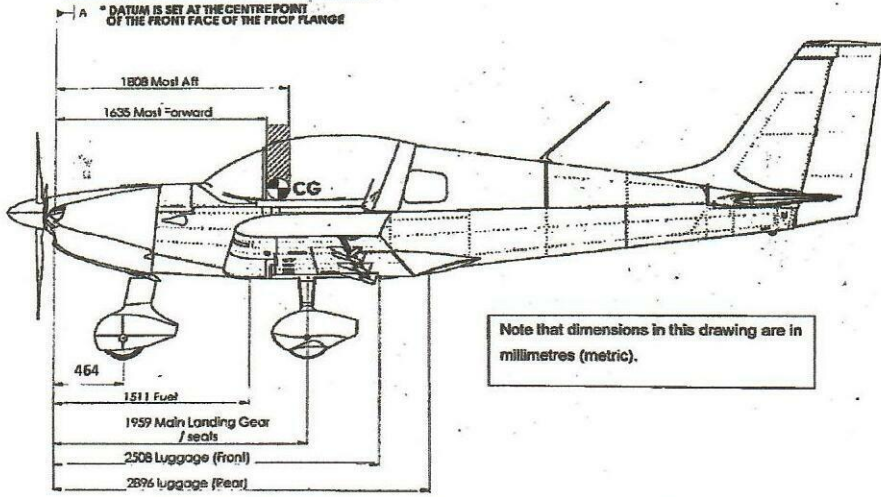


SLING AIRCRAFT (PTY) LTD MASS AND BALANCE REPORT (SLING 2)

AIRCRAFT TYPE : Sling 2
 SERIAL NO. : 363
 REGISTRATION : N101AV



The method of calculation of the aircraft empty mass, total aircraft moment, centre of gravity and percentage mean aerodynamic chord appear from formulae set out in the table and the formulae below.
 (Comply with the provisions of the aircraft maintenance manual when performing aircraft empty mass and balance)

Item	Weight [kg]	Arm [mm]	Moment [kg.mm]
Nose Wheel	$W_N = 68.5$ kg	$L_N = 464$ mm	$M_N = W_N \times L_N = 31784$ kg.mm
Left Main Wheel	$W_L = 162.0$ kg	$L_L = 1959$ mm	$M_L = W_L \times L_L = 317358$ kg.mm
Right Main Wheel	$W_R = 158.5$ kg	$L_R = 1959$ mm	$M_R = W_R \times L_R = 310502$ kg.mm
Computed CG Empty	$W_E = 389.0$ kg		Total aircraft moment: $M_T = 659644$ kg.mm

$$\text{Aircraft CG} = \frac{\text{Total aircraft moment}}{\text{Aircraft empty weight}} = \frac{M_T}{W_E} = \frac{659644}{389.0} = 1696 \text{ mm}$$

$$\text{CG as percentage of MAC} = \frac{(CG - 1366)}{1339} \times 100 = \frac{1696 - 1366}{1339} \times 100 = 24.6 \%$$

I hereby certify that the information as recorded above is correct in every respect to the best of my knowledge

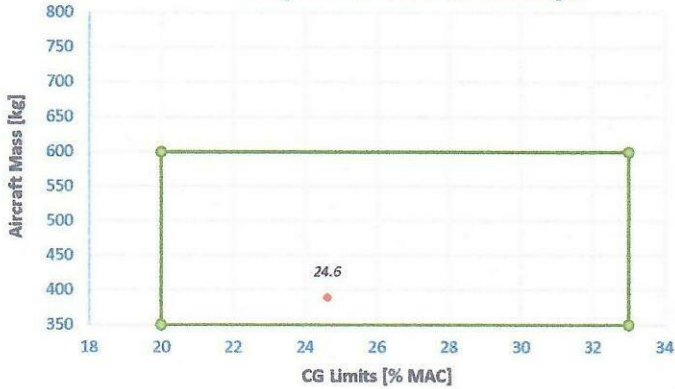
Name: Edwin Gamez

Signature: 

Stamp: A&P No. 4425024

Date: 08/30/2023

Sling 2 Allowable CG Envelope



NOTES:

