

BGA glider data sheet - ASW 20 B & BL

Data source Schleicher Manual Date of issue: 7/4/1983

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

UK Agent: Peter Wells E Mail: office@zulu-glasstek.co.uk Phone: 01844 208 157

URL : http://www.as-segelflugzeuge.de/englisch/e_main.htm

Weighing Data:

	Kg	Pounds
Max weight with water ASW 20 B ASW 20 BL	525 430	1158 948
Max weight of non lifting components (everything except wings)	245	540
BGA concession non-aerobatic max weight of non lifting components [+5%]	257	567
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).

*No play is allowed at the tip aileron connections.

Horizontal datum: Rear fuselage top 1000: 45 tail down

Maximum speeds

	Kts B	Kph B	Kts BL	Kph BL
VNE	151	280	143	265
Rough air	103	190	92	170
Manoeuvre	103	190	92	170
U/C down	103	190	92	170
Aerotow	103	190	92	170

	Kts	Kph
Winch / auto tow	70	130
Flaps pos 2 & 3	119	220
Flaps position 4	92	170
Landing flaps	70	130

Height feet	VNE kts B	VNE Kph B	VNE kts BL	VNE Kph BL
10 000 +	130	240		
16 400 +	116	215		
23 000 +	105	195		
29 500 +	92	170		
36 000 to 42 600	78	145		

Max winch weak link: 600 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 Univas 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 Updated 2 Jan 2008 (Speed data for 15 Meter version added)

Last update 4 June 2023 UK agent Email changed