



WEIGHT AND BALANCE REPORT (IMPERIAL)

See TL 3.16 for guidance

FORM LAA/WB
(IMPERIAL)
JANUARY 2020

Aircraft Type:	RV-9	Serial No:	PFA 320-12345	Reg:	G-ABCD
Datum:	Wing Leading Edge		Levelling Reference:	Canopy Rail	
Forward cg Limit (Inches)	7.95	Fwd- Aft of Datum (Delete as required)	Aft cg Limit (Inches)	14.84	Fwd- Aft of Datum (Delete as required)
MTOW lbs	1750		Max Empty Weight	N/A	lbs (Microlights Only)
Cockpit Placards regarding load limitations:	None Fitted				

EMPTY WEIGHT CALCULATIONS

ITEM	SCALE READING (lbs)	CORRECTIONS (lbs)	NET WEIGHT (lbs)	ARM (inches)	MOMENT (lbs.inches)
LEFT WHEEL	541.2	0	541.2	-1.75	-947.1
RIGHT WHEEL	531	0	531	-1.75	-929.25
NOSE/TAIL WHEEL	58	0	58	173.25	10048.5
LESS USEABLE FUEL	0	0	0	0	0
EMPTY WEIGHT			1130.2	TOTAL MOMENT	8172.15

EMPTY CofG = $\frac{\text{TOTAL MOMENT}}{\text{EMPTY WEIGHT}}$ = $\frac{8172.15}{1130.2}$ = 7.23 inches Fwd- Aft of Datum
(Delete as required)

BALLAST AND OPTIONAL EQUIPMENT INSTALLED AT TIME OF WEIGHING

(For example Fixed ballast, Ballistic Parachute, Fire Extinguisher, First Aid Kit, Sandwiches etc.)

ITEM	TYPE	WEIGHT	ARM	MOMENT
				0
				0
				0
				0
				0
				0

Date Of Weighing:	16/09/2020	Scales Calibration Date:	10/09/2020	Next Weighing Due:	16/09/2030
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Declaration by person carrying out weighing: *I declare that the above data is correct for the aircraft as presented.*

Name:	John Luck - Wingweigh - LAA 028282	Signature:		Date:	16/09/2020
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Inspectors Declaration: *I declare that I am satisfied that the weighing has been performed satisfactorily and the above data is correct to the best of my knowledge.*

Name of Inspector or other person acceptable to the LAA:	James Bentley	Signature:		Date:	
LAA Inspector Number: Or CAA/EASA Approval No.					

IT IS RECOMMENDED THAT ALL AIRCRAFT ARE RE-WEIGHED AT INTERVALS NOT EXCEEDING 10 YEARS. AIRCRAFT MUST BE RE-WEIGHED AND A NEW WEIGHT AND BALANCE SHEET SHOULD BE CREATED AFTER SIGNIFICANT MODIFICATION OR AFTER RECOVERING OR PAINTING AND AT INTERVALS, TO MONITOR WEIGHT GROWTH.



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VARIABLE LOAD ITEMS

ITEM	QTY	WEIGHT (lbs)	ARM (inches)	MOMENT (lbs.inches)
PILOT	1	121	22.7	2746.7
PASSENGER	1	189	22.7	4290.3
PASSENGER (Rear)	N/A			0
MAXIMUM FUEL - MAIN TANK	30 Imp Galls	216	6.75	1458
MAXIMUM FUEL - AUX. TANK(S)	0 Imp Galls	0	0	0
MAXIMUM ALLOWED BAGGAGE	1	100	52	5200
OTHER				0

WEIGHT AND BALANCE CHANGES IN SERVICE (Complete this page 2 and append to weighing report.)	WEIGHT (lbs)	CG/ARM (inches)	MOMENT (lb.inches)
DATA FROM LAST WEIGHING =	1130.2	7.23	8172.15
CHANGE DUE TO:	+ - wt change 0	X item CG position 0	= 0
CHANGE DUE TO:	+ - wt change 0	X 0	= 0
CHANGE DUE TO:	+ - wt change 0	X 0	= 0
REVISED EMPTY WEIGHT =		REVISED TOTAL MOMENT =	

REVISED EMPTY CofG = $\frac{\text{TOTAL MOMENT}}{\text{EMPTY WEIGHT}}$ = _____ inches Fwd Aft of Datum
(Delete as required)

LOADING EXAMPLES

NOTE: For loading examples to show compliance with CS-VLA or BCAR Section S a pilot weight of between 121lbs and 189lbs, and a passenger weight of 0 to 189lbs must be able to be accommodated between zero fuel and at least 1 hours fuel. See Guidance on TL 3.16

MOST FORWARD CofG LOADING			
ITEM	WEIGHT (lbs)	ARM (inches)	MOMENT (lb.inches)
A/C EMPTY WEIGHT	1130.2	7.23	8172.15
PILOT	121	22.7	2746.7
PASSENGER	0		0
BAGGAGE	0		0
OTHER	0		0
ZERO FUEL TOTALS	1251.2	 	10918.85
ZERO FUEL CG =	$\frac{\text{MOMENT}}{\text{WEIGHT}}$	= 8.73 inches	
FUEL (TO GROSS WEIGHT MAX)	216	6.75	1458
TOTALS	1467.2	 	12376.85
LOADED CofG =	$\frac{\text{MOMENT}}{\text{WEIGHT}}$	= 8.44	

MOST REARWARD CofG LOADING		
WEIGHT (lbs)	ARM (inches)	MOMENT (lb.inches)
1130.2	7.23	8172.15
189	22.7	4290.3
135	22.7	3064.5
100	52	5200
0	0	0
1554.2	 	20726.95
$\frac{\text{MOMENT}}{\text{WEIGHT}}$	= 13.34 inches	
199	6.75	1458
1753.2	 	22184.95
$\frac{\text{MOMENT}}{\text{WEIGHT}}$	= 12.65	