

Rolladen Schneider Flugzeugbau GmbH	MAINTENANCE MANUAL 7 - Inspection Forms WEIGHING REPORT	LS4-a	Page 7-3. USA
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Serial No.: 4473

Reg. Signs: N305Z

Date: 2 July 2024

Component Weights (Check when equipment altered or every fourth year)

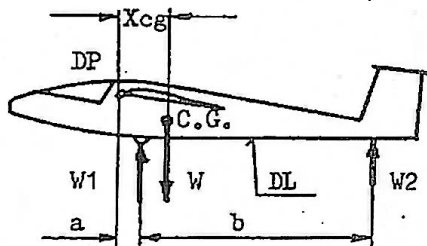
Right Wing	145.5	lbs	Maximum all-up Weight	525 kg (1157 lbs)	
Left Wing	146.16	lbs	Maximum Weight of Non-lifting Parts	230 kg (507 lbs)	
Fuselage + Equipment + Main Pins + Canopy	277.7	lbs	Fuselage + Equipment + Main Pins + Canopy	277.7	lbs
Horizontal Tail	13.9	lbs	Horizontal Tail	13.9	lbs
Empty Weight (W)	586.5	lbs	Maximum Cockpit Load (Pilot + Parachute)	215.3	lbs
			Actual Weight of Non-lifting Parts	291.66	lbs

Weighing and Empty Weight C.G. Determination (Check when equipment altered or every fourth year)

Technical Data according to Type Certificate Data Sheet:

1. Datum Point (DP): Leading edge of wing at root
2. Datum Line (DL): Under side of fuselage placed horizontal

Empty Weight (W)	586.5	lbs	Distance from wheel axis to Datum Point DP (a)	6.73	in
Nett Tail Weight (W2)	62.5	lbs	Distance from wheel axis to tail support (b)	166.2	in



$$\frac{W2 \times b}{W} + a = Xcg$$

$$\frac{62.5 \times 166.2}{586.5} + 6.73 = 24.44 \text{ (in)}$$

Empty Weight C.G. Range according to Maintenance Manual Chapter 2 from 22.469 in to 24.945 in at Empty Weight (W) 586.5 lbs yields permissible Cockpit Load Range from 154 lbs to 215.3 lbs.

Weighed and calculated C.G. position is within permissible Limits.
Weight and Balance Placard and Minimum Cockpit Load Placard in Cockpit as well as entry in Flight Manual have been checked/updated.
Equipment during weighing/calculation see Equipment List dated: _____

NOTE: See also Flight Manual Chapter 6.

State Dimensions used. Redetermine distances a and b, because of possibly altered suspension level.

AP 3746201

(Stamp) (Signature of inspector)

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Erstellt: 15. April 83 <i>Le</i>	Ersetzt:	Geprüft: 15. 4. 83 <i>khapha</i>
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EQUIPMENT LIST

Manufacturer: Roladen Schneider Flugzeugbau GmbH
Model: LS 4-a
Serial No.: 4473
Registration: N30SZ
Date: 3 July 2024

Item	Make	Location
Minimum Equipment		
Airspeed	Winter	Inst. Panel
Altimeter	United Instruments	Inst. Panel
Shoulder Harness	Gadringer	Seat
Lap Belt	Gadringer	Seat
C.G. Release	Tost	Belly
Nose Release	Tost	Nose
Additional Equipment		
Variometer	Winter	Inst. Panel
Compass	Airpath	Inst. Panel
Flight Computer	Ilec SN10	Inst. Panel
Radio	Trig TY91	Inst. Panel
Microphone	Peiker TM168	Cockpit Rail
Speaker	N/A	Rear Cockpit
Battery	LiFePo 12v	Baggage Area
Oxygen Bottle/Regulator	Steel	Oxygen Sleeve
Oxygen Regulator	Nelson	Oxygen Sleeve