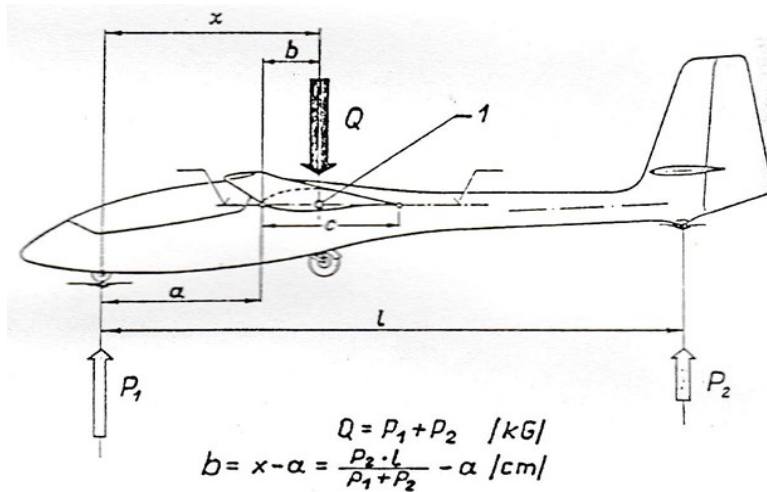


**WEIGHT AND BALANCE REPORT**

Aircraft: SZD50-3  
 Serial No: B2061  
 Registration No. N92MN  
 Date: 04/16/24  
 By: Bob Herman A&P: 3446201



Datum Line: Front Leading Edge of Wing at the Root Rib  
 Leveling Means: Level wing root rib cord with antifreeze filled connected water pipes at root rib.

$P_1 =$	531.5 lbs.	Weighed on April 16, 2024
$P_2 =$	309.0 lbs.	Weighed on April 16, 2024
$Q =$	840.5 lbs.	
$a =$	68.3 in.	
$L =$	251.2 in.	

Calculate Empty Weight C.G.  $b = ((P_2 \times L) / (P_1 + P_2)) - a$  **24.0 in.**

Max. Gross Weight: **1257 lbs.**

Calculate Useful Load:  $U = (MGW - Q) =$  **416.5 lbs.**

**EQUIPMENT LIST**

Tost Nose Hook  
 Tost C.G. Hook

Front Instrument Panel:	Airspeed Indicator Tasman Variometer PZL Variometer Altimeter G-meter Transceiver 5 Point Harness Boom Microphone Magnetic Compass	Rear Instrument Panel:	Airspeed Indicator PZL Variometer Altimeter 5 Point Harness Boom Microphone Magnetic Compass
-------------------------	--	------------------------	---

Baggage Compartment: Battery – LiFePO

INDIVIDUAL LOADING PLAN

SZD-50-3 "PUCHACZ" Fact. No. B-2061	
<b>INDIVIDUAL LOADING PLAN</b>	
MAXIMUM ALL-UP MASS IN :	1257 lbs
MAXIMUM FRONT SEAT LOAD MASS IN FLIGHT :	242 lbs
MINIMUM FRONT SEAT MASS USE OF BALANCING WEIGHTS :	121 lbs
• for cockpit load mass up to 154 lbs	OBLIGATORY
• for cockpit load mass above 220 lbs	PROHIBITED
MAXIMUM LOAD MASS IN LUGGAGE COMPARTMENT	44 LBS
SOLO FLIGHT ON FRONT SEAT ONLY.	
IF THE FRONT SEAT OCCUPANT MASS EXCEEDS 220 LBS IT IS PROHIBITED FOR THE OCCUPANT OF THE REAR SEAT TO USE THE ADDITIONAL BACK PILLOW IF HIS MASS / PARACHUTE INCLUDES / EXCEEDS 165 LBS	

LOADING PLAN

C.G. Moment  $M = Q * b$  20200.1  
 Front Seat Weight FS = U-RS or max 242  
 Ballast Weights (inc: 121.0 CG Moment & Tot Wt) -1910.0 22 lbs.

RS Wt.(lb)	RS Moment	FS Wt.(lb)	FS Moment	GG Moment	Tot. Wt.	Tot. Moment
0.0	0.0	121.0	-6281.6	18290.1	983.5	12008.5
0.0	0.0	154.0	-8018.4	20200.1	994.5	12181.6
0.0	0.0	242.0	-12650.0	20200.1	1082.5	7550.1
121.0	-1210.0	242.0	-12650.0	20200.1	1203.5	6340.1
132.0	-1194.5	242.0	-12650.0	20200.1	1214.5	6355.6
154.0	-1163.5	242.0	-12650.0	20200.1	1236.5	6386.5
176.0	-1132.5	240.5	-12571.1	20200.1	1257.0	6496.5
198.0	-1101.5	218.5	-11413.2	20200.1	1257.0	7685.4
220.0	-1070.6	196.5	-10255.3	20200.1	1257.0	8874.2
242.0	-1039.6	174.5	-9097.4	20200.1	1257.0	10063.1

All Loading Plan loads within C.G. envelope.

SZD-50-3 "PUCHACZ"					
<b>LOADING PLAN</b>					
Mass of empty glider with standard equipment and the following additional equipment :					
Additional Panel of Rear Seat					
Transceiver , Tasman Variometer, G-meter and LiFePo Battery					
Maximum all-up mass in flight:					1257 lbs
Maximum summarized load mass, i.e., crew and luggage					416 lbs
Mass of pilot and parachute				lbs	Balancing weights pieces : 2 See ILP Data Signature Seal of Factory Inspection
Rear seat		Front seat			
		minimum	maximum		
0		121	154	0	
0		154	242	0	
Two persons flight	121	121	242	0	
	132	121	242	0	
	154	121	242	0	
	176	121	240	0	
	198	121	218	0	
	220	121	196	0	
	242	121	174	0	