9 cm | Len: 28,0 cm | Mass: 29,0 g |
|  | Innenrohr | Papier (Büro) (0,82 g/cm ³) | Dia _{in} 1,57 cm Dia _{out} 1,6 cm | Len: 28,0 cm | Mass: 1,0 g |
|  | Schockband mit Gummidämpfer und Ankern | Thread (heavy-duty) (0,3 g/m) | | Len: 40,0 cm | Mass: 2,0 g |
|  | Finnen (3) | Papier (Büro) (0,82 g/cm ³) | Thick: 0,015 cm | | Mass: 0,261 g |
|  | Leitrohrchen | Karton (0,68 g/cm ³) | Dia _{in} 0,2 cm Dia _{out} 0,4 cm | Len: 3,0 cm | Mass: 0,192 g |