WEIGHT AND BALANCE FORM

Manufacture Date. 1976 Manufactured by: B. Grob Flugzeugbau Model: G-102 Astir CS Serial Number: 1387 Registration: N6324Z

Owner: Bud Shaw

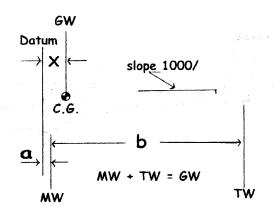
Weight and Balance data based on Equipment List dated: 11 July 2023

TECHNICAL 1. Datum: Wing leading edge at its root rib

2. Leveling: Slope of fuselage top surface, 1000 / 40

WEIGH AND CENTER OF GRAVITY CALCULATION

Ballast weights installed



Component mass		
Item	kgs. / lbs.	
right wing		
+ aileron		
left wing		
+ aileron		
fuselage		
horz. stab.		
+ elevator		
rudder		
Total mass		

Values for

MW 533.0 lbs **a** 3.8 in.

TW 78.2 lbs.

b 168.5 in.

MW + TW = GW 611.2 Lbs.

$$X = \frac{78.1 \times 168.5}{611.2} + \frac{3.8}{100} = Empty Weight C. G.=25.3$$
 inches aft of the Datum.

Note: The value of "a" and "b" can vary with the weight of the glider. These dimensions must be checked at each weighing.

Flight Weight c.g. range:

Inches aft of Datum

Forward limit 9.8 in. Aft Limit 16.7 in

MAXIMUM ALLOWABLE WEIGHTS

Maximum Gross Weight: No water ballast: 836.0 lb

Useful load 224.8 lbs. No water ballast.

Maximum Gross Weight: With water ballast: 990.0 lbs..

Useful load 242.5 lbs. With water ballast.

Maximum weight of non-lifting parts 528.0 lbs

Data Checked by Robert & Mudd # 1878801 T.A.

Date 11 JULY 2023

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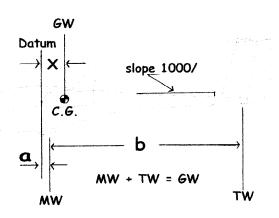
Weight and Balance data based on Equipment List dated: 11 July 2023

TECHNICAL 1. Datum: Wing leading edge at its root rib

DATA 2. Leveling: Slope of fuselage top surface, 1000 / 40

WEIGH AND CENTER OF GRAVITY CALCULATION

No ballast weights installed



Component mass		
Item	kgs. / lbs.	
right wing		
+ aileron		
left wing		
+ aileron		
fuselage		
horz. stab.		
+ elevator		
rudder		
Total mass		

Values for

MW 525.0 lbs **a** 3.8 in.

TW 81 lbs. **b** 168.5 n.

606.0 G MW =

Note: The value of "a" and "b" can vary with the weight of the glider. These dimensions must be checked at each weighing.

Flight Weight c.g. range:

Inches aft of Datum

Forward limit 9.8 in. Aft Limit 16.7 in

MAXIMUM ALLOWABLE WEIGHTS

Maximum Gross Weight, No water ballast: 836.0 lb

Useful load 230.0 lbs. No water ballast.

Maximum Gross Weight: With water ballast: 990.0 lbs...

Useful load 242.5 lbs. With water ballast.

Maximum weight of non-lifting parts 528.0 lbs

Data Checked by Abely Mudd #18788011, A. Date 11 July 2023

Minimum front seat load Ballast weights in nose

N6324Z SN:1387 Date: 11 July 2023

Fwd of Datum = -- Aft of datum = + Datum Is: Leading edge of wing at root.

In flight C G limits: 9.8 inches to 16.7 inches Aft of datum

Weights in Pounds

Glider equipped as per Equipment List dated 11 July 2023

Item	Weight	Arm / CG	Moment
Original W&B	611.2	25.3	1,5463.3
Front seat load	150.0	-18.7	-2805.0
Gross Weight	761.2	16.6	1,2658.3

Item	Weight	Arm / CG	Moment
Original W&B			
Front seat load			
Gross Weight			

Item	Weight	Arm / CG	Moment

Item	Weight	Arm / CG	Moment

Checked by	
Robert Mudd A&P 1878801	

Minimum front seat load No ballast weights in nose

N6324Z SN: 1387 Date: 11 July 2023

Fwd of Datum = -- Aft of datum = + Datum Is: Leading edge of wing at root.

In flight C G limits: 9.8 inches to 16.7 inches Aft of datum

Weights in Pounds

Glider equipped as per Equipment List dated 11 July 2023

Item	Weight	Arm / CG	Moment
Original W&B	606.0	26.3	1,5937.8
Front seat load	165.0	-18.7	-3085.5
Gross Weight	771.0	16.66	1,2852.3

Item	Weight	Arm / CG	Moment
Original W&B			
Front seat load			
Gross Weight			

Item	Weight	Arm / CG	Moment

Item	Weight	Arm / CG	Moment

Checked by	
Robert Mudd A&P 1878801	