

BGA glider data sheet - LS 6b

Data source Manufacturers' handbooks Date of issue: 1987

Manufacturer: Rolladen-Schneider

UK Agent: UK Agent: Navboys Web site 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 (dry)	395	871
BGA concession non-aerobatic max weight (dry) [+3%]	407	897
Max weight with water	525	1158
Max water	160	352
Max weight of non lifting components (everything except wings) see table in handbook page 6-4 for details	240 -255	529 - 562
BGA concession non-aerobatic max weight of non lifting components [+5%]	252 -268	556 - 590
Max pilot weight (seat load)	110	242

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 of datum) 143 lb pilot. See handbook for details	513	20.20

Control deflections

	Up	Down	Distance - hinge to measuring point	Max free play
Ailerons (with flaps set at +10°)	14±1°	14±1°		2.8 mm
Elevator	29 ±1°	23 ±1°		2.4 mm
Airbrakes (With flaps 0°)	105 ±5mm		At inner end	
Rudder	Left 28±2°	Right 28±2°		
Flaps (ailerons neutral)	L +14 ±1° 10° +9 ±1° 5° 4 ±1° 0° -1 ±1° -5° -4 ±1°			

Longitudinal datum: Wing root LE Horizontal datum: Rear fuselage bottom horizontal
Options - Fin battery (2.6 Kg) or fin tank (5.5 Kg max) and 2.45 Kg weight at base of fin. Max baggage 5 Kg.
1 Kg of tail tank water balances 22 Kg of wing water. One (2.5 Kg) nose weight reduces min pilot weight by 5 Kg.

Maximum speeds

	Knots	Kph
VNE	146	270
Rough air	108	200
Manoeuvre	108	200
Aerotow	108	200
Winch tow	75	140
Flaps + 5° & +10°	108	200
Flaps + 15°	86	160

Maximum speeds at altitude

Height feet	VNE Knots	Height meters	VNE Kph
0-6600	146	0-2000	270
6.6 - 10 000	139	2 - 3000	257
10 - 20 000	118	3 - 6000	219
20 - 33 000	93	6 - 10000	173
Max speeds			
		Knots	Kph
U/C down		146	270
Airbrakes out (flap limit speeds apply)		146	270

Control weights & moments

	Weight Kg	Moment Kgcm
Elevator	1.00-1.60	3.63-4.44
Rudder	3.8-4.22	± 1.33
Inner aileron	2.61-3.33	9.85-13.93
Outer Aileron	1.37-1.74	3.74-5.28

Max winch weak link: 800 Kg (Tost red)

Tyre pressure: main 43 - 50 psi 3 - 3,5 Bar Tail 36 - 50 psi, 2,3 - 3,5 Bar

Semi aerobatic (without water-ballast). Cloud flying permitted

This sheet compiled by: Tim Macfadyen Update: 22/1/08 BGA concession weights corrected

Updated 19 April 2018 clarifying that control deflections are quoted in degrees not mm

Last update 18 Oct 2021: UK agent changed