

BGA glider data sheet - ASW 12

FAA data sheets G21EU and Flight Manual dated June 1969 (ASW 12 BV December 1979)

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

Weighing Data:

	Kg
Max weight with water	495
Max weight dry (& max landing) LBA approved increased from 430 Kg 6.7.1987	440
BGA concession non-aerobatic max weight (dry) [+3%]	453
Max weight of non-lifting components (everything except wings)	235
BGA concession non-aerobatic max weight of non-lifting components [+5%]	247
Max pilot weight (seat load)	110
Max luggage compartment load	5
	mm
Forward C of G limit (aft of datum)	292
Aft C of G limit (aft of datum)	381
Pilot position (forward)	706

Control deflections in degrees

	Up	Down	
Elevator	11.5° - 14.5°	11.5° - 14.5°	
Rudder	Left & right 22.5° - 27.5°		
Flaps Position	Flap deflection Pos 1-7 ± 1° Pos 8 & 9 ± 5°	Aileron deflection All ± 2°	
1	-9° -24mm	-7° -11mm	
2	-6° -17mm	-5° -8mm	
3	-1° -3mm	-1° -1mm	
4	+5° +14mm	+3°,5 +6mm	
5	+9° +24mm	+6° +10mm	
6	+12° +33mm	+7° +11mm	
7	+20° +53mm	+7° +11mm	
8	+36° +98mm	0° 0	
9	+54° +147mm	-7° -11mm	
Aileron radius 95mm Flaps 156mm Positions 8 & 9 only apply with Mod BV			

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

Horizontal datum: Rear fuselage top 1000 : 40 rear down

LBA approved Modification "BV" gives an increase of flap travel to 54° (for landing). 23rd September 1980.

Maximum speeds

	Knots	Kph
VNE	108	200
Rough air	108	200
Manoeuvre		
Winch / auto tow	59	110

	Knots	Kph
Aerotow	81	150
Flap pos 4, 5 & 6	97	180
Flap pos. 7	75	140
Drag chute deployed	108	200

Height feet	Height meters	VNE knots	VNE Kph
10 000 - 16 400	3 - 5 000		
16 400 - 23 000	5 - 7 000		
23 000 - 29 500	7 - 9 000		
29 500 - 36 000	9 - 11 000		
36 000 - 43 000	11 - 13 000		

Note:- BGA recommendation max speed with flap positions 8&9 65 knots, 120 Kph

Max winch weak link: 1000 daN (Black). BGA recommendation Red (750 daN).

Tyre pressure: Main 28 PSI (1.8 - 2.0 atu) Tail 35 PSI (2.5 atu)

Non aerobatic. LBA Type Data Sheet 259

Cloud flying is permitted by the flight manual but is not recommended by the BGA as no airbrakes are fitted.

This sheet compiled by Tim Macfadyen Date 22 July 2003. Updated with flight manual information 2 Sep 2021

Additional aileron & flap position data with flaps in position 8 & 9 19 Nov 2021

Last update 4 June 2023 UK agent Email changed