BGA glider data sheet - LS 3A & LS 3-17 (see separate sheet for LS 3)

Data source Manufacturers' Maintenance Manual Date of issue: 1.12.1979

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) 17 meter only	370	816
BGA concession non-aerobatic max weight (dry) [+3%] 17 M only	381	840
Max weight with water (not 17 M)	472	1041
Max weight of non lifting components (everything except wings)	230	507
BGA concession non-aerobatic max weight of non lifting components [+5%]	242	532
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) 155 lb pilot	530	20.9

Control deflections in mm

	Up	Down	Distance - hinge to measuring point
Elevator	350 ±5	245 ±5	148
Distance from elevator TE to ref point on fin 300mm when elevator is neutral			
Airbrakes	160± 10		At inner end
Rudder	150 ± 10 both ways		310

Flap Handle position	Flaps position	Aileron position with stick central	Ailerons max travel
20°	40±7	16±7	
10°	16±7	16±7	37±7 down -30±7 up
0°	0±2	0±2	
-7°	-11±7	-11±7	-40±7 up

Flap & aileron deflections are measured at the flap/aileron junction from a straight edge extending rearwards from the rear 100 mm of the bottom wing surface. Radius 130mm.
Longitudinal datum: Wing root LE Horizontal datum: Rear fuselage bottom horizontal

Maximum speeds

	15 Meter		17 Meter	
	Knots	Kph	Knots	Kph
VNE	146	270	135	250
Rough air	102	190	86	160
Manoeuvre				
Aerotow	102	190	86	160

	15 Meter		17 Meter	
	Knots	Kph	Knots	Kph
Winch / auto tow	70	130	70	130
Airbrakes open	146	270	135	250
Flaps + 10°	102	190	86	160
Flaps + 20°	86	160	86	160

Max winch weak link: 600 Kg (Tost blue) Tyre pressure: 43 - 50 psi

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

Note: -The trim weights in front of the rudder pedals reduce min pilot weight by twice their own weight.
Load required to collapse undercarriage 12-15 Kg at joint above wheel. Replace gas strut if load is low.
The LS 3 has full span flaperons, the LS 3A has conventional flaps and ailerons.

This sheet compiled by: Tim Macfadyen Date: 22 Jan 2003

Last update 18 Oct 2021: UK agent changed