

## "The Pelican"

Andrew Birch, Andre Galarza, Viviana Perez, Errin Quiazon, Efrain Ramos, Brian Torgerson

Requirement	Optimum Goal	<b>Required Goal</b>	"The Pelican"	<b>OBJECTIVE MET?</b>
off Distance	5000ft	8000ft	3221ft	YES
ing Distance	5000ft	8000ft	2003ft	YES
dant Capacity	8000gal	4000gal	8000gal	YES
num Drop Speed	125Kts	150Kts	154kts	YES
mum Cruise w/payload	400nmi	200nmi	655.17nmi	YES
mum Cruise no payload	3000nmi	2000nmi	2140nmi	Required Only
volume	N/A	2000gal	2000 gal	YES
ad Volume	N/A	500 gal/min	500gal/min	YES
Dash Speed	400kts	300kts	618 kts	YES



## **Design Specifics**

5	ļ

WTO	242278 lbs	Max
WE	125424 lbs	
WF	43573 lbs	Mi
S	2202.53 ft^2	W
AR	8.9	V
b	140 ft	
С	15.75 ft	
CLmax	2.4	Maxi



## Modular

- Fire
  - Fighting
  - System



Capacity: 8,000 gallons Reload Pump Speed: 300 GPM Retardant Drop Rate:



Takeoff Gross Weight Empty Weight lission Fuel Weight 'ing Planform Area Ving Aspect Ratio Wingspan Wing Chord imum Lift Coefficient

**SAN DIEGO STATE**