

# BGA glider data sheet - Ventus a & b (15 & 16.6 meter)

Data source: Flight Manuals & BGA data

Manufacturer: Schempp Hirth, Flugzeugbau GmbH, Postfach 1443, D-73222 Kirchheim/Teck, Germany

Phone: 00 49 7021 7298-0

Fax: 00 49 7021 7298-199 [www.schempp-hirth.com](http://www.schempp-hirth.com)

UK Agent: Southern Sailplanes

Phone: 0148 871774 email [office@southernsailplanes.com](mailto:office@southernsailplanes.com)

## Weighing Data:

### AUW and max weight of non-lifting components (MWNLC).

The AUW and MWNLC vary with serial No. Mod standard and hook type, see EASA TCDS A274. The MWNLC may be increased by 5% if the category is downgraded from semi-aerobatic to non-aerobatic.

Max pilot weight (seat load)	110 Kg	242 Lbs
	mm	Inches
Forward C of G limit (aft of datum)	200	7.87
Aft C of G limit (aft of datum)	340	13.39
Pilot position (forward of datum)	518	20.4

## Control deflections in mm

	Up	Down	Distance - hinge to measuring point	Max free play
Ailerons	44±4	25±4	132	±3
Elevator	40±4	47±4	157	±3
Rudder	Left & right 160±20		340	
Flaps	28±2	30±2	141	
Brakes	100±2		120	±3
	Weight kg		Moment kg cm	
Elevator	0.67 - 0.85			
Rudder	4.43 - 4.97			
Flap	2.31 - 2.95			
Inner ailerons	1.10 - 1.40			
Outer ailerons	1.02 - 1.30			
Tip ailerons 16.6 meters	0.14 - 0.18			

Longitudinal datum: Wing root LE Horizontal datum: Rear fuselage top 1000:44 tail down

Each 2 Kg nose weight reduces the minimum cockpit load by 5 Kg.

## Maximum speeds

	Knots	Kph
VNE	135	250
Rough air	102	190
Rough air Turbo	97	180
Manoeuvre	102	190
Aerotow	97	180
Winch / auto tow	81	150
Flaps 0, +1, +2 & L	86	160
U/C down	97	180

## VNE at altitude

Height (meters)	Height (feet)	Knots	Kph
Up to 5 000	Up to 16 400	135	250
5 000	16 400	135	250
6 000	19 680	134	249
7 000	22 960	127	235
8 000	26 240	120	222
9 000	29 520	113	209
10 000	32 800	106	197
12 000	39 360	92	171

Max winch weak link: 635 Kg (Tost blue)

Max fore & aft play at the wing tip 30mm.

Tyre pressure: Up to 330 Kg (727 lb) AUW 3,5 bar (50 psi). Over 330 Kg (727 lb) AUW 4,7 bar 67 psi

Semi aerobatic (but see above), cloud flying permitted

This sheet compiled by: Tim Macfadyen

Last Update: 20 March 2023 Reference to EASA TCDS A274 weighing data added,