

# BGA glider data sheet - ASW 20 C & CL

Data source Schleicher Flight & Maintenance Manuals

Date of issue: June 1984

Maintenance Manual updated with TN31 3 July 1987

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## Weighing Data:

	Kg	Pounds
Max weight with water ASW 20 C	454	1001
Max water	110	242
Max weight ASW 20 CL	380	838
Max water	50	110
Max weight ASW 20 CL BGA non aerobatic concession	391	863
Max weight of non lifting components (everything except wings)	235	518
BGA concession non-aerobatic max weight of non lifting components [+5%]	247	544
Max pilot weight (seat load)	115	254
	mm	Inches
Forward C of G limit (aft of datum)	240	9,45
Aft C of G limit (aft of datum)	360	14,17
Light pilot position (forward)	625	24.6
Heavy pilot position (forward)	550	21.65

## Control deflections in mm

	Up	Down	Distance - hinge to measuring point	Max free play
Ailerons	See separate sheet		79	1,75 total
Elevator	64± 10	53 ±5	154	3 total
Rudder	Left 160 ±15	Right 160 ±15	310	4,5 total
Flaps	See separate sheet		148	2,75 total
	Weight Kg		Balance cm kg	
Rudder	2,25 - 2,65		6,57 - 9,13	
Elevator (half)	0,70 - 0,90		1,70 - 2,20	
Elevator actuator	0,21 - 0,27		1,00 - 1,20	
Aileron	1,76 - 2,1		1,88 - 2,53	
Flap	3,64 - 4,46		7,07 - 9,23	
Aileron extensions	0,23 - 0,29		0,56 - 0,66	

Longitudinal datum: Wing root LE (not the fairing).

Horizontal datum: Rear fuselage top 1000: 45 tail down

## Maximum speeds

	Kts C	Kph C	Kts CL	Kph CL
VNE	143	265	135	250
Rough air	97	180	89	165
Manoeuvre	94	175	86	160
U/C down	94	175	86	160
Aerotow	94	175	86	160

	Kts	Kph
Winch / auto tow	65	120
Flaps pos 2 & 3	108	200
Flaps position 4	86	160
Landing flaps	65	120

Height feet	VNE kts C	VNE Kph C	VNE kts CL	VNE Kph CL
10 000 +	129	240	121	225
16 400 +	116	215	108	200
23 000 +	105	195	97	180
29 500 +	92	170	83	155
36 000 to 42 600	78	145	73	135

Max winch weak link: 660 Kg (Blue)

Tyre pressure: 2,3 - 2,6 Bar Main and tail wheel

Semi aerobatic in 15 meter form without water. Cloud flying is permitted

The Hydraulic brake fluid is Aeroshell Fluid 4 or Esso Unis J-13. These fluids are mineral based and are very corrosive.

The 1 kg trim disks in the nose each reduce the min cockpit load by 2,5 Kg (5 ½ lb)

This sheet compiled by Tim Macfadyen

Date 19 Aug 2004

Last update 4 June 2023 UK agent Email changed