

N9091L Weighing Form

May 02 2014

Item	Arm	Weight	Moment
Right Main	-0.5	532	-266
Left Main	-0.5	525	-262.5
Tail	194	62	12028
	totals	1119	11499.5

Basic empty weight* = 1119

CG=total moment/total weight

CG= 10.28

*Per FAA definition, **Basic Empty Weight** includes undrainable fuel, **full oil**, and all fixed equipment installed

Sample aircraft adverse load (aft)

Item	Arm	Weight	Moment
aircraft	10.28	1119	11499.50
pilot	11.5	170	1955
pass	42	170	7140
fuel	24.5	156	3822
baggage	69	67	4623
totals		1682	29039.5

total weight 1682
total moment 29039.5
CG 17.26

Within limits for Normal Category operations

Sample aircraft adverse load (forward)

Item	Arm	Weight	Moment
aircraft	10.77	1119	11499.5
pilot	11.5	170	1955
pass	42	0	0
fuel*	24.5	57.5	1408.75
baggage	69	0	0
totals		1346.5	14863.25

total weight 1346.5
total moment 14863.25
CG 11.04

Within limits for Normal and Acrobatic Category operations

*min fuel for adverse loading = engine horsepower/2

Signature 

A&P 3399877