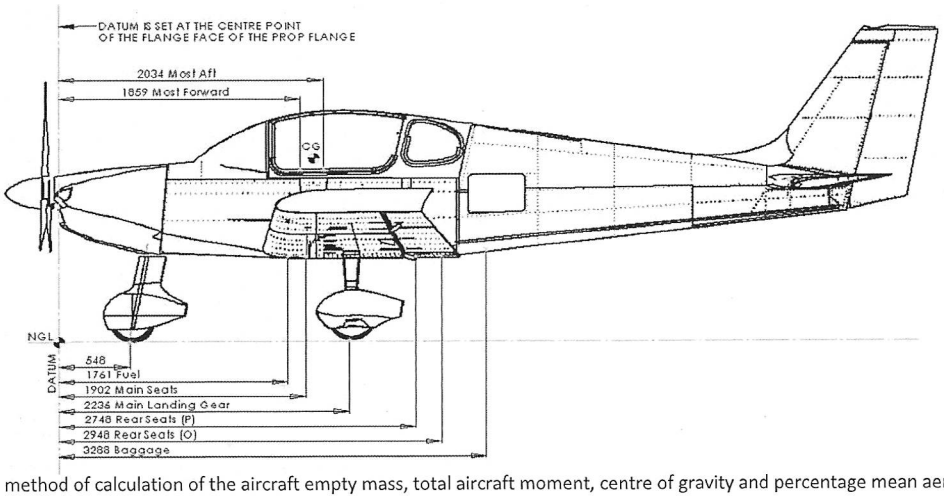
SLING AIRCRAFT (PTY) LTD
MASS AND BALANCE REPORT

AIRCRAFT TYPE : Sling 4
SERIAL NO. : 023
REGISTRATION : ZU-OMG



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 = 98.0 kg	L_N = 548 mm	$M_N = W_N \times L_N$ = 53704 kg.mm
	Left Main Wheel	W_L = 192.0 kg	L_L = 2236 mm	$M_L = W_L \times L_L$ = 429312 kg.mm
	Right Main Wheel	W_R = 194.0 kg	L_R = 2236 mm	$M_R = W_R \times L_R$ = 433784 kg.mm
	Computed CG Empty	Empty weight W_E = 484.0 kg		Total aircraft moment: M_T = 916800 kg.mm

$$\text{Aircraft CG} = \frac{\text{Total aircraft moment}}{\text{Aircraft empty weight}} = \frac{M_T}{W_E} = \frac{916800}{484.0} = 1894 \text{ mm}$$

$$\text{CG as percentage of MAC} = \frac{(CG - 1616)}{1349} \times 100 = \frac{1894 - 1616}{1349} \times 100 = 20.6\,\%$$

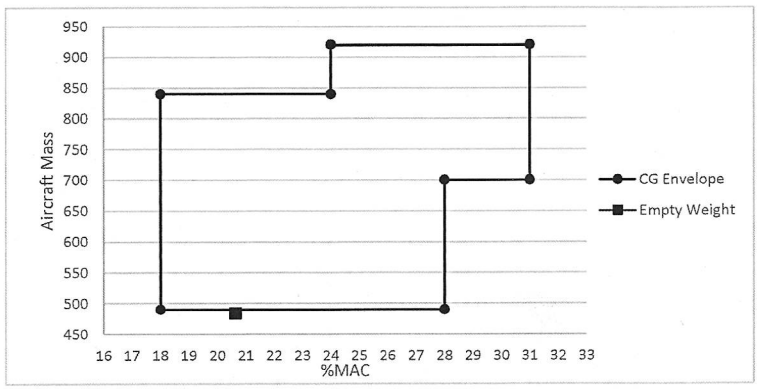
I hereby certify that the information as recorded above is correct in every respect to the best of my knowledge

Name: DANIEL NIELSEN Signature: .....

SLING AIRCRAFT Inspector 10 AMO 1264

Stamp: ..... Date: 07/08/2023

CG Envelope



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