



Weight and Balance

RANS S-21 OUTBOUND

N340JH

Take Off Weight and Balance			
Load	Weight	Arm	Mom/1000
Plane (R and L Mains)	1018.2	22	22.4004
Pilot&Passenger	0	37	0
Baggage FWD (max 113)	0	60.5	0
Baggage AFT (max 67)	0	84.5	0
Fuel Wings	237.6	41.7	9.90792
Fuel Header Tank	41.4	60	2.484
Tail Wheel	61	210	12.81
Takeoff total Weight	1358.2		47.60232
Available Weight	441.8		
Take Off CG	35.04809306		

Minimum Fuel Landing Weight and Balance			
Load	Weight	Arm	Mom/1000
Plane (R and L Mains)	1018.2	22	22.4004
Pilot&Passenger	0	37	0
Baggage FWD (max 113)	0	60.5	0
Baggage AFT (max 67)	0	84.5	0
Fuel Wings (0 Gals left)	0	41.7	0
Fuel Header Tank (1 gal left)	6	60	0.36
Tail Wheel	61	210	12.81
Landing Total Weight	1085.2		35.5704
Landing CG	32.77773682		

Plane Weight Reference

Right Main	Left Main	Tail	Empty CG
509.5	508.7	61	33.48

Empty Weight	Max Weight	Forward CG Limit	Aft CG Limit
1079.2	1800	31.72	41.92

Adjust Cells in Yellow for specific loads
Grey cells are CG and Weight formula results

Pilot Weight	Pass Weight	Takeoff Limits Test
0	0	CG Within Range
Plane Variables	Weight	TRUE
FWD Bag (max 113)		
AFT Bag (max 67)		Weight Within Range
		TRUE
	Gallons	
Takeoff Wing Fuel	39.6	
Header Tank Fuel	6.9	Max Fuel 46.5

Take Off Weight Available 441.8

Landing Limits Test

CG Within Range
TRUE

Weight Within Range
TRUE

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