

BGA glider data sheet - Ventus 2c 15 & 18 meter (non Turbo)

Data source: Flight Manuals

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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

UK Agent: Southern Sailplanes

Phone: 0148 871774

Fax:

Weighing Data:

	Kg	Pounds
Max weight with water	525	1157
Max weight dry 15 M	430	948
Max weight dry 18 M	441	972
Max weight of non lifting components (everything except wings)	250	551
BGA concession non-aerobatic max weight of non lifting components [+5%]	262	579
Max mass baggage compartment	2	4.4
Max water capacity (approximately)	174	383
Max pilot weight (seat load)	110	242

	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)	520	20.47

Control deflections in mm

	Up	Down	Distance - hinge to measuring point
Elevator	54±2	50±4	161
Ailerons	34±3	26±3	131
Free-play - inboard ailerons ±2, between inboard and mid ailerons ±2, between mid and outboard ±1.			
Rudder	Left & Right 160±20		340
Flaps S1 0° L	31 ± 2 up 0 ± 2 24 ± 2 down		131
		Weight kg	Moment kg cm
Elevator half		0.72 - 0.88	2.5 - 3.5
Rudder		4.0 - 5.0	-2.0 - 2.1
Flap/inner aileron		1.4 - 1.85	6.5 - 8.5
Mid aileron		2.0 - 2.5	2.7 - 3.5
Outer ailerons 15m		0.54 - 0.66	1.5 - 1.9
Outer ailerons 18m		0.7 - 0.9	2.1 - 2.7
Tip ailerons 18m		0.18 - 0.23	0.45 - 0.55

Longitudinal datum: Wing root LE

Horizontal datum: Rear fuselage top tail down 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) 100mm. Distance wheel to tail skid/wheel (b) 4145mm.

Fin water & battery are 4275mm aft, nose weights are 1740mm forward, battery at panel is 1095mm fwd.

The three nose weights each weigh 2.1 kg (4.6 lb). Each reduces minimum cockpit load by 5 kg (11 lb).

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	139	257
4 000	13 000	132	244
5 000	6 500	125	232
6 000	20 000	119	220
7 000	23 000	112	208
8 000	26 000	106	196
9 000	30 000	100	185
10 000	33 000	89	164
12 000	40 000	81	150

Max winch weak link: 750 daN (Tost Red) Early models may be different, check flight manuals.

Tyre pressure: 4 bar (58 psi). Tail wheel 2 bar (29 psi)

Category "Utility" - Semi aerobatic and cloud flying permitted in 15 span and without water only.

LBA Type certificate number 349

The hydraulic wheel brake takes Dot 3/Dot 5 brake fluid.

This sheet compiled by: Tim Macfadyen Last update: 23 July 2009, winch weak link strength corrected

Previous update: 10 April 2009, applicability to Turbo version removed