

BGA glider data sheet - Ventus 2 a & b (15 Meter)

Data source: Flight Manuals & BGA data

Date of issue:

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

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Weighing Data:

Control deflections in mm

	Kg	Pounds	
Max weight with water (take off and landing)	525	1157	
Max weight dry	345	761	
BGA concession non-aerobatic max weight dry [+3%]	355	784	
Max water	200	441	
Max weight of non lifting components (everything except wings)	Serial No 1-21	230	507
	Serial No 22 on	235	518
	Serial No 22 on	247	544
Max pilot weight (seat load)	110	242	
Max in baggage compartment	2	4.5	
	mm	Inches	
Forward C of G limit (aft of datum)	220	8.66	
Aft C of G limit (aft of datum)	360	14.17	
Pilot position (forward) Ventus 2a	455	17.9	
Pilot position (forward) Ventus 2b	518	20.4	

	Up	Down	Distance - hinge to measuring point
Ailerons (flaps 0)	33±3	25±3	126
Elevator	51±2	47±4	157
Rudder	Left & Right 160±20		340
Flaps S1 0° L	30 ± 2		126
	0 ± 2		
	22 ± 2		
Free-play - inboard ailerons ±2, between inboard and mid ailerons ±2, between mid and outboard ±1.			
	Weight kg	Moment kg cm	
Elevator half	0.72 - 0.88	2.75 - 3.5	
Rudder	3.9 - 4.8	-3.0 - 1.0	
Flap/inner aileron	1.5 - 1.85	7.0 - 8.5	
Mid aileron	2.0 - 2.5	2.7 - 3.5	
Outer ailerons	0.54 - 0.66	1.5 - 1.9	

Longitudinal datum: Wing root LE

Horizontal datum: Rear fuselage top tail down Ventus 2a 1000:31.25 Ventus 2b - 1000:44

Max fore & aft play at the wing tip 30mm. The water in the wings is 179mm aft of datum.

Distance datum to wheel (a) 106mm. Distance wheel to skid (b) Ventus 2a 3885mm, Ventus 2b 4050mm.

Ventus 2a fin water & battery are 3900mm aft, nose weights are 1635mm forward, battery at panel is 1005mm fwd.

Ventus 2b fin water & battery are 4050mm aft, nose weights are 1745mm forward, battery at panel is 1095mm fwd.

Maximum speeds

	Knots	Kph
VNE	146	270
Rough air	97	180
Manoeuvre	97	180
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
3000	10 000	140	260
4 000	13 000	133	247
5 000	6 500	126	234
6 000	20 000	119	221
7 000	23 000	113	209
8 000	26 000	106	197
9 000	30 000	100	186
10 000	33 000	94	175
12 000	40 000	82	151

Max winch weak link: 635 Kg (Blue)

Tyre pressure: 4.7 bar (67 psi)

Semi aerobatic without water, cloud flying permitted

This sheet compiled by: Tim Macfadyen

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