WEIGHING RECORD - SINGLE SEATERS AND SIDE-BY-SIDE TWO SEATERS

Glider Type: BGA Cof No: Serial No:

LEADING PARTICULARS EXTRACT

Datum Point : Levelling Means :

Fwd CofG Limit (Xfl): mm aft. Max All Up Weight (Dry) (Wd): Kg
Aft CofG Limit (Xal): mm aft. Max All Up Weight (Wet) (Ww): Kg
Pilot(s) CofG (Xpl): mm fwd. Max Weight Non-Lift Parts (Wn): Kg
Baggage CofG (Xb): mm aft. Max Baggage Weight (Wb): Kg

EMPTY WEIGHT AND CofG POSITION

Weight on Front Support (Wf) = kgWeight on Rear Support (Wr) = kgWeight of Port Wing (Wp) = kgWeight of Starboard Wing (Ws) = kg

Empty Glider Weight (We) = Wf + Wr = kgWeight Non-Lifting Parts (Wnl) = We - Wp - Ws = kg

Displacement of Front Support (Xfs) = mm fwd (-ve if aft of datum)

Displacement of Rear Support (Xrs) = mm aft

Empty Glider CofG Displacement $(Xe) = (Wf \times Xfs) - (Wr \times Xrs)$ We

= mm aft

MINIMUM AND MAXIMUM COCKPIT LOADS

Minimum Cockpit Load

CofG Based
$$\frac{\text{We}(\text{Xe - Xa1})}{(\text{Xp1 + Xa1})} + \frac{\text{Wb}(\text{Xb - Xa1})}{(\text{Xp1 + Xa1})}$$

= kg (lb).

Maximum Cockpit Load

a. CofG Based:
$$\frac{We(Xe-Xf1)}{(Xp1+Xf1)} + \frac{Wb(Xb-Xf1)}{(Xp1+Xf1)}$$

=

= kg

=

= kg

=

= kg

d. Flight Manual Limitation:

= kg

The Max (Dry) Cockpit Weight is the LEAST value of a. to d:

$$=$$
 kg (lb)

Maximum Total Loading - Wet

Total weight of pilot(s) plus water must not exceed:

$$Ww - We - Wb = kg$$

NOTES:

Date: Name: Signature: BGA Insp Auth: