

BGA glider data sheet - LS 6c (15/17.5 Meter)

Data source Manufacturers' handbooks Date of issue: 10 Oct 1995

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)	425	937
BGA concession non-aerobatic max weight (dry) [+3%]	438	965
Max weight with water	525	1157
Max water Normal tanks 150 kg optional tanks 100 kg	150	331
Max weight of non lifting components (everything except wings) see table in handbook page 2-4/5for 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

Carry out weighing with 15 meter wingtips 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	Max free play
Ailerons (with flaps set at -5°)	18 - 22°	5 - 10°	2.5 mm
Elevator	25 - 30°	22 - 26°	2.5 mm
Airbrakes (flaps 0°) Airbrakes (flaps "L")	120mm min average 150mm min average		
Rudder	Left & Right 26° - 28°		
Flaps (ailerons neutral)	L 10° 5° 0° -5°	+14° ±1 +9° ±1 4° ±1 -1° ±1 -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	103	190
Manoeuvre	103	190
Aerotow	103	190
Winch tow	76	140
Flaps -5° to 0° 0° to +10° 10 to + 15°	146 103 81	270 190 150

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 operation		146	270
Airbrakes out (flap limit speeds apply)		146	270

Control weights & moments

	Weight Kg	Moment KgCm
Elevator	1.00-1.60	
Rudder	3.0-6.80	0 - 8.20
Inner flaperon	2.14-2.74	8.06-9.00
Middle flaperon*	1.19-1.53	3.60-4.75
17.5 M tip ailerons*		
*including connecting pins		

Max winch weak link: 825 Kg (Tost red)

Tyre pressure: main 43 - 50 psi 3 - 3,5 bar (58 psi, 4 bar with full water) Tail 36 - 51 psi, 2,5 - 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

Last update 18 Oct 2021: UK agent changed