



WEIGHT AND BALANCE REPORT

FORM LAA/WB (METRIC)
Date: APRIL 2009

Aircraft Type _____ Serial No. _____ Reg _____

Datum _____ Levelling Reference _____

CofG: Fwd Limit _____ mm. Aft Limit _____ mm. *Fwd/Aft of datum
(Delete as required)

MTOW _____ kgs Max Empty Weight _____ kgs (Microlights only)

Cockpit placards regarding loading limitations _____

EMPTY WEIGHT CALCULATIONS

ITEM	SCALE READING (kgs)	CORRECTION (kgs)	NET WEIGHT (kgs)	ARM (mm)	MOMENT (kg.mm)
LEFT WHEEL					
RIGHT WHEEL					
NOSE/TAILWHEEL					
LESS USABLE FUEL			-		
			EMPTY WEIGHT	TOTAL MOMENT	

EMPTY CofG = $\frac{\text{TOTAL MOMENT}}{\text{EMPTY WEIGHT}}$ = _____ = _____ mm *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

Aircraft Weighed By: _____

Scales Calibration Date: _____

Supervising LAA Inspector: _____
Or Licensed Engineer

Signature: _____

LAA Inspectors Number: _____
Or CAA Approval No.

Date of Weighing: _____

Next Weighing due: _____

IT IS MANDATORY THAT MICROLIGHTS ARE RE-WEIGHED AT INTERVALS NOT EXCEEDING 5 YEARS.
IT IS RECOMMENDED THAT GROUP "A" 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.



VARIABLE LOAD ITEMS

ITEM	QTY	WEIGHT (kgs)	ARM (mm)	MOMENT (kg.mm)
PILOT	1	-----		-----
PASSENGER		-----		-----
PASSENGER		-----		-----
MAXIMUM FUEL – MAIN TANK	LITRES			
MAXIMUM FUEL – Aux. TANK(S)	LITRES			
MAXIMUM ALLOWED BAGGAGE				
MAXIMUM ALLOWED BAGGAGE				
OTHER				

WEIGHT AND BALANCE CHANGES IN SERVICE	WEIGHT (kgs)	CG/ARM (mm)	MOMENT (kg.mm)
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 = $\frac{\text{TOTAL MOMENT}}{\text{EMPTY WEIGHT}}$ = _____ = _____ mm *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 55kgs and 86kgs, and a passenger weight of 0 to 86kgs must be able to be accommodated with a minimum of 1 hour's fuel. See Guidance on Weight and Balance and example sheets.

MOST FORWARD CofG LOADING			
ITEM	WEIGHT (kgs)	ARM (mm)	MOMENT (kg.mm)
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 (kgs)	ARM (mm)	MOMENT (kg.mm)
	 	
$\frac{\text{MOMENT}}{\text{WEIGHT}}$		
	 	
$\frac{\text{MOMENT}}{\text{WEIGHT}}$		

SIGNATURE

DATE