

## BGA glider data sheet - ASW 20L & 20FL

**This data applies when flying in 16.6-meter span, see ASW 20/F sheet for 15-meter span data.**

Data source Schleicher Manual

Date of issue: 1979

Manufacturer: ASW 20L A Schleicher GmbH & Co, Segelflugzeugbau, 36161 Poppenhausen, Germany

Manufacturer ASW 20FL Centrair

UK Agent: Peter Wells

E Mail: [office@zulu-glasstek.co.uk](mailto:office@zulu-glasstek.co.uk)

Phone: 01844 208 157

URL : [http://www.as-segelflugzeuge.de/englisch/e\\_main.htm](http://www.as-segelflugzeuge.de/englisch/e_main.htm)

### Weighing Data:

	Kg	Pounds
Max weight (dry)	380	838
BGA concession non-aerobatic max weight (dry) [+3%]	391	863
Max water	Nil	Nil
Max pilot weight (seat load)	115	254
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 weight in baggage compartment	15	33

	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	60±15	50±15	145	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	2,8 - 3,6	8,6 - 11,0
Elevator	2,1 - 2,7	6,6 - 8,4
Ailerons	2,2 - 2,6	2,8 - 3,5
Aileron extensions	0,23 - 0,29	0,54 - 0,66
Flaps	5,1 - 6,5	12,3 - 15,7

Longitudinal datum: Wing root LE (not the fairing). Horizontal datum: Rear fuselage top 1000: 45 tail down

Each 1 Kg nose weight reduces min cockpit weight by 2.5 Kg

### Maximum speeds

	Knots	Kph
VNE	135	250
Rough air	89	165
Manoeuvre	86	160
Aerotow	86	160

	Knots	Kph
Winch / auto tow	65	120
U/C down	86	160
Flaps positions 2 & 3	108	200
Flaps position 4	86	160
Landing flaps	65	120

Height feet amsl	VNE kts	VNE Kph
0 - 10 000	135	250
16 400	120	225
23 000	110	200
29 500	95	180
36 000	85	155
42 600	75	135

Max winch weak link: 600 Kg (blue)

Tyre pressure: Main wheel 2,5 - 3 Bar (36 - 49 psi), tail wheel 2,3 - 2,6 bar (33 - 38 psi)

Semi aerobatic in 15 meter span, non-aerobatic with 16.6 meter tips. Cloud flying is permitted

This sheet compiled by Tim Macfadyen      Date 5 May 2007

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