

N 425SK

Empty: 932.56 lbs.

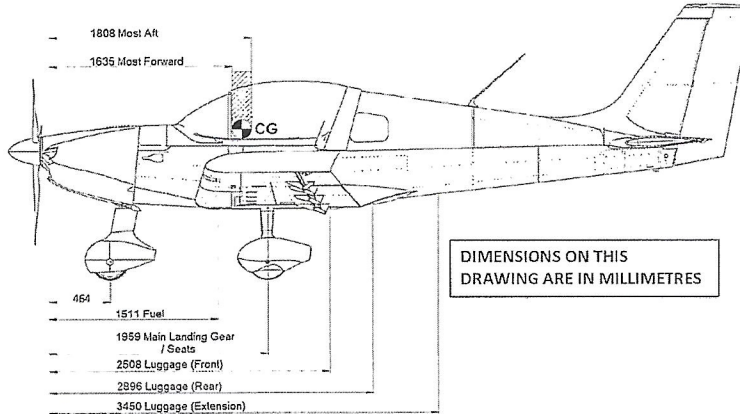
CG : 66.69 inch

Empty Moment : 62192.43

# SLING AIRCRAFT (PTY) LTD MASS AND BALANCE REPORT

AIRCRAFT TYPE : Sling LSA  
SERIAL NO. : 425a  
REGISTRATION : N425SK

► **! A !** \* DATUM IS SET AT THE CENTREPOINT  
OF THE FRONT FACE OF THE PROP FLANGE



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	$W_N = 75.0$ kg	$L_N = 464$ mm	$M_N = W_N \times L_N = 34800$ kg.mm
	Left Main Wheel	$W_L = 177.0$ kg	$L_L = 1959$ mm	$M_L = W_L \times L_L = 346743$ kg.mm
	Right Main Wheel	$W_R = 171.0$ kg	$L_R = 1959$ mm	$M_R = W_R \times L_R = 334989$ kg.mm
	Computed CG Empty	Empty weight $W_E = 423.0$ kg		Total aircraft moment: $M_T = 716532$ kg.mm

$$\text{Aircraft CG} = \frac{\text{Total aircraft moment}}{\text{Aircraft empty weight}} = \frac{M_T}{W_E} = \frac{716532}{423.0} = 1694 \text{ mm}$$

$$\text{CG as percentage of MAC} = \frac{(\text{CG} - 1366)}{1339} \times 100 = \frac{1694 - 1366}{1339} \times 100 = 24.5 \%$$

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

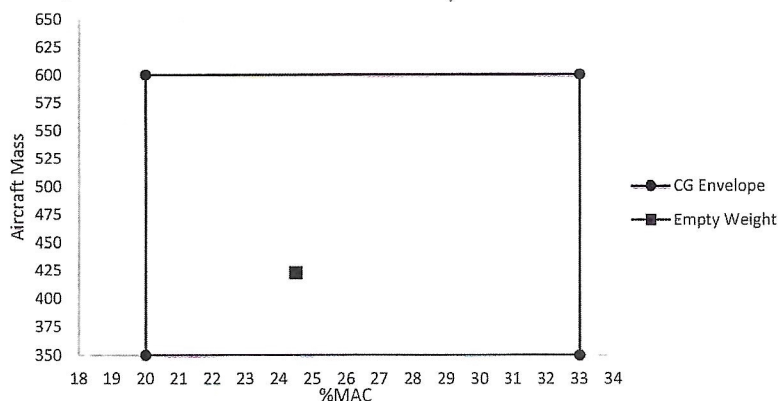
Name: Stephan Theron

Signature:

Stamp:

Date: 12 11 2024

## CG Envelope



## NOTES:

MAC Sling