

Subject: English version of Flight Manual

Effectivity: Sailplane LS4

Accomplishment: Optional

Reason: Improvement of Flight Manual

Instructions: Exchange the following pages against those edited 15.12.81:  
0-2, 0-3, 0-5, 1-8, 1-9, 1-11.  
Add page 1-12, edition 15.12.81.

Remarks: Pages may be obtained from manufacturer or agents.

Anerkannt vom  
Luftfahrt-Bundesamt

  
- 6. Sep. 1982

FLIGHT MANUAL

For the sailplane type LS4

This Flight Manual should be carried in the sailplane at all times.

This Flight Manual is issued for the sailplane LS4

Registration Number \_\_\_\_\_

Serial Number \_\_\_\_\_

Manufacturer Rolladen Schneider Flugzeugbau GmbH  
Mühlstrasse 10, 6073 Egelsbach, Germany

Owner

Because of responsibility of information a change of ownership should be reported to the manufacturer immediately.

Approval of transition has been done by test knowledge and judgement. - In any case the original text in German language is authoritative.



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Water Ballast Limitations

Maximum Capacity 60-70 kg (132-154 lbs) each bag = 120-140 kg (264-308 lbs)

Pilot and Parachute (kg)	Empty Weight (kg)									
	230	235	240	245	250	255	260	265	270	275
70	140	140	140	140	140	140	140	137	132	127
75	140	140	140	140	140	140	137	132	127	122
80	140	140	140	140	140	137	132	127	122	117
85	140	140	140	140	137	132	127	122	117	112
90	140	140	140	137	132	127	122	117	112	107
95	140	140	137	132	127	122	117	112	107	102
100	140	137	132	127	122	117	112	107	102	97
105	137	132	127	122	117	112	107	102	97	92
110	132	127	122	117	112	107	102	97	92	87

Example: When empty weight is 240 kg (529 lbs) and pilot and parachute weight is 95 kg (209 lbs), maximum permissible water ballast is 137 kg (302 lbs).

See page 1-9 for limitations in lbs.

Water Ballast Limitations

Maximum capacity 120-140 kg (264-308 lbs)

Pilot and Parachute (lbs)	Empty Weight (lbs)										Pilot and Parachute (kg)
	507	518	529	540	551	562	573	584	595	606	
154	309	309	309	309	309	309	309	302	291	280	70
165	309	309	309	309	309	309	302	291	280	269	75
176	309	309	309	309	309	302	291	280	269	258	80
187	309	309	309	309	302	291	280	269	258	247	85
198	309	309	309	302	291	280	269	258	247	236	90
209	309	309	302	291	280	269	258	247	236	225	95
220	309	302	291	280	269	258	247	236	225	214	100
231	302	291	280	269	258	247	236	225	214	203	105
243	291	280	269	258	247	236	225	214	203	192	110
	230	235	240	245	250	255	260	265	270	275	

Empty Weight (kg)

Example: When empty weight is 529 lbs and pilot and parachute weight is 209 lbs, maximum permissible water ballast is 302 lbs.

Aerobatics: Aerobatic Manoeuvres not approved.

Structural Limitations in Flight:

At 180 km/h (97 kts, 112 MPH) 5.3 G positive and 2.65 G negative.

At 270 km/h (146 kts, 168 MPH) 4.0 G positive and 1.5 G negative.

VFR-Flight: Permitted

Cloud Flying: Permitted, if aircraft is appropriately equipped and certified by inspector.

Minimum Equipment required for VFR and Cloud Flying see Maintenance Manual.

Break Away Link in Tow Rope: for winch and aero tow max. 600 kg (1323 lbs).



Sideslip

Sideslip speed range: up to 180 km/h (97 kts, 112 MPH)

During sideslip rudder control force decreases to almost zero force.

For a straight and steady sideslip 100% rudder and between 50 to 75% aileron deflection are necessary.

Degradation in airspeed system goes down to zero airspeed indication. Depending on airspeed indicator, negative values may be indicated. (Fuselage nose pitot and forward side statics used).