

## BGA glider data sheet - ASW 19 & 19B

Data source: Manufacturer's Handbook

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### Weighing Data:

	Kg	Pounds
Max weight (dry)		
BGA concession non-aerobatic max weight (dry) [+3%]		
Max weight with water	454	1001
Max landing weight		
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)	115	253
	mm	Inches

Forward C of G limit (aft of datum)	240	9.45
Aft C of G limit (aft of datum)	384	15.1
Pilot position (forward) short pilot	625	24.6
Pilot position (forward) tall pilot	550	21.65

### Control deflections in mm

	Up	Down	Distance - hinge to measuring point	Max free play
Ailerons	60 ±10	40 ±5	160	3,5
Elevator	60 ±10	50 ±10	160	3
Rudder	Left 160 ±15	Right 160 ±15	310	5
Airbrakes	With the brakes locked, the cockpit lever must rest in the same position ±5mm with each brake connected and the other disconnected.			

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

Horizontal datum: Rear fuselage top 1000:45 tail down

Up to 7 Kg of nose weights may be fitted. 1 Kg of nose weight is equivalent to 2.5 Kg of cockpit weight.

### Maximum speeds

	Knots	Kph	Height feet	VNE Knots
VNE	137	255	0 - 10 000	137
Rough air	92	170	10 000 - 16 400	120
Manoeuvre	92	170	16 400 - 23 000	110
Aerotow	92	170	23 000 - 29 500	95
Winch / auto tow	67	125	29 500 - 36 000	85
			36 000 - 42 600	75

### Controls weights & balance

	Weight Kg	Balance cm Kg
Rudder without horn	3,0 - 3,4	8,0 - 11,0
Rudder with horn	3,3 - 3,7	9,0 - 12,0
Elevator	2,1 - 2,9	6,0 - 9,0
Ailerons	3,0 - 3,6	8,75 - 10,75

Max winch weak link: ASW 19, 500 Kg (Tost white), ASW 19b, 600 Kg Tost blue (strengthened hook mounting)

Tyre pressure: 38 PSI

Semi aerobatic Cloud flying permitted without water ballast

This sheet compiled by: Tim Macfadyen

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