

# SPACECAD • DATA SHEET

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## GENERAL ROCKET DATA

Rocket name: SWT - Alswider Printed on 1-9-2004  
Rocket file: F:\SWT Rockets\Alswider\alswider\_b4.roc  
Created by: SWT Rocketry - Henk Siewert (<http://www.raket.info>)  
Cd-value: 0,75

### WEIGHT

Launch weight: 46,30 g  
Empty weight: 26,80 g

### ENGINE CONFIGURATION

Stage 1  
Engines: 1 \* Estes B4 (24,50 g)  
Stage 2 n/a  
Stage 3 n/a

## SPACECAD FLIGHT PREDICTION RESULTS

Max. height: 178,92 m  
Max. velocity: 76,20 m/s  
Max. acceleration: 267,00 m/s<sup>2</sup>  
Best delay: 4,57 s  
Min. launch rod length: 461,26 mm

### BURNOUT ALTITUDES

Stage 1 at 48,25 m

### PARACHUTE

For a descent flight of 3,00 m/s the best parachute diameter is 300,00 mm.  
For a cutout parachute use a diameter of 375,00 mm.

## SPACECAD STABILITY RESULTS

Center Of Pressure (CP) : 491,86 mm behind nose cone  
Center Of Gravity (CG) : 435,15 mm behind nose cone

Rocket is stable (2,29 calibers)

### PER-STAGE STABILITY

n/a

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