

BGA glider data sheet - ASW 20 & 20F

This data is applies when flying in 15-meter span, see ASW 20L/FL sheet for 16.6-meter span data.

Data source: Schleicher Manual

Date of issue: 1979

Manufacturer: Schleicher & Centrair

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

Weighing Data:

Control deflections in mm

	Kg	Pounds
Max weight dry & landing weight	380	838
BGA concession non-aerobatic max weight (dry) [+3%]	391	863
Max weight with water	454	1000
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	253
	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

	Up	Down	Distance - hinge to measuring point	Max free play
Ailerons	See separate sheet.		79	1,75 total
Elevator	60±15	50 ±5	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	
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

Maximum speeds

	Knots	Kph
VNE	143	265
Rough air ASW 20	97	180
Rough air ASW 20F	96	178
Manoeuvre	94	175
Aerotow	94	175

	Knots	Kph
Winch / auto tow	65	120
U/C down	94	175
Flaps positions 2 & 3	108	200
Flaps position 4	86	160
Landing flaps	65	120

Height feet	VNE knots	VNE Kph
10 000 - 16 400	121	225
16 400 - 23 000	108	200
23 000 - 29 500	97	180
29 500 - 36 000	83	155
36 000 - 42 600	73	135

Max winch weak link: 600 Kg (blue)

Tyre pressure: 36 - 49 psi

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

Notes: -

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

This sheet compiled by Tim Macfadyen Last updated 5 May 2007