



WEIGHT AND BALANCE REPORT (IMPERIAL)

FORM LAA/WB
(IMPERIAL)
JANUARY 2020

See TL 3.16 for guidance

Aircraft type:		Serial no.:		Reg:	G-
Datum:		Levelling reference:			
Forward cg limit (inches):	Fwd/Aft of datum (delete as required)	Aft cg limit (inches):		Fwd/Aft of datum (delete as required)	
MTOW (lbs):		Max empty weight (lbs): (if applicable)			
Cockpit placards regarding loading limitations:					

EMPTY WEIGHT CALCULATIONS

ITEM	SCALE READING (lbs)	CORRECTION (lbs)	NET WEIGHT (lbs)	ARM (inches)	MOMENT (lb.inches)
RIGHT WHEEL					
LEFT WHEEL					
NOSE/TAILWHEEL					
LESS USABLE FUEL			—		
			EMPTY WEIGHT	TOTAL MOMENT	

EMPTY CofG = $\frac{\text{TOTAL MOMENT}}{\text{EMPTY WEIGHT}}$ = _____ = _____ 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, etc.)

ITEM	TYPE	WEIGHT	ARM	MOMENT

Date of weighing:		Scales calibration date:		Next weighing due:	
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Declaration by person carrying out weighing: I declare that the above data is correct.			
Name:			
Signature:		Date:	

Inspector's declaration: I declare that I have witnessed the above weighing and confirm that the information is correct to the best of my knowledge.			
Name of inspector or other person acceptable to the LAA:			
LAA Inspector or CAA/EASA approval number:			
Signature:		Date:	

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 RE-COVERING OR PAINTING AND AT INTERVALS TO MONITOR WEIGHT GROWTH.
Note: please use form LAA/WB/MICROLIGHT for microlight aircraft



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VARIABLE LOAD ITEMS

ITEM	QTY	WEIGHT (lbs)	ARM (inches)	MOMENT (lb.inches)
PILOT	1	-----		-----
PASSENGER		-----		-----
PASSENGER		-----		-----
MAXIMUM FUEL – MAIN TANK	IMP GALL	(7.2 x IMP GALL)		
MAXIMUM FUEL – Aux. TANK(S)	IMP GALL	(7.2 X IMP GALL)		
MAXIMUM ALLOWED BAGGAGE				
MAXIMUM ALLOWED BAGGAGE				
OTHER				

WEIGHT AND BALANCE CHANGES IN SERVICE (complete this page 2 and append to existing weight report)	WEIGHT (lbs)	CG/ARM (inches)	MOMENT (lb.inches)
DATA FROM LAST WEIGHING =			
CHANGE DUE TO:	(± wt change)	(item CG position) X	=
CHANGE DUE TO:	(± wt change)	(item CG position) X	=
CHANGE DUE TO:	(± wt change)	(item CG position) X	=
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 hour's fuel. See guidance in TL 3.16

ITEM	MOST FORWARD CofG LOADING		
	WEIGHT (lbs)	ARM (inches)	MOMENT (lb.inches)
A/C EMPTY WEIGHT			
PILOT			
PASSENGER			
BAGGAGE			
OTHER			
ZERO FUEL TOTALS		 	
ZERO FUEL CG =	$\frac{\text{MOMENT}}{\text{WEIGHT}}$		
FUEL (TO GROSS WEIGHT MAX)			
TOTALS		 	
LOADED CofG =	$\frac{\text{MOMENT}}{\text{WEIGHT}}$		

	MOST REARWARD CofG LOADING		
	WEIGHT (lbs)	ARM (inches)	MOMENT (lb.inches)
		 	
	$\frac{\text{MOMENT}}{\text{WEIGHT}}$		
		 	
	$\frac{\text{MOMENT}}{\text{WEIGHT}}$		