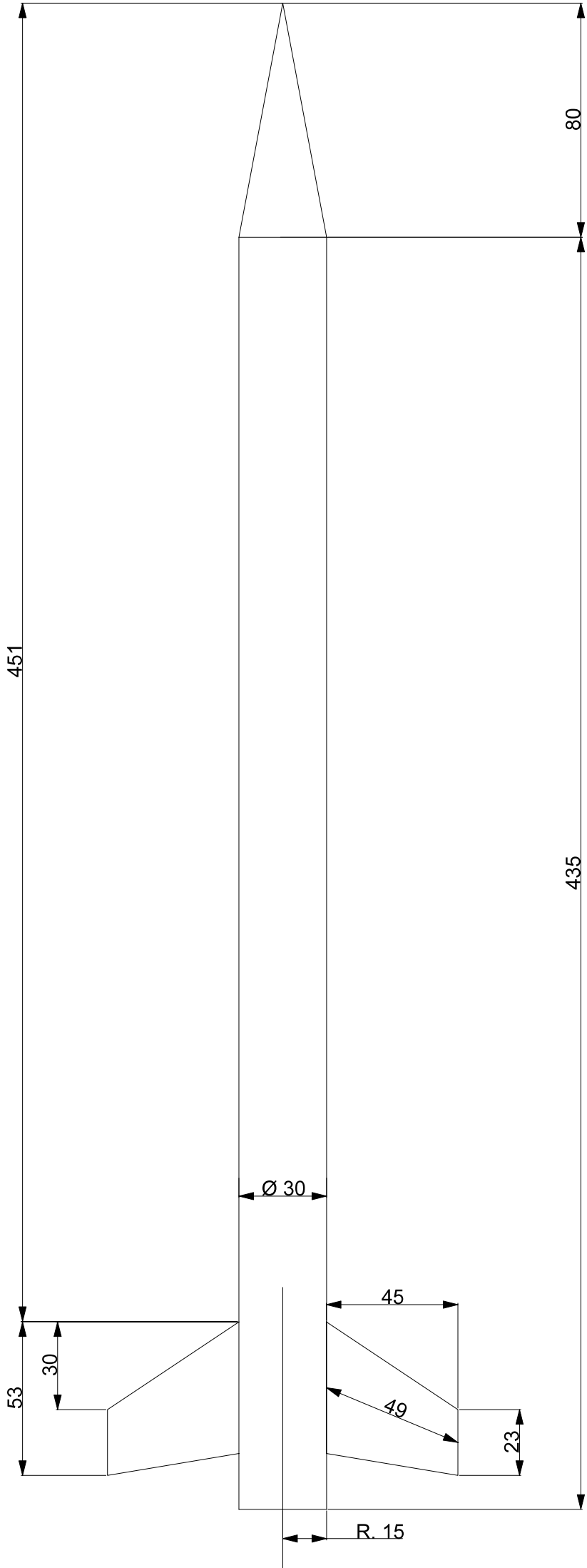


**OCTAGON SKYRUNNER  
PAPER MODEL ROCKET  
BY SERGIO MOALLI**



# OCTAGON SKYRUNNER



**OCTAGON  
SKYRUNNER  
FRONT VIEW**



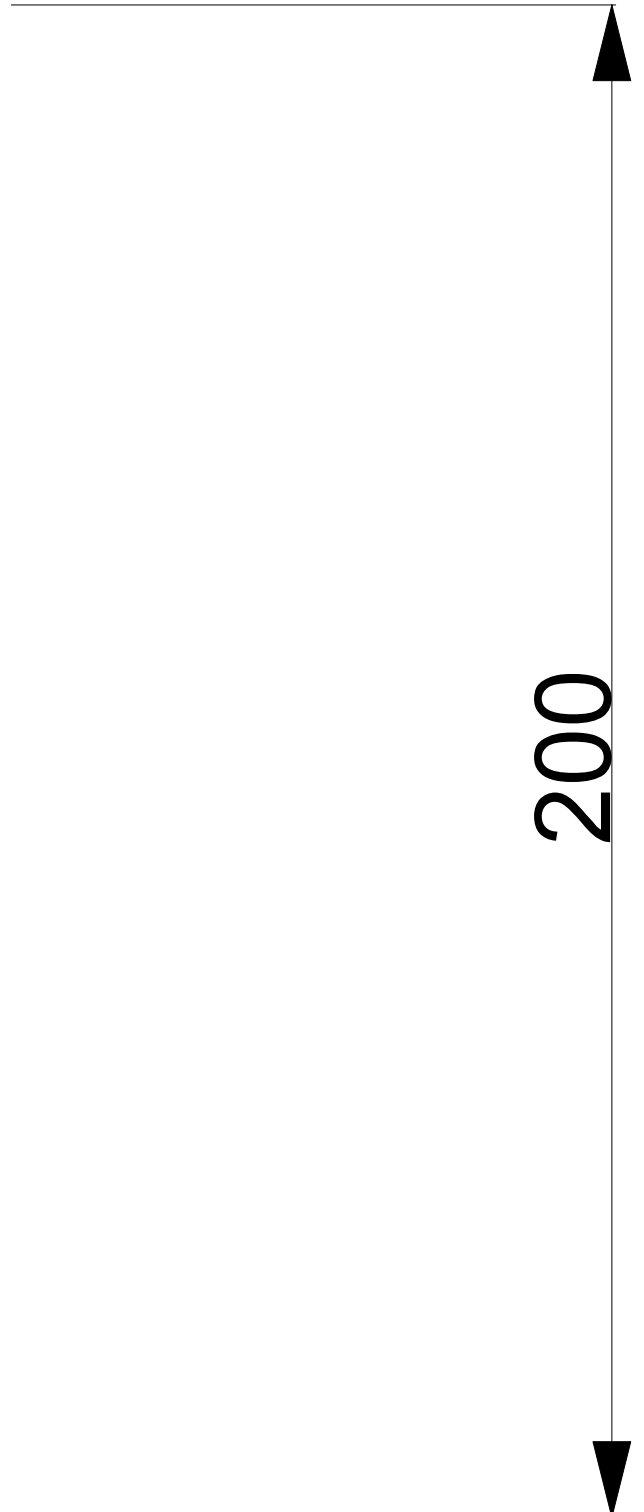
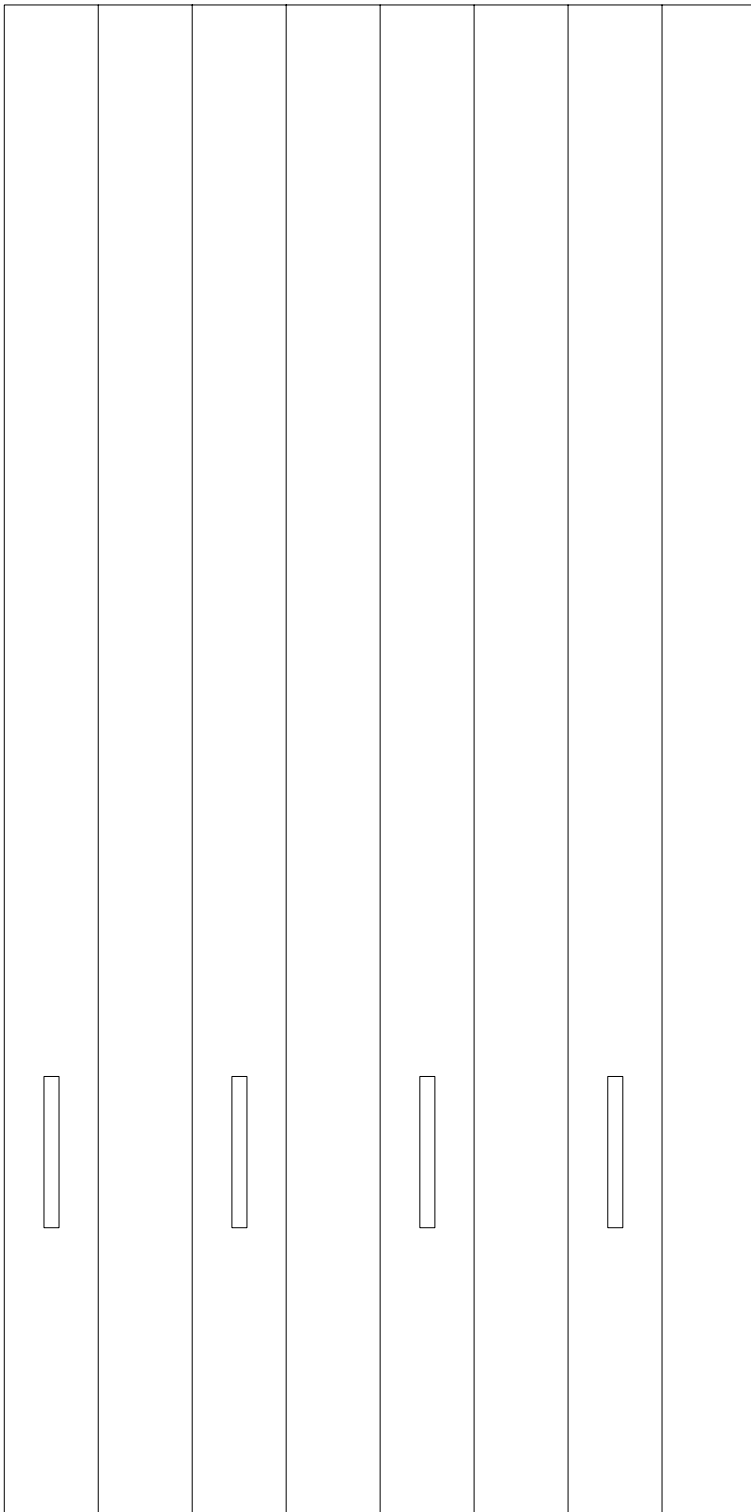
**OCTAGON  
SKYRUNNER  
TOP VIEW**



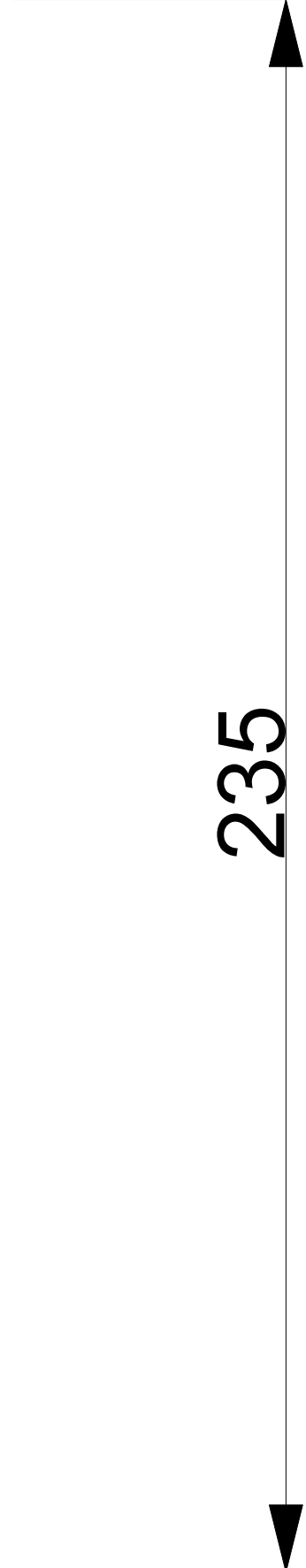
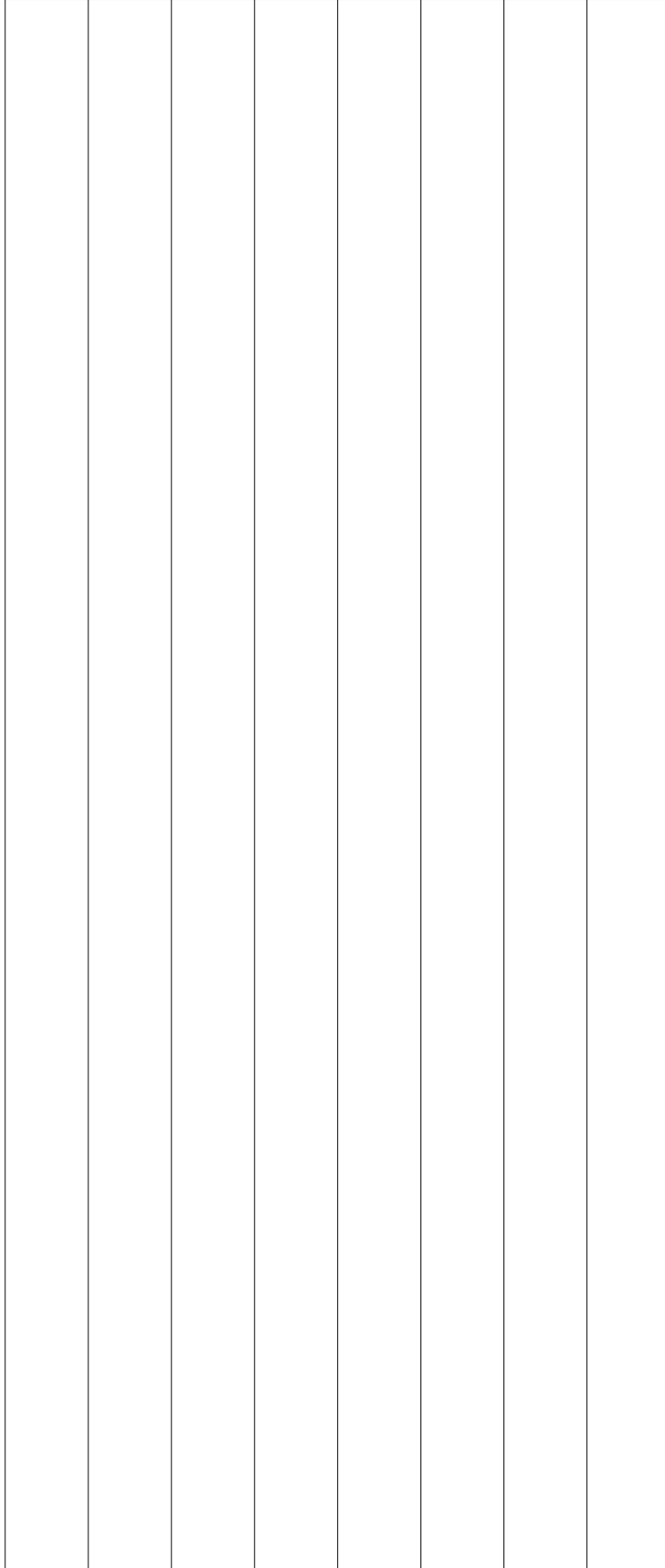


**OCTAGON  
SKYRUNNER  
PERSPECTIVE  
VIEW**

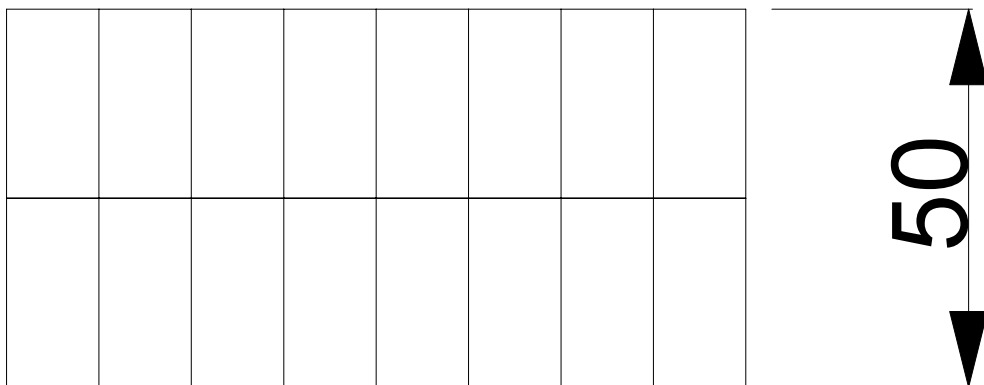
# OCTAGON SKYRUNNER BODY TUBE N° 1



# OCTAGON SKYRUNNER BODY TUBE N° 2



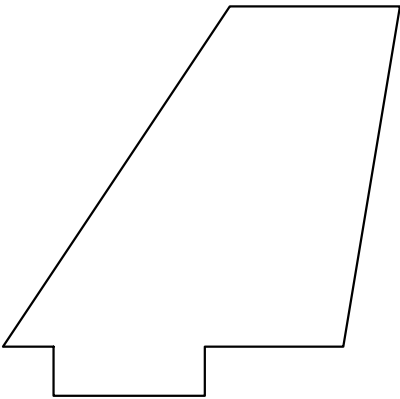
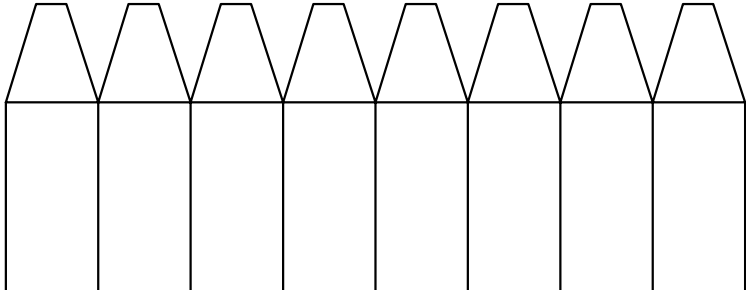
OCTAGON SKYRUNNER  
CONNECTOR BODY TUBE N° 1  
TO BODY TUBE N° 2



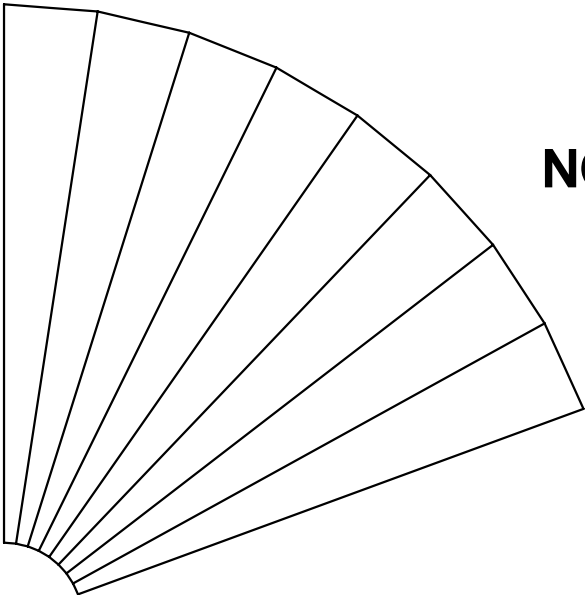


# OCTAGON SKYRUNNER

**NOSE CONE CONNECTOR**

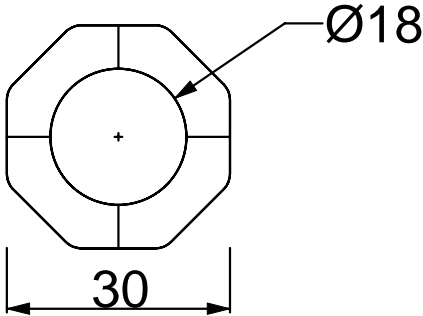


**FINS ( N° 4 )**



**NOSE CONE**

**CENTERING RINGS FOR ENGINE MOUNT**



# SPACECAD • DATA SHEET

www.spacecad.com

## GENERAL ROCKET DATA

Rocket name: OCTAGON SKYRUNNER Printed on 27/07/2007  
Rocket file: E:\OCTAGON SKYRUNNER.roc  
Created by: SERGIO MOALLI ()  
Cd-value: 0,75

### WEIGHT

Launch weight: 47,88 g  
Empty weight: 23,68 g

### ENGINE CONFIGURATION

Stage 1  
Engines: 1 \* Estes C6 (30,20 g)  
Stage 2 n/a  
Stage 3 n/a

## SPACECAD FLIGHT PREDICTION RESULTS

Max. height: 268,82 m  
Max. velocity: 105,59 m/s  
Max. acceleration: 286,64 m/s<sup>2</sup>  
Best delay: 4,30 s  
Min. launch rod length: 560,20 mm

### BURNOUT ALTITUDES

Stage 1 at 134,01 m

### PARACHUTE

For a descent flight of 3,00 m/s the best parachute diameter is 290,00 mm.  
For a cutout parachute use a diameter of 362,50 mm.

## SPACECAD STABILITY RESULTS

Center Of Pressure (CP) : 418,88 mm behind nose cone  
Center Of Gravity (CG) : 350,00 mm behind nose cone

Rocket is stable (2,30 calibers)

### PER-STAGE STABILITY

n/a

