

Material for:

Structure: Carbon Fiber Tube [1]

Suspension wire for the wing: Carbon Fiber [2]

Wing: Kevlar [3]

Characteristics:

2 Electric Ducted Fan [4]

- 150 Hp
- 30 000 Rpm

2 Air Compressor [5]

- 600 – 2 100 CFM
- 3 600 rpm
- 6psi

Battery [6]

- 1,000 watt-hours per kilogram
- Power consumption for 2 Electric Ducted Fan: 300 W
- Power consumption for 2 Air Compressor: 150 W

Solar Panel [7]

- 15,4 V 1.8A 28W

References:

[1] <http://www.clipcarbono.com/>

[2] <http://zoltek.com/carbonfiber/how-is-it-made/>

[3] <http://www.dupont.com/products-and-services/fabrics-fibers-nonwovens/fibers/articles/kevlar-properties.html>

[4] <http://www.jethangar.com/Ducted%20Fans/df.html#10s>

[5] <http://www.ventilacion.us/productos-turbocentrifugos-soplador-lc.html>

[6] <http://www.graphenano.com/es/aplicaciones/baterias>

[7] <http://www.celdassolaresflexibles.com/PowerFilm-Solar-Rollable-Solar-Panels.php>