

# BGA glider data sheet - LS7 & LS7-WL

Data source: Manufacturers' Flight & Maintenance Manuals

Date of issue: June 1993

Manufacturer: Rolladen-Schneider

UK Agent: UK Agent: Navboys Web site [www.Navboys.com](http://www.Navboys.com) Tel:- 01264 981934

Link to mandatory mods: <http://www.dg-flugzeugbau.de/tech-mitteilungen-e.html>

## Weighing Data:

	Kg	Pounds
Max weight with water	486	1072
Max weight (dry)	389	858
BGA concession non-aerobatic max weight (dry) [+3%]	400	883
Max weight of non lifting components (everything except wings) See manufacturers' table	235 - 249	518 - 549
BGA concession non-aerobatic max weight of non lifting components [+5%]		
Max weight in baggage compartment	5	11
Max pilot weight (seat load)	120	265

mm Inches

Forward C of G limit (aft of datum)	250	9.84
Aft C of G limit (aft of datum)	400	15.75
Pilot position (forward)		

## Control deflections in degrees

	Up	Down	Max free play	Friction (grams)
Ailerons	21 - 25°	10 - 13°	1,8 total	200 - 300 30mm below stick top
Elevator	28 - 30°	22 - 24°	2,4 total	100 max 30mm below stick top
Rudder	Left & right 26 - 30°		N/A	500 max at rudder bottom TE
Airbrakes	Min extension 147mm			
<b>Control weights &amp; moments</b>				
	Mass		Hinge moment	
Aileron	2,78 - 3.20 kg		1,85 - 3,00 Kg cm	
Elevator	1,00 - 1,60 kg			
Rudder	3,80 - 4,22 kg		±1,33 Kg cm	

Longitudinal datum: Wing root LE

Horizontal datum: Underside of rear fuselage level

Each of the three standard 2.5 kg, (6 lb) nose weight reduces minimum pilot weight by 5 kg, (11 lb).

Fill a maximum of 1 litre of water in the fin tank for every 26 litres in the wings.

## Maximum speeds

	Knots	Kph
VNE up to 6500 feet (2000 meters)	146	270
Rough air	103	190
Manoeuvre	103	190

	Knots	Kph
Aerotow	103	190
U C operating	146	270
Winch / auto tow	76	140
Air brakes	146	270

Height meters	Height feet	VNE Knots	VNE Kph
2 - 3 000	6500 - 9800	139	257
3 - 4 000	9800 - 13100	132	244
4 - 6 000	13100 - 19700	118	219
6 - 8 000	19700 - 26200	105	195
8 - 10 000	26200 - 32800	93	173

The aileron seals on both the upper and lower surfaces must be fitted.

Max winch weak link: 825 kg (Tost red)

Tyre pressure: 43 - 50 psi (3 - 3,5 Bar), 58 psi (4 bar) with full water. Rear 36 - 50 psi (2,5 - 3,5bar)

Semi aerobatic and cloud flying permitted without water. The WL version has winglets fitted.

Span 15 meters. German (LBA) type certificate number 375. EASA TCDS:- A.095

Use lower nose static vents for ASI & altimeter. Use upper nose & rear fuselage vents connected together for varicos.

This sheet compiled by: Tim Macfadyen Date: 11 June 2003

Updated 5 April 2017 Aileron free play corrected, EASA TCDS added, Min airbrake extension added.

Last update 18 Oct 2021: UK agent changed