



BWD - BALI INTERNATIONAL FLIGHT ACADEMY

AIRCRAFT WEIGHT AND CG DETERMINATION

DATE	: 02 November 2023
VALIDITY	: 01 November 2026
AIRCRAFT REGISTRATION	: PK - ROR
AIRCRAFT TYPE	: CESSNA 172P, 4 seater configuration.
AIRCRAFT SERIAL NUMBER	: 17275319
PROPERTY OF	: BWD - Bali International Flight Academy.
PLACE OF WEIGHING	: WADY
REASON OF WEIGHING	: TIMEX
WEIGHT EQUIPMENT	: M2000 Digital System. Pn. M2000-3-10KP S/n. 10-7391.
PERFORMED BY.	: SEFTIA MELDA
CHECKED BY.	: I KD AGUS WIDI
TOTAL WEIGHT	: 616,595 Kg
CG FROM DATUM LINE	: 1.025,56 mm / 40,37 Inch
INDEX (MOMENT)	: 10.850,55 Kg x mm / 607.603,2 Lbs x Inch

APPROVED BY:

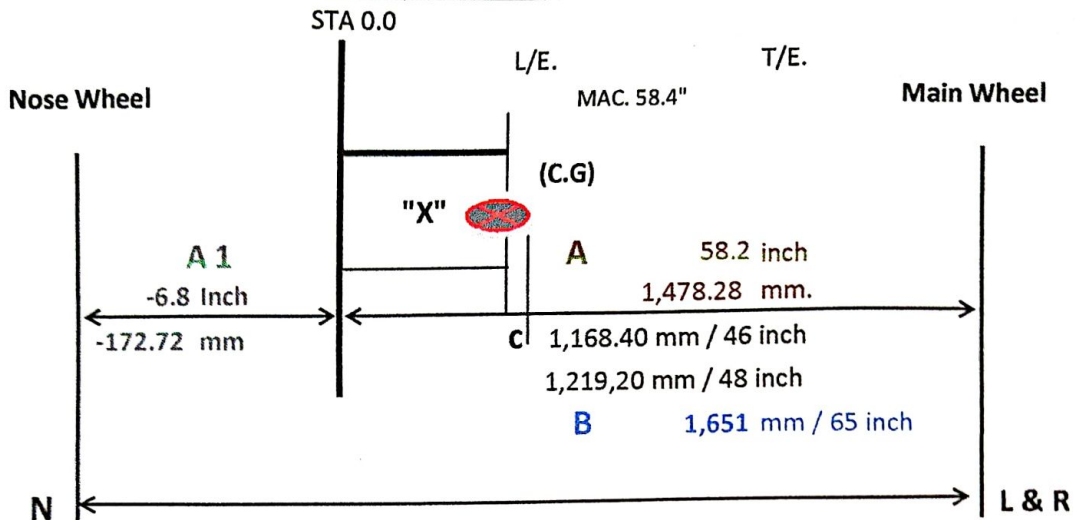
ZAQI FAHMI
AMEL : 10623



AIRCRAFT WEIGHT AND CG DETERMINATION

A/C. REG. : PK-ROR

Datum line (Firewall front face, lower portion.)



REF : POH SEC 6 WEIGH AND BALANCE EQUIPMENT LIST

Note :

- A1** : Datum STA 0.0 (From Datum STA 0.0 TO Nose Wheel)
- A** : From Datum STA 0.0 TO Main Wheel
- B** : Total of Length (Nose Wheel to Main Wheel)
- C** : Fuel Tank Standard Tank 46.0 inch / Integral & Long Range 48.0 inch
- N** : Weight of Nose Wheel
- W** : Total Weight

REACTION (Wheel, Jack Point)	AVERAGE SCALE READING (Kg.) / (Lbs.)	ARMS (mm.) / (Inch)	MOMENT (Kg-x-mm) / (Lbs x Inch)
Left Main Wheel	476,20		
Right Main Wheel	471,41		
Sub Total	947,61	58,20	55.150,9
Nose	372,75	-6,8	-2.534,70
Total as Weighed	1.320,36		52.616,2

ITEM INCLUDED IN EMPTY WEIGHT:

- 1. Life Vest (4 ea)
- 2. Manuals (2 ea)
- 3. Axe (1 ea)
- 4. First Aid Kit (1 ea)
- 5. Portable Firex (1 ea)
- 6. Elt (1 ea)

REMARKS:

- Aircraft weighed at : On Wheels
- Parking Break : Release

AIRCRAFT WEIGHT AND CG DETERMINATION

A/C. REG : PK-ROR

Empty Weight

ITEMS	WEIGHT (Kg) / (Lbs)	ARM (mm) / (Inch)	MOMENT (Kg x mm) / (Lbs x Inch)
Unuseable fuel	24	46	1.104
Engine Oil	15	-0.14	-2.10
Equipment Change			
Total Empty Weight	39		1.101,9

NOTE : - Aircraft Fuel Tanks

: Empty/ Drained

- Engine Oil

: Full (7 Qts)

- Aircraft Hydraulic

: Full

- Unusable Fuel Standart Tanks (18 Lbs) / (8,16 Kg)

() \checkmark = Yes, X = No

- Unusable Long Range Tanks (24 Lbs) / (10,88 Kg)

() \checkmark = Yes, X = No

- Unusable Integral Tanks (36 Lbs) / (16,32 Kg)

() \checkmark = Yes, X = No

AIRCRAFT WEIGHT RECORD

DESCRIPTION	NET WEIGHT (Kg-) / (Lbs)	ARMS (mm-) / (Inch)	MOMENT (Kg.mm-) / (Lbs.Inch)
Total as Weighed	1.320,36		606.501,3
Total Empty Weight	39		1.101,9
Total Weight	1.359,36		607.603,2

C.G LIMITATION:

FORWARD AFT

= 889 mm 35
= 1201 mm 47,28

Inch

Inch

(From Reference Line)

Center Gravity (CG)

$$X = \frac{\sum (W \times A)}{\sum W} = \frac{N \times B}{W}$$

$$1.478,28 = \frac{372,75 \times 1651}{1.359,36}$$

$$= 1.025,56 \text{ mm} / 40,37 \text{ Inch}$$

PRIOR TO WEIGHT AND BALANCE CHECK-LIST

A/C REG : PK-ROR

STANDARD ITEMS (PART OF EMPTY WEIGHT) APPL (✓ = Yes, X = No)

NO.	DESCRIPTION	APPL.	CHECKED	REMARKS
1	All fuel tanks are empty including pylon and collector tanks	✓	EMPTY	Drained
2	Propeller spinner is fitted.	✓	FITTED	
3	All engine oil tank are FULL	✓	FULL	
4	Aircraft Battery is fitted	✓	FITTED	
5	Cabin air circulating fan are installed.	✓	FITTED	
6	Fire Extinguisher is installed	✓	O/B	
7	Aircraft Documents (Manuals, Navigations and	✓	O/B	
8	Axe	✓	O/B	
9	Nose and Main wheel fairings.	✓	NOT FITTED	
10	First Aid Kit	✓	EMPTY	
11	Life Saving Equipments.	✓	O/B	4ea
12	Baggage nets.	✓	NOT O/B	
13	Ground service plug receptacle.	✓	NOT FITTED	
14	Seat belts	✓	FITTED	
15	Map Light	✓	NOT FITTED	
16	Tow bar	✓	NOT FITTED	
17	Mike head-set.	✓	O/B	