

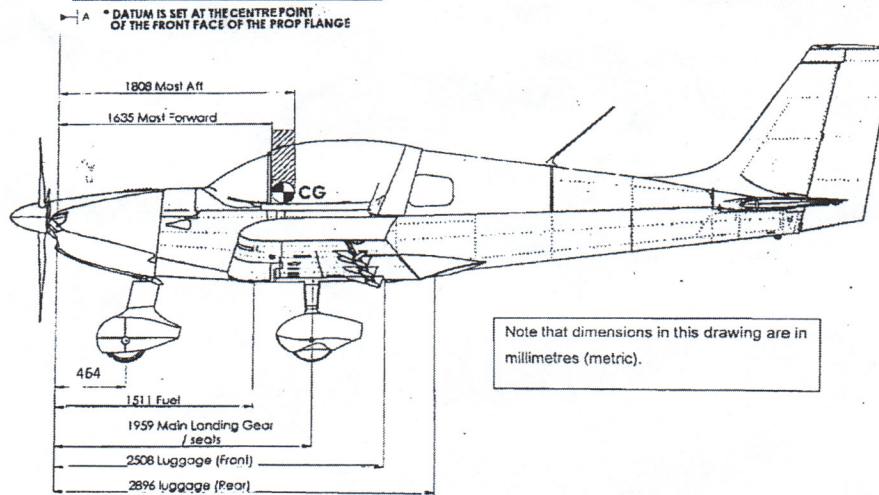
**SLING AIRCRAFT (PTY) LTD**  
**MASS AND BALANCE REPORT (SLING 2)**

N870JA

Empty: 879.64 lbs

Empt Mom: 58825.14 lbs in.

AIRCRAFT TYPE : Sling 2  
 SERIAL NO. : 424A  
 REGISTRATION : N870JA



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]
Aircraft Empty CG	Nose Wheel	$W_N = 69.5$ kg	$L_N = 464$ mm	$M_N = W_N \times L_N = 32248$ kg.mm
	Left Main Wheel	$W_L = 161.0$ kg	$L_L = 1959$ mm	$M_L = W_L \times L_L = 315399$ kg.mm
	Right Main Wheel	$W_R = 168.5$ kg	$L_R = 1959$ mm	$M_R = W_R \times L_R = 330092$ kg.mm
	Computed CG Empty	$W_E = 399.0$ kg		Total aircraft moment: $M_T = 677739$ kg.mm

$$\text{Aircraft CG} = \frac{\text{Total aircraft moment}}{\text{Aircraft empty weight}} = \frac{M_T}{W_E} = \frac{677739}{399.0} = 1699 \text{ mm}$$

$$\text{CG as percentage of MAC} = \frac{(CG - 1366)}{1339} \times 100 = \frac{1699 - 1366}{1339} \times 100 = 24.8 \%$$

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

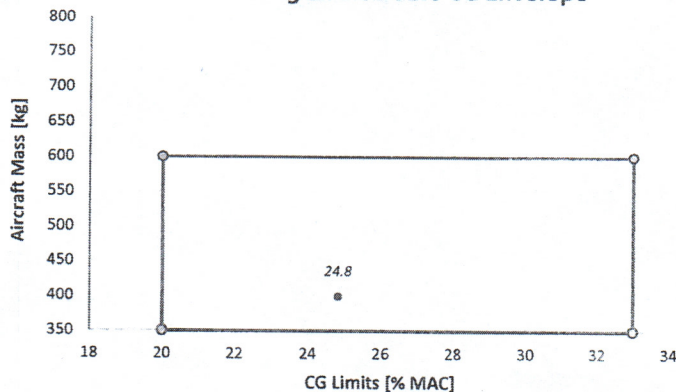
Name: Walter Ademir Velasquez

Signature: 

A&P: 3333945

DATE: 4/18/2025

**Sling 2 Allowable CG Envelope**



NOTES: