



# WEIGHT AND BALANCE REPORT

FORM LAA/WB (IMPERIAL)  
Date: APRIL 2009

Aircraft Type \_\_\_\_\_ Serial No. \_\_\_\_\_ Reg \_\_\_\_\_

Datum \_\_\_\_\_ Levelling Reference \_\_\_\_\_

CofG: Fwd Limit \_\_\_\_\_ inches.                      Aft Limit \_\_\_\_\_ inches.                      \*Fwd/Aft of datum  
(Delete as required)

MTOW \_\_\_\_\_ lbs                      Max Empty Weight \_\_\_\_\_ lbs (Microlights only)

Cockpit placards regarding loading limitations \_\_\_\_\_

**EMPTY WEIGHT CALCULATIONS**

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

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

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

WEIGHT AND BALANCE CHANGES IN SERVICE	WEIGHT (lbs)	CG/ARM (inches)	MOMENT (lb.inches)
<b>DATA FROM LAST WEIGHING =</b>			
CHANGE DUE TO:	(± wt change)	(item CG position) <b>X</b>	=
CHANGE DUE TO:	(± wt change)	(item CG position) <b>X</b>	=
CHANGE DUE TO:	(± wt change)	(item CG position) <b>X</b>	=
<b>REVISED EMPTY WEIGHT =</b>		<b>REVISED TOTAL MOMENT =</b>	

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 with a minimum of 1 hour's fuel. See Guidance on Weight and Balance and example sheets.

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

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

SIGNATURE

DATE