

# SPACECAD • DATA SHEET

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## GENERAL ROCKET DATA

Rocket name: Zwaluw Printed on 12-7-2004  
Rocket file: C:\Documents and Settings\Henk\Mijn documenten\Rakettenbouw\SWT Rockets\Zwaluw\Zwaluw\_B4.roc  
Created by: Henk Siewert / SWT Rocketry ()  
Cd-value: 0,75

### WEIGHT

Launch weight: 66,61 g  
Empty weight: 47,11 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: 132,99 m  
Max. velocity: 53,91 m/s  
Max. acceleration: 181,98 m/s<sup>2</sup>  
Best delay: 4,24 s  
Min. launch rod length: 600,20 mm

### BURNOUT ALTITUDES

Stage 1 at 33,21 m

### PARACHUTE

For a descent flight of 3,00 m/s the best parachute diameter is 360,00 mm.  
For a cutout parachute use a diameter of 450,00 mm.

## SPACECAD STABILITY RESULTS

Center Of Pressure (CP) : 264,87 mm behind nose cone  
Center Of Gravity (CG) : 229,30 mm behind nose cone

Rocket is stable (1,43 calibers)

### PER-STAGE STABILITY

n/a

