

# SPACECAD • DATA SHEET

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## GENERAL ROCKET DATA

Rocket name: Estes Alpha III Printed on 10.04.2024  
Rocket file:  
Created by:  
Cd-value: 0,70

### WEIGHT

Launch weight: 51,20 g  
Empty weight: 34,85 g

### ENGINE CONFIGURATION

Stage 1  
Engines 1\*Estes A8

## SPACECAD FLIGHT PREDICTION RESULTS

Max. height: 72,47 m  
Max. velocity: 37,99 m/s  
Max. acceleration: 183,07 m/s<sup>2</sup>  
Min. launch rod length: 0,86 m

### BURNOUT ALTITUDES

Stage 1 at 16,48 m

### PARACHUTE

Parachute Estes 12 in. Plastic Chute (302264) (305,0 mm)

## SPACECAD STABILITY RESULTS

Center Of Pressure (CP) : 217,66 mm behind nose cone  
Center Of Gravity (CG) : 174,82 mm behind nose cone

Rocket is stable (1,73 calibers)

### PER-STAGE STABILITY

n/a

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